

13 March 2017

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. Darrel Kingan

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 February 2017**

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for February 2017 (Rev. 1) certified by the ET Leader (ET's ref.: "5140819/18.30/OC030/KC/EW" dated 10 March 2017) and provided to us via e-mail on 10 March 2017.

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.

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 Environ Hong Kong Limited



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, ENPO Site

Your ref.  
Our ref. 5140819/18.30/OC030/KC/EW

Date: 10 March 2017

**By Post and e-mail (Stephen.Tsang@lcwjb.com )**

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

**Attn: Mr. Stephen Tsang**

Dear Mr. Tsang,

**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. 12**

Atkins China Limited certifies, in the capacity of Environmental Team Leader, that the Monthly EM&A Report No. 12 for February 2017 (Revision 1) 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. Michael Tovey (By Fax.: 3468 2076)
2. IEC/ENPO – Mr. Raymond Dai & Mr. Y.H. Hui (By Fax.: 3465 2899)



路政署  
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處  
Hong Kong - Zhuhai - Macao Bridge  
Hong Kong Project Management Office

**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. 12**

**(Covering the Period from 1 February 2017 to 28 February 2017)**

10 March 2017

Revision 1

Main Contractor



Leighton - Chun Wo  
Joint Venture

Environmental Team

**ATKINS**

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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 – 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 twelfth 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 28 February 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 the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works 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/2010/02 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: 1, 8, 15 and 22 February 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.

There was 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/2010/02 during the reporting period.

There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2010/02 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**

Construction works of Contract No. HY/2014/04 has been conducted within the works area of Contract No. HY/2014/05 since 13 February 2017.

## Future Key Issues

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

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

- Earth Works for Buildings 050A1, 050A2 and 050H2
- Raft foundation for Buildings 032, 044, 045 and 050H1
- Construction of RC Structure of Buildings 022, 023, 032, 044, 045 and 050H1
- Installation of window wall of Building 045
- ABWF works (Internal Finishes) of Buildings 021, 025, 044, 045, 053, 058 and 059
- ABWF works (External Finishes) of Buildings 025, 032, 053, 058 and 059
- ABWF works (Roof Finishes) of Buildings 021, 023, 025, 032 and 053
- Dog Swimming Pool of Building 022
- Utilities and Drainage installation of Building 053

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

- Conceal Conduit Installation at Buildings 025 and 032

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

- Hole drilling at Buildings 058 and 059



## 1 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 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:
    - Extra Low Voltage (ELV) installed by Contract No. HY/2013/03;
    - 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 twelfth 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 28 February 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**.

**Table 1-1 Contact Information of Key Personnel**

Party	Position	Name	Telephone	Fax
<u>For Contract No. HY/2014/05</u>				
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Darrel Kingan	3958 7339	3468 2076
Environmental Project Office / Independent	Environmental Project Office	Y. H. Hui	3465 2888	3465 2899

Environmental Checker (Ramboll Environ Hong Kong Limited)	Leader			
	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor (Leighton – Chun Wo Joint Venture)	Site Agent	Albert Chan	3973 0514	3621 0180
	Environmental Officer	Wu Yun Kau	5505 8633	3621 0180
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343
24 hours complaint hotline	---	---	3958 7300	---
<u>For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area</u>				
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Darrel Kingan	3958 7339	3468 2076
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor (ATAL Technologies Limited)	Site Agent	Mr. Eric Yim	2565 3355	3162 5217
	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	---
<u>For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area</u>				
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Darrel Kingan	3958 7339	3468 2076
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor (Rapiscan Systems Pte Ltd)	Site Agent	Ringo Yau	9833 1402	2707 0816
	Environmental Officer	Clarie Tsang	6371 1362	---
Environmental Team (Atkins China Limited)	Environmental Team Leader	Keith Chau	2972 1721	2890 6343

24 hours complaint hotline	---	---	9833 1420	---
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### 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:

For Contract No. HY/2014/05

- Earth Works for Buildings 050H1 and 050H2
- Raft foundation for Buildings 032, 044, 045 and 050H1
- Construction of RC Structure of Buildings 022, 023, 025, 032, 044, 045 and 053
- Installation of window wall of Building 045
- ABWF works (Internal Finishes) of Buildings 021, 025, 053, 058 and 059
- ABWF works (External Finishes) of Buildings 025, 032, 053, 058 and 059
- ABWF works (Roof Finishes) of Buildings 021, 032 and 025
- Dog Swimming Pool of Building 022
- Utilities and Drainage installation of Building 053 and 058

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

- Conceal Conduit Installation Buildings 025 and 032

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

- Delivering materials at Building 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/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF.
- 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/2010/02 and HY/2011/03. **Figure 2.1** shows the locations of the air monitoring stations.

**Table 2-1 Construction Dust Monitoring 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/2010/02 and HY/2011/03.
- 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-hour TSP**

Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	500
AMS 7 - Hong Kong SkyCity Marriott Hotel	370	

**Table 2-3 Action and Limit Levels for 24-hour TSP**

Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	260
AMS 7 - Hong Kong SkyCity Marriott Hotel	183	

- 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/2010/02, 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.
- 2.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 recorded by the ET of Contract No. HY/2010/02 during the reporting period.

### 3 Noise Monitoring

#### 3.1 Monitoring Locations

3.1.1 The noise monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works. 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/2010/02. **Figure 3.1** shows the locations of noise monitoring stations.

**Table 3-1 Construction Noise Monitoring Locations**

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 Nos. HY/2010/02.

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/2010/02. No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

## 4 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 1, 8, 15 and 22 February 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**.

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

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
25 January 2017	1.A crawler crane was found without NRMM label at Building 032. 2.Two chemical containers were found without drip tray at Building 044.	1.A NRMM label was displayed on the crawler crane at Building 032. 2.The chemical containers were removed at Building 044.	1 February 2017
1 February 2017	No particular environmental issue was recorded during the site inspection.	NIL	NIL
8 February 2017	1.A chemical container was observed without drip tray at Building 023.	1.The chemical container at Building 023 was removed.	15 February 2017
15 February 2017	1.The chemical containers were found without drip tray at Building 023.	1.The chemical containers were removed at Building 023.	22 February 2017
22 February 2017	1.A chemical container was found without drip tray at Building 044.	1.The Contractor was reminded to provide a drip tray for the chemical container at Building 044.	Follow-up action undertaken by the Contractor will be inspected during the site inspection to be undertaken in March 2017.



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

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
1 February 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
8 February 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
15 February 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
22 February 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**

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
15 February 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.
22 February 2017	No particular environmental issue was recorded during the site inspection.	Nil.	Nil.

- 4.1.1 The Contractor has rectified most of observations as identified during environmental site inspections within this reporting month. The follow-up actions for observation issued for the last site inspection will be checked in the upcoming site inspection and reported in the next reporting period.

#### 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**. 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.
- 4.5.2 There was 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/2010/02 during the reporting period.
- 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/2010/02 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 March 2017 are summarized in **Table 5-1**.

**Table 5-1 Construction Activities for March 2017**

Site Area	Description of Activities
<u>For Contract No. HY/2014/05</u>	
Buildings 050A1, 050A2 and 050H2	Earth Works
Buildings 032, 044, 045 and 050H1	Raft foundation
Buildings 022, 023, 032, 044, 045 and 050H1	Construction of RC Structure
Building 045	Installation of window wall
Buildings 021, 025, 044, 045, 053, 058 and 059	ABWF works (Internal Finishes)
Buildings 025, 032, 053, 058 and 059	ABWF works (External Finishes)
Buildings 021, 023, 025, 032 and 053	ABWF works (Roof Finishes)
Building 022	Dog Swimming Pool
Building 053	Utilities and Drainage installation
<u>For Contract No. HY/2013/06 within Contract No. HY/2014/05 works area</u>	
Buildings 025 and 032	Conceal Conduit Installation
<u>For Contract No. HY/2014/04 within Contract No. HY/2014/05 works area</u>	
Buildings 058 and 059	Hole drilling

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

5.2.1 The tentative schedule for weekly site inspections for March 2017 is provided in **Appendix I**.

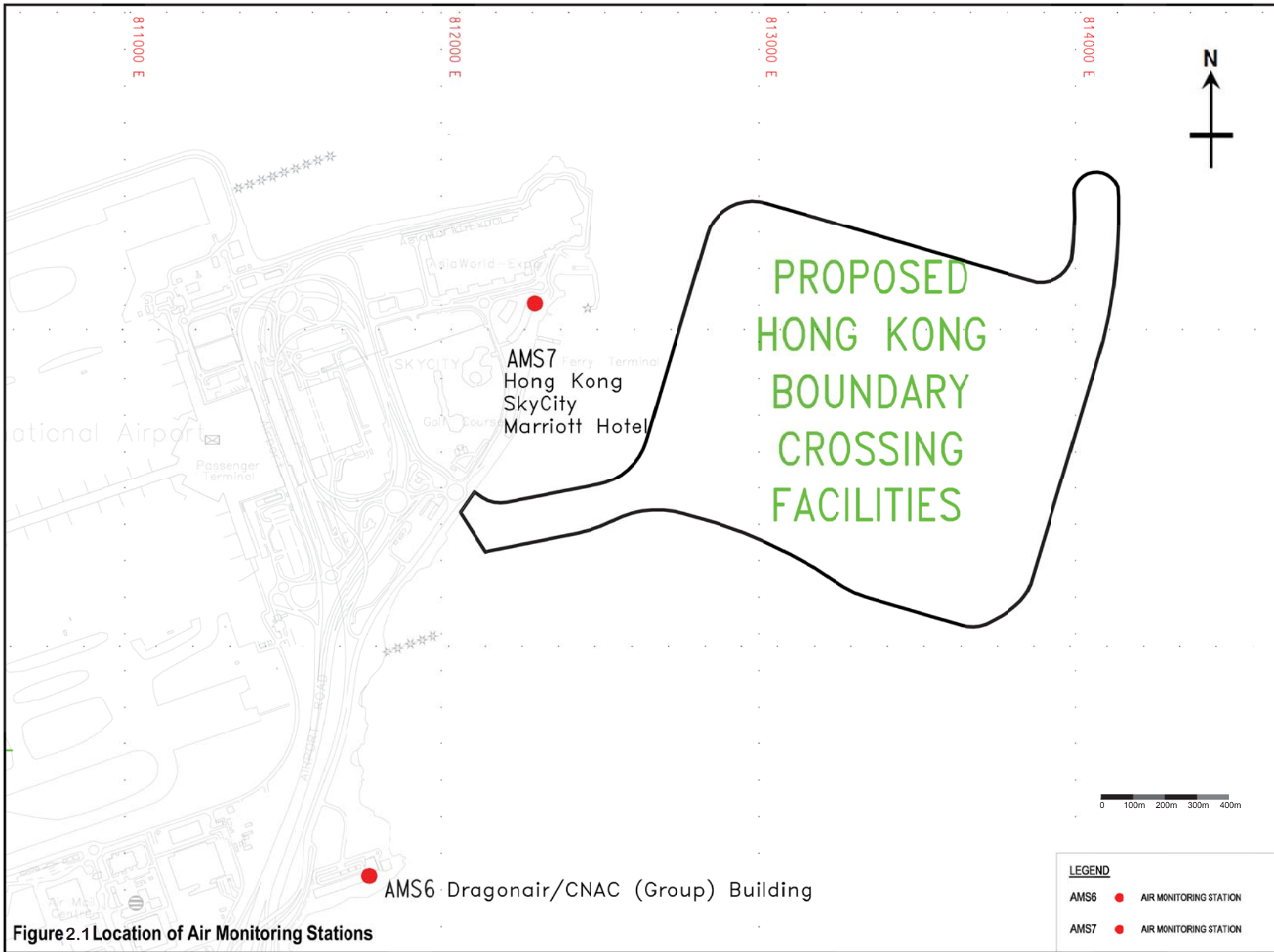
## 6 Conclusions

### 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 twelfth Monthly EM&A Report for Contract No. HY/2014/05 summarizes findings of the EM&A works during the reporting period from 1 to 28 February 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.
- 6.1.3 There was 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/2010/02 during the reporting period.
- 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/2010/02 during the reporting period.
- 6.1.5 Environmental site inspections were carried out on 1, 8, 15 and 22 February 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 inspections.
- 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.

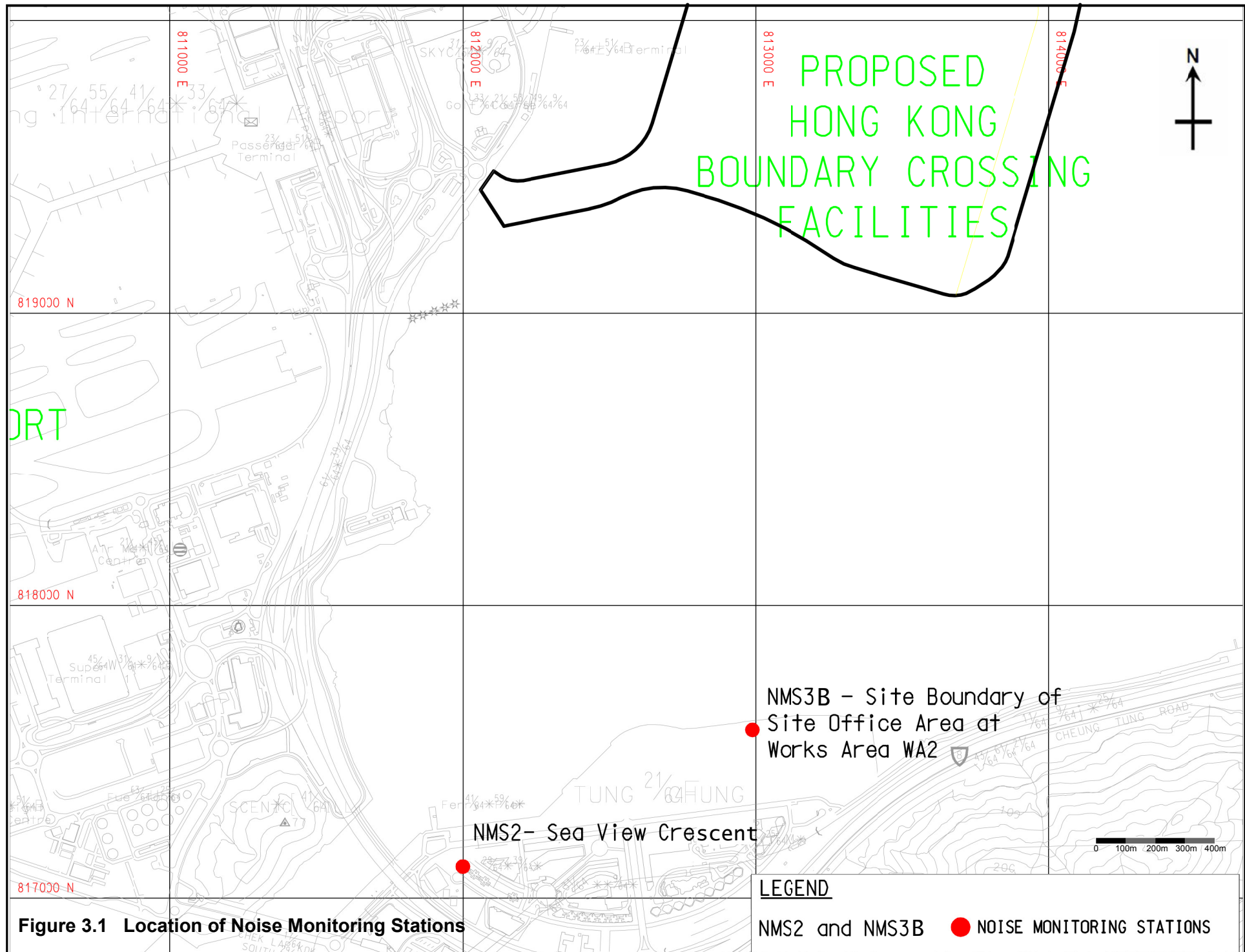
# FIGURES

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**Figure 2.1 Location of Air Monitoring Stations**

LEGEND	
AMS6	● AIR MONITORING STATION
AMS7	● AIR MONITORING STATION



**Figure 3.1 Location of Noise Monitoring Stations**

**LEGEND**

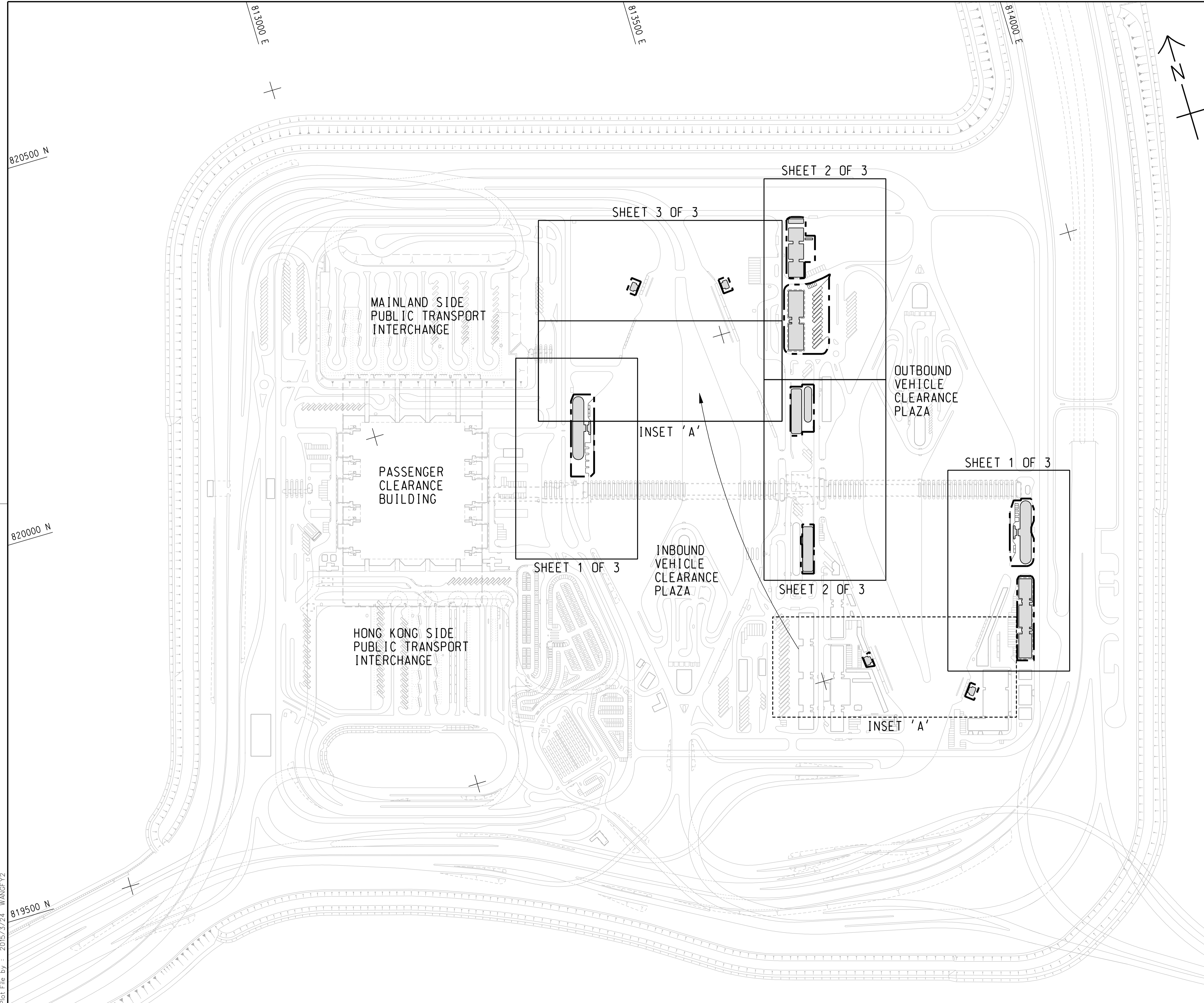
NMS2 and NMS3B ● NOISE MONITORING STATIONS

# APPENDIX A

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## Location of Works Areas





- TENDER DRAWING		BWCW SCI	MAR. 15
REV. 修改	DESCRIPTION 內容摘要	D.C. 審核	DATE 日期

**HIGHWAYS DEPARTMENT**  
 路政署  
 港珠澳大橋香港工程管理處  
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE  
 HONG KONG BOUNDARY CROSSING FACILITIES  
 - REMAINING ANCILLARY BUILDINGS AND FACILITIES

KEY PLAN

**AECOM** Aedas  
 Rogers Stirk Harbour + Partners  
 BURO HAPPOLD ATKINS ADI

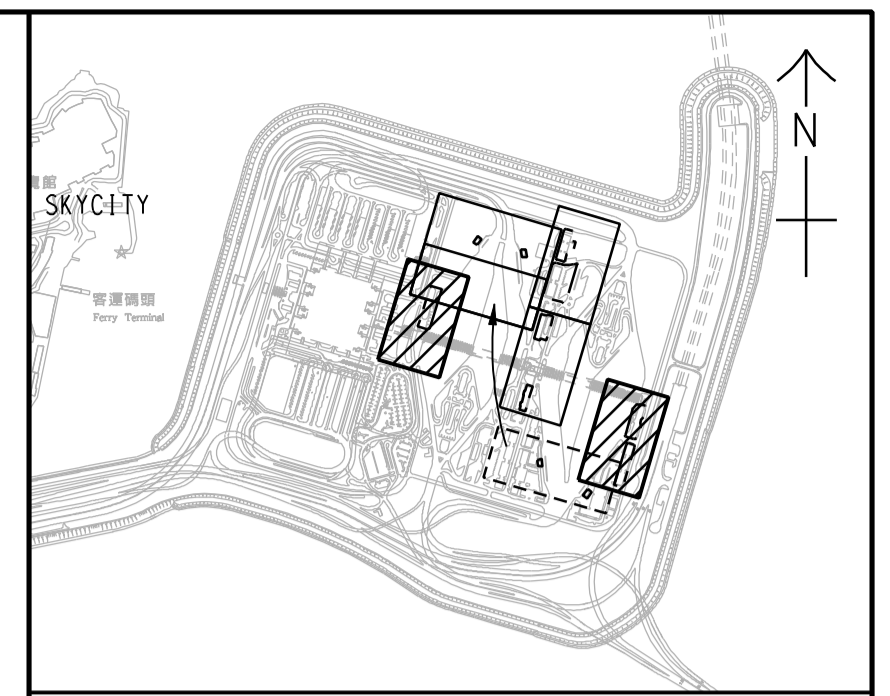
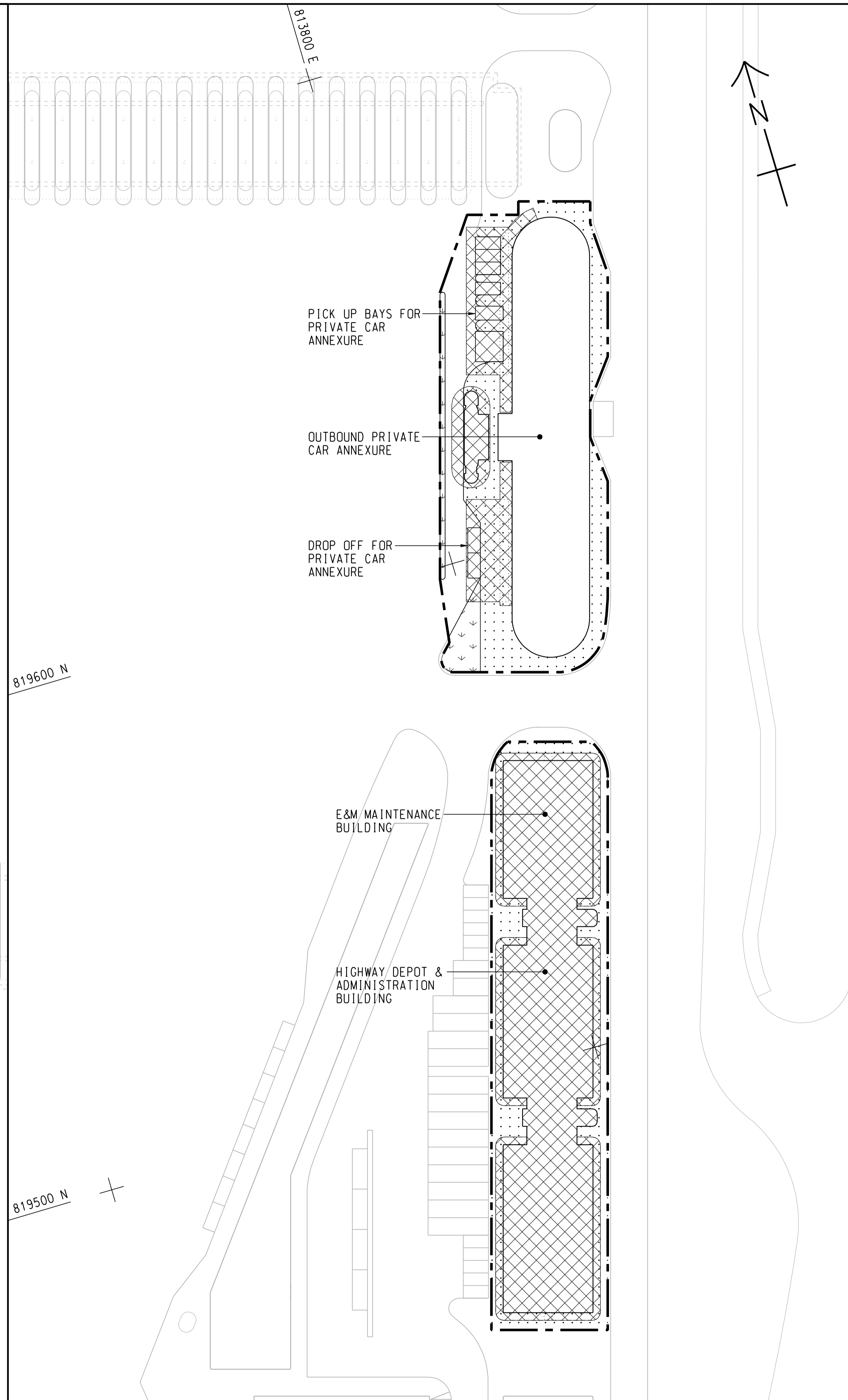
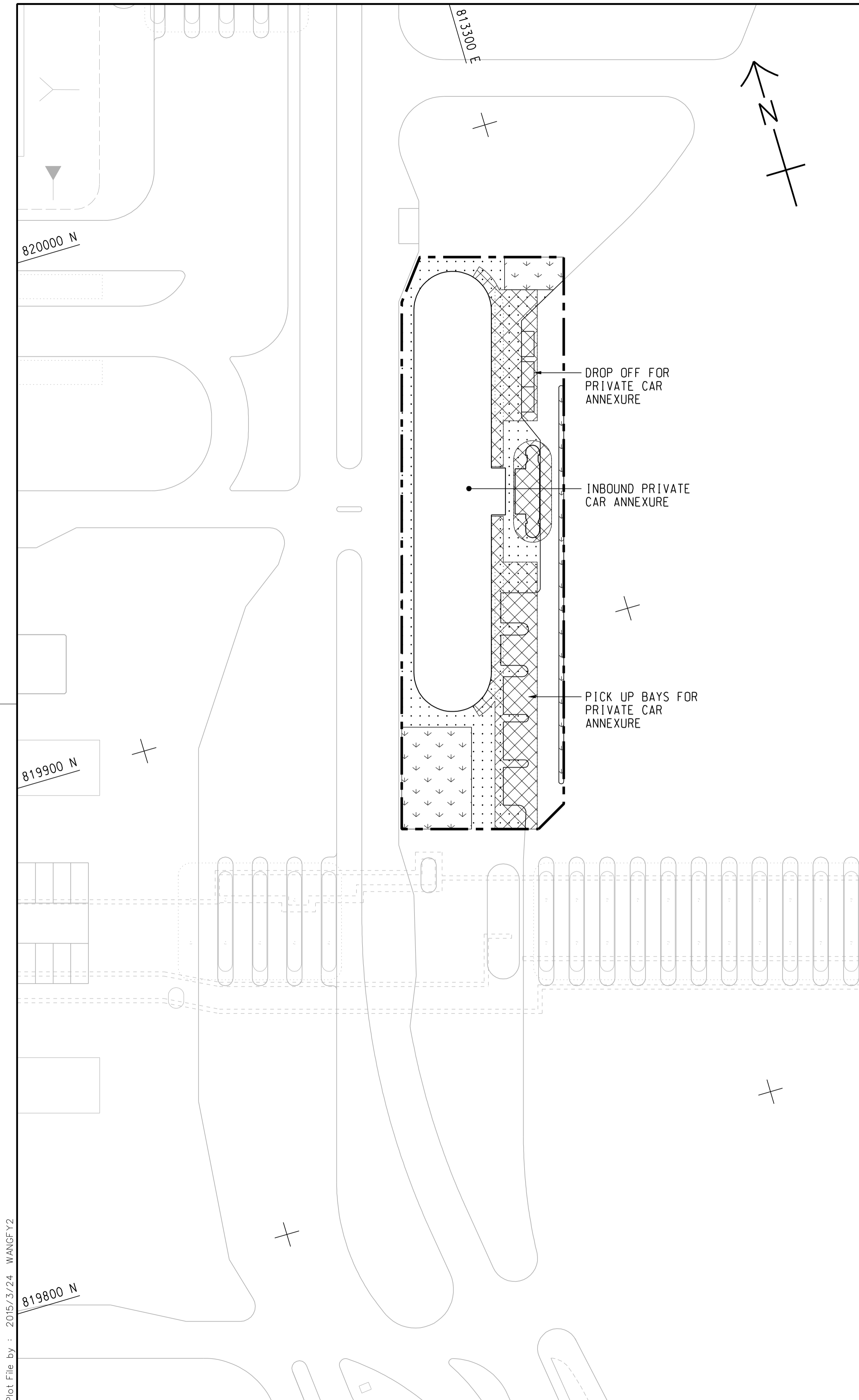
DRG.NO. 60191048/C8/000/C00/1010  
 圖紙編號

DESIGNED BY 設計	BWCW	CONTRACT NO. 合約編號	HY/2014/05	P. Dir. APPROVED 批准人	TKH
DRAWN BY 繪圖	WSY	STATUS 階段			

SCALE 比例 A1 1 : 2500  
 DIMENSIONS ARE IN 尺寸單位 METRES

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Plot File by : 2015/3/24 WANGFY2



KEY PLAN  
SCALE 1 : 20000

NOTE:  
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C8/000/C00/1012 AND 1013.

LEGEND:

	SITE BOUNDARY
	FOOTPATH (DETAILS REFER TO LANDSCAPE DETAIL DRAWINGS)
	CANOPY
	PLANTING AREA

REV. / 修改	DESCRIPTION / 內容摘要	DATE / 日期
-	TENDER DRAWING	MAR. 15



HONG KONG-ZHUHAI-MACAO BRIDGE  
HONG KONG BOUNDARY CROSSING FACILITIES  
- REMAINING ANCILLARY BUILDINGS AND FACILITIES

GENERAL LAYOUT PLAN

SHEET 1 OF 3

**AECOM** +  
Rogers Stirk Harbour + Partners  
BURO HAPPOLD ATKINS ADI +

**Aedas**

DRG.NO. / 圖紙編號: 60191048/C8/000/C00/1011

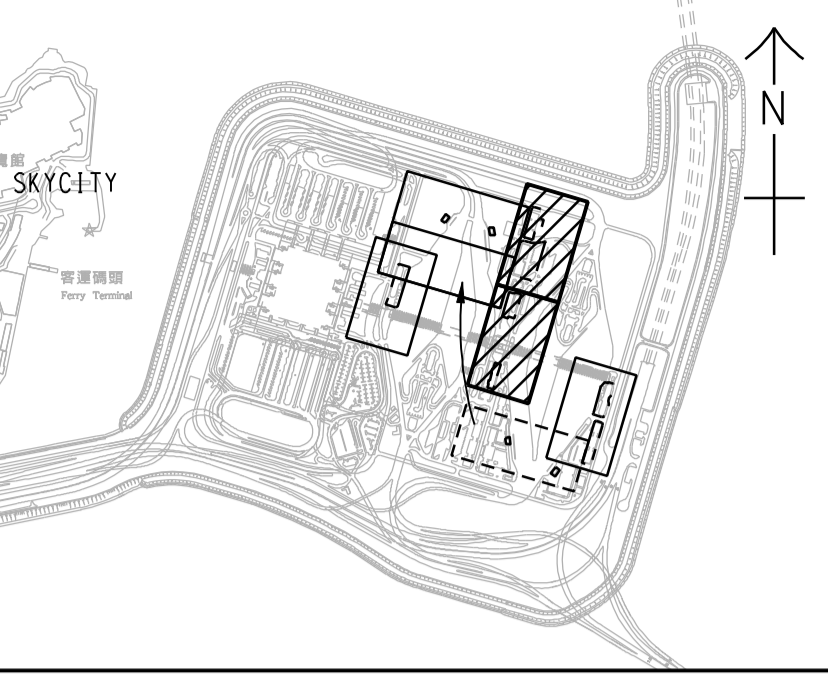
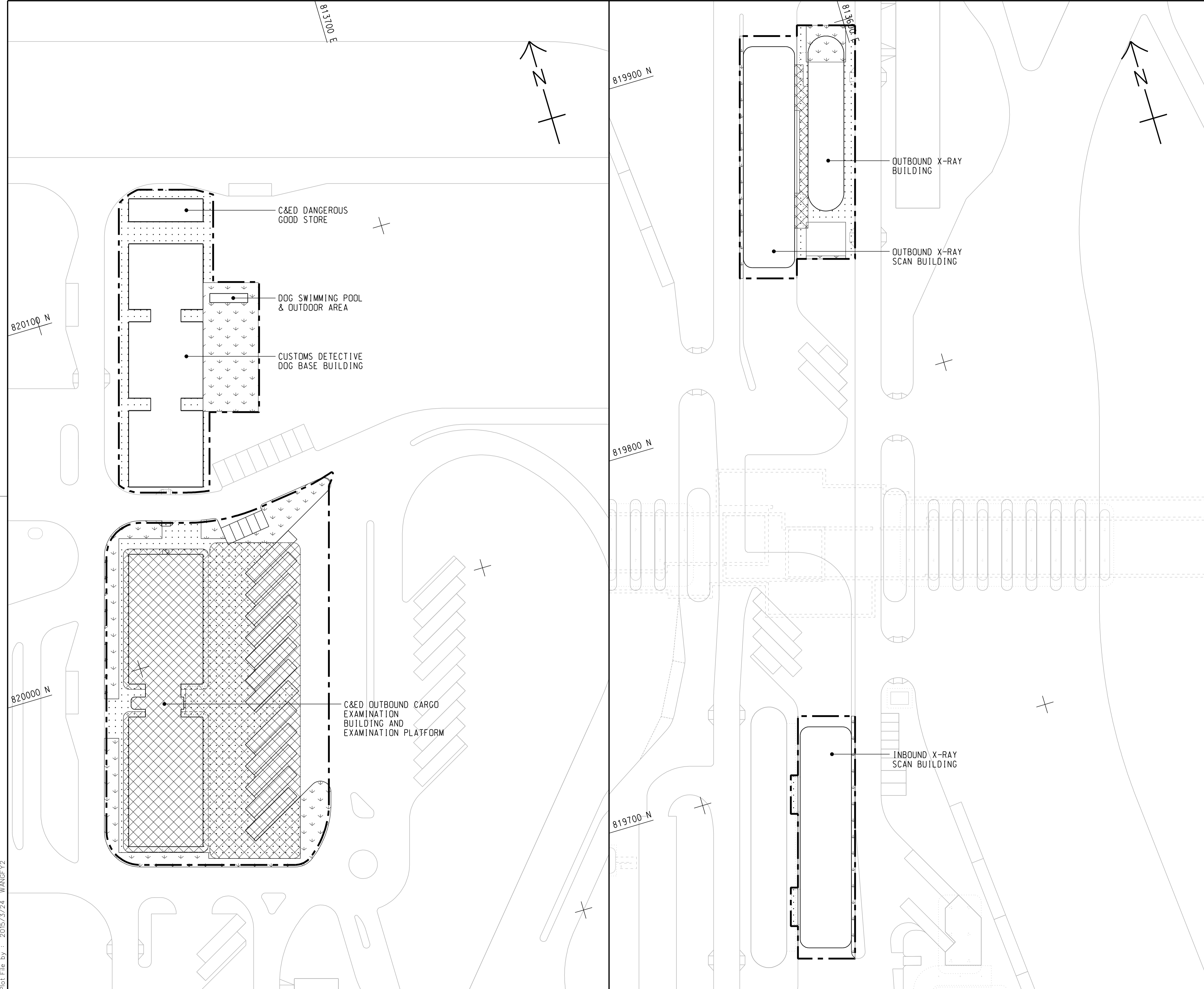
DESIGNED BY / 設計	CONTRACT NO. / 合約編號	P. Dir. / APPROVED / 批准人
BWCW	HY/2014/05	TKH

DRAWN BY / 繪圖	STATUS / 階段
WSY	初步

SCALE / 比例: A1 1 : 500

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KEY PLAN  
SCALE 1 : 20000

- NOTES:**
- FOR NOTES AND LEGEND REFER TO DRAWING NO. 60191048/C8/000/C00/1011.
  - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C8/000/C00/1011 AND 1013.

REV. 修改	DESCRIPTION 內容摘要	B.C. 校核	P.C. 繪圖	DATE 日期
-	TENDER DRAWING	BWCW	SCI	MAR. 15

路政署 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE  
 HONG KONG BOUNDARY CROSSING FACILITIES  
 - REMAINING ANCILLARY BUILDINGS AND FACILITIES

GENERAL LAYOUT PLAN

SHEET 2 OF 3

**AECOM** +  
**Aedas**  
 Rogers Stirk Harbour + Partners  
 BURO HAPPOLD ATKINS ADI +

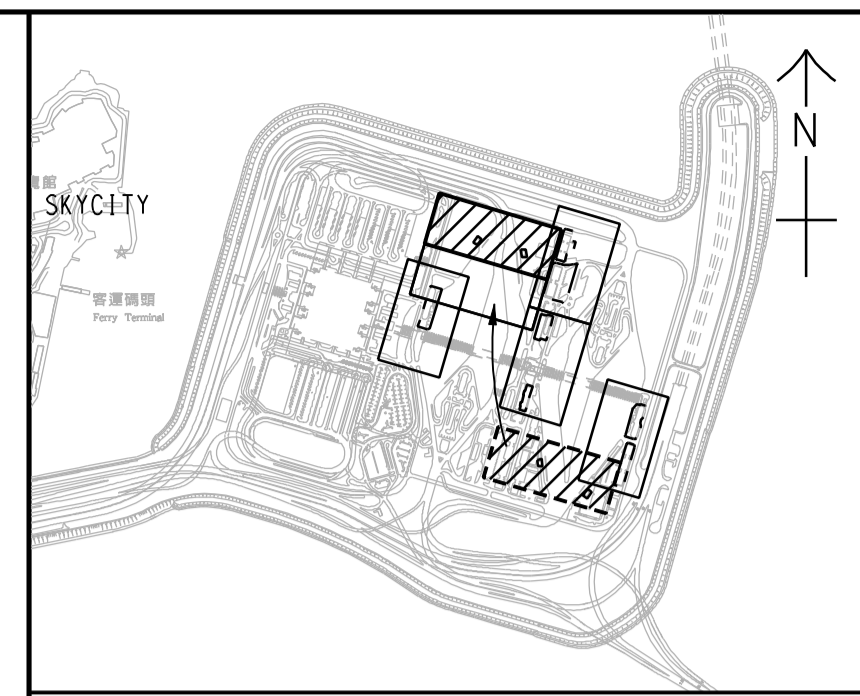
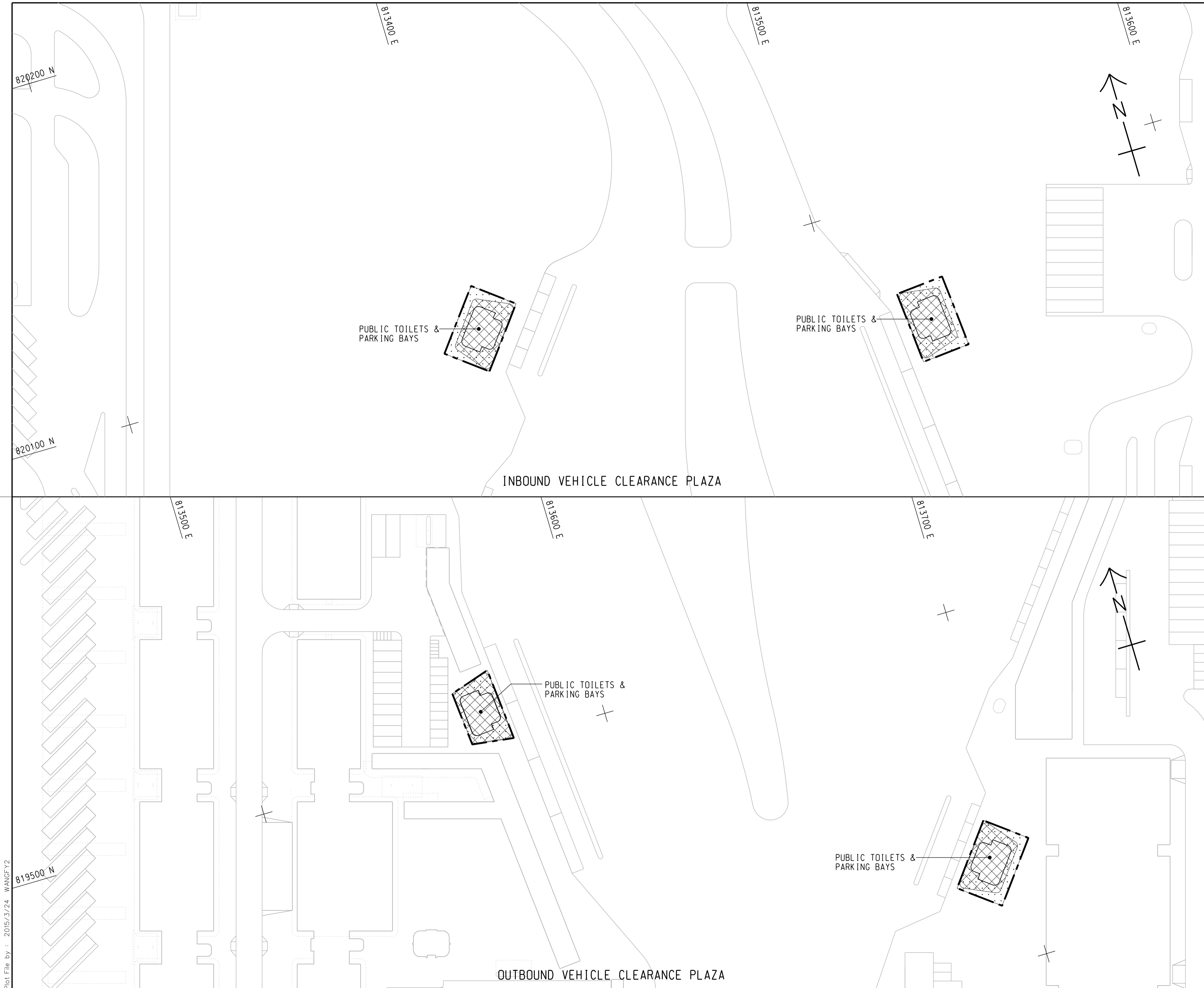
DRG. NO. 60191048/C8/000/C00/1012  
 圖紙編號

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. Dir. APPROVED 批准人
BWCW	HY/2014/05	TKH

DRAWN BY 繪圖	STATUS 階段
WSY	初步

SCALE 比例 A1 1 : 500  
 DIMENSIONS ARE IN 尺寸單位 METRES  
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KEY PLAN  
SCALE 1 : 20000

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2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C8/000/C00/1011 AND 1012.

REV. 修改	DESCRIPTION 內容摘要	DATE 日期
-	TENDER DRAWING	MAR. 15



HONG KONG-ZHUHAI-MACAO BRIDGE  
HONG KONG BOUNDARY CROSSING FACILITIES  
- REMAINING ANCILLARY BUILDINGS AND FACILITIES

GENERAL LAYOUT PLAN

SHEET 3 OF 3

**AECOM** +  
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BURO HAPPOLD ATKINS ADI +

**Aedas** +

DRG. NO. 60191048/C8/000/C00/1013  
圖紙編號

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. Dir. APPROVED 批准人
BWCW	HY/2014/05	TKH

DRAWN BY 繪圖	STATUS 階段
WSY	初步

SCALE 比例 1 : 500  
DIMENSIONS ARE IN 尺寸單位 METRES 米

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Plot File by : 2015/3/24 WANGFY2

SETTING OUT POINT

POINT	EASTING	NORTHING
301	817467.265	819162.683
302	817314.741	819069.828
303	817327.338	819049.295
304	817440.865	819117.811
305	817340.825	819027.314
306	817387.350	819023.403
307	817387.861	819043.396
308	817466.133	819091.047
309	817469.783	819087.181
310	817513.449	819113.764
311	817347.717	819016.082
312	817450.595	819032.307
313	817445.369	819013.157
314	817531.154	819001.065
315	817533.345	818991.306
316	817620.269	819000.620
317	817495.827	819059.596
318	817522.110	819075.388
319	817566.404	819028.472
320	817568.507	819008.526
321	817569.551	818998.621

81200 E

81400 E

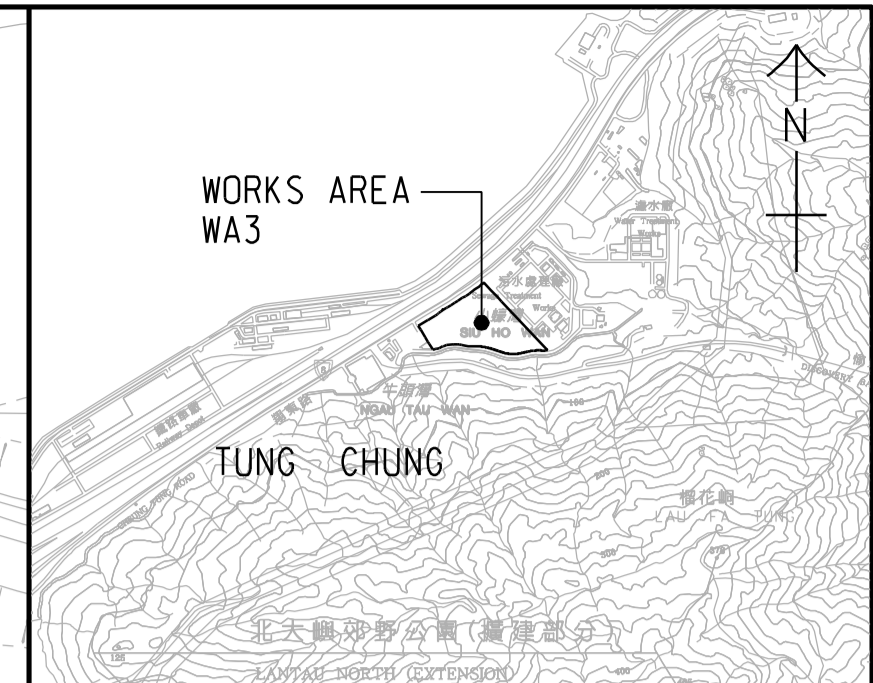
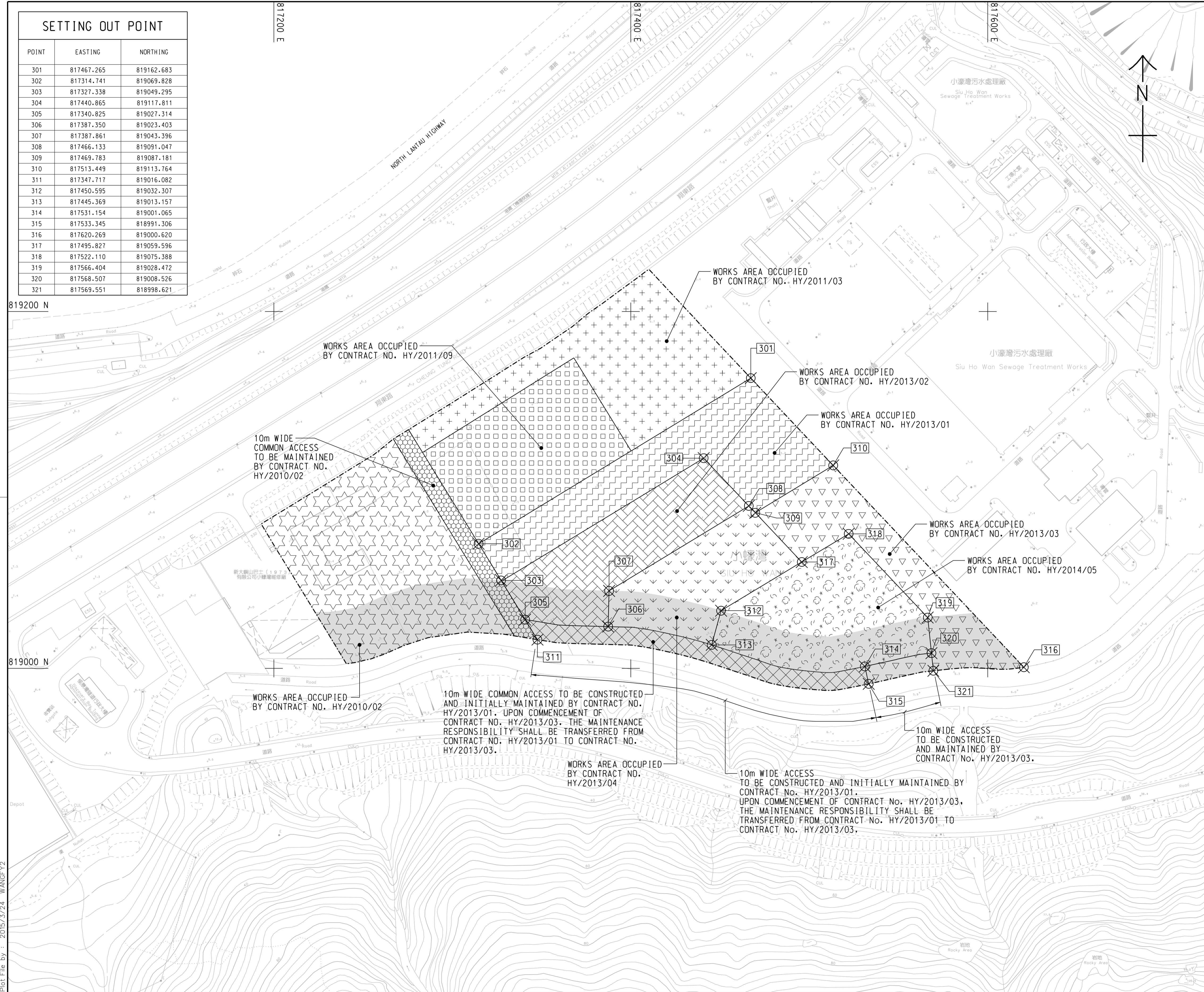
81600 E

819200 N

819000 N

Plot File by : 2015/3/24 WANGFY2

p:\projects\60191048\drawing\contract\c8\1000\c8\_000\_c00\_1051.dgn



LOCATION PLAN  
SCALE 1 : 25000

NOTES:

- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
- DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

	WORKS AREA BOUNDARY
	PORTION 3.1
	PORTION 3.2
	PORTION 3.3
	PORTION 3.4
	PORTION 3.5
	PORTION 3.6
	PORTION 3.7
	PORTION 3.8
	PORTION 3.9
	PORTION 3.10
	NON-BUILDING AREA 8200m <sup>2</sup> (WHOLE)

TENDER DRAWING		BWC SCI	MAR. 15
REV.	DESCRIPTION	DATE	DATE

路政署 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE  
 - REMAINING ANCILLARY BUILDINGS AND FACILITIES

WORKS AREA WA3

**AECOM** **Aedas**  
 Rogers Stirk Harbour + Partners  
 BURO HAPPOLD ATKINS ADI

DRG.NO. 60191048/C8/000/C00/1051  
 圖紙編號

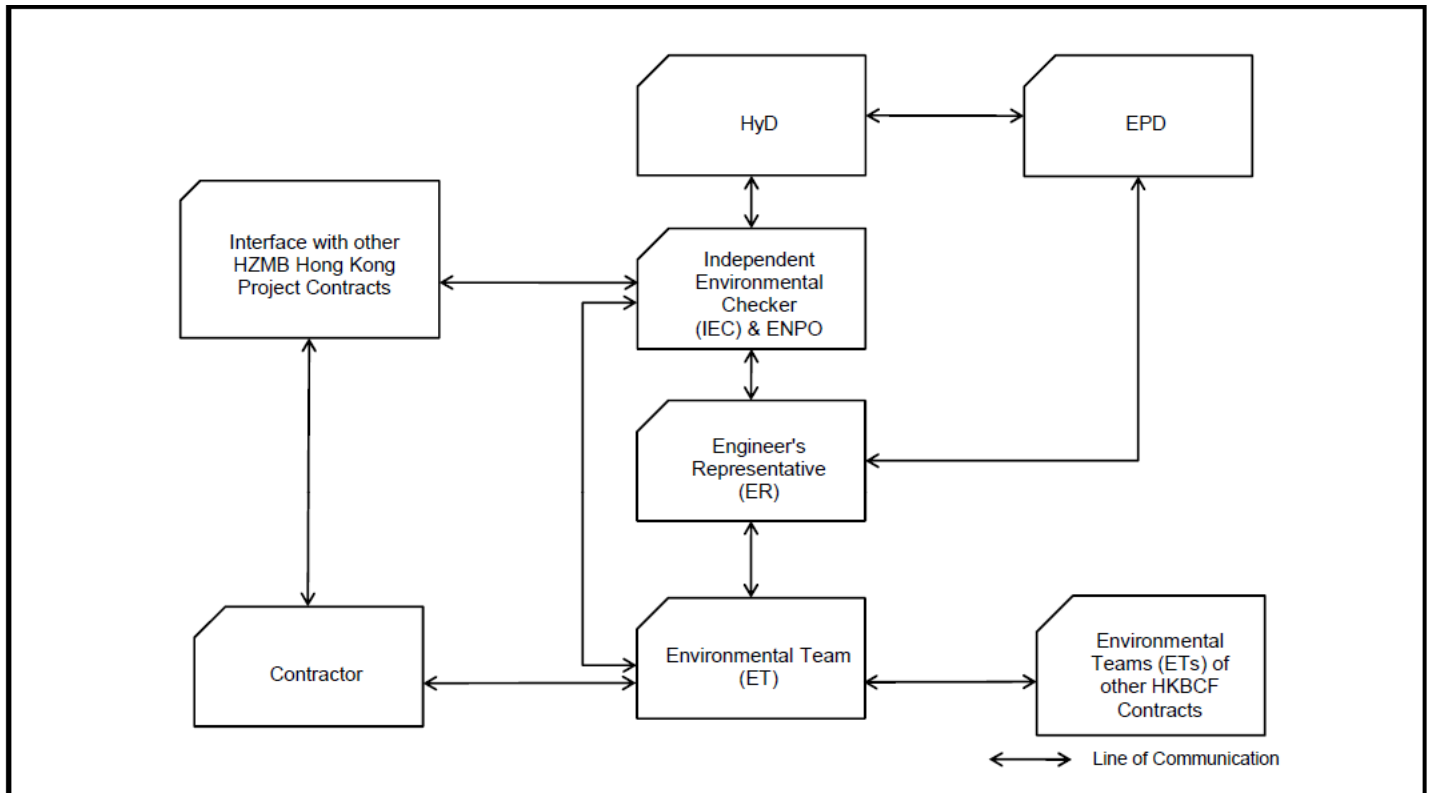
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DRAWN BY WSY	STATUS 繪圖	
SCALE 比例 1 : 1000		
DIMENSIONS ARE IN 大圖單位 METRES		© COPYRIGHT RESERVED 版權所 有

## APPENDIX B

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### Project Organization for Environmental Works

## Project Organisation for Environmental Works



# APPENDIX C

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## Construction Programme



CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	January 2017												February 2017												March 2017												April 2017												May 2017												June 2017												July 2017												August 2017												S												October 2017												November 2017												December 2017												18																																			
		08				15				22				29				05				12				19				26				02				09				16				23				30				06				13				20				27				03				10				17				24				01				08				15				22				29				05				12				19				26				03				10				17				24				31																																											
<b>Total</b>																																																																																																																																																																																					
<b>HY/2014/05 HKZMB HKBCF - WORKS PROGRAMME, 01 FEB-17</b>																																																																																																																																																																																					
<b>RAB3 SUMMARY PROGRAMME (Des &amp; proc Linked)</b>																																																																																																																																																																																					
<b>GENERAL/PRELIMINARIES</b>																																																																																																																																																																																					
<b>DESIGN AND ENGINEERING</b>																																																																																																																																																																																					
<b>PROCUREMENT, MANUFACTURING &amp; DELIVERIES</b>																																																																																																																																																																																					
<b>CONSTRUCTION</b>																																																																																																																																																																																					
<b>Building 021 - C&amp;ED Dangerous Goods Store</b>																																																																																																																																																																																					
RAB-21-0100	021 - Forecast Possession of Portion G2 - If Exercised																																																																																																																																																																																				
<b>Raft</b>																																																																																																																																																																																					
<b>Structure</b>																																																																																																																																																																																					
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<b>Degree 1</b>																																																																																																																																																																																					
RAB-21-2220	021 - Construct Blockwork Walls (84m²)																																																																																																																																																																																				
RAB-21-0210	021 - ABWF and MEP works to Degree 1 (KD4A)																																																																																																																																																																																				
RAB-KD4A10	KD4A - Projected achievement of Stage 4A of the Works																																																																																																																																																																																				
<b>Degree 2</b>																																																																																																																																																																																					
RAB-21-0290	021 - ABWF and MEP works to Degree 2 (KD4B)																																																																																																																																																																																				
<b>Degree 3</b>																																																																																																																																																																																					
<b>External Finishes</b>																																																																																																																																																																																					
<b>Facade</b>																																																																																																																																																																																					
RAB-21-0190	021 - Install External Louvers /Windows/Temp Doors																																																																																																																																																																																				
RAB-21-0220	021 - External Render																																																																																																																																																																																				
RAB-21-0260	021 - External Painting																																																																																																																																																																																				
RAB-21-0310	021 - Dismantle Scaffolding																																																																																																																																																																																				
<b>At Grade</b>																																																																																																																																																																																					
<b>Roof Finishes</b>																																																																																																																																																																																					
RAB-21-0170	021 - Erect External Scaffolding																																																																																																																																																																																				
RAB-21-0180	021 - Leveling screed - (110m²)																																																																																																																																																																																				
RAB-21-0200	021 - Waterproof membrane - (110m²)																																																																																																																																																																																				
RAB-21-0230	021 - Top Screed - (110m²)																																																																																																																																																																																				
RAB-21-0250	021 - Install Roof Tiles - (110m²)																																																																																																																																																																																				
RAB-21-0270	021 - Install Railing 50m																																																																																																																																																																																				
RAB-21-0280	021 - Install Cat Ladder and Roof Hatch																																																																																																																																																																																				
<b>Utilities and Drainage</b>																																																																																																																																																																																					
RAB-21-7290	021 - Construct Permanent Drainage and Manholes (Approx 23m)																																																																																																																																																																																				
RAB-21-7320	021 - Install Fresh Water Mains																																																																																																																																																																																				
RAB-21-7310	021 - Install Flushing Water Mains																																																																																																																																																																																				
RAB-21-7300	021 - Utilites and Common Telecom Ducting																																																																																																																																																																																				
<b>Testing &amp; Commissioning</b>																																																																																																																																																																																					
<b>Statutory Submissions &amp; Approvals (Day 670 Completion)</b>																																																																																																																																																																																					
<b>Dangerous Goods Licence</b>																																																																																																																																																																																					
<b>Water Supplies Department (WSD)</b>																																																																																																																																																																																					
<b>Fire Services Department (FS)</b>																																																																																																																																																																																					
RAB-FSD-730	021 - Submit Form 314 to FSD, Building 021																																																																																																																																																																																				
<b>Fire Services Department (VAC)</b>																																																																																																																																																																																					
RAB-FSD-800	021 - Submit Form 314 to FSD, Building 021																																																																																																																																																																																				
<b>Engineer (AECOM)</b>																																																																																																																																																																																					
<b>Building 022 - Customs Detective Dog Base Building</b>																																																																																																																																																																																					
RAB-22-0100	022 - Forecast Possession of Portion G3 - If Exercised																																																																																																																																																																																				
<b>Excavation</b>																																																																																																																																																																																					
<b>Raft Foundations</b>																																																																																																																																																																																					

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

C8 - 3 Month Rolling programme

Date	Revision	Checked	Approved
01-Mar-17	Works Programme, 01 Mar-17 Upd...	SGJ	

CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	January 2017												February 2017												March 2017												April 2017												May 2017												June 2017												July 2017												August 2017												S												October 2017												November 2017												December 2017												18																																															
		08				15				22				29				05				12				19				26				02				09				16				23				30				07				14				21				28				04				11				18				25				02				09				16				23				30				06				13				20				27				03				10				17				24				01				08				15				22				29				05				12				19				26				03				10				17				24				31			
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<b>External Walls</b>																																																																																																																																																																																																	
<b>Roof Slab</b>																																																																																																																																																																																																	
<b>North Structure</b>																																																																																																																																																																																																	
RAB-22-0270	022 - Construct R/F Suspended Slab at +11.00mPD Bay 1 (240m²)																																																																																																																																																																																																
RAB-22-0300	022 - Construct R/F Suspended Slab at +11.00mPD Bay 2 (240m²)																																																																																																																																																																																																
<b>Cure and Strip</b>																																																																																																																																																																																																	
RAB-22-0250	022 - Cure and Strip False/Formwork Bay 1 (N)																																																																																																																																																																																																
RAB-22-0330	022 - Cure and Strip False/Formwork Bay 2 (N)																																																																																																																																																																																																
<b>Middle Structure</b>																																																																																																																																																																																																	
RAB-22-0340	022 - Construct R/F Suspended Slab at +11.00mPD Bay 1 (240m²)																																																																																																																																																																																																
RAB-22-0420	022 - Construct R/F Suspended Slab at +11.00mPD Bay 2 (240m²)																																																																																																																																																																																																
<b>Cure and Strip</b>																																																																																																																																																																																																	
RAB-22-0380	022 - Cure and Strip False/Formwork Bay 1 (M)																																																																																																																																																																																																
RAB-22-0500	022 - Cure and Strip False/Formwork Bay 2 (M)																																																																																																																																																																																																
<b>South Structure</b>																																																																																																																																																																																																	
RAB-22-0430	022 - Construct R/F Suspended Slab at +11.00mPD Bay 1 (240m²)																																																																																																																																																																																																
RAB-22-0580	022 - Construct R/F Suspended Slab at +11.00mPD Bay 2 (240m²)																																																																																																																																																																																																
<b>Cure and Strip</b>																																																																																																																																																																																																	
RAB-22-0510	022 - Cure and Strip False/Formwork Bay 1 (S)																																																																																																																																																																																																
RAB-22-0670	022 - Cure and Strip False/Formwork Bay 2 (S)																																																																																																																																																																																																
<b>ABWF/E&amp;M</b>																																																																																																																																																																																																	
<b>Internal Finishes</b>																																																																																																																																																																																																	
<b>North</b>																																																																																																																																																																																																	
<b>Degree 1</b>																																																																																																																																																																																																	
RAB-22-0450	022 - Construct Blockwork Walls (481m²)																																																																																																																																																																																																
RAB-22-0660	022 - ABWF and MEP works to Degree 1 (KD5A)																																																																																																																																																																																																
<b>Degree 2</b>																																																																																																																																																																																																	
<b>Degree 3</b>																																																																																																																																																																																																	
<b>External Finishes</b>																																																																																																																																																																																																	
<b>Facade</b>																																																																																																																																																																																																	
RAB-22-2190	022 - Set up and Mobilisation for External Facade Finishes																																																																																																																																																																																																
RAB-22-0320	022 - Erect External Scaffolding North Structure																																																																																																																																																																																																
RAB-22-0360	022 - Install External Louvers /Windows/Doors																																																																																																																																																																																																
<b>At Grade</b>																																																																																																																																																																																																	
<b>Roof Finishes</b>																																																																																																																																																																																																	
RAB-22-2180	022 - Set up and Mobilisation for Roof Finishes																																																																																																																																																																																																
RAB-22-0350	022 - Leveling screed - (480m²)																																																																																																																																																																																																
RAB-22-0370	022 - Waterproof membrane - (480m²)																																																																																																																																																																																																
RAB-22-1040	022 - Insulation Board - (480m²)																																																																																																																																																																																																
RAB-22-0400	022 - Top Screed - (480m²)																																																																																																																																																																																																
RAB-22-0460	022 - Install Roof Tiles - (480m²)																																																																																																																																																																																																
RAB-22-0530	022 - Install Railing																																																																																																																																																																																																
RAB-22-0540	022 - Install Cat Ladder and Roof Hatch																																																																																																																																																																																																
<b>Middle</b>																																																																																																																																																																																																	
<b>Degree 1</b>																																																																																																																																																																																																	
RAB-22-0740	022 - Construct Blockwork Walls (481m²)																																																																																																																																																																																																
RAB-22-0890	022 - ABWF and MEP works to Degree 1 (KD5A)																																																																																																																																																																																																
<b>Degree 2</b>																																																																																																																																																																																																	
<b>Degree 3</b>																																																																																																																																																																																																	
<b>External Finishes</b>																																																																																																																																																																																																	
<b>Facade</b>																																																																																																																																																																																																	
RAB-22-0520	022 - Erect External Scaffolding North Structure																																																																																																																																																																																																

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

C8 - 3 Month Rolling programme

Date	Revision	Checked	Approved
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CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	2017																																																		
		January			February			March			April			May			June			July			August			September			October			November			December																	
		08	15	22	29	05	12	19	26	02	09	16	23	30	06	13	20	27	03	10	17	24	31	07	14	21	28	04	11	18	25	01	08	15	22	29	05	12	19	26	02	09	16	23	30	06	13	20	27	03	10	17
<b>Fire Services Department (VAC)</b>																																																				
RAB-FSD-840	022 - Submit Form 314 to FSD, Building 022																																																			
<b>Engineer (AECOM)</b>																																																				
<b>Building 023 - C&amp;ED Outbound Cargo Examination Building and Examination Platform</b>																																																				
RAB-23-5000	023 - Forecast Possession of Portion G1																																																			
<b>Excavation</b>																																																				
<b>Raft Foundations - Inspection Platform</b>																																																				
<b>Raft Foundations - Main Building</b>																																																				
<b>Structure</b>																																																				
<b>Ground Floor</b>																																																				
<b>Planters</b>																																																				
<b>Supporting Walls and Columns to +12.85mPD</b>																																																				
<b>First Floor</b>																																																				
<b>Supporting Walls and Columns to +17.1mPD</b>																																																				
RAB-23-5280	023 - Construct External Walls to +17.1mPD Bay 1																																																			
RAB-23-5410	023 - Construct External Walls to +17.1mPD Bay 4																																																			
RAB-23-5580	023 - Construct External Walls to +17.1mPD Bay 3																																																			
RAB-23-5440	023 - Construct External Walls to +17.1mPD Bay 5																																																			
<b>Roof</b>																																																				
RAB-23-5330	023 - Construct R/F Suspended Slab +17.1mPD Bay 1 (376.6m²) (1:1)																																																			
RAB-23-5480	023 - Construct R/F Suspended Slab +17.1mPD Bay 4 (376.6m²) (1:1)																																																			
RAB-23-5690	023 - Construct R/F Suspended Slab +17.1mPD Bay 3 (87.8m²) (1:1)																																																			
RAB-23-5520	023 - Construct R/F Suspended Slab +17.1mPD Bay 5 (376.6m²) (1:1)																																																			
<b>Cure and Strip</b>																																																				
RAB-23-5370	023 - Cure and Strip False/Formwork +17.1mPD Bay 1																																																			
RAB-23-5530	023 - Cure and Strip False/Formwork +17.1mPD Bay 4																																																			
RAB-23-5730	023 - Cure and Strip False/Formwork +17.1mPD Bay 3																																																			
RAB-23-5630	023 - Cure and Strip False/Formwork +17.1mPD Bay 5																																																			
<b>Supporting Walls and Columns to +19.1mPD</b>																																																				
RAB-23-5840	023 - Construct External Walls to +19.95mPD																																																			
<b>Lift Doghouse</b>																																																				
RAB-23-5960	023 - Construct T/R Suspended Slab +19.95mPD																																																			
<b>Cure and Strip</b>																																																				
<b>ABWF/E&amp;M</b>																																																				
<b>North</b>																																																				
<b>Internal Finishes</b>																																																				
<b>Ground Floor</b>																																																				
<b>Building 023</b>																																																				
RAB-23-5420	023 - Construct Blockwork Walls to G/F North (932m³)																																																			
RAB-23-5450	023 - ABWF and MEP works to Degree 1 for others (KD3A) G/F																																																			
<b>Remaining Areas</b>																																																				
<b>First Floor</b>																																																				
<b>Building 023</b>																																																				
RAB-23-5540	023 - Construct Blockwork Walls to F/F North (932m³)																																																			
<b>Remaining Areas</b>																																																				
<b>External Finishes</b>																																																				
<b>Facade</b>																																																				
<b>At Grade</b>																																																				
<b>Roof Finishes</b>																																																				
<b>Green Roof</b>																																																				
<b>South</b>																																																				
<b>Internal Finishes</b>																																																				
<b>Ground Floor</b>																																																				
<b>Building 023</b>																																																				
<b>Remaining Areas</b>																																																				

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

C8 - 3 Month Rolling programme

Date	Revision	Checked	Approved
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CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	January 2017		February 2017		March 2017		April 2017		May 2017		June 2017		July 2017		August 2017		S		October 2017		November 2017		December 2017		18																							
		08	15	22	29	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31
<b>First Floor</b>																																																	
<b>Building 023</b>																																																	
<b>Remaining Areas</b>																																																	
<b>External Finishes</b>																																																	
<b>Facade</b>																																																	
RAB-23-5680	023 - Erect Scaffolding around Building 023 South																																																
RAB-23-5700	023 - Install External Louvers /Windows/Doors																																																
<b>At Grade</b>																																																	
<b>Window Wall</b>																																																	
<b>East</b>																																																	
<b>West</b>																																																	
<b>Roof Finishes</b>																																																	
RAB-23-5710	023 - Leveling screed - (753m <sup>2</sup> )																																																
<b>Roof Level Dog House</b>																																																	
<b>Building 023</b>																																																	
<b>Specialist Installations</b>																																																	
<b>Metal Canopy</b>																																																	
<b>Utilities and Drainage</b>																																																	
<b>Testing &amp; Commissioning</b>																																																	
<b>Statutory Submissions &amp; Approvals (Day 610 Completion)</b>																																																	
<b>EMSD - Building 023 Lift Inspection</b>																																																	
<b>Water Supplies Department (WSD)</b>																																																	
<b>Commencement</b>																																																	
<b>Completion</b>																																																	
<b>Fire Services Department (FSD)</b>																																																	
RAB-FSD-128	023 - Submit Form 314 to FSD for FSD info, Building 023																																																
<b>Fire Services Department (VAC)</b>																																																	
RAB-FSD-880	023 - Submit Form 314 to FSD, Building 023																																																
<b>Engineer (AECOM)</b>																																																	
<b>Building 025 - Inbound Private Car Annexure</b>																																																	
RAB-25-0100	025 - Forecast Possession of Portion D - If Exercised																																																
<b>Excavation</b>																																																	
<b>Raft Foundations</b>																																																	
<b>Structure</b>																																																	
<b>External Walls</b>																																																	
<b>Roof Slab</b>																																																	
<b>ABWF/E&amp;M</b>																																																	
<b>Internal Finishes</b>																																																	
<b>Degree 1</b>																																																	
RAB-25-0460	025 - Construct Blockwork Walls (2146m <sup>2</sup> )																																																
RAB-25-0510	025 - ABWF and MEP works to Degree 1 (KD6A)																																																
RAB-KD6A10	KD6A - Projected achievement of Stage 6A of the Works																																																
<b>Degree 2</b>																																																	
<b>Degree 3</b>																																																	
<b>External Finishes</b>																																																	
<b>Facade</b>																																																	
RAB-25-0330	025 - Erect Scaffolding around Building 025																																																
RAB-25-0360	025 - Install External Louvers /Windows/Doors																																																
RAB-25-0400	025 - External Render (From Bldg 053)																																																
<b>At Grade</b>																																																	
<b>Roof Finishes</b>																																																	
RAB-25-0390	025 - Leveling screed - (1285m <sup>2</sup> )																																																
RAB-25-0440	025 - Waterproof membrane - (1285m <sup>2</sup> )																																																
RAB-25-0470	025 - Top Screed - (1285m <sup>2</sup> )																																																
RAB-25-0530	025 - Install Roof Tiles - (1285m <sup>2</sup> )																																																

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

C8 - 3 Month Rolling programme

Date	Revision	Checked	Approved
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CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	Calendar																																																	
		January 2017			February 2017			March 2017			April 2017			May 2017			June 2017			July 2017			August 2017			S		October 2017			November 2017			December 2017																	
		08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17
<b>Green Roof</b>																																																			
<b>Specialist Installations</b>																																																			
<b>Glazed Canopy</b>																																																			
<b>IMMD Kiosk</b>																																																			
RAB-25-0250	025 - Construct Kiosk Baseslab and Walls																																																		
RAB-25-0320	025 - Construct Kiosk Roof Structure																																																		
<b>Utilities and Drainage</b>																																																			
<b>Testing &amp; Commissioning</b>																																																			
<b>Statutory Submissions &amp; Approvals (Day 670 Completion)</b>																																																			
<b>Water Supplies Department (WSD)</b>																																																			
<b>Commencement</b>																																																			
<b>Completion</b>																																																			
<b>Fire Services Department (VAC)</b>																																																			
RAB-FSD-920	025 - Submit Form 314 to FSD, Building 021																																																		
<b>Fire Services Department (FSD)</b>																																																			
RAB-FSD-600	025 - Submit Form 314 to FSD for FSD info, Building 025																																																		
<b>Engineer (AECOM)</b>																																																			
<b>Building 032 - Outbound Private Car Annexure</b>																																																			
RAB-32-0100	032 - Forecast Possession of Portion E - If Exercised																																																		
<b>Excavation</b>																																																			
<b>Raft Foundations</b>																																																			
<b>Structure</b>																																																			
<b>External Walls</b>																																																			
<b>Roof Slab</b>																																																			
RAB-32-0200	032 - Construct Roof floor upto +12.65mPD North Bay 1 (321m²) (																																																		
RAB-32-0280	032 - Construct Roof floor upto +12.65mPD Middle Bay 2 (321m²) (																																																		
RAB-32-0370	032 - Construct Roof floor upto +12.65mPD South Bay 4 (321m²) (																																																		
RAB-32-0310	032 - Construct Roof floor upto +12.65mPD Middle Bay 3 (321m²) (																																																		
<b>Cure and Strip</b>																																																			
RAB-32-0230	032 - Cure and Strip False/Formwork Bay 1																																																		
RAB-32-0410	032 - Cure and Strip False/Formwork Bay 4																																																		
RAB-32-0340	032 - Cure and Strip False/Formwork Bay 3																																																		
RAB-32-0290	032 - Cure and Strip False/Formwork Bay 2																																																		
<b>ABWF/E&amp;M</b>																																																			
<b>Internal Finishes</b>																																																			
<b>Degree 1</b>																																																			
RAB-32-0460	032 - Construct Blockwork Walls (2170m²)																																																		
RAB-32-0510	032 - ABWF and MEP works to Degree 1 (KD7A)																																																		
<b>Degree 2</b>																																																			
<b>Degree 3</b>																																																			
<b>Roof Finishes</b>																																																			
RAB-32-0390	032 - Leveling screed - (1285m²)																																																		
RAB-32-0440	032 - Waterproof membrane - (1285m²)																																																		
RAB-32-0530	032 - Roof Insulation - (1285m²)																																																		
<b>Green Roof</b>																																																			
<b>External Finishes</b>																																																			
<b>Facade</b>																																																			
RAB-32-0330	032 - Erect Scaffolding around Building 032																																																		
RAB-32-0360	032 - Install External Louvers /Windows/Doors																																																		
<b>At Grade</b>																																																			
<b>Specialist Installations</b>																																																			
<b>IMMD Kiosk</b>																																																			
<b>Glazed Canopy</b>																																																			
<b>Utilities and Drainage</b>																																																			

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

**C8 - 3 Month Rolling programme**

Date	Revision	Checked	Approved
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CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	January 2017		February 2017		March 2017		April 2017		May 2017		June 2017		July 2017		August 2017		S		October 2017		November 2017		December 2017																									
		08	15	22	29	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31
		<b>Testing &amp; Commissioning</b>																																															
<b>Statutory Submissions &amp; Approvals (Day 670 Completion)</b>																																																	
<b>Water Supplies Department (WSD)</b>																																																	
<b>Commencement</b>																																																	
<b>Completion</b>																																																	
<b>Fire Services Department (FSD)</b>																																																	
RAB-FSD-610	032 - Submit Form 314 to FSD for FSD info, Building 032																																																
<b>TPIDC</b>																																																	
<b>Building 044 - E&amp;M Maintenance Building</b>																																																	
RAB-44-0100	044 - Forecast Possession of Portion F - If Exercised (Day 215)																																																
<b>Excavation</b>																																																	
<b>Raft</b>																																																	
<b>Structure</b>																																																	
<b>External Walls</b>																																																	
<b>Ground to First Floor</b>																																																	
RAB-44-0200	044 - Construct External Walls & Columns to +12.15mPD Bay 2 (Sc																																																
RAB-44-0170	044 - Construct External Walls & Columns to +12.15mPD Bay 1 (Nc																																																
<b>First Floor</b>																																																	
RAB-44-0190	044 - Construct 1/F Suspended Slab +12.15mPD Bay 1 (242m²) (7																																																
RAB-44-0230	044 - Construct 1/F Suspended Slab +12.15mPD Bay 2 (242m²) (7																																																
<b>Cure and Strip</b>																																																	
RAB-44-0220	044 - Cure and Strip False/Formwork for +12.15mPD Slab Bay 1 (f																																																
RAB-44-0240	044 - Cure and Strip False/Formwork for +12.15mPD Slabs Bay 2 (l																																																
<b>First Floor to Second Floor</b>																																																	
RAB-44-0210	044 - Construct External Walls to +16.85mPD Bay 1 (North)																																																
RAB-44-0260	044 - Construct External Walls to +16.85mPD Bay 2 (South)																																																
<b>Second Floor</b>																																																	
RAB-44-0250	044 - Construct Roof Level (2/F) RC Structures upto +16.85mPD E																																																
RAB-44-0300	044 - Construct Roof Level (2/F) RC Structures upto +16.85mPD E																																																
<b>Cure and Strip</b>																																																	
RAB-44-0280	044 - Cure and Strip False/Formwork for +16.85mPD Slab Bay 1																																																
RAB-44-0310	044 - Cure and Strip False/Formwork for +16.85mPD Slab Bay 2																																																
<b>Second Floor to Roof</b>																																																	
RAB-44-0270	044 - Construct External Walls to +20.65mPD (South)																																																
RAB-44-610	044 - Install SPR (37m³) and FS (36m³) RC Water Tanks (2/F Sout																																																
<b>Roof Level</b>																																																	
RAB-44-0330	044 - Construct Roof Floor upto +20.65mPD (242m²) (72m³) (Sout																																																
<b>Cure and Strip</b>																																																	
<b>ABWF/E&amp;M</b>																																																	
<b>Ground Floor</b>																																																	
RAB-44-1110	044 - Construct Blockwork Walls G/F (296m³)																																																
RAB-44-0290	044 - ABWF and MEP works to Degree 1 (KD8A)																																																
RAB-44-0340	044 - ABWF and MEP works to Degree 2 (KD8B)																																																
<b>First Floor</b>																																																	
RAB-44-1120	044 - Construct Blockwork Walls F/F (296m³)																																																
RAB-44-0380	044 - ABWF and MEP works to Degree 1 (KD8A)																																																
<b>Second Floor</b>																																																	
<b>Roof Finishes</b>																																																	
<b>Green Roof</b>																																																	
<b>External Finishes</b>																																																	
<b>Facade</b>																																																	
<b>At Grade</b>																																																	
<b>Specialist Installations</b>																																																	
<b>Window Wall</b>																																																	

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

C8 - 3 Month Rolling programme

Date	Revision	Checked	Approved
01-Mar-17	Works Programme, 01 Mar-17 Upd...	SGJ	

CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	January 2017												February 2017												March 2017												April 2017												May 2017												June 2017												July 2017												August 2017												S												October 2017												November 2017												December 2017																																																											
		08				15				22				29				05				12				19				26				02				09				16				23				30				07				14				21				28				04				11				18				25				02				09				16				23				30				06				13				20				27				03				10				17				24				01				08				15				22				29				05				12				19				26				03				10				17				24				31			
		08	15	22	29	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31																																																																																																																																																
<b>East</b>																																																																																																																																																																																																	
<b>West</b>																																																																																																																																																																																																	
<b>Utilities and Drainage</b>																																																																																																																																																																																																	
<b>Testing &amp; Commissioning</b>																																																																																																																																																																																																	
<b>Statutory Submissions &amp; Approvals</b>																																																																																																																																																																																																	
<b>EMSD - Building 044 Lift Inspection</b>																																																																																																																																																																																																	
RAB-FSD-200	044 - Submit EMSD Form 3 (Commencement of Lift Installation)																																																																																																																																																																																																
<b>Water Supplies Department (WSD)</b>																																																																																																																																																																																																	
<b>Commencement</b>																																																																																																																																																																																																	
<b>Completion</b>																																																																																																																																																																																																	
<b>Fire Services Department (FSD)</b>																																																																																																																																																																																																	
RAB-FSD-126	044 - Submit Form 314 to FSD for FSD, Building 044																																																																																																																																																																																																
<b>Engineer (AECOM)</b>																																																																																																																																																																																																	
<b>Building 045 - Highways Depot &amp; Administration Building</b>																																																																																																																																																																																																	
RAB-45-0100	045 - Forecast Possession of Portion F - If Exercised (Day 215)																																																																																																																																																																																																
RAB-45-0110	045 - Forecast Possession of Portion B - If Exercised (Day 215)																																																																																																																																																																																																
<b>Raft</b>																																																																																																																																																																																																	
<b>Structure</b>																																																																																																																																																																																																	
<b>Ground to First Floor</b>																																																																																																																																																																																																	
RAB-45-0260	045 - Construct External Walls and Support Columns to +12.15mPI																																																																																																																																																																																																
RAB-45-0180	045 - Construct External Walls and Support Columns to +12.15mPI																																																																																																																																																																																																
RAB-45-1170	045 - Construct External Walls and Support Columns to +12.15mPI																																																																																																																																																																																																
RAB-45-1180	045 - Construct External Walls and Support Columns to +12.15mPI																																																																																																																																																																																																
<b>First Floor</b>																																																																																																																																																																																																	
RAB-45-0190	045 - Construct 1/F Suspended Slab at +12.15mPD Bay 4 (North)																																																																																																																																																																																																
RAB-45-0250	045 - Construct 1/F Suspended Slab at +12.15mPD Bay 3 (North)																																																																																																																																																																																																
RAB-45-0290	045 - Construct 1/F Suspended Slab at +12.15mPD Bay 6 (South)																																																																																																																																																																																																
RAB-45-0320	045 - Construct 1/F Suspended Slab at +12.15mPD Bay 5 (South)																																																																																																																																																																																																
<b>Cure and Strip</b>																																																																																																																																																																																																	
RAB-45-0230	045 - Cure and Strip False/Formwork +12.15mPD Bay 4 (Middle)																																																																																																																																																																																																
RAB-45-0270	045 - Cure and Strip False/Formwork +12.15mPD Bay 3 (Middle)																																																																																																																																																																																																
RAB-45-0310	045 - Cure and Strip False/Formwork +12.15mPD Bay 6 (South)																																																																																																																																																																																																
RAB-45-0350	045 - Cure and Strip False/Formwork +12.15mPD Bay 5 (South)																																																																																																																																																																																																
<b>First to Second Floor</b>																																																																																																																																																																																																	
RAB-45-1200	045 - Construct External Walls and Support Columns to +16.7mPD																																																																																																																																																																																																
RAB-45-1190	045 - Construct External Walls and Support Columns to +16.7mPD																																																																																																																																																																																																
RAB-45-0300	045 - Construct External Walls and Support Columns to +16.55mPI																																																																																																																																																																																																
RAB-45-0420	045 - Construct External Walls and Support Columns to +16.55mPI																																																																																																																																																																																																
<b>Second Floor &amp; Roof</b>																																																																																																																																																																																																	
RAB-45-0330	045 - Construct 2/F Suspended Slab +16.7mPD Bay 4 (Middle) (26																																																																																																																																																																																																
RAB-45-0380	045 - Construct 2/F Suspended Slab +16.7mPD Bay 3 (Middle) (26																																																																																																																																																																																																
RAB-45-0470	045 - Construct 2/F Suspended Slab +16.55mPD Bay 6 (South) (26																																																																																																																																																																																																
RAB-45-0520	045 - Construct 2/F Suspended Slab +16.55mPD Bay 5 (South) (26																																																																																																																																																																																																
<b>Cure and Strip</b>																																																																																																																																																																																																	
RAB-45-0430	045 - Cure and Strip False/Formwork +16.7mPD Bay 3 (Middle)																																																																																																																																																																																																
RAB-45-0550	045 - Cure and Strip False/Formwork +16.7mPD Bay 4 (Middle)																																																																																																																																																																																																
RAB-45-0370	045 - Cure and Strip False/Formwork +16.55mPD Bay 6 (South)																																																																																																																																																																																																
RAB-45-0510	045 - Cure and Strip False/Formwork +16.55mPD Bay 5 (South)																																																																																																																																																																																																
<b>Second Floor to Roof</b>																																																																																																																																																																																																	
RAB-45-1220	045 - Construct External Walls to +20.65mPD Bay 2																																																																																																																																																																																																
RAB-45-0610	045 - Construct External Walls to +20.65mPD Bay 1																																																																																																																																																																																																
RAB-45-1110	045 - Construct SPR (37m³) and FS (36m³) RC Water Tanks (2/F)																																																																																																																																																																																																
<b>Roof Level</b>																																																																																																																																																																																																	

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

C8 - 3 Month Rolling programme

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Activity ID	Activity Name	January 2017		February 2017		March 2017		April 2017		May 2017		June 2017		July 2017		August 2017		S		October 2017		November 2017		December 2017																									
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RAB-45-1230	045 - Construct Roof Floor upto +20.65mPD Bay 2 (285m²) (appro	[Red bar: May 21-28]																																															
RAB-45-0700	045 - Construct Roof Floor upto +20.65mPD Bay 1 (285m²) (appro	[Red bar: May 14-21]																																															
<b>Cure and Strip</b>																																																	
<b>ABWF/E&amp;M</b>																																																	
<b>South Section</b>																																																	
<b>External Finishes South</b>																																																	
<b>Roof Finishes South</b>																																																	
<b>Facade</b>																																																	
<b>At Grade</b>																																																	
<b>Ground Floor</b>																																																	
RAB-45-0390	045 - Construct Blockwork Walls South G/F (430m³)	[Red bar: April 23-30]																																															
RAB-45-0480	045 - ABWF and MEP works to Degree 1 (KD8A)	[Red bar: April 23-30]																																															
RAB-45-0540	045 - ABWF and MEP works to Degree 2 (KD8B)	[Red bar: May 07-21]																																															
<b>First Floor</b>																																																	
RAB-45-0570	045 - Construct Blockwork Walls South 1/F (430m³)	[Red bar: May 14-21]																																															
RAB-45-0710	045 - ABWF and MEP works to Degree 1 (KD8A)	[Red bar: May 21-28]																																															
<b>Second Floor (South)</b>																																																	
<b>Middle Section</b>																																																	
<b>Ground Floor</b>																																																	
RAB-45-0280	045 - Construct Blockwork Walls Middle G/F (430m³)	[Red bar: April 23-30]																																															
<b>First Floor</b>																																																	
RAB-45-0460	045 - Construct Blockwork Walls Middle 1/F (430m³)	[Red bar: May 07-14]																																															
RAB-45-0530	045 - ABWF and MEP works to Degree 1 (KD8A)	[Red bar: May 14-21]																																															
<b>External Finishes Middle</b>																																																	
<b>Facade</b>																																																	
RAB-45-0830	045 - Install External Louvers /Windows/Doors	[Red bar: May 14-21]																																															
<b>At Grade</b>																																																	
<b>Green Roof Middle</b>																																																	
RAB-45-0560	045 - Erect External Scaffolding	[Red bar: May 14-21]																																															
RAB-45-0600	045 - Leveling screed - (540m²)	[Green bar: May 21-28]																																															
RAB-45-0650	045 - Waterproof membrane - (540m²)	[Green bar: May 28]																																															
<b>Specialist Installations</b>																																																	
RAB-45-1120	045 - Install Fuel Tanks G/F North	[Red bar: April 23-30]																																															
<b>Window Wall</b>																																																	
<b>East</b>																																																	
<b>West</b>																																																	
<b>Utilities and Drainage</b>																																																	
<b>Testing &amp; Commissioning</b>																																																	
<b>Statutory Submissions &amp; Approvals (Day 670 Completion)</b>																																																	
<b>EMSD - Building 045 Lift Inspection</b>																																																	
<b>U/G Fuel Tank</b>																																																	
RAB-FSD-0640	045 - DG Storage Drawing Ready for Submission	[Blue bar: Jan 08-22]																																															
RAB-FSD-0960	045 - Submit to FSD	[Blue bar: Jan 22-29]																																															
RAB-FSD-0970	045 - FSD Inspection & Approval	[Blue bar: Jan 22-29]																																															
RAB-FSD-0980	045 - FSD Issue License	[Green bar: Jan 29]																																															
<b>Water Supplies Department (WSD)</b>																																																	
<b>Commencement</b>																																																	
RAB-WSD-634	045 - Engineer Submit Form WWO 542 for Building 045	[Blue diamond: Feb 12]																																															
RAB-WSD-644	045 - Submit WWO 46 Pt. I & II for Building 045	[Blue diamond: Feb 19]																																															
<b>Completion</b>																																																	
<b>Generator Set - Design</b>																																																	
<b>Generator Set - DG Licence</b>																																																	
<b>Fire Services Department (FSD)</b>																																																	
RAB-FSD-620	045 - Submit Form 314 to FSD for FSD info, Building 045	[Blue diamond: Feb 19]																																															

█ Remaining Level of Effort
 █ Actual Work  
█ Actual Level of Effort
 █ Remaining Work

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		08 15 22 29												05 12 19					02 09 16 23 30					07 14 21 28					04 11 18 25					02 09 16 23 30					06 13 20 27					03 10 17 24					01 08 15 22					29 05 12 19 26					03 10 17 24 31																																																																																							
<b>Engineer (AECOM)</b>																																																																																																																																																		
<b>Building 050 - Public Toilets Type 2</b>																																																																																																																																																		
RAB-50-1000	050 H1 - Forecast Possession of Portion H1 - If Exercised	◆																																																																																																																																																
<b>Public Toilet (Portion H1)</b>																																																																																																																																																		
<b>Excavation</b>																																																																																																																																																		
RAB-50-1050	050 H1 - Plate Load Test	■																																																																																																																																																
RAB-50-1020	050 H1 - Open cut excavation down to formation level (370m³)	■																																																																																																																																																
RAB-50-1030	050 H1 - Underground Utilities and Drainage	■																																																																																																																																																
<b>Raft</b>																																																																																																																																																		
RAB-50-1040	050 H1 - Construct Raft Foundation (140m²) (91m³)	■																																																																																																																																																
<b>Structure</b>																																																																																																																																																		
RAB-50-1060	050 H1 - Construct RC Walls (External and Internal)	■																																																																																																																																																
RAB-50-4310	050 H1 - Construct RC Support Columns for Aluminium Solar Shad	■																																																																																																																																																
RAB-50-1070	050 H1 - Construct Roof Floor at +11.525mPD (140m²) (21m³)	■																																																																																																																																																
RAB-50-1080	050 H1 - Cure and Strip False/Formwork	■																																																																																																																																																
<b>ABWF/E&amp;M</b>																																																																																																																																																		
<b>Internal Finishes</b>																																																																																																																																																		
<b>Degree 1</b>																																																																																																																																																		
RAB-50-1110	050 H1 - Construct Blockwork Walls (126m²)	■																																																																																																																																																
RAB-50-1170	050 H1 - ABWF and MEP works to Degree 1 (KD9A)	■																																																																																																																																																
RAB-KD9A10	KD9A - Projected achievement of Stage 9A of the Works	◆																																																																																																																																																
<b>Degree 2</b>																																																																																																																																																		
RAB-50-1270	050 H1 - ABWF and MEP works to Degree 2 (KD9B)	■																																																																																																																																																
<b>Degree 3</b>																																																																																																																																																		
<b>Specialist installation</b>																																																																																																																																																		
RAB-50-1240	050 H1 - Installation of Sanitaryware and Fixtures	■																																																																																																																																																
<b>Roof Finishes</b>																																																																																																																																																		
<b>External Finishes</b>																																																																																																																																																		
RAB-50-1090	050 H1 - Erect External Scaffolding	■																																																																																																																																																
RAB-50-1120	050 H1 - Install External Louvers /Windows/Doors	■																																																																																																																																																
RAB-50-1150	050 H1 - External Render	■																																																																																																																																																
RAB-50-1190	050 H1 - External Tiling	■																																																																																																																																																
<b>Utilities and Drainage</b>																																																																																																																																																		
<b>Testing &amp; Commissioning</b>																																																																																																																																																		
<b>Statutory Submissions &amp; Approvals (Day 670 Completion)</b>																																																																																																																																																		
<b>Water Supplies Department (WSD)</b>																																																																																																																																																		
<b>Commencement</b>																																																																																																																																																		
RAB-WSD-604	050 H1 - Engineer Submit Form WWO 542 for Building 050	◆																																																																																																																																																
RAB-WSD-614	050 H1 - Submit WWO 46 Pt. I & II for Building 050	◆																																																																																																																																																
<b>Completion</b>																																																																																																																																																		
<b>Fire Services Department (FSD)</b>																																																																																																																																																		
RAB-FSD-630	050 H1 - Submit Form 314 to FSD for FSD info, Building 050	◆																																																																																																																																																
<b>Engineer (AECOM)</b>																																																																																																																																																		
<b>Public Toilet (Portion H2)</b>																																																																																																																																																		
RAB-50-2000	050 H2 - Possession of Portion H2 - If Exercised	◆																																																																																																																																																
<b>Excavation</b>																																																																																																																																																		
RAB-50-2050	050 H2 - Plate Load Test	■																																																																																																																																																
RAB-50-2020	050 H2 - Open cut excavation down to formation level (370m³)	■																																																																																																																																																
RAB-50-2030	050 H2 - Underground Utilities and Drainage	■																																																																																																																																																
<b>Raft</b>																																																																																																																																																		
RAB-50-2040	050 H2 - Construct Raft Foundation(140m²) (91m³)	■																																																																																																																																																
<b>Structure</b>																																																																																																																																																		
RAB-50-2060	050 H2 - Construct RC Walls (External and Internal)	■																																																																																																																																																

■ Remaining Level of Effort    ■ Actual Work  
■ Actual Level of Effort    ■ Remaining Work

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		08	15	22	29	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31
		RAB-50-4330	050 H2 - Construct RC Support Columns for Aluminium Solar Shad																																														
RAB-50-2070	050 H2 - Construct Roof Floor at +11.525mPD (140m²) (21m³)																																																
RAB-50-2080	050 H2 - Cure and Strip False/Formwork																																																
<b>ABWF/E&amp;M</b>																																																	
<b>Internal Finishes</b>																																																	
<b>Degree 1</b>																																																	
RAB-50-2110	050 H2 - Construct Blockwork Walls (126m²)																																																
RAB-50-2170	050 H2 - ABWF and MEP works to Degree 1 (KD10A)																																																
<b>Degree 2</b>																																																	
<b>Degree 3</b>																																																	
<b>Specialist installation</b>																																																	
<b>Roof Finishes</b>																																																	
RAB-50-2100	050 H2 - Install Skylights (8No)																																																
RAB-50-2130	050 H2 - Leveling screed - 140m²																																																
RAB-50-2140	050 H2 - Waterproof membrane - 140m²																																																
RAB-50-2160	050 H2 - Top Screed - 140m²																																																
RAB-50-2180	050 H2 - Install Roof Tiles - 140m²																																																
RAB-50-2200	050 H2 - Install Railing - 49m																																																
RAB-50-2210	050 H2 - Install Cat Ladder and Roof Access Hatch																																																
<b>External Finishes</b>																																																	
RAB-50-2090	050 H2 - Erect External Scaffolding																																																
RAB-50-2120	050 H2 - Install External Louvers /Windows/Doors																																																
RAB-50-2150	050 H2 - External Render (From Bldg 050 H1)																																																
<b>Utilities and Drainage</b>																																																	
<b>Testing &amp; Commissioning</b>																																																	
<b>Statutory Submissions &amp; Approvals (Day 670 Completion)</b>																																																	
<b>Water Supplies Department (WSD)</b>																																																	
<b>Commencement</b>																																																	
<b>Completion</b>																																																	
<b>Fire Services Department (FSD)</b>																																																	
RAB-FSD-740	050 H2 - Submit Form 314 to FSD for FSD info, Building 050																																																
<b>Engineer (AECOM)</b>																																																	
<b>Public Toilet (Portion A1)</b>																																																	
RAB-50-3000	050 A1 - Possession of Portion A1 - If Exercised																																																
<b>Excavation</b>																																																	
RAB-50-3020	050 A1 - Open cut excavation down to formation level (370m³)																																																
RAB-50-3030	050 A1 - Underground Utilities and Drainage																																																
<b>Raft</b>																																																	
RAB-50-3040	050 A1 - Construct Raft Foundation																																																
<b>Structure</b>																																																	
RAB-50-3060	050 A1 - Construct RC Walls (External and Internal)																																																
RAB-50-4340	050 A1 - Construct RC Support Columns for Aluminium Solar Shad																																																
<b>ABWF/E&amp;M</b>																																																	
<b>Internal Finishes</b>																																																	
<b>Degree 1</b>																																																	
<b>Degree 2</b>																																																	
<b>Degree 3</b>																																																	
<b>Specialist installation</b>																																																	
<b>Roof Finishes</b>																																																	
<b>External Finishes</b>																																																	
<b>Utilities and Drainage</b>																																																	
<b>Testing &amp; Commissioning</b>																																																	
<b>Statutory Submissions &amp; Approvals (Day 670 Completion)</b>																																																	
<b>Water Supplies Department (WSD)</b>																																																	

Remaining Level of Effort    Actual Work  
 Actual Level of Effort    Remaining Work

C8 - 3 Month Rolling programme

Date	Revision	Checked	Approved
01-Mar-17	Works Programme, 01 Mar-17 Upd...	SGJ	

CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	January 2017		February 2017		March 2017		April 2017		May 2017		June 2017		July 2017		August 2017		S		October 2017		November 2017		December 2017		18																							
		08	15	22	29	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31
<b>Commencement</b>																																																	
RAB-WSD-544	050 A1 - Engineer Submit Form WWO 542 for Building 050																																																
RAB-WSD-554	050 A1 - Submit WWO 46 Pt. I & II for Building 050																																																
<b>Completion</b>																																																	
<b>Fire Services Department (FSD)</b>																																																	
RAB-FSD-750	050 A1 - Submit Form 314 to FSD for FSD info, Building 050																																																
<b>Engineer (AECOM)</b>																																																	
<b>Public Toilet (Portion A2)</b>																																																	
RAB-50-4000	050 A2 - Possession of Portion A2 - If Exercised																																																
<b>Excavation</b>																																																	
RAB-50-4020	050 A2 - Open cut excavation down to formation level (370m³)																																																
RAB-50-4030	050 A2 - Underground Utilities and Drainage																																																
<b>Raft</b>																																																	
RAB-50-4040	050 A2 - Construct Raft Foundation (140m²) (91m³)																																																
<b>Structure</b>																																																	
RAB-50-4060	050 A2 - Construct RC Walls (External and Internal)																																																
RAB-50-4350	050 A2 - Construct RC Support Columns for Aluminium Solar Shad																																																
<b>ABWF/E&amp;M</b>																																																	
<b>Internal Finishes</b>																																																	
Degree 1																																																	
Degree 2																																																	
Degree 3																																																	
Specialist installation																																																	
Roof Finishes																																																	
External Finishes																																																	
Utilities and Drainage																																																	
Testing & Commissioning																																																	
Statutory Submissions & Approvals (Day 670 Completion)																																																	
<b>Water Supplies Department (WSD)</b>																																																	
<b>Commencement</b>																																																	
RAB-WSD-514	050 A2 - Engineer Submit Form WWO 542 for Building 050																																																
RAB-WSD-524	050 A2 - Submit WWO 46 Pt. I & II for Building 050																																																
<b>Completion</b>																																																	
<b>Fire Services Department (FSD)</b>																																																	
RAB-FSD-760	050 A2 - Submit Form 314 to FSD for FSD info, Building 050																																																
<b>Engineer (AECOM)</b>																																																	
<b>Building 053 - Outbound X-Ray Building</b>																																																	
RAB-53-0110	053 - Forecast Possession of Portion C1																																																
<b>Excavation</b>																																																	
<b>Raft</b>																																																	
<b>Structure</b>																																																	
<b>ABWF/E&amp;M</b>																																																	
<b>Ground Floor</b>																																																	
Degree 1																																																	
RAB-53-0390	053 - Construct Blockwork Walls to G/F Rooms (353m²) North																																																
RAB-53-7570	053 - Construct Blockwork Walls to G/F Rooms (353m²) South																																																
RAB-53-0510	053 - ABWF and MEP works to Degree 1 (KD1A) G/F North																																																
RAB-53-7580	053 - ABWF and MEP works to Degree 1 (KD1A) G/F South																																																
Degree 2																																																	
Degree 3																																																	
<b>First Floor</b>																																																	
Degree 1																																																	
RAB-53-0560	053 - Construct Blockwork Walls to F/F Rooms (353m²) North																																																
RAB-53-0630	053 - ABWF and MEP works to Degree 1 (KD1A) F/F North																																																

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

C8 - 3 Month Rolling programme

Date	Revision	Checked	Approved
01-Mar-17	Works Programme, 01 Mar-17 Upd...	SGJ	



CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES

Activity ID	Activity Name	January 2017		February 2017		March 2017		April 2017		May 2017		June 2017		July 2017		August 2017		S		October 2017		November 2017		December 2017																									
		08	15	22	29	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31
		<b>Internal Finishes</b>																																															
<b>Degree 1</b>																																																	
RAB-58-0490	058 - Complete Anti Fugral Painting (P3) - Ceiling																																																
RAB-58-0570	058 - MEP works to Degree 1 (KD1A)																																																
RAB-58-0500	058 - Complete Anti Fugral Painting (P3) - Walls																																																
RAB-58-0520	058 - Complete S/C Screed 150mm (SC4)																																																
RAB-58-0550	058 - Complete Epoxy Floor Coating (FL9)																																																
RAB-KD1A10	KD1A - Projected achievement of Stage 1A of the Works Building 058																																																
<b>Degree 2</b>																																																	
RAB-58-0630	058 - MEP works to Degree 2 (KD1B)																																																
<b>Degree 3</b>																																																	
<b>Roof Finishes</b>																																																	
RAB-58-0410	058 - Leveling screed - 885m <sup>2</sup>																																																
RAB-58-0450	058 - Waterproof membrane - 885m <sup>2</sup>																																																
RAB-58-660	058 - insulation Board - 885m <sup>2</sup>																																																
RAB-58-0480	058 - Top Screed - 885m <sup>2</sup>																																																
RAB-58-0510	058 - Install Roof Tiles - 885m <sup>2</sup>																																																
RAB-58-0540	058 - Install Railing - 152m																																																
RAB-58-0530	058 - Install Cat Ladder and Roof Hatch																																																
<b>External Finishes</b>																																																	
<b>Facade</b>																																																	
RAB-58-0390	058 - Erect External Scaffolding																																																
RAB-58-0400	058 - Install External Louvers /Windows/Doors																																																
RAB-58-0420	058 - External Render (630m <sup>2</sup> ) (From Bldg 059)																																																
RAB-58-0440	058 - External Tiling (630m <sup>2</sup> )																																																
RAB-58-0470	058 - External Painting																																																
RAB-58-0560	058 - Dismantle Scaffolding																																																
<b>At Grade</b>																																																	
<b>Glazed Canopy</b>																																																	
<b>Utilities and Drainage</b>																																																	
RAB-58-7550	058 - Construct Permanent Drainage and Manholes (Approx 100m)																																																
RAB-58-7580	058 - Install Fresh Water Mains																																																
RAB-58-7570	058 - Install Flushing Water Mains																																																
RAB-58-7560	058 - Utilities and Common Telecom Ducting																																																
<b>Testing &amp; Commissioning</b>																																																	
<b>Statutory Submissions &amp; Approvals (Day 470 Completion)</b>																																																	
<b>Fire Services Department (FSD)</b>																																																	
RAB-FSD-780	058 - Submit Form 314 to FSD for FSD info, Building 058																																																
<b>Engineer (AECOM)</b>																																																	
<b>Building 059 - Inbound X-Ray Scan Tunnel</b>																																																	
RAB-59-0110	059 - Possession of Portion C2																																																
<b>Excavation</b>																																																	
<b>Raft Foundations</b>																																																	
<b>Structure</b>																																																	
<b>ABWF/E&amp;M</b>																																																	
<b>Internal Finishes</b>																																																	
<b>Degree 1</b>																																																	
RAB-59-0440	059 - Complete Anti Fugral Painting (P3) - Ceiling																																																
RAB-59-0470	059 - Complete Anti Fugral Painting (P3) - Walls																																																
RAB-59-0530	059 - MEP works to Degree 1 (KD2A)																																																
RAB-59-0500	059 - Complete S/C Screed 150mm (SC4) - Floor																																																
RAB-59-0520	059 - Complete Epoxy Floor Coating (FL9) - Floor																																																
RAB-KD2A10	KD2A - Projected achievement of Stage 2A of the Works																																																

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

**C8 - 3 Month Rolling programme**

Date	Revision	Checked	Approved
01-Mar-17	Works Programme, 01 Mar-17 Upd...	SGJ	

**CONTRACT HY/2014/05 - REMAINING ANCILLARY BUILDINGS and FACILITIES**

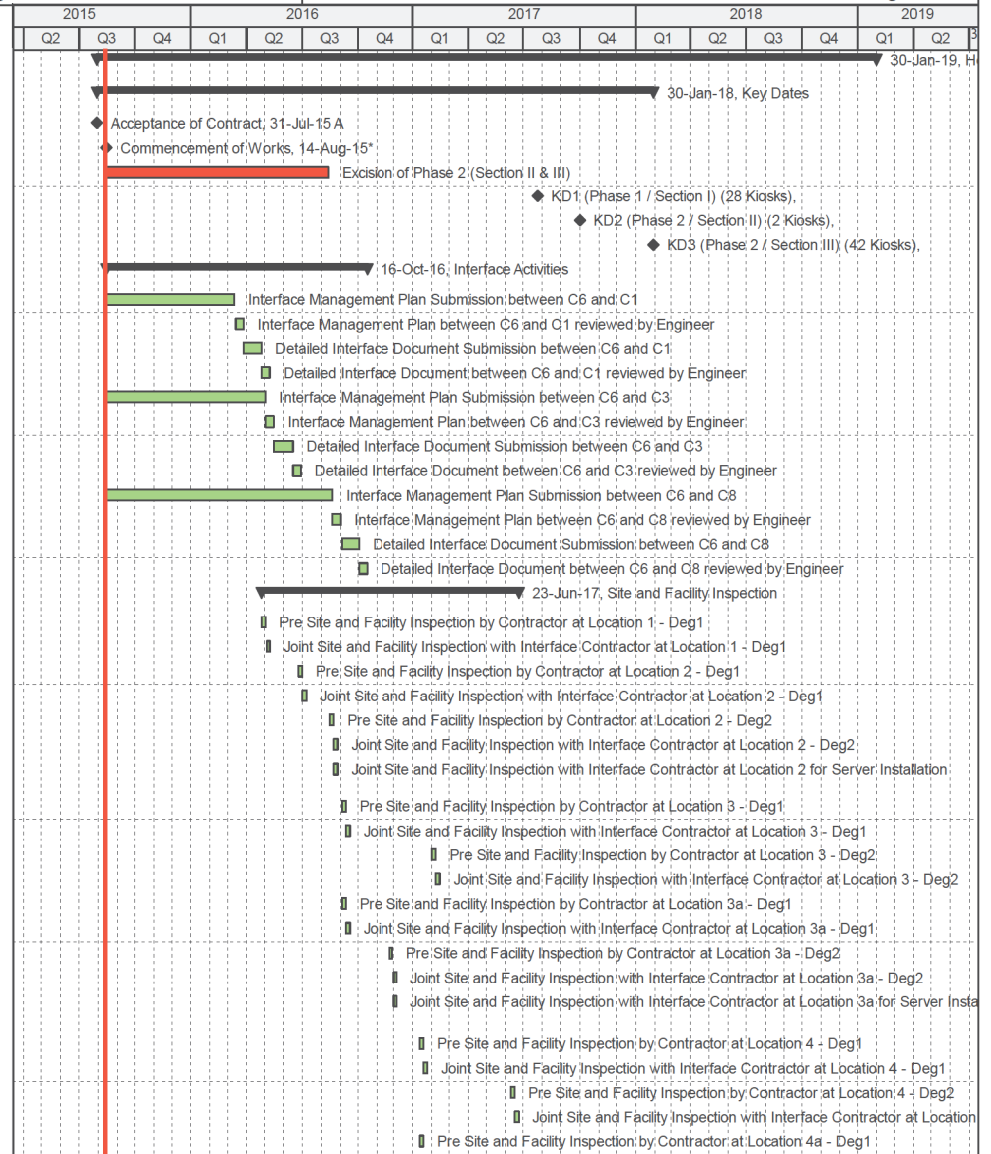
Activity ID	Activity Name	January 2017		February 2017		March 2017		April 2017		May 2017		June 2017		July 2017		August 2017		S		October 2017		November 2017		December 2017		18																							
		08	15	22	29	05	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18	25	02	09	16	23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	31
		<b>Degree 2</b>																																															
RAB-59-0630	059 - MEP works to Degree 2 (KD2B)	[Red bar from May 28 to July 18]																																															
<b>Degree 3</b>																																																	
<b>External Finishes</b>																																																	
<b>Facade</b>																																																	
RAB-59-0390	059 - Erect External Scaffolding	[Red bar from March 26 to March 29]																																															
RAB-59-0400	059 - Install External Louvers /Windows/Doors	[Red bar from March 26 to March 29]																																															
RAB-59-0430	059 - External Render (630m²)	[Red bar from March 26 to March 29]																																															
RAB-59-0450	059 - External Tiling (630m²)	[Red bar from March 26 to March 29]																																															
RAB-59-0480	059 - External Painting	[Red bar from March 26 to March 29]																																															
RAB-59-0590	059 - Dismantle Scaffolding	[Red bar from May 28 to May 31]																																															
<b>At Grade</b>																																																	
<b>Roof Finishes</b>																																																	
RAB-59-0460	059 - Leveling screed - 885m²	[Red bar from March 26 to March 29]																																															
RAB-59-0490	059 - Waterproof Membrane - 885m²	[Red bar from March 26 to March 29]																																															
RAB-59-670	059 - Insulation Board - 885m²	[Red bar from March 26 to March 29]																																															
RAB-59-0510	059 - Top Screed - 885m²	[Red bar from March 26 to March 29]																																															
RAB-59-0540	059 - Install Roof Tiles - 885m²	[Red bar from March 26 to March 29]																																															
RAB-59-0560	059 - Install Railing - 152m	[Red bar from May 28 to May 31]																																															
RAB-59-0550	059 - Install Cat Ladder and Roof Hatch	[Red bar from May 28 to May 31]																																															
<b>Glazed Canopy</b>																																																	
<b>Utilities and Drainage</b>																																																	
<b>Testing &amp; Commissioning</b>																																																	
<b>Statutory Submissions &amp; Approvals (Day 470 Completion)</b>																																																	
<b>Fire Services Department (FSD)</b>																																																	
RAB-FSD-790	059 - Submit Form 314 to FSD for FSD info, Building 059	[Blue diamond at March 26]																																															
<b>Engineer (AECOM)</b>																																																	

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

**C8 - 3 Month Rolling programme**

Date	Revision	Checked	Approved
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Activity ID	Activity Name
<b>Hong Kong-Zhuhai_Macao Bridge Hong Kong Boundary Crossin</b>	
<b>Key Dates</b>	
A1000	Acceptance of Contract
A1010	Commencement of Works
A1020	Excision of Phase 2 (Section II & III)
A1120	KD1 (Phase 1 / Section I) (28 Kiosks)
A1470	KD2 (Phase 2 / Section II) (2 Kiosks)
A1480	KD3 (Phase 2 / Section III) (42 Kiosks)
<b>Interface Activities</b>	
A6860	Interface Management Plan Submission between C6 and C1
A6865	Interface Management Plan between C6 and C1 reviewed by Engineer
A6870	Detailed Interface Document Submission between C6 and C1
A6875	Detailed Interface Document between C6 and C1 reviewed by Engineer
A6880	Interface Management Plan Submission between C6 and C3
A6885	Interface Management Plan between C6 and C3 reviewed by Engineer
A6890	Detailed Interface Document Submission between C6 and C3
A6895	Detailed Interface Document between C6 and C3 reviewed by Engineer
A6900	Interface Management Plan Submission between C6 and C8
A6905	Interface Management Plan between C6 and C8 reviewed by Engineer
A6910	Detailed Interface Document Submission between C6 and C8
A6915	Detailed Interface Document between C6 and C8 reviewed by Engineer
<b>Site and Facility Inspection</b>	
A4730	Pre Site and Facility Inspection by Contractor at Location 1 - Deg1
A4740	Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1
A4760	Pre Site and Facility Inspection by Contractor at Location 2 - Deg1
A4770	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1
A4772	Pre Site and Facility Inspection by Contractor at Location 2 - Deg2
A4774	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2
A4775	Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server Installation
A4780	Pre Site and Facility Inspection by Contractor at Location 3 - Deg1
A4790	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1
A4800	Pre Site and Facility Inspection by Contractor at Location 3 - Deg2
A4810	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2
A4820	Pre Site and Facility Inspection by Contractor at Location 3a - Deg1
A4830	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1
A4840	Pre Site and Facility Inspection by Contractor at Location 3a - Deg2
A4850	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2
A4851	Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation
A4860	Pre Site and Facility Inspection by Contractor at Location 4 - Deg1
A4870	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1
A4880	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2
A4890	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2
A4891	Pre Site and Facility Inspection by Contractor at Location 4a - Deg1



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- █ Actual Level of Effort
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ Milestone
- ▬ summary

Hong Kong-Zhuhai-Macao Bridge  
Hong Kong Boundary Crossing  
Facilities - Automatic Vehicle  
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
14-Nov-16	Rev: 0	WC	LC



Activity ID	Activity Name	2015		2016				2017				2018				2019	
		Q2	Q3	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4892	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg1																
A4900	Pre Site and Facility Inspection by Contractor at Location 4a - Deg2																
A4910	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg2																
A4920	Pre Site and Facility Inspection by Contractor at Location 5 - Deg1																
A4930	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg1																
A4940	Pre Site and Facility Inspection by Contractor at Location 5 - Deg2																
A4950	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg2																
A4960	Pre Site and Facility Inspection by Contractor at Location 6 - Deg1																
A4970	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg1																
A4980	Pre Site and Facility Inspection by Contractor at Location 6 - Deg2																
A4990	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg2																
A5000	Pre Site and Facility Inspection by Contractor at Location 7 - Deg1																
A5010	Joint Site and Facility Inspection with Interface Contractor at Location 7 - Deg1																
A5020	Pre Site and Facility Inspection by Contractor at Location 8 - Deg1																
A5030	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg1																
A5040	Pre Site and Facility Inspection by Contractor at Location 8 - Deg2																
A5050	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg2																
A5060	Pre Site and Facility Inspection by Contractor at Location 9 - Deg1																
A5070	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg1																
A5080	Pre Site and Facility Inspection by Contractor at Location 9 - Deg2																
A5090	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg2																
A5100	Pre Site and Facility Inspection by Contractor at Location 10 - Deg1																
A5110	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg1																
A5120	Pre Site and Facility Inspection by Contractor at Location 10 - Deg2																
A5130	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg2																
A5140	Pre Site and Facility Inspection by Contractor at Location 11 - Deg1																
A5150	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg1																
A5160	Pre Site and Facility Inspection by Contractor at Location 11 - Deg2																
A5170	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg2																
A5180	Pre Site and Facility Inspection by Contractor at Location 12 - Deg1																
A5190	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg1																
A5200	Pre Site and Facility Inspection by Contractor at Location 12 - Deg2																
A5210	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg2																
A5220	Pre Site and Facility Inspection by Contractor at Location 13 - Deg1																
A5230	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg1																
A5240	Pre Site and Facility Inspection by Contractor at Location 13 - Deg2																
A5250	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg2																
A5260	Pre Site and Facility Inspection by Contractor at Location 14 - Deg1																
A5270	Joint Site and Facility Inspection with Interface Contractor at Location 14 - Deg1																
A5300	Pre Site and Facility Inspection by Contractor at Location 15 - Deg1																
A5310	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg1																
A5320	Pre Site and Facility Inspection by Contractor at Location 15 - Deg2																
A5330	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg2																
A5340	Pre Site and Facility Inspection by Contractor at Location 16 - Deg1																
A5350	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg1																

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Data Date: 14-Aug-15

- █ Actual Level of Effort
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ Milestone
- ▼ summary

Hong Kong-Zhuhai-Macao Bridge  
Hong Kong Boundary Crossing  
Facilities - Automatic Vehicle  
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
14-Nov-16	Rev: 0	WC	LC

Activity ID	Activity Name	2015		2016			2017				2018				2019		
		Q2	Q3	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A5360	Pre Site and Facility Inspection by Contractor at Location 16 - Deg2																
A5370	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg2																
A5375	Pre Site and Facility Inspection by Contractor at Location 17 - Deg1																
A5378	Joint Site and Facility Inspection with Interface Contractor at Location 17 - Deg1																
A5380	Pre Site and Facility Inspection by Contractor at Location 17 - Deg2																
A5390	Joint Site and Facility Inspection with Interface Contractor at Location 17 - Deg2																
A5395	Pre Site and Facility Inspection by Contractor at Location 18 - Deg1																
A5396	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg1																
A5400	Pre Site and Facility Inspection by Contractor at Location 18 - Deg2																
A5410	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg2																
A5420	Pre Site and Facility Inspection by Contractor at Location 19 - Deg1																
A5430	Joint Site and Facility Inspection with Interface Contractor at Location 19 - Deg1																
A5440	Pre Site and Facility Inspection by Contractor at Location 19 - Deg2																
A5450	Joint Site and Facility Inspection with Interface Contractor at Location 19 - Deg2																
A5470	Pre Site and Facility Inspection by Contractor at Inbound Vehicle Clearance Plaza																
A5480	Joint Site and Facility Inspection with Interface Contractor at Inbound Vehicle Clearance Plaza																
A5490	Pre Site and Facility Inspection by Contractor at Outbound Vehicle Clearance Plaza																
A5550	Joint Site and Facility Inspection with Interface Contractor at Outbound Vehicle Clearance Plaza																
<b>Access Dates</b>		<p>24-Jun-17, Access Dates</p> <ul style="list-style-type: none"> <li>◆ Location:1(PCB (001) Basement)-Deg1 (270d), 10-May-16*</li> <li>◆ Location:1(PCB (001) ELV Room (Grid Line E3))-Deg1 (270d), 10-May-16*</li> <li>◆ Location:2(PCB (001) First Floor Main Server Room)-Deg1 (330d), 09-Jul-16*</li> <li>◆ Location:2(PCB (001) First Floor Main Server Room)-Deg2 (380d), 28-Aug-16*</li> <li>◆ Location:2(PCB (001) First Floor Main Server Room) - For Server Installation, 28-Aug-16*</li> <li>◆ Location:2(PCB (001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330d), 09-Jul-16*</li> <li>◆ Location:2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg1 (330d), 09-Jul-16*</li> <li>◆ Location:2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg2 (380d), 28-Aug-16*</li> <li>◆ Location:3(Inbd Cargo Exam Bldg (037) MDF Room)-Deg1 (400d), 17-Sep-16*</li> <li>◆ Location:3(Inbd Cargo Exam Bldg (037) ELV Room)-Deg1 (400d), 17-Sep-16*</li> <li>◆ Location:3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg1 (400d), 17-Sep-16*</li> <li>◆ Location:3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500d), 17-Sep-16*</li> <li>◆ Location:3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,140,141)-Deg1 (400d), 17-Sep-16*</li> <li>◆ Location:3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,140,141)-Deg2 (500d), 17-Sep-16*</li> <li>◆ Location:3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,140,141)-Deg2 (500d), 17-Sep-16*</li> <li>◆ Location:3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg1 (-), 17-Sep-16*</li> <li>◆ Location:3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg2 (480d), 06-Dec-16*</li> <li>◆ Location:3a(Inbd Cargo Exam Bldg Main Server Room)-Deg1 (-), 17-Sep-16*</li> <li>◆ Location:3a(Inbd Cargo Exam Bldg Main Server Room)-Deg2 (480d), 06-Dec-16*</li> <li>◆ Location:3a(Inbd Cargo Exam Bldg Main Server Room) - For Server installation, 06-Dec-16*</li> <li>◆ Location:4(Outbd Cargo Exam Bldg (023))-Deg1 (530d), 25-Jan-17*</li> <li>◆ Location:4(Outbd Cargo Exam Bldg (023))-Deg2 (680d), 24-Jun-17*</li> <li>◆ Location:4a(Outbd Cargo Exam Bldg (023))-Deg1 (-), 25-Jan-17*</li> </ul>															

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		Q2	Q3	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A1162	Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)																
A1170	Location 5(Common Utility Enclosure & Staff Subway)-Deg1 (320d)																
A1180	Location 5(Common Utility Enclosure & Staff Subway)-Deg2 (-)																
A1190	Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)																
A1200	Location 6(Common Utility Enclosure & Staff Subway)-Deg2 (-)																
A1210	Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)																
A1230	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)																
A1240	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)																
A1241	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)																
A1242	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)																
A1250	Location 9(Outbd Private Car Annex (032))-Deg1 (520d)																
A1260	Location 9(Outbd Private Car Annex (032))-Deg2 (660d)																
A1261	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)																
A1262	Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)																
A1270	Location 10(Shuttle Bus Kiosks (006))-Deg1 (480d)																
A1280	Location 10(Shuttle Bus Kiosks (006))-Deg2 (550d)																
A1281	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg1 (480d)																
A1282	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg2 (550d)																
A1290	Location 11(Outbd Coach Kiosks (009))-Deg1 (400d)																
A1300	Location 11(Outbd Coach Kiosks (009))-Deg2 (480d)																
A1301	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg1 (400d)																
A1302	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg2 (480d)																
A1303	Location 11(Inbd Coach Kiosks (010))-Deg1 (400d)																
A1304	Location 11(Inbd Coach Kiosks (010))-Deg2 (480d)																
A1305	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg1 (400d)																
A1306	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg2 (480d)																
A1310	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d)																
A1311	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d)																
A1312	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d)																
A1313	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d)																
A1314	Location 12(Inbd GV Kiosks (028))-Deg1 (400d)																
A1315	Location 12(Inbd GV Kiosks (028))-Deg2 (480d)																
A1316	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d)																
A1317	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d)																
A1318	Location 12(Outbd GV Kiosks (029))-Deg1 (400d)																
A1319	Location 12(Outbd GV Kiosks (029))-Deg2 (480d)																
A1320	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d)																
A1321	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d)																
A1330	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d)																
A1340	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d)																
A1341	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d)																
A1342	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d)																
A1350	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg1 (610d)																
A1370	Location 15(Inbd Traffic Control Kiosk (100))-Deg1 (400d)																
A1380	Location 15(Inbd Traffic Control Kiosk (100))-Deg2 (480d)																

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A1390	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d)																	
A1400	Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d)																	
A1410	Location 17(Inbd Private Car Exam Bldg(033))-Deg1 (-)																	
A1420	Location 17(Inbd Private Car Exam Bldg(033))-Deg2 (550d)																	
A1430	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)																	
A1440	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)																	
A1450	Location 19(DOH Cargo Clearance Bldg(043))-Deg1 (-)																	
A1460	Location 19(DOH Cargo Clearance Bldg(043))-Deg2 (550d)																	
A1461	Underground Ducting between Inbd Cargo Exam Bldg (037) and DOH Cargo Clearance Bldg (043) and CUE																	
A1462	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clearance Plaza																	
A1463	Underground Ducting between CUE and Outbd Car Exam Bldg (023)																	
A1464	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle Clearance Plaza																	
A1465	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza																	
A1466	Underground Ducting between CUE and Inbd P. Car Annex (025) and Shuttle Bus Kiosks (006)																	
A1467	Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)																	
A1468	Underground Ducting between CUE and Outbd PCA (032)																	
A1478	Inbound Vehicle Clearance Plaza (Assume same as Location 3)																	
A1488	Outbound Vehicle Clearance Plaza (Assume same as Location 4 degree 1 + 51 day)																	
<b>Interfaces Provisions</b>																		
A7000	Inbound VID foundation and mounting structure (assume same as Access date of Inbound Vehicle Clearance Plaza)																	
A7010	Inbound VTS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)																	
A7020	Inbound TLS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)																	
A7030	Outbound VID foundation and mounting structure (assume same as Access date of Outbound Vehicle Clearance Plaza)																	
A7040	Outbound VTS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)																	
A7050	Outbound TLS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)																	
<b>WA4 Site Erection &amp; Servicing</b>																		
A1740	Possession of Site																	
A1750	Method Statement & Drawing																	
A1760	Place Order to prepare materials																	
A1770	Review, revise and approve method statement																	
A1780	Equipment mobilization and construction material delivered to the site																	
A1790	Set up the alignment and level of the u-channel																	
A1800	Trial pit excavation																	
A1801	Excavation for chain-link fence footing																	
A4540	Underground Utility detection																	
A4550	Delivery of asphalt and fencing materials																	
A4560	Trimming and leveling soil surface for paving asphalt material																	
A4570	Remove the vegetation and lose material on the soil surface by backhoe																	
A4580	Set out the alignment and level of the u-channel																	

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		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4590	Installation of fencing post along the site boundary																	
A4600	Excavation for underground drainage pipe																	
A4610	Evenly spread the asphalt scrap material by backhoe																	
A4620	Cast concrete for the u-channel and underground drainage pipe																	
A4630	Remove the u-channel framework																	
A4640	Installation of chain-link fencing along the site boundary																	
A4650	Installation of access doors																	
A4660	Excavation for drainage ditch																	
A4670	Cast concrete for the drainage ditch																	
A4680	Compact the asphalt scrap material																	
A4690	Land surveying																	
A4700	Inspection of chain-link fencing and access doors																	
A4710	Testing of drains																	
A4720	Completion of the works																	
<b>Detailed Design Specification</b>																		
A1808	Preliminary System Proposal Submission																	
A1809	Engineer's agreement with preliminary system proposal																	
A1810	Draft Detailed Design Specification (DDS) Submission																	
A1814	Draft Hardware Function Design Specification for Computer system and Network system (HFD)																	
A1815	Draft Software Function Design Specification for Computer system and Network system (SFD)																	
A1820	Engineer's Review and Approval for Draft Detailed Design Specification (DDS)																	
A1823	Engineer's Review and Approval for Draft Hardware FDS for Computer system and Network system (HFD)																	
A1824	Engineer's Review and Approval for Draft Software FDS for Computer system and Network system (SFD)																	
A1829	Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMD (AVCS)																	
A1830	Final DDS Submission (AVCSS,VTS,VIDS)(Phase 1/Section I)																	
A1831	Development of System Security Plan																	
A1840	Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section I)																	
A1850	Final DDS Submission (AVCSS)(Phase 2/Section II&III)																	
A1860	Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&III)																	
<b>Construction Design and Management</b>																		
A6920	Construction Health and Safety Plan Submission																	
A6930	Construction Health and Safety Plan reviewed by Engineer																	
<b>Supply/Manufacture Mock-up items</b>																		
A4749	Preparation of Kiosk equipment Mock-up																	
A4750	Installation of Kiosk equipment Mock-up																	
<b>Supply/Manufacture prototypes</b>																		
A2900	Manufacture LED Display Prototype (VID, ODB and XDB)																	
A2910	Manufacture All-In-One Panel Prototype (AIOP)																	
<b>Software Design, Coding and Testing</b>																		

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<b>Coding</b>		05-Jan-17, Coding CCS, SURCON, SYSCON, CDBS Development Stage 1 VTS Development Stage 1 VIDS Development Stage 1 CCS, SURCON, SYSCON, CDBS Development Stage 2 VTS Development Stage 2 VIDS Development Stage 2														
<b>Software System Inetgration</b>		22-May-17, Software System Inetgration Test Plan Documentation Submission Engineer's Review and Approval for Test Plan Documentation Submission Software System Integration Test CCS/SYSCON/SURCON/CDBS/VTS/VIDS Software Enhancement Software User Acceptance Test (UAT)														
<b>Prototype &amp; Software Simulation Tests</b>		09-Sep-16, Prototype & Software Simulation Tests Prototype Test Document Engineer's Approval for Testing Document CCWS with CDBS, SURCON and SYSCON (Software Simulation/ Software Integration Test) Vehicle Tracking System (VTS) (Software Simulation/ Software Integration Test) LED Displays (VID, ODB and XDB) All-In-One Panel (AIOP) Prototype Testing Report Submission Engineer's Approval for Prototype Testing Report														
<b>Procurement - Phase 1 / Section I</b>		27-Dec-16, Procurement - Phase 1 / Section I Procurement of Equipment for Phase 1/Section I Procurement of Cable and Accessories for Phase 1 /Section I Procurement of All Servers and Workstations														
<b>Supply/Manufacture products for FAT</b>		10-Nov-16, Supply/Manufacture products for FAT Supply/Manufacture LED Display (ODB, VID and XDB) for FAT Supply/Manufacture All-In-One Panel (AIOP) for FAT Supply/Manufacture off-the-shelf equipment for FAT														
<b>Factory Acceptance Test (FAT)</b>		12-Dec-16, Factory Acceptance Test (FAT) FAT Procedure Document Engineer's Approval for FAT Procedure Document FAT for Licence Plate Recognition System (LPRS) FAT for PA/Intercom FAT for ODB FAT for XDB FAT for VID FAT for Video Management System (VMS) FAT for Vehicle Tracking System (VTS) FAT for Communication Network (CMN) FAT for All-In-One Panel (AIOP) FAT for AVCSS System Test FAT Report Submission														

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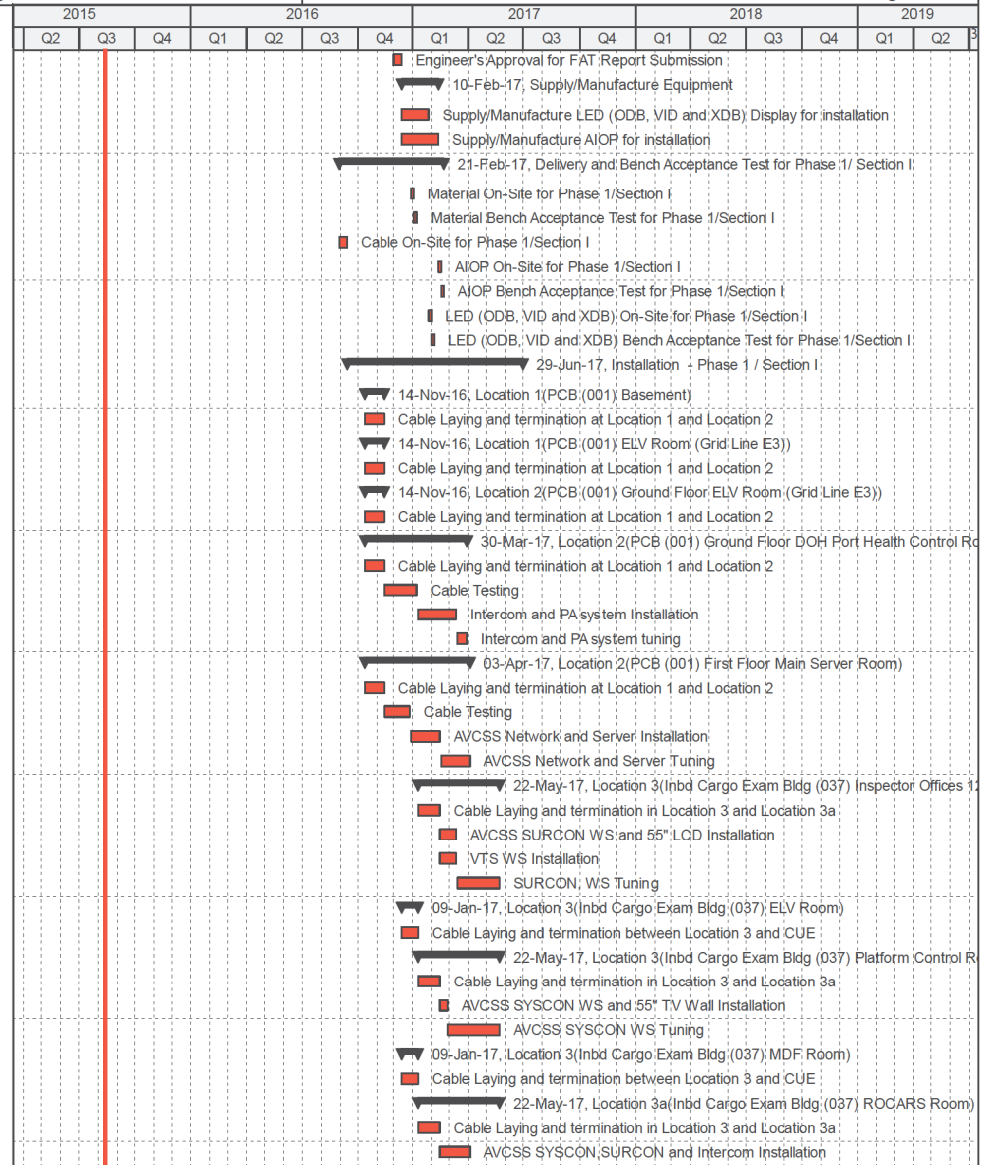
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A4370	Engineer's Approval for FAT Report Submission
<b>Supply/Manufacture Equipment</b>	
A6830	Supply/Manufacture LED (ODB, VID and XDB) Display for installation
A6840	Supply/Manufacture AIOP for installation
<b>Delivery and Bench Acceptance Test for Phase 1/ Section I</b>	
A6740	Material On-Site for Phase 1/Section I
A6750	Material Bench Acceptance Test for Phase 1/Section I
A6850	Cable On-Site for Phase 1/Section I
A6960	AIOP On-Site for Phase 1/Section I
A6970	AIOP Bench Acceptance Test for Phase 1/Section I
A6980	LED (ODB, VID and XDB) On-Site for Phase 1/Section I
A6990	LED (ODB, VID and XDB) Bench Acceptance Test for Phase 1/Section I
<b>Installation - Phase 1 / Section I</b>	
<b>Location 1(PCB (001) Basement)</b>	
A3081	Cable Laying and termination at Location 1 and Location 2
<b>Location 1(PCB (001) ELV Room (Grid Line E3))</b>	
A3101	Cable Laying and termination at Location 1 and Location 2
<b>Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3))</b>	
A3121	Cable Laying and termination at Location 1 and Location 2
<b>Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD))</b>	
A2041	Cable Laying and termination at Location 1 and Location 2
A2042	Cable Testing
A2043	Intercom and PA system Installation
A2044	Intercom and PA system tuning
<b>Location 2(PCB (001) First Floor Main Server Room)</b>	
A2001	Cable Laying and termination at Location 1 and Location 2
A2002	Cable Testing
A2003	AVCSS Network and Server Installation
A2004	AVCSS Network and Server Tuning
<b>Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,12)</b>	
A3241	Cable Laying and termination in Location 3 and Location 3a
A3242	AVCSS SURCON WS and 55" LCD Installation
A3243	VTS WS Installation
A3245	SURCON, WS Tuning
<b>Location 3(Inbd Cargo Exam Bldg (037) ELV Room)</b>	
A3210	Cable Laying and termination between Location 3 and CUE
<b>Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)</b>	
A2071	Cable Laying and termination in Location 3 and Location 3a
A2072	AVCSS SYSCON WS and 55" TV Wall Installation
A2074	AVCSS SYSCON WS Tuning
<b>Location 3(Inbd Cargo Exam Bldg (037) MDF Room)</b>	
A3190	Cable Laying and termination between Location 3 and CUE
<b>Location 3a(Inbd Cargo Exam Bldg (037) ROCARS Room)</b>	
A2091	Cable Laying and termination in Location 3 and Location 3a
A2092	AVCSS SYSCON, SURCON and Intercom Installation



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A2093	VTS WS Installation																
A2094	VID WS Installation																
A2096	SURCON, SYSCON, WS Tuning																
<b>Location 3a(Inbd Cargo Exam Bldg Main Server Room)</b>																	
A3330	Cable Laying and termination in Location 3 and Location 3a																
A3340	AVCSS Server Installation																
A3350	VTS Server Installation																
A3360	Servers Tuning																
<b>Location 4(Outbd Cargo Exam Bldg (023) MDF Room)</b>																	
A3410	Cable Laying and termination between CUE and Location 4																
<b>Location 4 and 4a(Outbd Cargo Exam Bldg (023) ROCARS Room)</b>																	
A3370	Cable Laying and termination in Location 4 and 4a																
A3380	AVCSS SYSCON, SURCON and Intercom Installation																
A3390	VTS WS Installation																
A3400	SYSCON, SURCON, WS Tuning																
<b>Location 5(Common Utility Enclosure &amp; Staff Subway)</b>																	
A3430	Cable Laying between Location 5 and Location 7																
A3440	Cable Laying between Location 5 and Location 6																
A3480	ODB Switch Installation at EL Room 2-7																
<b>Location 6(Common Utility Enclosure &amp; Staff Subway)</b>																	
A3450	Cable Laying between Location 5 and Location 6																
A3490	ODB Switch Installation at EL Room 8-9,11-12																
<b>Location 7(Common Utility Enclosure &amp; Staff Subway)</b>																	
A3470	Cable Laying between Location 5 and Location 7																
<b>Location 12(Inbd Private Car Kiosks,GV Kiosks (027,028,029))</b>																	
<b>Inbd Private Car Kiosks(027) - 9 nos (Phase 1)</b>																	
A2452	Cable Containment in Kiosks																
A2453	Cable Laying and termination																
A2454	Cable Splicing, Testing and Labeling																
A2460	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)																
A2470	ODB & XDB installation (9 nos)																
A4380	Inbd Private Car Kiosk Installation Complete																
<b>Inbd Goods Vehicle Kiosks(028) - 5 nos (Phase 1)</b>																	
A2532	Cable Containment in Kiosks																
A2533	Cable Laying and termination																
A2534	Cable Splicing, Testing and Labeling																
A2540	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																
A2550	AIOP Installation (5 nos)																
A2560	ODB & XDB installation (5 nos)																
A4390	Inbd Goods Vehicle Kiosks Installation Complete																
<b>Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)</b>																	
A2572	Cable Containment in Kiosks																
A2573	Cable Laying and termination																
A2574	Cable Splicing, Testing and Labeling																
A2580	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																

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A2590	AIOP Installation (5 nos)																		
A2600	ODB & XDB installation (5 nos)																		
A4400	Outbd Goods Vehicle Kiosks Installation Complete																		
<b>Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)</b>																			
A3582	Cable Containment in Kiosks																		
A3583	Cable Laying and termination																		
A3584	Cable Splicing, Testing and Labeling																		
A3590	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)																		
A3600	ODB & XDB installation (9 nos)																		
A4410	Outbd Private Car Kiosks Installation Complete																		
<b>Location 14(Future-Outbd/Inbd Private Car Kiosks) - 6+6 nos</b>																			
A2441	Cable Laying and termination at ELV Room in CUE																		
<b>Location 15(Inbd Traffic Control Kiosk (100))</b>																			
A3651	Cable Laying and termination																		
A3652	AVCSS SYSCON, SURCON Installation																		
A3660	VTS WS and 55" LCD Installation																		
A3670	SYSCON, SURCON, WS Tuning																		
<b>Location 16(Outbd Traffic Control Kiosk (101))</b>																			
A3701	Cable Laying and termination																		
A3702	AVCSS SYSCON, SURCON Installation																		
A3710	VTS WS and 55" LCD Installation																		
<b>Location 17(Inbd Private Car Exam Bldg(033) Operational Office)</b>																			
A3750	Cable Laying and termination																		
A3760	AVCSS SURCON and 55" LCD Installation																		
A3770	SURCON Tuning																		
<b>Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)</b>																			
A3780	Cable Laying and termination																		
A3790	AVCSS SURCON and 55" LCD Installation																		
<b>Location 19 (DOH Cargo Clearance Bldg(043))</b>																			
A2111	Cable Laying and termination between Location 19 and CUE																		
A2112	Cable Laying in Location 19																		
A2113	PA and Intercom Installation																		
A2123	PA and Intercom Tuning																		
<b>Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS</b>																			
A4050	Inbound VID cabling from pillar box to VID field equipment																		
A4052	Inbound VTS cabling from pillar box to VTS field equipment																		
A4054	Inbound TLS cabling from pillar box to TLS field equipment																		
A4060	Inbound VID field equipment installation (8 VID)																		
A4062	Inbound VTS field equipment installation (4 RFID + 3 Cameras)																		
A4064	Inbound TLS field equipment installation (4 TLS)																		
A4066	Inbound VID, VTS and TLS field equipment tuning																		
<b>Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS</b>																			
A4110	Outbound VID cabling from pillar box to VID field equipment																		
A4120	Outbound VTS cabling from pillar box to VTS field equipment																		
A4130	Outbound TLS cabling from pillar box to TLS field equipment																		

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Activity ID	Activity Name	2015		2016				2017				2018				2019	
		Q2	Q3	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A4140	Outbound VID field equipment installation (8 VID)																
A4150	Outbound VTS field equipment installation (3 RFID + 3 Cameras)																
A4170	Outbound TLS field equipment installation (4 TLS)																
A4180	Outbound VID, VTS and TLS field equipment tuning																
<b>Underground Ducting between Inbd Cargo Exam Bldg (037) and CUE</b>																	
A3810	Cable Laying and termination (note: Access Date by C03)																
<b>Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clea</b>																	
A3830	Cable Laying and termination (note: Access Date by C03)																
<b>Underground Ducting between CUE and Outbd Car Exam Bldg (023)</b>																	
A3850	Cable Laying and termination (note: Access Date by C03)																
<b>Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle C</b>																	
A3870	Cable Laying and termination (note: Access Date by C03)																
<b>Underground Ducting between CUE and Outbd Vehicle Clearance Plaza</b>																	
A3890	Cable Laying and termination (note: Access Date by C03)																
<b>On-Site Test and Commissioning (Phase 1 / Section I)</b>																	
A2150	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)																
A2151	Engineer Approval for T&C Document																
A2152	Joint Site Inspection for Permanent Power/Tele-communication for Initial on-site testing																
A2153	Initial on-site Testing & Commissioning																
<b>Site Acceptance Test (Phase 1 / Section I)</b>																	
A6601	Interface Readiness CED(LBS, CED IT, Metro-Ethernet) and IMMD (AVS)																
A6602	SAT for AVCSS																
A6603	SAT for Location 18 (AVCSS SURCON and 55" LCD)																
A6630	SAT Test Document Submission																
A6640	Software Manual Documentations Submission																
<b>Security Risk Assessment and Audit</b>																	
A6800	SRAA (Assessment)																
A6810	Fix per SRAA Assessment																
A6820	SRAA Audit																
<b>Operability Period Test (Phase 1 / Section I)</b>																	
A5610	Joint Site Inspection for utilities, telecom connection and metro ethernet for OPT																
A5620	Operability Period Test (OPT) Phase 1																
A5650	Operability Period Test (OPT) Phase 2																
<b>Completion (Phase 1 /Section I)</b>																	
A2230	AVCSS - Certificate of Completion (Phase 1/Section I)																
A2231	Certificate of Completion Approval by Engineer																
<b>Training and Document (Phase 1 /Section I)</b>																	
A2180	Training Materials & Documentation Submission																
A2190	Operation and Maintenance Training																
<b>Operation (Phase 1 /Section I)</b>																	
A2240	Site Operation (Phase 1/Section I)																
<b>Engineering Support for Phase 1 / Section I</b>																	

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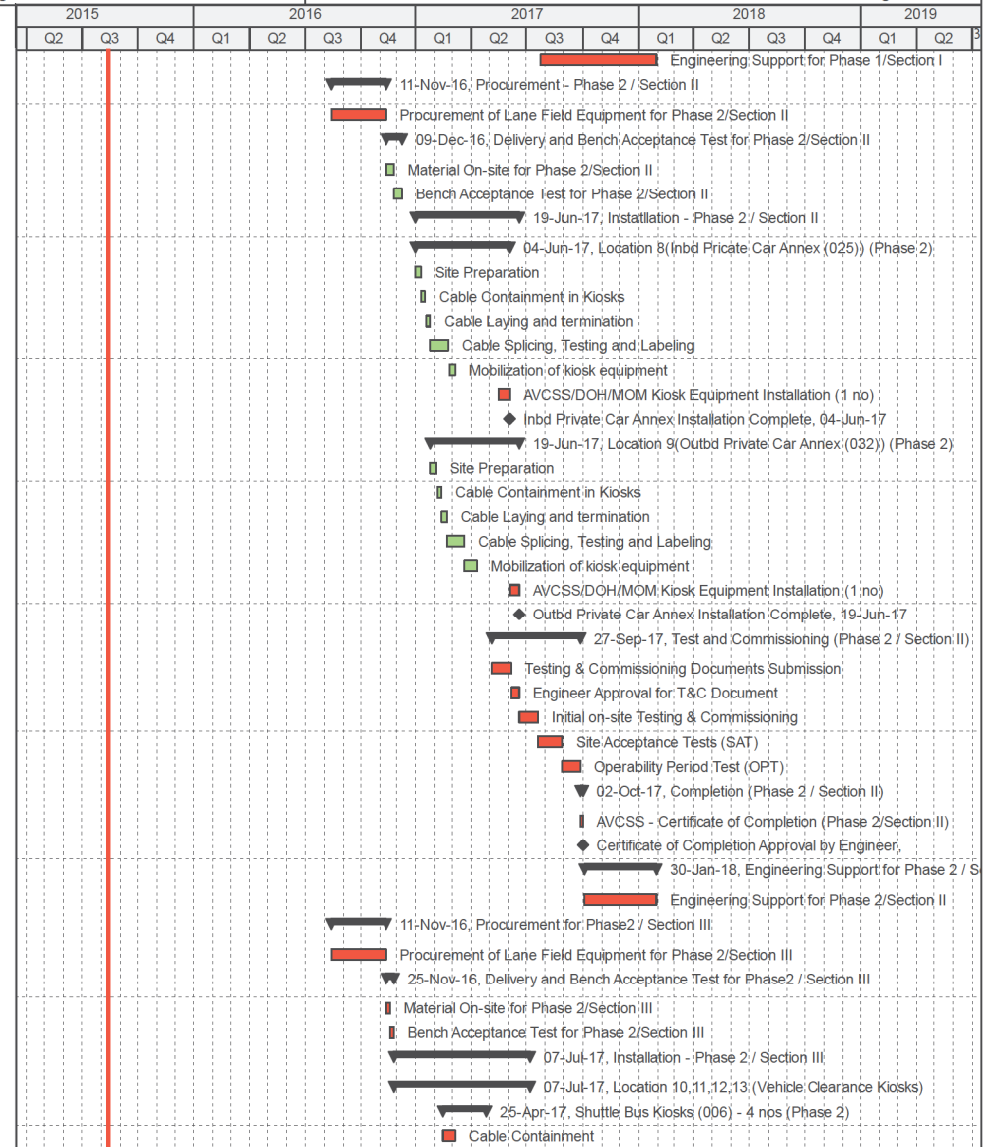
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Activity ID	Activity Name
A4420	Engineering Support for Phase 1/Section I
<b>Procurement - Phase 2 / Section II</b>	
A3980	Procurement of Lane Field Equipment for Phase 2/Section II
<b>Delivery and Bench Acceptance Test for Phase 2/Section II</b>	
A6760	Material On-site for Phase 2/Section II
A6770	Bench Acceptance Test for Phase 2/Section II
<b>Installation - Phase 2 / Section II</b>	
<b>Location 8 (Inbd Private Car Annex (025)) (Phase 2)</b>	
A4090	Site Preparation
A4091	Cable Containment in Kiosks
A4093	Cable Laying and termination
A4094	Cable Splicing, Testing and Labeling
A4096	Mobilization of kiosk equipment
A4100	AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)
A4430	Inbd Private Car Annex Installation Complete
<b>Location 9 (Outbd Private Car Annex (032)) (Phase 2)</b>	
A4151	Site Preparation
A4152	Cable Containment in Kiosks
A4153	Cable Laying and termination
A4154	Cable Splicing, Testing and Labeling
A4156	Mobilization of kiosk equipment
A4160	AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)
A4440	Outbd Private Car Annex Installation Complete
<b>Test and Commissioning (Phase 2 / Section II)</b>	
A2290	Testing & Commissioning Documents Submission
A2291	Engineer Approval for T&C Document
A2292	Initial on-site Testing & Commissioning
A2300	Site Acceptance Tests (SAT)
A2310	Operability Period Test (OPT)
<b>Completion (Phase 2 / Section II)</b>	
A2320	AVCSS - Certificate of Completion (Phase 2/Section II)
A4320	Certificate of Completion Approval by Engineer
<b>Engineering Support for Phase 2 / Section II</b>	
A4450	Engineering Support for Phase 2/Section II
<b>Procurement for Phase 2 / Section III</b>	
A4000	Procurement of Lane Field Equipment for Phase 2/Section III
<b>Delivery and Bench Acceptance Test for Phase 2 / Section III</b>	
A6780	Material On-site for Phase 2/Section III
A6790	Bench Acceptance Test for Phase 2/Section III
<b>Installation - Phase 2 / Section III</b>	
<b>Location 10,11,12,13 (Vehicle Clearance Kiosks)</b>	
<b>Shuttle Bus Kiosks (006) - 4 nos (Phase 2)</b>	
A2622	Cable Containment



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Activity ID	Activity Name	2015		2016				2017				2018				2019	
		Q2	Q3	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A2623	Cable Laying and termination																
A2630	AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)																
A4460	Shuttle Bus Kiosks Installation Complete																
<b>Outbd Coach Kiosks (009) - 4 nos (Phase 2)</b>																	
A2662	Cable Containment																
A2663	Cable Laying and termination																
A2670	AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)																
A4470	Outbd Coach Kiosks Installation Complete																
<b>Inbd Private Car Kiosks (027) - 12 nos (Phase 2)</b>																	
A2742	Cable Containment																
A2743	Cable Laying and termination																
A2744	Cable Splicing, Testing and Labeling																
A2750	AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																
A2760	Kiosk Equipment Configuration (12 nos)																
A4490	Inbd Private Car Kiosks Installation Complete																
<b>Outbd Private Car Kiosks (030) - 12 nos (Phase 2)</b>																	
A2782	Cable Containment																
A2783	Cable Laying and termination																
A2784	Cable Splicing, Testing and Labeling																
A2790	AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																
A4500	Outbd Private Car Kiosks Installation Complete																
<b>Inbd Goods Vehicle Kiosks (028) - 3 nos (Phase 2)</b>																	
A2822	Cable Containment																
A2823	Cable Laying and termination																
A2825	Kiosk Equipment Configuration (3 nos)																
A2830	AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																
A4510	Inbd Goods Vehicle Kiosks Installation Complete																
<b>Outbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)</b>																	
A2862	Cable Containment																
A2863	Cable Laying and termination																
A2865	Cable Splicing, Testing and Labeling																
A2870	AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																
A4520	Outbd Goods Vehicle Kiosks Installation Complete																
<b>Inbd Coach Kiosks (010) - 4 nos (Phase 2)</b>																	
A2702	Cable Containment																
A2703	Cable Laying and termination																
A2705	Kiosk Equipment Configuration (4 nos)																
A2710	AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)																
A2720	AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)																
A4480	Inbd Coach Kiosks Installation Complete																
<b>Underground Ducting between CUE and Shuttle Bus Kiosk (006)</b>																	
A3970	Cable Laying and termination (note: Access Date by C03)																
<b>Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)</b>																	
A3930	Cable Laying and termination (note: Access Date by C03)																
<b>Test and Commissioning (Phase 2 / Section III)</b>																	

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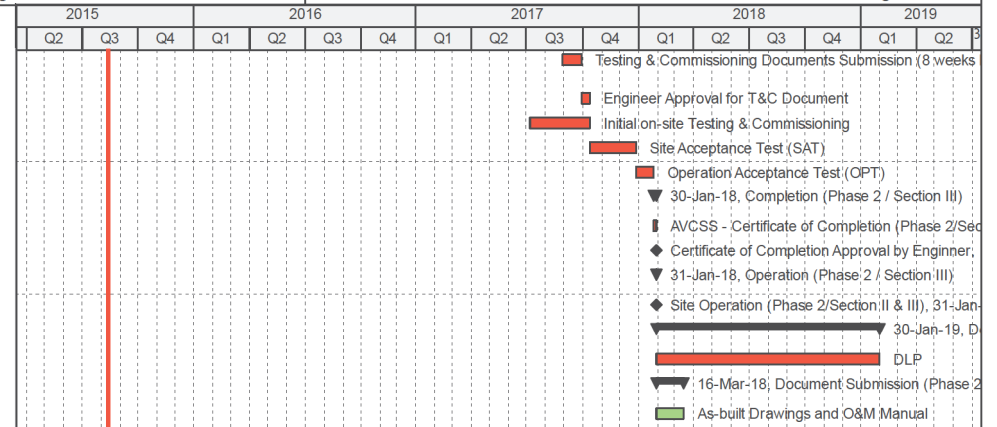
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Activity ID	Activity Name
A2370	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)
A2371	Engineer Approval for T&C Document
A2373	Initial on-site Testing & Commissioning
A2380	Site Acceptance Test (SAT)
A2390	Operation Acceptance Test (OPT)
<b>Completion (Phase 2 / Section III)</b>	
A2400	AVCSS - Certificate of Completion (Phase 2/Section III)
A4330	Certificate of Completion Approval by Engineer
<b>Operation (Phase 2 / Section III)</b>	
A2420	Site Operation (Phase 2/Section II & III)
<b>Defect Liability Period (DLP)</b>	
A2430	DLP
<b>Document Submission (Phase 2 / Section III)</b>	
A4340	As-built Drawings and O&M Manual



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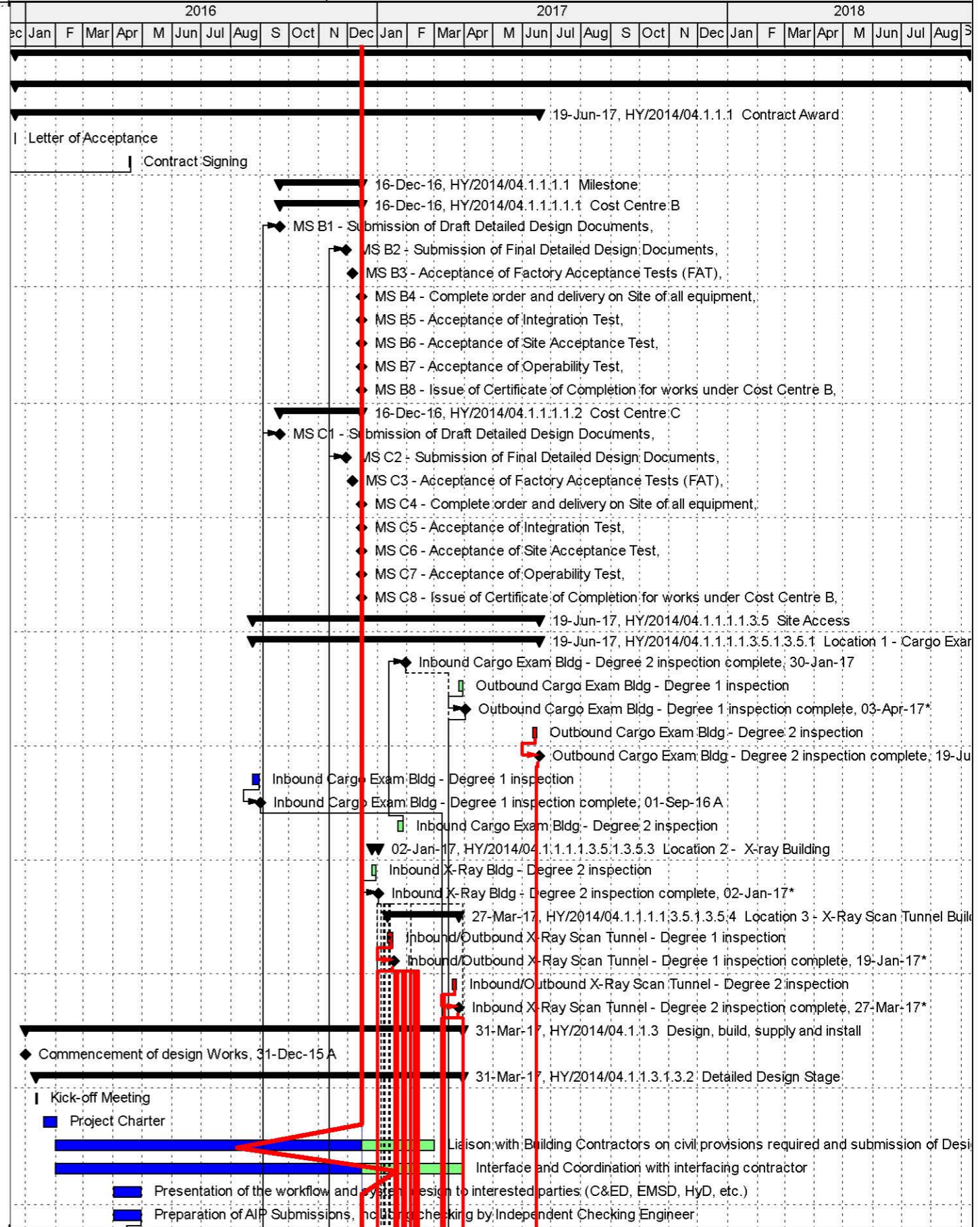
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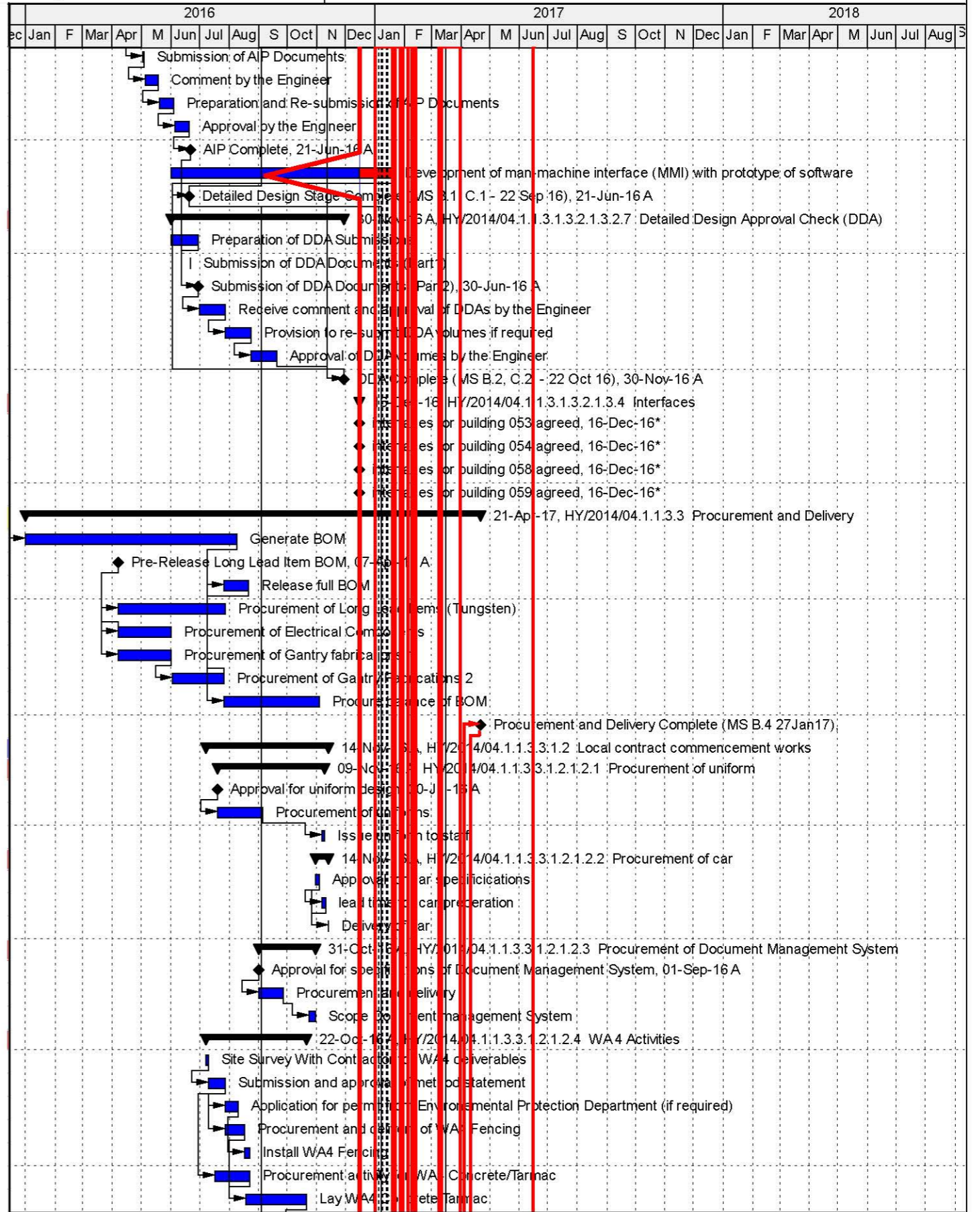
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Activity ID	Activity Name
<b>HY/2014/04 Hong Kong-Zhuhai-Macao Brid</b>	
<b>HY/2014/04.1 Contract No. HY/2014/04 Hong</b>	
<b>HY/2014/04.1.1.1 Contract Award</b>	
3	Letter of Acceptance
4	Contract Signing
<b>HY/2014/04.1.1.1.1 Milestone</b>	
<b>HY/2014/04.1.1.1.1.1 Cost Centre B</b>	
A1C	MS B1 - Submission of Draft Detailed Design Do
A1C	MS B2 - Submission of Final Detailed Design Do
A1C	MS B3 - Acceptance of Factory Acceptance Test
A1C	MS B4 - Complete order and delivery on Site of a
A1C	MS B5 - Acceptance of Integration Test
A1C	MS B6 - Acceptance of Site Acceptance Test
A1C	MS B7 - Acceptance of Operability Test
A1C	MS B8 - Issue of Certificate of Completion for wc
<b>HY/2014/04.1.1.1.1.2 Cost Centre C</b>	
A1C	MS C1 - Submission of Draft Detailed Design Do
A11	MS C2 - Submission of Final Detailed Design Do
A11	MS C3 - Acceptance of Factory Acceptance Tes
A11	MS C4 - Complete order and delivery on Site of a
A11	MS C5 - Acceptance of Integration Test
A11	MS C6 - Acceptance of Site Acceptance Test
A11	MS C7 - Acceptance of Operability Test
A11	MS C8 - Issue of Certificate of Completion for wc
<b>HY/2014/04.1.1.1.3.5 Site Access</b>	
<b>HY/2014/04.1.1.1.3.5.1.3.5.1 Location 1 - Cargo Exar</b>	
100	Inbound Cargo Exam Bldg - Degree 2 inspection
102	Outbound Cargo Exam Bldg - Degree 1 inspection
103	Outbound Cargo Exam Bldg - Degree 1 inspectic
104	Outbound Cargo Exam Bldg - Degree 2 inspection
105	Outbound Cargo Exam Bldg - Degree 2 inspectic
97	Inbound Cargo Exam Bldg - Degree 1 inspection
98	Inbound Cargo Exam Bldg - Degree 1 inspection
99	Inbound Cargo Exam Bldg - Degree 2 inspection
<b>HY/2014/04.1.1.1.3.5.1.3.5.3 Location 2 - X-ray Build</b>	
107	Inbound X-Ray Bldg - Degree 2 inspection
108	Inbound X-Ray Bldg - Degree 2 inspection comp
<b>HY/2014/04.1.1.1.3.5.1.3.5.4 Location 3 - X-Ray Scar</b>	
110	Inbound/Outbound X-Ray Scan Tunnel - Degree
111	Inbound/Outbound X-Ray Scan Tunnel - Degree
112	Inbound/Outbound X-Ray Scan Tunnel - Degree
113	Inbound X-Ray Scan Tunnel - Degree 2 inspectic
<b>HY/2014/04.1.1.3 Design, build, supply and install</b>	
28	Commencement of design Works
<b>HY/2014/04.1.1.3.1.3.2 Detailed Design Stage</b>	
30	Kick-off Meeting
31	Project Charter
32	Liaison with Building Contractors on civil provisio
33	Interface and Coordination with interfacing contr
35	Presentation of the workflow and system design
36	Preparation of AIP Submissions, including checki



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Activity ID	Activity Name
37	Submission of AIP Documents
38	Comment by the Engineer
39	Preparation and Re-submission of AIP Documents
40	Approval by the Engineer
41	AIP Complete
42	Development of man-machine interface (MMI) with prototype of software
51	Detailed Design Stage Complete (MS B.1, C.1 - 22-Sep-16)
<b>HY/2014/04.1.1.3.3.2.1.3.2.7 Detailed Design Approval Check (DDA)</b>	
44	Preparation of DDA Submissions
45	Submission of DDA Documents (Part1)
46	Submission of DDA Documents (Part2)
47	Receive comment and approval of DDAs by the Engineer
48	Provision to re-submit DDA volumes if required
49	Approval of DDA volumes by the Engineer
50	DDA Complete (MS B.2, C.2 - 22 Oct 16)
<b>HY/2014/04.1.1.3.3.2.1.3.4 Interfaces</b>	
91	interfaces for building 053 agreed
92	interfaces for building 054 agreed
93	interfaces for building 058 agreed
94	interfaces for building 059 agreed
<b>HY/2014/04.1.1.3.3 Procurement and Delivery</b>	
53	Generate BOM
54	Pre-Release Long Lead Item BOM
55	Release full BOM
56	Procurement of Long Lead Items (Tungsten)
57	Procurement of Electrical Components
58	Procurement of Gantry fabrications 1
59	Procurement of Gantry Fabrications 2
60	Procure balance of BOM
89	Procurement and Delivery Complete (MS B.4 27Jan17)
<b>HY/2014/04.1.1.3.3.1.2 Local contract commencement works</b>	
<b>HY/2014/04.1.1.3.3.1.2.1.1 Procurement of uniform</b>	
7	Approval for uniform design
8	Procurement of uniforms
9	Issue uniform to staff
<b>HY/2014/04.1.1.3.3.1.2.1.2 Procurement of car</b>	
11	Approval for car specifications
12	lead time for car preparation
13	Delivery of car
<b>HY/2014/04.1.1.3.3.1.2.1.2.3 Procurement of Document Management System</b>	
15	Approval for specifications of Document Management System
16	Procurement and delivery
17	Scope Document management System
<b>HY/2014/04.1.1.3.3.1.2.1.2.4 WA 4 Activities</b>	
19	Site Survey With Contractor for WA4 deliverables
20	Submission and approval of method statement
21	Application for permit from Environmental Protection Department (if required)
22	Procurement and delivery of WA4 Fencing
23	Install WA4 Fencing
24	Procurement activity for WA4 Concrete/Tarmac
25	Lay WA4 Concrete/Tarmac



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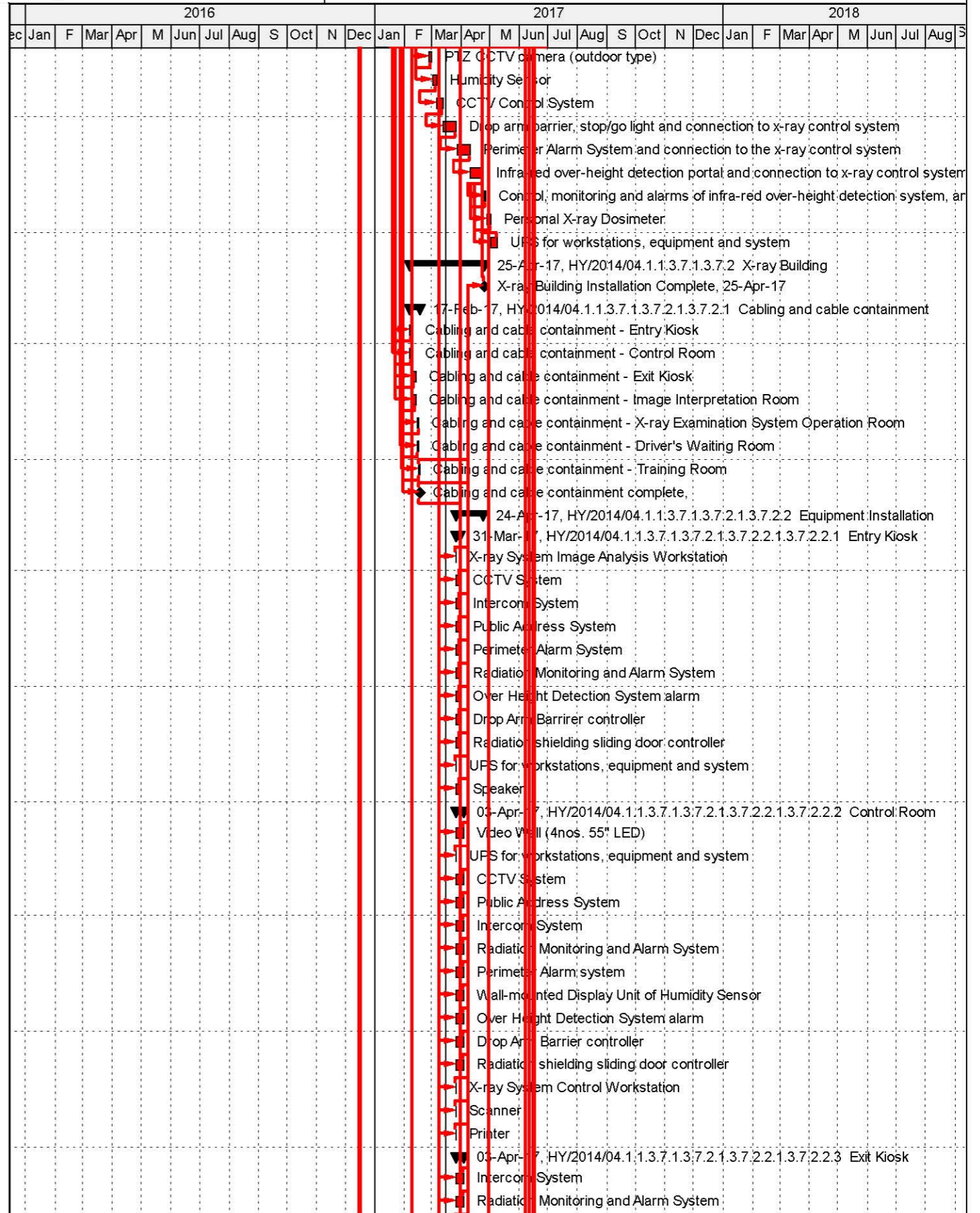




Activity ID	Activity Name	2016												2017												2018											
		Jan	F	Mar	Apr	M	Jun	Jul	Aug	S	Oct	N	Dec	Jan	F	Mar	Apr	M	Jun	Jul	Aug	S	Oct	N	Dec	Jan	F	Mar	Apr	M	Jun	Jul	Aug	S			
	Printer																																				
	<b>HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.3 Exit Kiosk</b>																																				
	Intercom System																																				
	Radiation Monitoring and Alarm System																																				
	X-ray System Image Analysis Workstation																																				
	Radiation shielding sliding door controller																																				
	CCTV System																																				
	Public Address System																																				
	UPS for workstations, equipment and system																																				
	<b>HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.4 Image Interpretation Kiosk</b>																																				
	Intercom System																																				
	Radiation Monitoring and Alarm System																																				
	X-ray System Image Analysis Workstation																																				
	Printer																																				
	UPS for workstations, equipment and system																																				
	<b>HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.5 X-ray Examination Kiosk</b>																																				
	Server																																				
	Server rack																																				
	UPS for workstations, equipment and system																																				
	<b>HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.6 Driver's Waiting Area</b>																																				
	CCTV System																																				
	Intercom System																																				
	Radiation Monitoring and Alarm System																																				
	Speaker																																				
	UPS for workstations, equipment and system																																				
	<b>HY/2014/04.1.1.3.6.1.3.6.2.1.3.6.2.2.7 Training room</b>																																				
	Projector screen (Screen size 106")																																				
	Ceiling mounted projector																																				
	X-ray System Training Workstation																																				
	Radiation Monitoring and Alarm System																																				
	UPS for workstations, equipment and system																																				
	Training aids																																				
	Printer																																				
	<b>HY/2014/04.1.1.3.7 Section II - Gantry Type X-ray Vehicle Inspection</b>																																				
	311 Software Setup & Integration and Imaging Tests																																				
	312 Construction Works - Section II Complete																																				
	<b>HY/2014/04.1.1.3.7.1.3.7.1 Scan Tunnel</b>																																				
	216 Cabling and cable containment																																				
	239 Scan Tunnel Installation Complete																																				
	<b>HY/2014/04.1.1.3.7.1.3.7.1.1.3.7.1.2 Installation of X-ray System</b>																																				
	218 Gantry rails																																				
	219 Linear Accelerator Pod and Modular Pod																																				
	220 Vertical Boom Wheel Set and Vertical Boom																																				
	221 Horizontal Boom																																				
	222 Radioactivity threat detection system																																				
	<b>HY/2014/04.1.1.3.7.1.3.7.1.1.3.7.1.3 Radiation Shielding Sliding Door</b>																																				
	224 Installation of brackets and Hilti bolts																																				
	225 Installation of beam																																				
	226 Installation of door box																																				
	227 Testing & commissioning																																				
	<b>HY/2014/04.1.1.3.7.1.3.7.1.1.3.7.1.4 Installation of Auxiliary Systems</b>																																				
	229 PTZ CCTV camera (indoor type)																																				

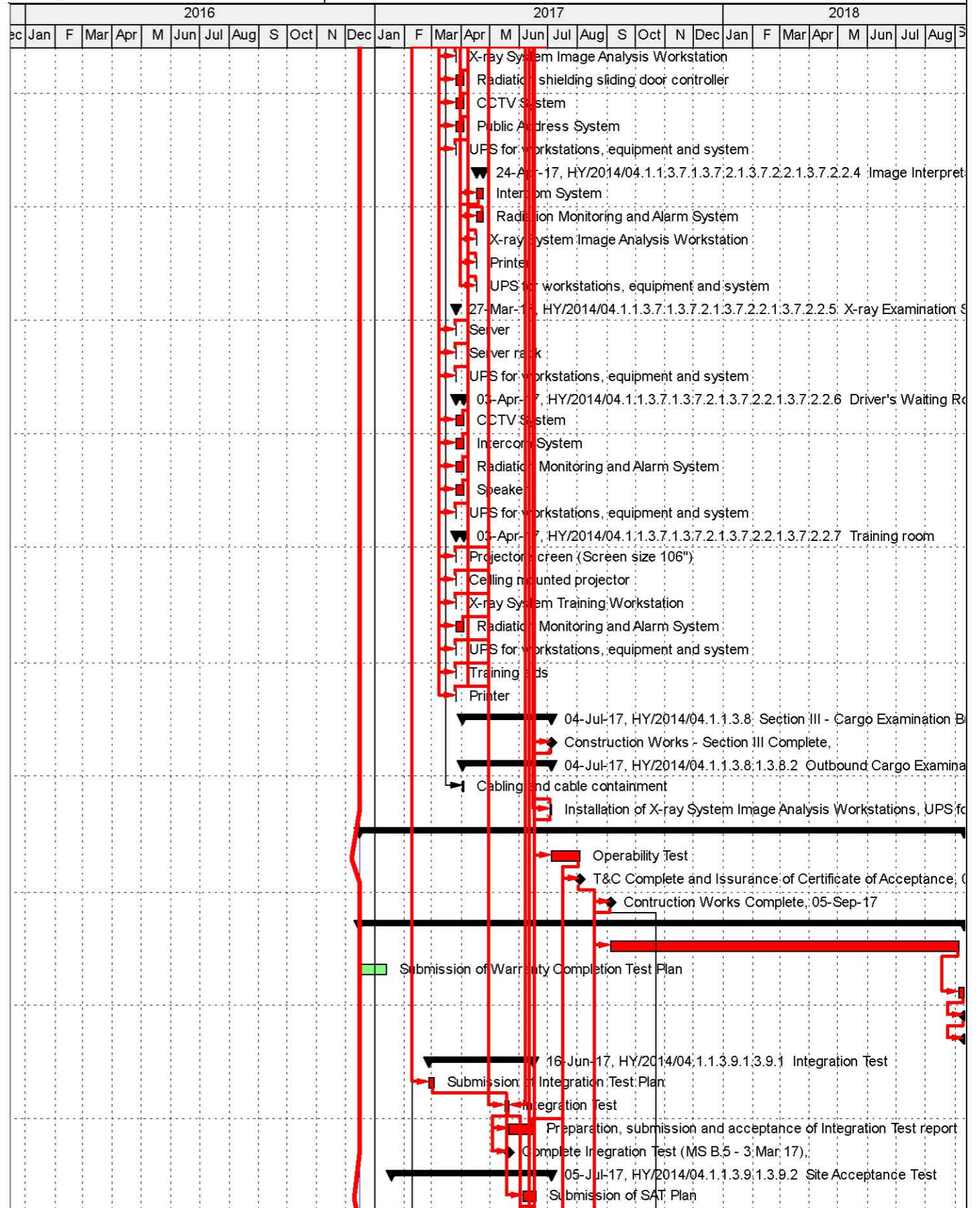
█ Actual Level of Effort   
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Activity ID	Activity Name
230	PTZ CCTV camera (outdoor type)
231	Humidity Sensor
232	CCTV Control System
233	Drop arm barrier, stop/go light and connection to
234	Perimeter Alarm System and connection to the x-
235	Infra-red over-height detection portal and connec
236	Control, monitoring and alarms of infra-red over-l
237	Personal X-ray Dosimeter
238	UPS for workstations, equipment and system
<b>HY/2014/04.1.1.3.7.1.3.7.2 X-ray Building</b>	
310	X-ray Building Installation Complete
<b>HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.1 Cabling and cable</b>	
242	Cabling and cable containment - Entry Kiosk
243	Cabling and cable containment - Control Room
244	Cabling and cable containment - Exit Kiosk
245	Cabling and cable containment - Image Interpret
246	Cabling and cable containment - X-ray Examinati
247	Cabling and cable containment - Driver's Waiting
248	Cabling and cable containment - Training Room
249	Cabling and cable containment complete
<b>HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2 Equipment Install</b>	
<b>HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.1 Entry</b>	
242	X-ray System Image Analysis Workstation
243	CCTV System
244	Intercom System
245	Public Address System
246	Perimeter Alarm System
247	Radiation Monitoring and Alarm System
248	Over Height Detection System alarm
249	Drop Arm Barrier controller
250	Radiation shielding sliding door controller
251	UPS for workstations, equipment and system
252	Speaker
<b>HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.2 Conti</b>	
253	Video Wall (4nos. 55" LED)
254	UPS for workstations, equipment and system
255	CCTV System
256	Public Address System
257	Intercom System
258	Radiation Monitoring and Alarm System
259	Perimeter Alarm system
260	Wall-mounted Display Unit of Humidity Sensor
261	Over Height Detection System alarm
262	Drop Arm Barrier controller
263	Radiation shielding sliding door controller
264	X-ray System Control Workstation
265	Scanner
266	Printer
<b>HY/2014/04.1.1.3.7.1.3.7.2.1.3.7.2.2.1.3.7.2.2.3 Exit Kiosk</b>	
267	Intercom System
268	Radiation Monitoring and Alarm System



█ Actual Level of Effort    █ Remaining Work    ◆◆ Milestone  
█ Actual Work    █ Critical Remaining Work    ▼ summary

Activity ID	Activity Name
322	Construction Works - Section III Complete
320	Cabling and cable containment
321	Installation of X-ray System Image Analysis Workstations, UPS for workstations, equipment and system
335	Operability Test
336	T&C Complete and Issurance of Certificate of Acceptance, 05-Sep-17
345	Construction Works Complete, 05-Sep-17
359	Defect Liability Period
360	Submission of Warranty Completion Test Plan
361	Warranty Completion Test
362	DLP Complete and issuance of Defect Liability Certificate
363	Commencement of Maintenance Services
325	Submission of Integration Test Plan
326	Integration Test
327	Preparation, submission and acceptance of Integration Test report
327.5	Complete Inegration Test (MS B.5 - 3 Mar 17)
329	Submission of SAT Plan



█ Actual Level of Effort   
 █ Remaining Work   
 ◆◆ Milestone  
█ Actual Work   
 █ Critical Remaining Work   
 ▼ summary



# APPENDIX D

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## Event and Action Plan

## Event/Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
<b>ACTION LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform IEC and ER;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency to daily.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice;</li> <li>2. Amend working methods if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform IEC and ER;</li> <li>3. Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>4. Repeat measurements to confirm findings;</li> <li>5. Increase monitoring frequency to daily;</li> <li>6. Discuss with IEC and Contractor on remedial actions required;</li> <li>7. If exceedance continues, arrange meeting with IEC and ER;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>5. Supervise implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for remedial to ER within 3 working days of notification;</li> <li>2. Implement the agreed proposals;</li> <li>3. Amend proposal if appropriate.</li> </ol>

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
<b>LIMIT LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform ER, Contractor and EPD;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>5. Supervise implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Amend proposal if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Notify IEC, ER, Contractor and EPD;</li> <li>2. Identify source;</li> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Ensure remedial measures properly implemented;</li> <li>5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>



## Event / Action Plan for Construction Noise Monitoring

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

# APPENDIX E

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## Waste Flow Table

## Monthly Summary Waste Flow Table for 2017



Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	a. Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete (see Note 9)	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill (see Note 10)	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse
	(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 '000m <sup>3</sup> )
January	1.390	0.010	1.380	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.197
February	1.070	0.003	1.067	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.143
March											
April											
May											
June											
Sub-total	2.460	0.013	2.447	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.340
July											
August											
September											
October											
November											
December											
Total	2.460	0.013	2.447	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.340

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

- 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 50,000m<sup>3</sup>.
  - (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



ATAL Technologies Ltd.

Contract No. HY/2013/06 HKBCF Automatic Vehicle Clearance Support System

Ver: 1st  
Date: Feb 2017

**Monthly Summary Waste Flow Table for 2017**

Month	Inert C&D Waste disposal / 墮性廢物 (in tonnes) (see Note 1)						Non-inert C&D Waste disposal 非墮性廢物 (in tonnes)		Waste to be recycled and returned / 可再循環利用或回收的廢物								Total Quantity Generated 總生產量		
	Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填)		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)		Others (e.g. general refuse, broken formwork etc) 其他 (如垃圾, 廢板枋等)		Metals 金屬		Plastic 塑膠		Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物				
	(b)		(c)		(d)		(e)		(in tonnes)		(in tonnes)		(in tonnes)		(in litre)		(a)=(b+c+d+e)		
	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	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	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	0.000	0.002	0.002	0.000	0.000	0.002	0.002
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	0.000	0.002	0.002	0.000	0.000	0.002	0.002
March																			
April																			
May																			
June																			
July																			
August																			
September																			
October																			
November																			
December																			
<b>Total</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.004</b>	<b>0.004</b>	<b>0.000</b>	<b>0.000</b>	<b>0.004</b>	<b>0.004</b>

Notes: (1) The quantities 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 gm<sup>-3</sup>.

Contract No. HY/2014/04

Contract Title: Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities

Gantry Type X-ray Vehicle Inspection System



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

Month	Actual Quantities of Inert C&D Materials Generated / Imported						Actual Quantities of Other C&D Materials / Wastes Generated				
	Total Quantity Generated (in '000m <sup>3</sup> )	Hard Rocks and Large Broken Concrete (in '000m <sup>3</sup> )	Reused in the Contract (in '000m <sup>3</sup> )	Reused in other Projects (in '000m <sup>3</sup> )	Disposed as Public Fill (in '000m <sup>3</sup> )	Imported Fill (in '000m <sup>3</sup> )	Metals (in '000kg)	Paper/Card-board packaging (in '000kg)	Plastic (in '000kg)	Chemical Waste (in '000kg)	Others. e.g. general refuse, plastic (in '000m <sup>3</sup> )
<b>Jan-17*</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Feb-17*</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Mar-17</b>											
<b>Apr-17</b>											
<b>May-17</b>											
<b>Jun-17</b>											
<b>Half-year total</b>	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Jul-17</b>											
<b>Aug-17</b>											
<b>Sep-17</b>											
<b>Oct-17</b>											
<b>Nov-17</b>											
<b>Dec-17</b>											
<b>Yearly Total</b>											

- Notes:
- (1) \*Contract No. HY/2014/04 commenced on 13 February 2017.
  - (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
  - (3) Broken concrete for recycling into aggregates.

# APPENDIX F

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## Environmental Licenses and Permits

Environmental License/ Permits /Notification Register

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

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
1	All Areas	30 Jun 2015	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/I	17 Jul 2015	N/A	EPD	Superseded by EP-353/2009/J
2	All Areas	18 Feb 2016	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong 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 for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/K	11 Apr 2016	N/A	EPD	-
4	All Areas	30 Dec 2015	N/A	<b>Billing Account</b> for disposal of construction waste	7024342	16 Feb 2016	N/A	EPD	-
5	All Areas	30 Dec 2015	RABF-LTR- EPD-000001	<b>Notification</b> that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 397571	6 Jan 2016	N/A	EPD	-
6	All Areas	04 Jan 2016	RABF-LTR- EPD-000002	<b>Registration</b> as Chemical Waste Producer for disposal of spent batteries, used lubrication oil and surplus paint at RABF area	WPN 5213-951-L2846-02	19 Feb 2016	N/A	EPD	-



Environmental License/ Permits /Notification Register

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

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
7	All Areas	25 Jan 2016	RABF-LTR- EPD-000003	<b>CNP</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 2016	10 Aug 2016	EPD	Superseded by GW-RS0476-16
8	All Areas	08 May 2016	RABF-LTR- EPD-000012	<b>CNP</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-RS0476-16	19 May 2016	18 Nov 2016	EPD	Superseded by GW-RS0666-16
9	All Areas	16 Jun 2016	RABF-LTR- EPD-000015	<b>CNP</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-RS0666-16	04 Jul 2016	03 Jan 2017	EPD	Superseded by GW-RS0907-16
10	All Areas	18 Aug 2016	RABF-LTR- EPD-000018	<b>CNP</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-RS0907-16	01 Sep 2016	28 Feb 2017	EPD	Superseded by GW-RS1195-16

Environmental License/ Permits /Notification Register

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

								Date: February 2017		
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark	
	Work Area	Date	Reference							
11	All Areas	16 Nov 2016	RABF-LTR-EPD-000020	<b>CNP</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-RS1195-16	30 Nov 2016	29 May 2017	EPD	Superseded by GW-RS1315-16	
12	All Areas	08 Dec 2016	RABF-LTR-EPD-000023	<b>CNP</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-RS1315-16	22 Dec 2016	21 Jun 2017	EPD	Superseded by GW-RS0131-17	
13	WA3	13 Jan 2017	RABF-LTR-EPD-000026	<b>CNP</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 2017	26 Jul 2017	EPD	-	
14	All areas	03 Feb 2017	RABF-LTR-EPD-000028	<b>CNP</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 2017	16 Aug 2017	EPD	-	

Environmental License/ Permits /Notification Register

Contract No. HY/2013/06 – Hong Kong Zhuhai and Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Work Area	Date	Reference						
1	All Areas	24 Mar 16	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/K	11 Apr 16	N/A	EPD	-
2	Building 023, 025 and 032	31 Jul 15	WFG14980	<b>Billing Account</b> for disposal of construction waste	7023015	20 Aug 15	N/A	EPD	-
3.	N.A.	N.A.	N.A.	Registration as Chemical Waste Producer for disposal chemical waste	N.A.	N.A.	N.A.	N.A.	#

# The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations.

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: February 2017									Remark
Item No.	Permit/License or Registration Application			Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	
	Work Area	Date	Reference						
1	All Areas	24 Mar 16	N/A	Environmental Permit for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/K	11 Apr 16	N/A	EPD	-
2	All Areas	23 Aug 2016	N/A	<b>Billing Account</b> for disposal of construction waste	7009487	20 Sep 2016	N/A	EPD	-
3.	N.A.	N.A.	N.A.	Registration as Chemical Waste Producer for disposal chemical waste	N.A.	N.A.	N.A.	N.A.	#

# The Contractor of Contract No. HY/2014/04 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations.

## APPENDIX G

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### 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
<b>Air Quality</b>								
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$ , respectively)	√
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> <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> </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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$ , respectively)	√

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S5.5.6.2	A2	<ul style="list-style-type: none"> <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 from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of 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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$ , respectively)	√

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S5.5.6.2	A2	<ul style="list-style-type: none"> <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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$ , respectively)	√
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	√
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	√
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 style="list-style-type: none"> <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 <math>\mu\text{g}\text{m}^{-3}</math> and 260 <math>\mu\text{g}\text{m}^{-3}</math>, respectively)</li> </ul>	√ (The dust monitoring works under EM&A programme for the Contract are covered by Contract No. HY/2010/02 and Contract No. HY/2011/03.)



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S5.5.7.1	A6	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:</p> <ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 <math>500 \mu\text{g}\text{m}^{-3}</math> and <math>260 \mu\text{g}\text{m}^{-3}</math>, respectively)</li> </ul>	N/A
S5.5.2.7	A7	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> <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

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<b>Construction Noise (Air borne)</b>								
S6.4.10	N1	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> <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 a minimum;</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 office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	Noise Control Ordinance	√
S6.4.11	N2	2) 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.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Noise Control Ordinance</li> <li>Annex 5, TM-EIA</li> </ul>	N/A
S6.4.12	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 style="list-style-type: none"> <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

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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	Construction stage	<ul style="list-style-type: none"> <li>Noise Control Ordinance &amp; its TM</li> <li>Annex 5, TM-EIA</li> </ul>	√
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	<ul style="list-style-type: none"> <li>Noise Control Ordinance</li> <li>Annex 5, TM-EIA</li> </ul>	√
/	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 style="list-style-type: none"> <li>Noise Control Ordinance</li> <li>Annex 5, TM-EIA</li> <li>75dB(A) for residential premises</li> </ul>	√ (The noise monitoring works under EM&A programme for the Contract are covered by Contract No. HY/2010/02.)
<b>Sediment</b>								
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	Develop sediment disposal arrangement	Engineer	All construction sites	Design stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> <li>ETW B TC 34/2002</li> </ul>	N/A

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<b>Waste Management (Construction Waste)</b>								
S8.3.8	WM1	<p><u>Construction and Demolition Material</u></p> <p>The following mitigation measures should be implemented in handling the waste:</p> <ul style="list-style-type: none"> <li>• Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</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	<ul style="list-style-type: none"> <li>• Land (Miscellaneous Provisions) Ordinance</li> <li>• Waste Disposal Ordinance</li> <li>• ETW BTC 19/2005</li> </ul>	√

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S8.3.9- S8.3.11	WM2	<p><u>C&amp;D Waste</u></p> <ul style="list-style-type: none"> <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 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.</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 style="list-style-type: none"> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TC 19/2005</li> </ul>	√
S8.2.12- S8.3.15	WM3	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> <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 that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated.</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Waste Disposal (Chemical Waste) General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	√

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		<ul style="list-style-type: none"> <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>						√
S8.3.16	WM4	<u>Sewage</u> <ul style="list-style-type: none"> <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	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>	√
S8.3.17	WM5	<u>General Refuse</u> <ul style="list-style-type: none"> <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 by law.</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	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>	√

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<b>Water Quality (Construction Phase)</b>								
S.9.11.1.7	W2	<p><u>Land Works</u> 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:</p> <ul style="list-style-type: none"> <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 WPCO 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> <li>manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers;</li> <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>	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	√

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S9.11.1.7	W2	<ul style="list-style-type: none"> <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	√



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<b>Ecology (Construction Phase)</b>								
S10.7	E4	<ul style="list-style-type: none"> <li>Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater</li> </ul>	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	TM-Water	√
S10.7	E5	<ul style="list-style-type: none"> <li>Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time</li> </ul>	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction		√
S10.7	E8	<ul style="list-style-type: none"> <li>Control vessel speed</li> <li>Skipper training</li> <li>Predefined and regular routes for working vessels; avoid Brother Islands.</li> </ul>	Minimise marine traffic disturbance on dolphins	Contractor	Marine Traffic	During construction		N/A
<b>Fisheries</b>								
S11.7	F4	<ul style="list-style-type: none"> <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

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<b>Landscape &amp; Visual (Detailed Design Phase)</b>								
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> <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; Fine-tuning the location of the bridge columns to avoid visually-sensitive locations;</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, 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; and</li> <li>• Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF.</li> </ul>	Minimise visual & landscape impact	Detailed designer	HKBCF	Design Stage		N/A

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<i>Landscape &amp; Visual (Construction Phase)</i>								
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</p> <p>G3. Not applicable as this is for HKLR.</p> <p>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</p> <p>G5. Vegetation reinstatement and upgrading to disturbed areas</p> <p>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</p> <p>G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;</p> <p>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</p> <p>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 enhance "natural-look" of the new coastline.</p>	Minimise visual & landscape impact	Contractor	HKBCF	Construction stage		N/A
S14.3.3.3	LV3	<p><u>Mitigate Visual Impacts</u></p> <p>V1.Minimize time for construction activities during construction period.</p> <p>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.</p>						√ 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
<b>EM&amp;A</b>								
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		<ul style="list-style-type: none"> <li>EIAO Guidance Note No.4/2002</li> <li>TM-EIAO</li> </ul>	√
S15.5 - S15.6	EM2	1) An Environmental Team needs to be employed as per the EM&A Manual. 2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. 3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	Perform environmental monitoring & auditing	Contractor	All construction sites		<ul style="list-style-type: none"> <li>EIAO Guidance Note No.4/2002</li> <li>TM-EIAO</li> </ul>	√

Legends: √ = Implemented; X = Not implemented; N/A = Not applicable

## **APPENDIX H**

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### **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	0	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

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## Environmental Site Inspection Schedule



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

**Environmental Site Inspection Schedule for March 2017**

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

**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 Inspection Schedule for March 2017**

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>Time</b>				1-Mar	2-Mar	3-Mar	4-Mar
				Site Inspection			
<b>Time</b>	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar
				Site Inspection			
<b>Time</b>	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar
				Site Inspection			
<b>Time</b>	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
				Site Inspection			
<b>Time</b>	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	
				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 Inspection Schedule for March 2017**

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