



中國港灣工程有限責任公司

香港代表： 振華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY LIMITED  
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date : 06 February 2017  
Our Ref. : CHEC300/OUT/2017/02/04.05/020981

By Hand

AECOM Asia Company Limited  
8/F Grand Central Plaza  
Tower 2, 138 Shatin Rural Committee Road  
Shatin, Hong Kong

Attn: Mr. Michael Tovey  
The Engineer's Representative

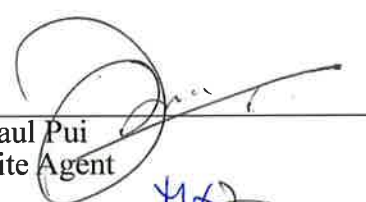
Dear Sir,

**Contract No. HY/2013/03**  
**Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –**  
**Vehicle Clearance Plazas and Ancillary Buildings and Facilities**  
**EP Condition 5.4 – Quarterly EM&A Report (September - November 2016)**

Pursuant to the Condition 5.4 of the EP-353/2009/K, we are pleased to submit one soft copy and three copies of the certified Quarterly EM&A Report (Rev.1) for September to November 2016 for your on-ward submission.

Thank you for your kind attention.

Yours faithfully,  
For and on behalf of  
**China Harbour Engineering Co. Ltd.**

  
Paul Pui  
Site Agent

PP/EH/MC/HSW/DW/csh

Encl.

6 February 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. Michael Tovey

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/2013/03 – HZMB HKBCF – Vehicle Clearance Plazas and  
Ancillary Buildings and Facilities  
Quarterly EM&A Report No.5 for September 2016 to November 2016**

Reference is made to the Environmental Team's submission of Quarterly Environmental Monitoring & Audit Report No.5 for September 2016 to November 2016 (Rev. 1) certified by the ET Leader (ET's ref.: "MCL/ED/0077/2016/C" dated 2 February 2017) and provided to us via e-mail on 3 February 2017.

We are pleased to inform you that we have no adverse comment on the captioned report. We write to verify the captioned submission in accordance with Section 16.4.1 of the Updated EM&A Manual (2011).

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)
	MCL	Mr. Arthur Cheng	(By Fax: 2450 8032)
	CHEC	Mr. Johnason Ko	(By Fax: 2887 3014)

Internal: DY, YH, ENPO Site

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Website : www.materialab-consultant.com

Date 02 February 2017  
Our Ref. MCL/ED/0077/2016/C

Ramboll Environ Hong Kong Limited  
(formerly ENVIRON Hong Kong Limited)  
21/F, BEA Harbour View Centre  
56 Gloucester Road, Wan Chai  
Hong Kong

BY HAND

Attn.: Mr. Raymond Dai, IEC

Dear Sir,

**Quarterly EM&A Report for September 2016 to November 2016  
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –  
Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)**

Pursuant to Section 16.4 of the updated EM&A Manual for Hong Kong Boundary Crossing Facilities (Version 1.0) covering the captioned contract, we are pleased to submit the certified Quarterly EM&A Report for September 2016 to November 2016 (Rev.1) for your verification.

Should you require further information, please do not hesitate to contact our Miss Scarlet Cheng at 3565 4156 or the undersigned at 3565 4115.

Yours faithfully,  
for and on behalf of  
MATERIALAB CONSULTANTS LIMITED



Arthur Cheng  
Environmental Team Leader

AC/sc

Encl.

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Mr. Patrick Ko  
RAMBOLL ENVIRON – Mr. Ray Yan, Mr. Andy Wong  
CHEC – Mr. Marko Chan

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Report No.: 0165/15/ED/0653

**QUARTERLY ENVIRONMENTAL MONITORING & AUDIT  
REPORT (Rev. 1)**

**September 2016 to November 2016**

**Client:** China Harbour Engineering Co., Ltd.  
**Project:** Contract No. HY/2013/03  
Hong Kong-Zhuhai-Macao Bridge  
Hong Kong Boundary Crossing Facilities -  
Vehicle Clearance Plazas and  
Ancillary Buildings and Facilities

**Report No.:** 0165/15/ED/0653

Prepared by: Scarlet Cheng

Reviewed by: Bong Yu

Certified by:

  
Arthur Cheng  
Environmental Team Leader

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Report No.: 0165/15/ED/0653

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Report No.: 0165/15/ED/0653

### EXECUTIVE SUMMARY

This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and 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” within Contract No. HY/2013/03 works area) (hereafter referred to as “the Contract”) for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as “the Contractor”) and Materialab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities” (HZMB HKBCF) Project which is a “Designated Project” under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016).

Materialab Consultants Limited (MCL) 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 for the Contract. This is the 5<sup>th</sup> Quarterly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 01 September 2016 to 30 November 2016 (includes the findings of the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area during the reporting period from 13 September 2016 to 30 November 2016) (the “reporting period”).

### Environmental Monitoring and Audit Progress

The 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 Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are listed below:

Environmental Site Inspection:

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- 01, 08, 15, 22 and 28 September 2016 (15, 22 and 28 September 2016 includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area)
- 06, 13, 27 and 28 October 2016 (Environmental site inspection of 21 October 2016 was cancelled due to hoisting of typhoon signal no. 8 on 21 October 2016 and re-scheduled to 28 October 2016)
- 03, 10, 17 and 25 November 2016

### 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 is reported in 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 station 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 station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no marine works conducted during the reporting period and therefore, no water quality impact monitoring result is reported.

There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.

### Complaint Log

There were two complaints received in relation to the environmental impact during the reporting period.

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
002	ENPO-C0100	22 September 2016	Water
003	ENPO-C0102	10 November 2016	Water

After investigation, it was concluded that these two complaints were not related to Contract No. HY/2013/03.

### Notifications of Summons and Successful Prosecutions

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

### Reporting Changes

There was no reporting change during the reporting period.



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## 1. INTRODUCTION

### 1.1 Basic Project Information

- 1.1.1 This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and 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” within Contract No. HY/2013/03 works area) (hereafter referred to as “the Contract”) for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as “the Contractor”) and MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.
- 1.1.2 Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities” (HZMB HKBCF) Project which is a “Designated Project” under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016). The works areas of the contract are shown in **Appendix A**.
- 1.1.3 This is the 5<sup>th</sup> Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 September 2016 to 30 November 2016 (from 13 September 2016 to 30 November 2016 for the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) (the “reporting period”) and is submitted to fulfil Condition 16.4 of the Updated EM&A Manual for HKBCF.

### 1.2 Project Organisation

- 1.2.1 The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1.1** and **Table 1.2**.

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Table 1.1 Contact Information of Key Personnel (for Contract No. HY/2013/03)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Michael Tovey	3985 7470	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (China Harbour Engineering Co. Ltd)	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
	Environmental Officer	Mr. Marko Chan	9427 2879	2512 0427
Environmental Team (Materialab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	5236 7111	--

Table 1.2 Contact Information of Key Personnel (for Contract No. HY/2013/06 within Contract No. HY/2013/03 works area)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Michael Tovey	3985 7470	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	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 (Materialab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	6509 0375	--

**1.3 Construction Programme**

1.3.1 The construction programme for Contract No. HY/2013/03 (includes the construction works of HY/2013/06 within Contract No. HY/2013/03 works area) are 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:

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### For Contract No. HY/2013/03

#### September 2016

1. Site Investigation at Portion G;
2. Piling at Portion C, STP, Area G (Bridge A1 – A5, A7b, A8 & A9), Box Culvert B & C;
3. Building at Portion A1, B, G, STP & Pumping Stations;
4. CUE Construction at Portion B, C & J;
5. Drainage & Sewerage Work at Portion B, H1, H2, G & A1;
6. Radiation Screen Wall and Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A6;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2; and
11. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

#### October 2016

1. Site Investigation at Portion G & N;
2. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
3. Piling at Portion C, STP, Area G (Bridge A1 & A9), Box Culvert B & C;
4. CUE Construction at Portion B, C & J;
5. Drainage & Sewerage Work at Portion B, H1, H2, J, P, G & A1;
6. Radiation Screen Wall and Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert D at Portion A1; Shuttle kiosk & Subway at Portion E; and
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee.

#### November 2016

1. Site Investigation at Portion G & N;
2. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
3. Piling at Portion C, STP, Area G (Bridge A1 & A9), Box Culvert B & C;
4. CUE Construction at Portion B, C & J;
5. Drainage & Sewerage Work at Portion B, H1, H2, J, P, G & A1;
6. Radiation Screen Wall and Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2; and
11. Box Culvert D at Portion A1; Shuttle kiosk & Subway at Portion E.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

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### September 2016

1. Conduit duct laying at CUE Kiosk.

### October 2016

1. Conduit duct laying at CUE Kiosk.

### November 2016

1. Concealed Conduit works at CUE Vehicle Kiosk.

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**2. EM&A REQUIREMENTS**

**2.1 Summary of EM&A Requirements**

2.1.1 The 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.

2.1.2 A summary of air and noise monitoring locations are presented in **Table 2.1**. The location of air quality and noise monitoring stations are shown as in **Figure 1** and **Figure 2**, respectively.

Table 2.1 Air Quality and Noise Monitoring Locations

Environmental Monitoring	Identification No.	Location Description
Air Quality	AMS6(1)	Dragonair/CNAC (Group) Building (A80)
	AMS7(1)	Hong Kong SkyCity Marriott Hotel
Noise	NMS2(2)	Seaview Crescent
	NMS3B(2) (3)	Site Boundary of Site Office Area at WA2

Remarks:

- (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 latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (2) 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.
- (3) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

**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.

**2.3 Action and Limit Levels**

2.3.1 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 (µg/m³)	Limit Level (µg/m³)
AMS6	360	500
AMS7	370	

Table 2.3 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level (µg/m³)	Limit Level (µg/m³)
AMS6	173	260
AMS7	183	

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2.3.2 If exceedance(s) at these stations 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 quarterly EM&A Report.

2.3.3 The Action and Limit Levels for construction noise are defined in **Table 2.4**.

Table 2.4 Action and Limit Level for Construction Noise

Monitoring Station	Action Level	Limit Level
<b>For the Time Period 0700-1900 hrs. on Normal Weekdays</b>		
NMS2	When one documented complaint is received	75.0 dB (A) Leq (30 min.)
NMS3B		70.0 dB (A) Leq (30 min.)*

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.

\* Reduce to 70 dB(A) for schools and 65 dB(A) during school examination period.

2.3.4 If exceedance(s) at these stations 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 quarterly EM&A Report.

## 2.4 Event and Action Plans

2.4.1 The event and action plans for air quality and noise are provided in **Appendix D**.

## 2.5 Mitigation Measures

2.5.1 Environmental mitigation measures for the contract were recommended in the approved EIA Report. **Appendix E** lists the recommended mitigation measures and the implementation status.

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### **3. ENVIRONMENTAL MONITORING AND AUDIT**

#### **3.1 Air Quality Monitoring Results**

3.1.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports (for September 2016, October 2016 and November 2016) prepared for Contract Nos. HY/2011/03 and HY/2010/02 respectively.

3.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for September 2016, October 2016 and November 2016) prepared by Contract No. HY/2011/03.

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

#### **3.2 Noise Monitoring Results**

3.2.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports (for September 2016, October 2016 and November 2016) prepared for Contract No. HY/2010/02.

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

#### **3.3 Water Quality Monitoring Results**

3.3.1 There was no marine works conducted during the reporting period and therefore, no relevant monitoring result is reported. However, ET of the Contract shall closely monitor on the status of marine works, which shall conduct monitoring when marine works commence in the future.

3.3.2 The ET of the Contract is required to conduct impact water quality monitoring as part of EM&A programme if water quality monitoring is no longer covered by another ET of the HZMB project. The ETL shall review and obtain IEC, ENPO and EPD agreement on the contract specific water quality monitoring works at least a month before the commencement of any marine works.

#### **3.4 Ecology Monitoring Results**

3.4.1 There was no marine works conducted, which impacted to the ecology during the reporting period and therefore, no relevant monitoring result is reported. However, ET of the Contract shall closely monitor on the status of marine works, which shall conduct monitoring when marine works commence in the future.

3.4.2 The ET of the Contract is required to conduct ecology monitoring as part of EM&A programme if ecology monitoring is no longer covered by another ET of the HZMB project. The ETL shall review and obtain IEC, ENPO, AFCD and EPD agreement on the contract specific marine ecology monitoring works at least a month before the commencement of any marine works.

#### **3.5 Implementation of Environmental Measures**

3.5.1 In response to the site audit findings, the Contractor carried out corrective actions. Details of site audit findings and the corrective actions during the reporting period are presented in **Appendix F**.

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- 3.5.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.
- 3.5.3 Implementation status of Regular Marine Travel Route Plan (RMTRP) was checked by ET. Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly. Marine traffic records which indicated the number of trips data for pelican barge, hopper barge, tug boat and floating concrete batching plant on the implementation of RMTRP from September 2016 to November 2016 were checked by ET. Marine traffic records of September 2016, October 2016 and November 2016 were provided by Contractor to ER, IEC/ENPO for checking within the month of October 2016, November 2016 and December 2016 respectively. The implementation of marine traffic follows the Regular Marine Travel Route Plan with respect to ET's checking on the marine traffic records for the reporting period.
- 3.5.4 With respect to condition 3.26A of EP-353/2009/K approved by EPD on 11 April 2016, the numbers and operating periods of floating grout production facilities and floating concrete batching plants on-site to review on the compliance to this EP condition were checked. Under Contract No. HY/2013/03, one floating concrete batching plant was operated on-site during the reporting period.

### **3.6 Advice on the Solid and Liquid Waste Management Status**

- 3.6.1 The Contractor of Contract No. HY/2013/03 registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 3.6.2 No extracted marine sediment was treated using cement solidification/stabilisation (Cement S/S) techniques under Contract No. HY/2013/03 during this reporting period. The marine sediment extracted from this Contract was disposed to the Marine Fill Committee (MFC) allocated disposal sites directly without treatment during this reporting period. As a practical means, the disposal operation is managed by one contractor who is also responsible for applying dumping permit and its subsequent extension applications from EPD. Contract No. HY/2013/03 has been assigned to coordinate and arrange for disposal of extracted marine sediment from all three Contracts (Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04).
- 3.6.3 The barge for disposal of marine sediment was moored at the temporary loading and unloading at the east shore of the HKBCF Island, which has been being used by reclamation contractor (Contract No. HY/2010/02) for reclamation activities. In terms of safety consideration and to avoid mixing of sediment between contracts, each dumping date was allocated to one Contract. The quantity of marine sediment disposed on each date was from one Contract.
- 3.6.4 During dumping, Contractor of Contract No. HY/2013/03 is responsible for transporting the marine sediment from the site area of Contract No. HY/2013/03 to the barge. The estimated quantity of marine sediment in each truck is confirmed by Resident Site Staff of Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04. The trip tickets for transportation and disposal of marine sediment are collected and checked. Contract No. HY/2013/03 as the dumping permit holder is responsible for reporting to EPD the quantity disposed of as the condition stipulated in the dumping permit. The disposal site allocated to this Project is the Mud Pit CMP Vd of the Confined Marine Sediment Disposal Facility to the East of Sha Chau (ESC) during this reporting period.



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- 3.6.5 Marine sediment extracted from bored piling from this Contract was disposed to allocated dumping site during this reporting period. The summary of marine sediment disposed during this reporting period is shown in the following table:

Table 3.1 Summary of Marine Sediment Disposed to Dumping Site

Month/Year	Quantity disposed (in'000m <sup>3</sup> )			
	HY/2013/02	HY/2013/03	HY/2013/04	Total
Sep 2016	2.328	6.816	3.888	13.032
Oct 2016	1.096	2.376	5.286	8.758
Nov 2016	0.000	0.000	0.000	0.000
<b>Total</b>	<b>3.424</b>	<b>9.192</b>	<b>9.174</b>	<b>21.790</b>

- 3.6.6 The summary of waste flow table for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is detailed in **Appendix G**.
- 3.6.7 Contractor of Contract No. HY/2013/03's site arrangement for disposal of bentonite slurry to Tseung Kwan O Area 137 Fill Bank was checked by ET and formal consent has been obtained from Tseung Kwan O Area 137 Fill Bank for receiving used bentonite slurry generated from Contract No. HY/2013/03.

### 3.7 Environmental Licences and Permits

- 3.7.1 The valid environmental licences and permits for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are summarized in **Appendix H**. 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 (For Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation).

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**4. SUMMARY OF EXCEEDANCES, COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION****4.1 Summary of Exceedance of the Environmental Quality Performance Limit**

4.1.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for September 2016, October 2016 and November 2016) prepared by Contract No. HY/2011/03.

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

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

4.1.4 There was no marine works conducted during the reporting period and therefore, no relevant monitoring result is reported.

4.1.5 There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.

**4.2 Summary of Complaints, Notification of Summons and Successful Prosecution**

4.2.1 There were two complaints received in relation to the environmental impact during the reporting period. The summary of environmental complaints is presented in **Table 4.1**. The details of cumulative statistics of Environmental Complaints are provided in **Appendix I**.

Table 4.1 Summary of Environmental Complaints for the Reporting Period

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
002	ENPO-C0100	22 September 2016	Water
003	ENPO-C0102	10 November 2016	Water

(a) 22 September 2016 (Log No. 002)

The complaint was received by EPD from a member of the public on 22 September 2016 complained about two site flat top barges came from Tuen Mun everyday and observed that whitish effluent discharged into the sea from 1800 to 0400 near Cell No. 54 to 55 of HZMB construction site which creates pollution during the reporting period. After investigation, it was concluded that the complaint was not related to the construction site activities of Contract No. HY/2013/03. Nevertheless, the contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

Water Quality: W1 –

1. barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material;
2. any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;

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3. loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;
4. excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved;
5. adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;
6. all vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and
7. the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.

(b) 10 November 2016 (Log No. 003)

The complaint was received by EPD from a member of the public on 09 November 2016 complained about water quality pollution was observed behind a barge on 07 November 2016 at 09:26 am from the footbridge near Tung Chung Pier. A barge travelled from Hong Kong Zhuhai Macao Bridge near Scenic Hill site boundary to Tung Chung Pier's front sea area, turbid water was observed behind a barge which creates water quality pollution during the reporting period. After investigation, it was concluded that the complaint was not related to the construction site activities of Contract No. HY/2013/03. Nevertheless, the contractor had been reminded to comply with the requirements stipulated in the Environmental Mitigation Implementation Schedule (EMIS) of the EM&A Manual, in particular:

Water Quality: W1 –

1. barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material;
2. any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;
3. loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;
4. excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved;
5. adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;
6. all vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and
7. the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.

4.2.2 No notification of summons or prosecutions was received during the reporting period.

4.2.3 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix I**.

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## 5. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

### 5.1 Comments

5.1.1 According to the environmental site inspections undertaken during the reporting period, the following recommendations were provided:

For Contract No. HY/2013/03

- CHEC was reminded to provide drip tray for chemicals at CUE & Box Culvert.
- CHEC was reminded to remove stagnant water on site.
- CHEC was reminded to ensure no oil leakage from the generator at Box Culvert.
- CHEC was reminded to clear the stagnant water accumulated at CUE works area.
- CHEC was reminded to clear the stagnant water accumulated at Building 037.
- CHEC was reminded to remove the general refuse accumulated at Building 037.
- CHEC was reminded to provide drip tray for chemical containers at Bridge A7 Area.
- CHEC was reminded to increase watering for dust suppression on site.
- CHEC was reminded to maintain good housekeeping on site (Building 041).
- CHEC was reminded to remove the stagnant water accumulated at the lifting holes of the precast concretes on site.
- CHEC was reminded to maintain proper housekeeping on site (CUE works area).
- CHEC was reminded to remove stagnant water on site (CUE works area).
- CHEC was reminded to properly maintain housekeeping on site (CUE).
- CHEC was reminded to properly maintain equipment (generator) on site (Box Culvert D).
- CHEC was reminded to maintain proper housekeeping on site (Building 043).
- CHEC was reminded to provide drip tray for chemical containers at CUE works area.
- CHEC was reminded to remove stagnant water accumulated at Building 037 and Bridge A7 area.
- CHEC was reminded to enhance watering for dusty operation at Bridge A7 area.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

- No recommendation.

5.1.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. All necessary mitigation measures at this stage of works were implemented properly.

### 5.2 Recommendations

5.2.1 With implementation of the recommended environmental mitigation measures, the contract's environmental impacts were considered environmentally acceptable. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented.

5.2.2 The recommended environmental mitigation measures, as included in the EM&A programme, effectively minimize the potential environmental impacts from the contract. Also, the EM&A programme effectively monitored the environmental impacts from the construction activities and ensure the proper implementation of mitigation measures. No particular recommendation was advised for the improvement of the programme.

### 5.3 Conclusions

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- 5.3.1 Commencement of Contract No. HY/2013/03 took place on 10 April 2015 and the construction works of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 and the construction works of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area). This is the 5<sup>th</sup> Quarterly EM&A Report summarising the findings of EM&A activities conducted under Contract No. HY/2013/03 from 01 September 2016 to 30 November 2016 (includes the findings of EM&A activities conducted under Contract No. HY/2013/06 within Contract No. HY/2013/03 works area from 13 September 2016 to 30 November 2016).
- 5.3.2 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 Reports (for September 2016, October 2016 and November 2016) prepared by Contract No. HY/2011/03.
- 5.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.4 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.5 There was no marine works conducted during the reporting period and therefore, no water quality impact monitoring result is reported.
- 5.3.6 There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.
- 5.3.7 Environmental site inspection was carried out on 01, 08, 15, 22 and 28 September 2016 (15, 22 and 28 September 2016 includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area), 06, 13, 27 and 28 October 2016 (site inspection of 21 October 2016 was cancelled due to hoisting of typhoon signal no. 8 on 21 October 2016 and re-scheduled to 28 October 2016), and 03, 10, 17 and 25 November 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 5.3.8 There were two complaints received in relation to the environmental impact during the reporting period. After investigation, it was found that these two complaints were not related to the Contract.
- 5.3.9 There were no notifications of summons or prosecutions received during the reporting period.

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### **Figure 1**

#### **Air Quality Monitoring Stations**



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### **Figure 2**

### **Noise Monitoring Stations**





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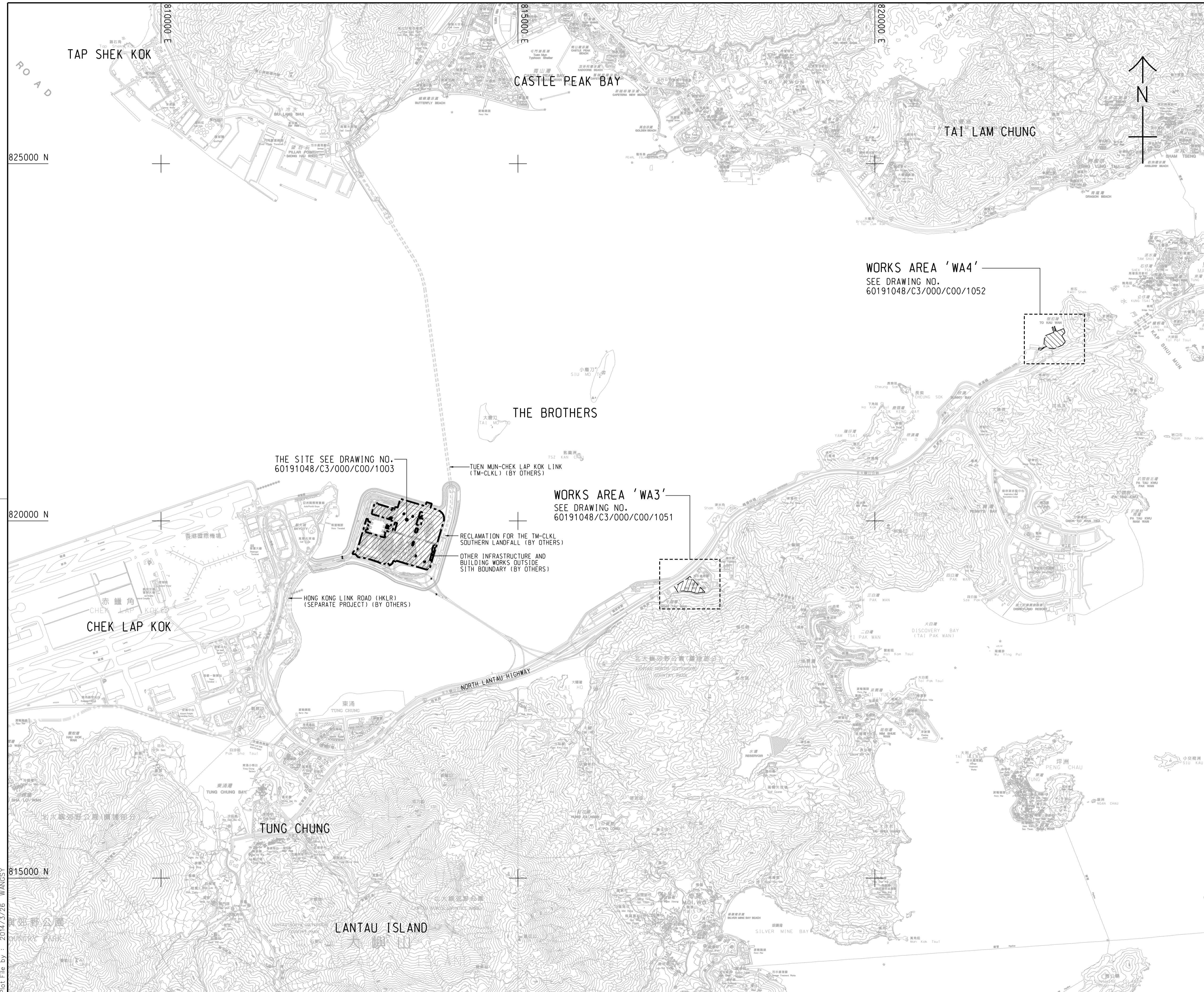
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Report No.: 0165/15/ED/0653

### **Appendix A**

#### **Location of Works Areas**



- NOTES:**
- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
  - DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C3/000/C00/1051 TO 1053.

- LEGEND:**
- SITE BOUNDARY
  - ▨ WORKS AREA

THE SITE SEE DRAWING NO. 60191048/C3/000/C00/1003

TUEN MUN-CHEK LAP KOK LINK (TM-CLKL) (BY OTHERS)

WORKS AREA 'WA3'  
SEE DRAWING NO. 60191048/C3/000/C00/1051

RECLAMATION FOR THE TM-CLKL SOUTHERN LANDFALL (BY OTHERS)  
OTHER INFRASTRUCTURE AND BUILDING WORKS OUTSIDE SITH BOUNDARY (BY OTHERS)

HONG KONG LINK ROAD (HKLR) (SEPARATE PROJECT) (BY OTHERS)

WORKS AREA 'WA4'  
SEE DRAWING NO. 60191048/C3/000/C00/1052

- TENDER DRAWING		BSCW SCI	MAR. 14
REV. 修改	DESCRIPTION 內容摘要	D.C. 檢閱	DATE 日期

**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

HONG KONG-ZHUHAI-MACAO BRIDGE  
 HONG KONG BOUNDARY CROSSING FACILITIES  
 - VEHICLE CLEARANCE PLAZAS AND  
 ANCILLARY BUILDINGS AND FACILITIES

**SITE LOCATION PLAN**

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

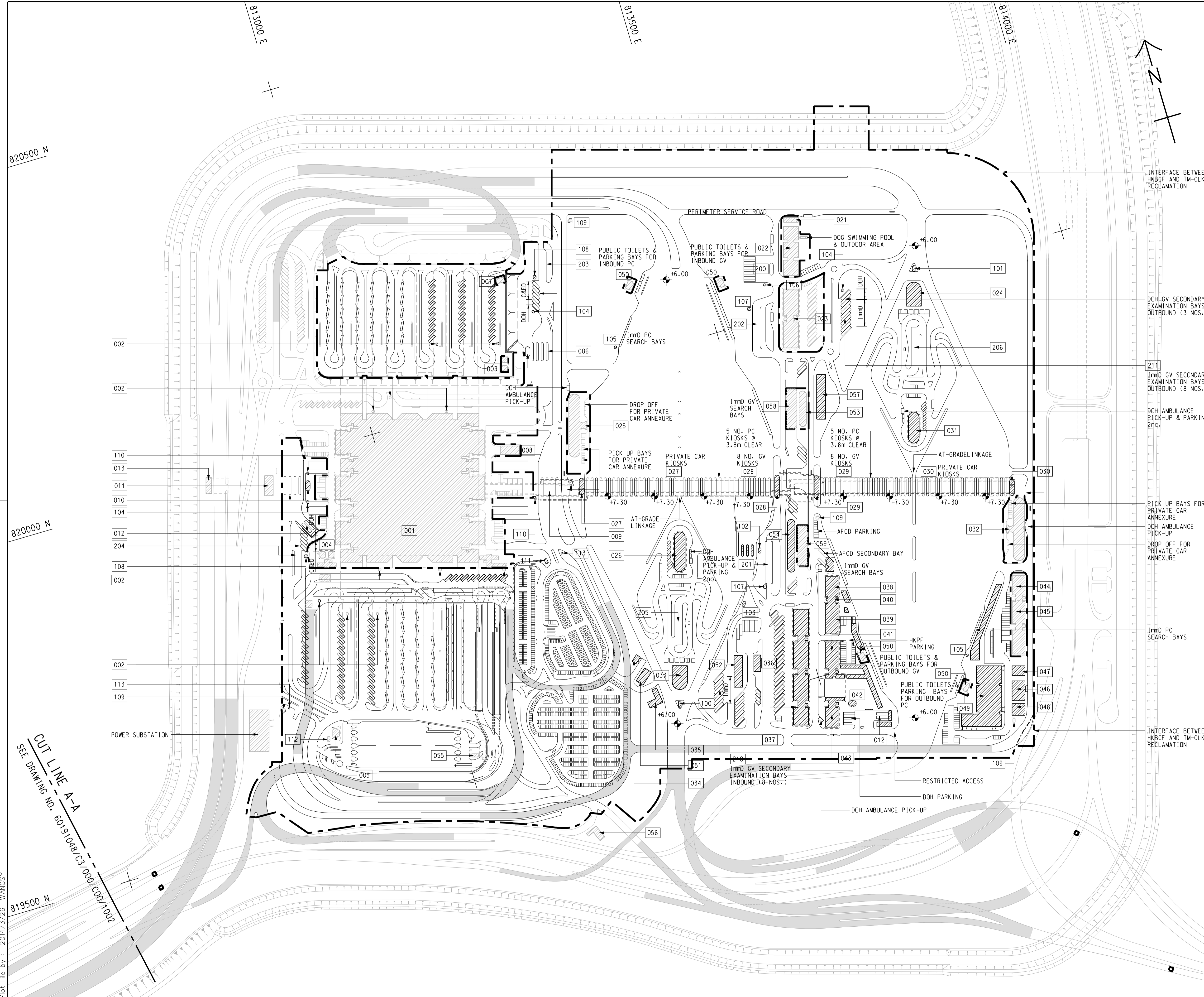
DRG.NO. 60191048/C3/000/C00/1000  
 圖紙編號

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. Dir. APPROVED 批准人
BWCW	HY/2013/03	TKH

DRAWN BY 繪圖	STATUS 階段
WSY	

SCALE 比例 A1 1 : 25000  
 DIMENSIONS ARE IN 尺寸單位 METRES  
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**NOTE:**

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 60191048/C3/000/C00/1003.

**LEGEND:**

- SITE BOUNDARY
- VIADUCT
- BUILDING/FACILITIES

INTERFACE BETWEEN HKBCF AND TM-CLKL RECLAMATION

DOH GV SECONDARY EXAMINATION BAYS OUTBOUND (3 NOS.)

211  
ImmD GV SECONDARY EXAMINATION BAYS OUTBOUND (8 NOS.)

DOH AMBULANCE PICK-UP & PARKING 2no.

PICK UP BAYS FOR PRIVATE CAR ANNEXURE  
DOH AMBULANCE PICK-UP  
DROP OFF FOR PRIVATE CAR ANNEXURE

ImmD PC SEARCH BAYS

INTERFACE BETWEEN HKBCF AND TM-CLKL RECLAMATION

- TENDER DRAWING		BWCW SCI	MAR. 14
REV. 修改	DESCRIPTION 内容摘要	CHK'D 查核	DATE 日期

**路政署 HIGHWAYS DEPARTMENT**  
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 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE  
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 ANCILLARY BUILDINGS AND FACILITIES

**MASTER LAYOUT PLAN**

SHEET 1 OF 2

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

DRG. NO. 60191048/C3/000/C00/1001  
 圖紙編號

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. DIR. APPROVED 批准人
BWCW	HY/2013/03	TKH

DRAWN BY 繪圖	STATUS 階段
WSY	初步

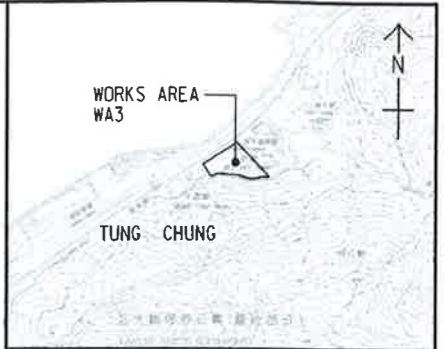
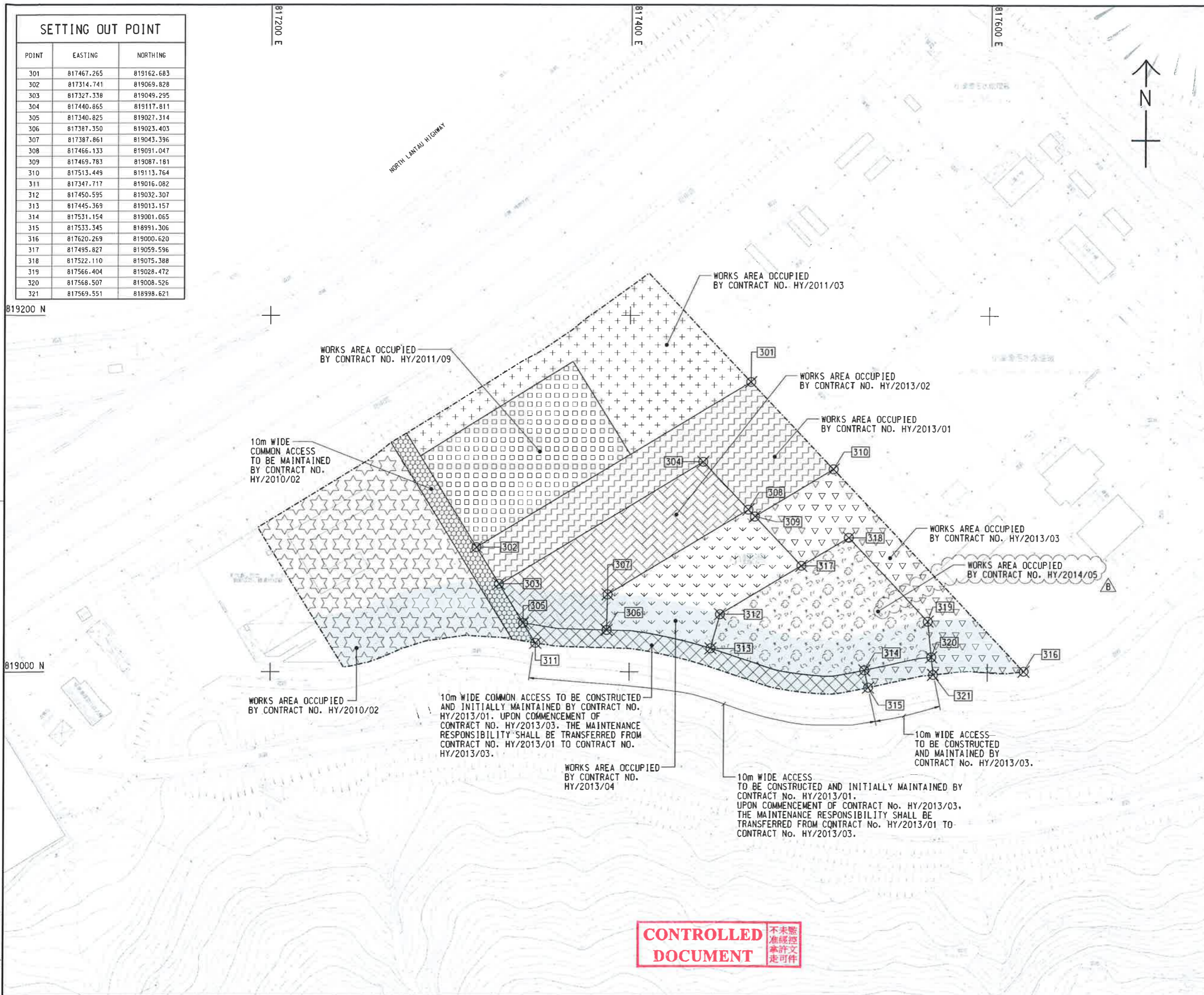
SCALE 比例 A1 1 : 2500  
 DIMENSIONS ARE IN 尺寸單位 METRES

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CUT LINE A-A  
 SEE DRAWING NO. 60191048/C3/000/C00/1002

Plot File by : 2014/3/26 WANGSY

SETTING OUT POINT		
POINT	EASTING	NORTHING
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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



LOCATION PLAN  
SCALE 1 : 25000

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

LEGEND:

[Dashed line]	WORKS AREA BOUNDARY
[Star pattern]	PORTION 3.1
[Cross-hatch]	PORTION 3.2
[Downward triangles]	PORTION 3.3
[Upward triangles]	PORTION 3.4
[Diagonal lines]	PORTION 3.5
[Hexagonal pattern]	PORTION 3.6
[Wavy pattern]	PORTION 3.7
[Square pattern]	PORTION 3.8
[Cross-hatch]	PORTION 3.9
[Downward triangles]	PORTION 3.10
[Blue shaded]	NON-BUILDING AREA 8200m <sup>2</sup> (WHOLE)

**FOR CONSTRUCTION**

C	WORKING DRAWING	BWCW SCI	MAY. 15
B	TENDER ADDENDUM NO. 2	BWCW SCI	MAY. 14
A	TENDER ADDENDUM NO. 1	BWCW SCI	APR. 14
-	TENDER DRAWING	BWCW SCI	MAR. 14

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HONG KONG-ZHUHAI-MACAO BRIDGE  
 HONG KONG BOUNDARY CROSSING FACILITIES  
 - VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

WORKS AREA WA3  
**AECOM** Aedas  
 Rogers Stirk Harbour + Partners  
 BURO HAPPOLD ATKINS ADI

DRG. NO. 圖紙編號	60191048/C3/000/C00/1051C		
DESIGNED BY 設計	CONTRACT NO. 合約編號	P. No. APPROVED 審核人	DATE 日期
BWCW	HY/2013/03	TKH	
DRAWN BY 繪圖	STATUS 狀況	<b>WORKING DRAWING</b>	
WSY	ADD		
SCALE 比例	A1 1 : 1000		
DIMENSIONS ARE IN 尺寸單位	METRES		
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10m WIDE COMMON ACCESS TO BE CONSTRUCTED AND INITIALLY MAINTAINED BY CONTRACT NO. HY/2013/01. UPON COMMENCEMENT OF CONTRACT NO. HY/2013/03, THE MAINTENANCE RESPONSIBILITY SHALL BE TRANSFERRED FROM CONTRACT NO. HY/2013/01 TO CONTRACT NO. HY/2013/03.

10m WIDE ACCESS TO BE CONSTRUCTED AND INITIALLY MAINTAINED BY CONTRACT No. HY/2013/01. UPON COMMENCEMENT OF CONTRACT No. HY/2013/03, THE MAINTENANCE RESPONSIBILITY SHALL BE TRANSFERRED FROM CONTRACT No. HY/2013/01 TO CONTRACT No. HY/2013/03.

**CONTROLLED DOCUMENT**  
 未經核准 不准修改  
 未經核准 不准修改

Plot File by 2014/5/5 WANGSY

SETTING OUT POINT

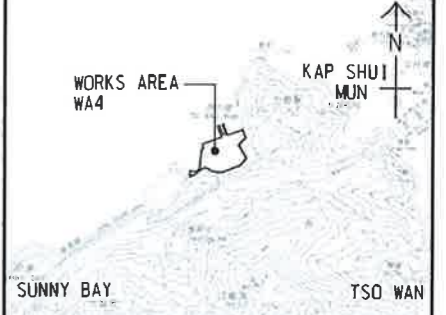
POINT	EASTING	NORTHING
401	822488.151	822632.315
402	822640.593	822689.415
403	822515.608	822559.848
404	822610.940	822599.642
405	822629.428	822607.359
406	822526.988	822529.813
407	822618.348	822567.950
408	822542.232	822489.581
409	822584.983	822507.426
410	822606.866	822516.561
411	822560.278	822441.956
412	822602.949	822460.010
413	822621.914	822467.959
414	822624.130	822470.998
415	822651.725	822508.856
416	822644.758	822521.192

822600 N

822400 N

822400 E

822600 E



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 4.1
- PORTION 4.2
- PORTION 4.3
- PORTION 4.4
- PORTION 4.5
- PORTION 4.6
- PORTION 4.7
- PORTION 4.8
- PORTION 4.9

**CONTROLLED DOCUMENT**

**FOR CONSTRUCTION**

REV. NO.	DESCRIPTION	DATE	BY	CHECKED	DATE
C	WORKING DRAWING	15 MAY 15	BWCW	SCI	
B	TENDER ADDENDUM NO. 2	MAY 14	BWCW	SCI	
A	TENDER ADDENDUM NO. 1	APR 14	BWCW	SCI	
-	TENDER DRAWING	MAR 14	BWCW	SCI	

**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  
 - VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

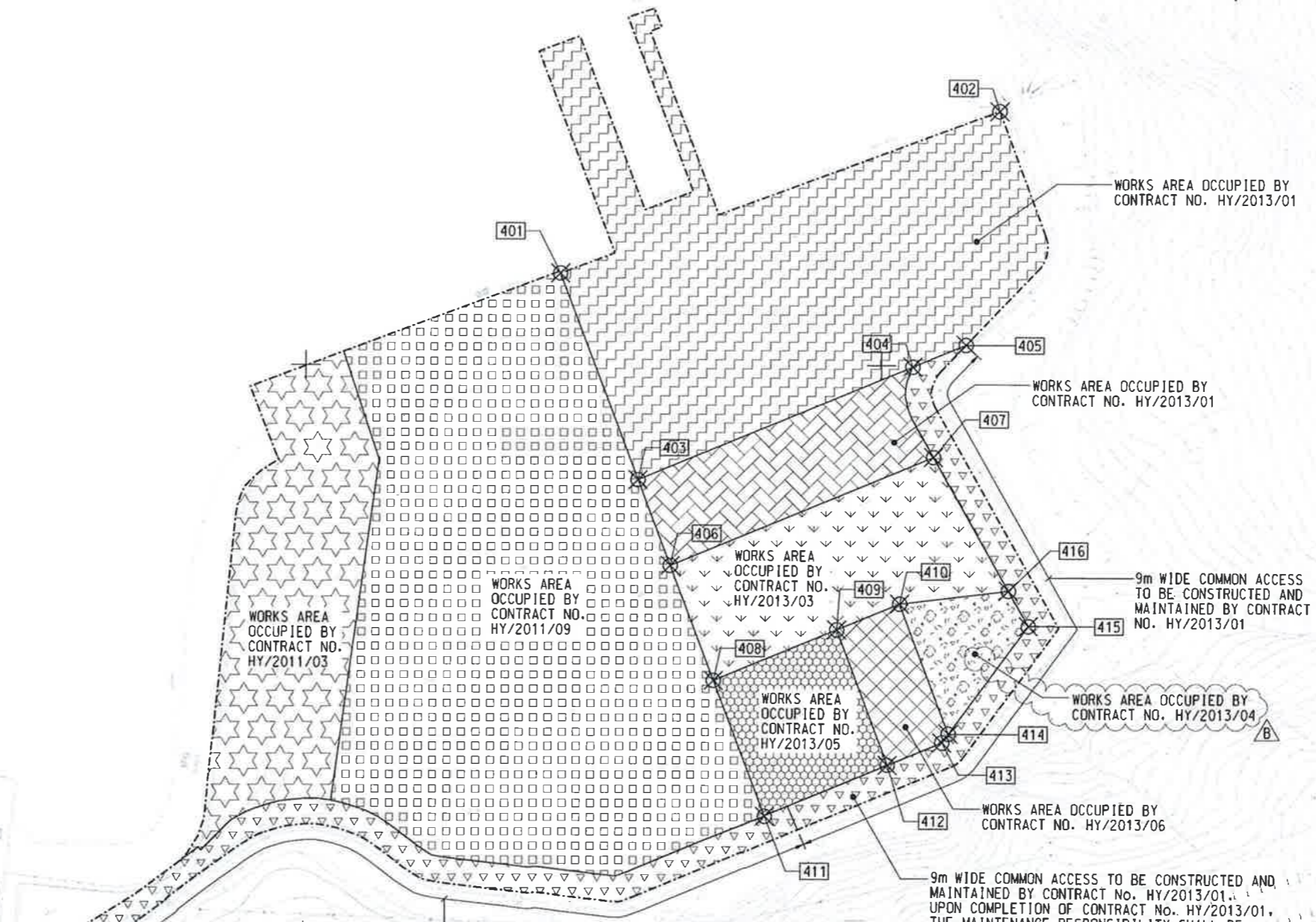
WORKS AREA WA4

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

DRG. NO. 圖紙編號: 60191048/C3/000/C00/1052C

DESIGNED BY: BWCW CONTRACT NO.: HY/2013/03  
 DRAWN BY: WSY STATUS: WORKING DRAWING  
 SCALE: A1 1 : 1000  
 DIMENSIONS ARE IN METRES

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Plot File by: 2014/5/5 WANGSY

## **MATERIALAB CONSULTANTS LIMITED**

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Fax : (852)-24508032  
Email : mcl@fugro.com

The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

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Report No.: 0165/15/ED/0653

### **Appendix B**

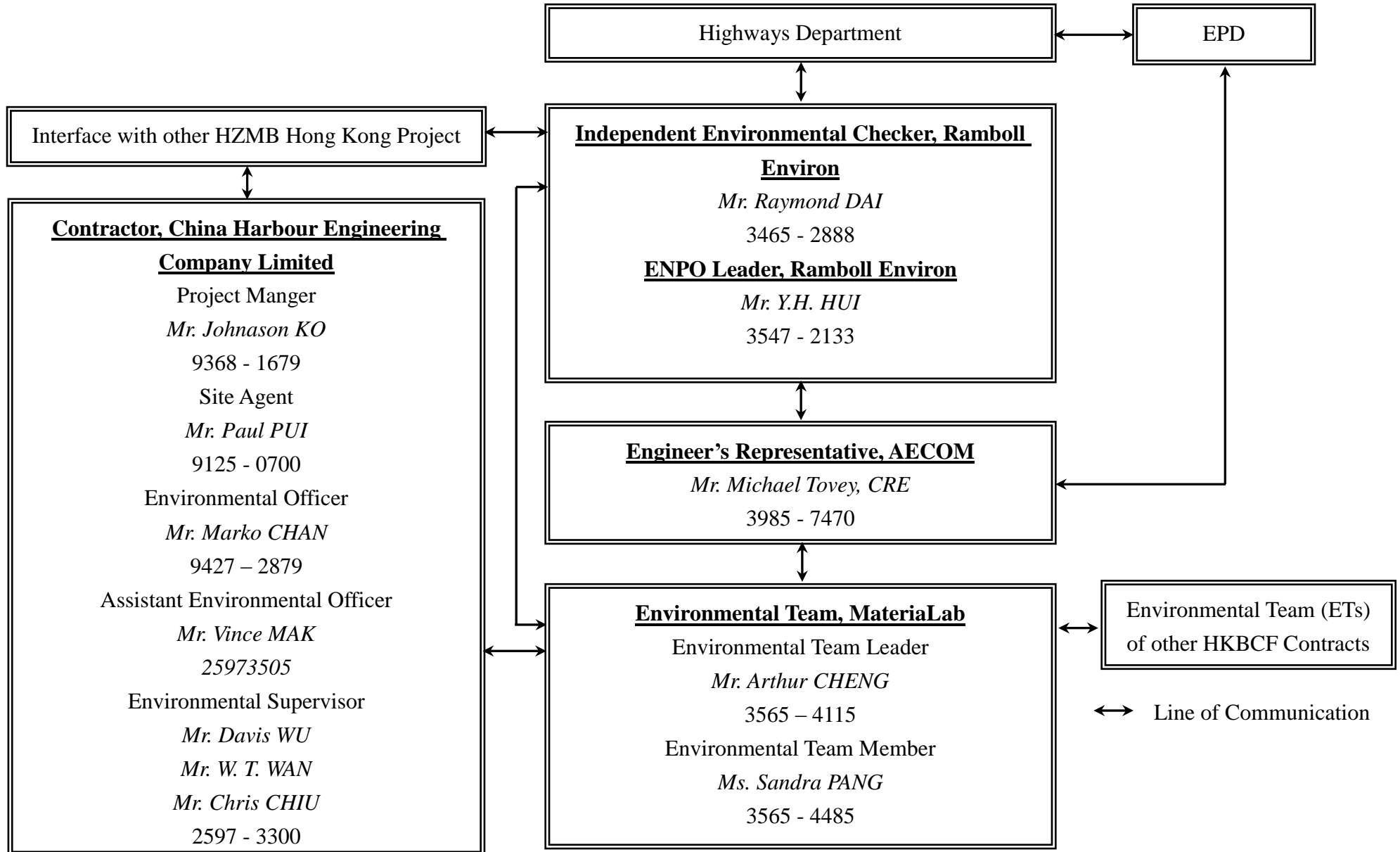
#### **Project Organization for Environmental Works**

# CHINA HARBOUR ENGINEERING COMPANY LIMITED



Contract No. HY/2013/03 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities

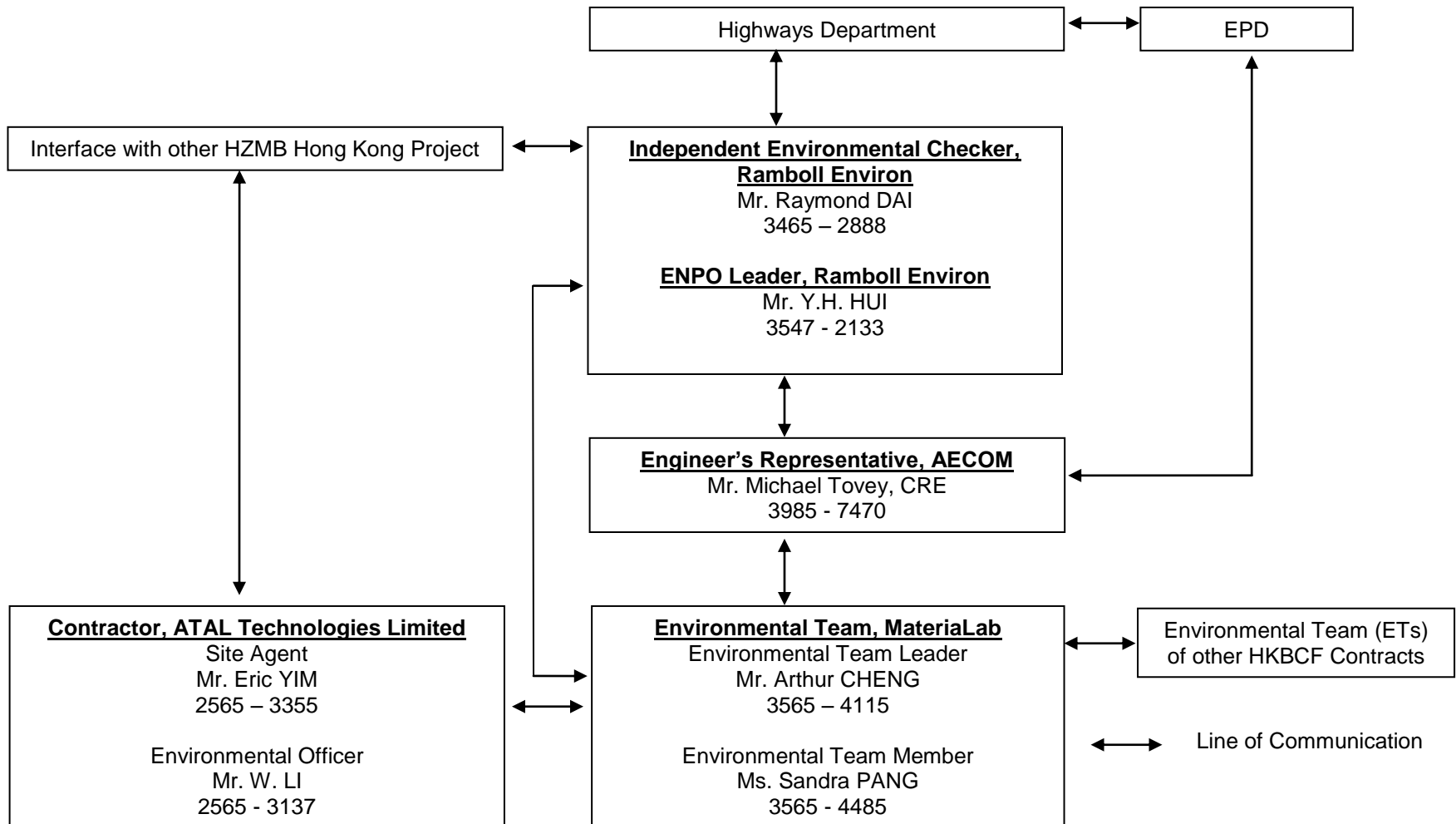
## Projects Organization for Environmental Works





Contract No. HY/2013/06 (within Contract No. HY/2013/03 works area)  
 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

**Projects Organization for Environmental Works**



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Report No.: 0165/15/ED/0653

### **Appendix C**

### **Construction Programme**

Activity ID	Activity Name	2016				2017
		Sep	Oct	Nov	Dec	Jan
<b>HKBCF - VCP &amp; Ancillary Buildings and Facilities, DWP Rev. 3, DD 30 Sep. 16</b>						
<b>CONTRACT DATES</b>						
<b>Key Dates</b>						
A1150	KD15 Achievement of Stage 14 of the Works (548 days; 08 Oct. 16)					◆ KD15 Achievement of Stage 14 of the Works (548 days; 08 Oct. 16)
<b>Site Access &amp; Possession</b>						
<b>Possession of Portion of Site</b>						
A0010	Possession of Portion A1 (<= 70 days)	◆ Possession of Portion A1 (<= 70 days)				
A0020	Possession of Portion A2 (<= 75 days)	◆ Possession of Portion A2 (<= 75 days)				
A0030	Possession of Portion B (<=100 days)		◆ Possession of Portion B (<=100 days)			
A0050	Possession of Portion D (<=220 days)		◆ Possession of Portion D (<=220 days)			
A0060	Possession of Portion E (<=160 days)		◆ Possession of Portion E (<=160 days)			
A0080	Possession of Portion G (<=225 days)		◆ Possession of Portion G (<=225 days)			
A0090	Possession of Portion H1 (<=273 days)		◆ Possession of Portion H1 (<=273 days)			
A0100	Possession of Portion H2 (<=273 days)		◆ Possession of Portion H2 (<=273 days)			
A0110	Possession of Portion J (<=320 days)		◆ Possession of Portion J (<=320 days)			
A0150	Possession of Portion N (<=345 days)		◆ Possession of Portion N (<=345 days)			
A0160	Possession of Portion P (<=502 days)		◆ Possession of Portion P (<=502 days)			
A0170	Possession of Portion Q (<=500 days)		◆ Possession of Portion Q (<=500 days)			
<b>Access to Locations of the Site</b>						
A0210	Contract Date for Access to Location 1.1 (490 days)		◆ Contract Date for Access to Location 1.1 (490 days)			
A0220	Contract Date for Access to Location 1.2 (405 days)		◆ Contract Date for Access to Location 1.2 (405 days)			
A0230	Contract Date for Access to Location 1.3 (488 days)		◆ Contract Date for Access to Location 1.3 (488 days)			
A0240	Contract Date for Access to Location 1.4 (488 days)		◆ Contract Date for Access to Location 1.4 (488 days)			
A0250	Contract Date for Access to Location 1.5 (580 days)			◆ Contract Date for Access to Location 1.5 (580 days)		
A0280	Contract Date for Access to Location 1.7A (610 days)				◆ Contract Date for Access to Location 1.7A (610 days)	
A0290	Contract Date for Access to Location 1.7B (610 days)				◆ Contract Date for Access to Location 1.7B (610 days)	
A0300	Contract Date for Access to Location 1.7C (610 days)				◆ Contract Date for Access to Location 1.7C (610 days)	
A0310	Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)		◆ Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)			
A0320	Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)		◆ Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)			
A0330	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)			◆ Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)		
A0340	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)			◆ Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)		
A0350	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)			◆ Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)		
<b>PRELIMINARY</b>						
<b>Precast Yard for Bridge Segement</b>						
A0630	Segement Manufacture					
<b>PORTION A1</b>						
<b>Portion A1 Structures</b>						
<b>Bridge A9</b>						
<b>Bored Pile</b>						
SA9120	Bored pile for A9 Bridge, 10 no.					
SA9140	Pile testing					
<b>Pile Cap</b>						
SA9210	Cap - A905					
SA9220	Cap - P904					
SA9230	Cap - P903					

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

**THREE MONTH ROLLING PROGRAMME  
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

Date	Revision	Checked	Approved
30-Sep-16	3MRP updated as of 30 Sep. 2016	ZJ	
31-Oct-16	3MRP updated as of 30 Oct. 2016	ZJ	
30-Nov-16	3MRP updated as of 30 Nov. 2016	ZJ	

Activity ID	Activity Name	2016					2017
		Sep	Oct	Nov	Dec	Jan	
SA9240	Cap - P902						
SA9250	Cap - A901						
<b>Pier &amp; Abutment</b>							
SA9310	Abutment A905						
SA9320	Pier P904						
SA9330	Pier P903						
SA9340	Pier P902						
<b>Structure Deck</b>							
SA9400	Falsework for Deck A905 - P904						
<b>Retaining Wall W8-1</b>							
SW8110	Construction of Retaing Wall W8-1 (U-shape, 4 bays)						
<b>Retaining Wall W9-1</b>							
SW9110	Construction of Retaining Wall W9-1 (U-shape, 4 bays) (+PL Test)						
<b>Box Culvert D</b>							
<b>Box Culvert D Construction</b>							
SD0140	Box Culvert D Construction (Stage 1, Bay 33 - 35)						
SD0150	Box Culvert D Construction (Stage 2, Bay 36 - 38)						
SD0160	Box Culvert D Construction (Stage 3, Bay 39 - 42)						
SD0170	Box Culvert D Construction (Stage 4, Bay 19 - 21 & 24 - 32)						
SD0180	Box Culvert D Backfilling						
<b>047 - Fresh Water Pumping Station, Portion A1 &amp; A2</b>							
A04715	Removal of Surcharge						
A04720	Excavation + Blinding						
A04730	Pile Testing						
A04740	Water Tank Construction						
<b>049 - Sewage Treatment Plant, Portion A1 &amp; A2</b>							
A04945	Removal of Surcharge						
A04946	Excavation to 0.0mPD/+4.9mPD						
A04948	Pile Testing						
A04950	Sheet Piling as ELS1 for Equalization Tanks						
A04960	Sheet Piling as ELS2 for Sludge Holding Tanks						
A04970	Sheet Piling as ELS3 for MBR Tanks						
B04960	ELS1 + Blinding for Equalization Tanks						
B04970	Constructing Base Slab for Equalization Tanks						
B04980	Backfilling + Removing 3rd Strut of ELS1						
B04990	Constructing Wall Stem for Equalization Tanks						
C04930	ELS2 + Blinding for Equalization Tanks						
C04940	Constructing Base Slab of Equalization Tanks						
C04950	Backfilling + Removal Strut of ELS2						
C04960	Constructing Wall Stem of Sludge Holding Tanks						
D04910	ELS3 w/struts + Blinding for MBR Tanks						
D04920	Constructing Base Slab for MBR Tanks						
D04930	Constructing Wall Stem for MBR Tanks						
D04940	Water-tightness Test for MBR Tanks						
D04950	Backfilling + Removal of ELS3						
<b>Completion of Fire Services Installation and Equipment (FCD)</b>							
F04950	Provision of Approved Building Plans by the Engineer						
<b>Waterworks Ordinance (WSD)</b>							
G04910	Provision of Approval Letter and approved Drawings by the Engineer						
G04920	Submission of WWO46 - Part I & II (Inside Services)						

■ Actual Work  
■ Remaining Work  
■ Critical  
◆ Milestone

**THREE MONTH ROLLING PROGRAMME**  
**VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**  
 Page 2 of 16

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Activity ID	Activity Name	2016					2017
		Sep	Oct	Nov	Dec	Jan	
<b>Portion A1 Buildings</b>							
<b>012 - DOH Disinsection Area and Store Room 1, at Portion A1</b>							
A01250	Finishing						
A01260	BS for Office Accomodation (Stage 8)						
A01270	BS + E&M for Office Accomodation (Stage 9)						
A01280	Other BS + E&M Installation						
<b>036 - Weigh Station</b>							
A03665	External Wall Plaster & Tile						
A03670	BS for Office Accomodation (Stage 8)						
A03680	BS + E&M for Office Accomodation (Stage 9)						
A03690	Other BS + E&M Installation						
B03620	WVO 46 Part I & II Submission						
<b>037 C&amp;ED Tower Cum Inbound Cargo Examination Building (Portion A1 &amp; B)</b>							
A03738	DDA Submission/Approval for Curtain Wall/Metal Roof/Alum. Cladding						
A03740	Steel Frame Structure Installation						
A03742A	Mock-up Sample for Curtain Wall						
A03742B	Mock-up Sample for Cladding						
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade						
A03742D	Mock-up Sample for Painted Concrete Wall						
A03742F	Mock-up Sample for External Wall Tiling						
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation						
A03746	Blockwall Laying						
A03748	Wall/Ceiling Plastering/Tiling						
A03752	Floor Screed/Tiling						
A03760	BS for Office Accomodation (Stage 8)						
A03790	Other BS + E&M Installation						
B03720	WVO 46 Part I & II Submission						
<b>041 Fire Station Cum Ambulance Depot</b>							
A04105	Excavation + Blinding						
A04110	Substructure						
A04120	Super Structure, G/F to 1/F						
A04122	Super Structure, 1/F to 2/F (incl. parapet wall and planter wall)						
A04124	DDA Submission/Approval for Cladding & Curtain Wall						
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)						
B04120	WVO 46 Part I & II Submission						
<b>042 Drill Tower</b>							
A04250	Super Structure						
A04260	Finishing						
A04270	BS for Office Accomodation (Stage 8)						
A04280	BS + E&M for Office Accomodation (Stage 9)						
A04290	Other BS + E&M Installation						
<b>043 DOH Office + Store Room</b>							
A04330	Super Structure						
A04340	Water Tanks for F.S./Sprinkler Pump Room						
A04360	DDA Submission for Cladding & Curtain Wall						
A04380	BS for Office Accomodation (Stage 8)						
B04310	Other BS + E&M Installation						
B04330	Stainless Steel Mesh Installation						
B04340	Metal Windows/Louvres/Doors/Railing etc. installation						
B04350	Blockworks						

- █ Actual Work
- █ Remaining Work
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- ◆ Milestone

**THREE MONTH ROLLING PROGRAMME  
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

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Activity ID	Activity Name	2016					2017
		Sep	Oct	Nov	Dec	Jan	
B04360	Wall Plastering/Tiling						
C04310	C/S Wall Plastering						
C04340	WVO 46 Part I & II Submission						
<b>052 - Transforms (Zone 4)</b>							
A05235	Energisation by CLP						
A05240	BS + E&M Installation (KD9)						
A05250	Ceiling/Wall Painting Finish & Floor Screed						
A05260	External Wall Plaster & Wall (KD10)						
<b>Completion of Fire Services Installation and Equipment (FCD)</b>							
F05240	Provision of Approved Building Plans by the Engineer						
<b>Waterworks Ordinance (WSD)</b>							
G05210	Provision of Approval Letter and approved Drawings by the Engineer						
<b>105 IMMD Guard Booth, Portion A1 (Mock Up)</b>							
B10500	Shop Drawings & Material Submission						
<b>Facade Envelop Structure Installation</b>							
B10580	Shop Drawing Submission and Approval						
B10590	Fabrication of F/C System						
<b>External Works for Portion A1</b>							
<b>Drainage Works</b>							
A1S010	Initial Survey						
ED0020	Drainage Works (773m & 34MHs), Stage 1 (Western)						
ED0030	Sewerage (300m & 9MHs), Stage 1 (Western)						
ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)						
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)						
<b>Waterpipe Laying</b>							
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)						
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)						
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>							
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
<b>PORTION A2</b>							
<b>Portion A2 Structures</b>							
<b>048 - Reclaimed Water Pumping Station, Portion A2</b>							
A04825	Removal of surcharge						
A04830	Sheet Piling as ELS for Basement 1						
A04840	Pile testing						
A04850	Excavation + Blinding for Basement 1						
A04860	Basement 1 Construction						
<b>Retaining Wall W9-2</b>							
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bays)						
<b>External Works for Portion A2</b>							
<b>Drainage Works</b>							
A2S010	Initial Survey						
<b>PORTION B</b>							
<b>Portion B Structures</b>							
<b>Retaining Wall W7-2</b>							
S70870	Construction of Retaining Wall W7-2 (L-shape, 1 bays)						
<b>Retaining Wall W6-1</b>							
S62050	Construction of Retaining Wall W6-1 (L-shape, 4 bays)						
<b>Bay 4 - 19 of CUE/Staff Subway</b>							

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

**THREE MONTH ROLLING PROGRAMME  
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

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Activity ID	Activity Name	2016				2017
		Sep	Oct	Nov	Dec	Jan
C02760	Internal Finishes & Cable Containment (KD1)					
C02770	BS + E&M Installation for ACVSS (Stage 1)					
<b>Bay 20 - 24 of CUE/Staff Subway</b>						
C02820	Bay 20 - 24 Construction - Base Slab					
C02830	Bay 20 - 24 Construction - Wall + Top Slab					
C02840	Internal Finishes & Cable Containment (KD1)					
C02850	BS + E&M Installation for ACVSS (Stage 1)					
C02860	Chilled Water Pipe (CUE) installation					
<b>Bay 25 - 29 of CUE/Staff Subway</b>						
C02920	Bay 25 -29 Construction - Base Slab					
C02930	Bay 25 - 29 Construction - Wall + Top Slab					
C02960	Internal Finishes & Cable Containment (KD1)					
C02970	BS + E&M Installation for ACVSS (KD1)					
C02980	Chilled Water Pipe (CUE) installation					
<b>Portion B Buildings</b>						
<b>027/028 Inbound Kiosks &amp; 029 Outbound Kiosks</b>						
A02700	Submission & Approval for Steel Works					
A02710	Pre-fabrication for the Steel Kiosks					
A02715	Mock up for Steel Kiosks					
A02718	Mock up for Goods Vehicle Canopy					
A02720	Super structure					
A02730	Construction of Subway Entrance					
A02740	Construction of Subway Toilets					
A02780	BS + E&M for AVCSS Works (KD18A)					
<b>027/028 Inbound Kiosks &amp; 029 Outbound Kiosks, Section IX, Subject to Excision</b>						
B02730	Submission & Approval for Steel Works					
B02740	Pre-fabrication for the Steel Kiosks					
B02750	Super structure					
B02760	BS + E&M for AVCSS Works (KD18C)					
<b>026 Inbound IMM and DOH Secondary Screening Building</b>						
A02630	Super Structure					
A02640	Finishing					
A02650	Contractor's Design Submission for SS Mesh Screen & Approval					
A02660	Contractor's Design Submission for Aluminium Cladding & Approval					
A02670	BS for Office Accommodation (Stage 8)					
A02690	Other BS + E&M Installation					
B02610	Lift Installation					
<b>054 Inbound Fixed X-ray Building</b>						
A05455	Superstructure, 1/F to 2/F (incl. parapet wall and planter wall)					
A05460	Finishing					
A05465	BS + E&M for Tx Room to CLP (Stage 5)					
A05467	Energisation by CLP					
A05470	BS for Office Accommodation (Stage 8)					
A05490	Other BS + E&M Installation					
B05410	Lift Installation					
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
F05440	Provision of Approved Building Plans by the Engineer					
<b>Waterworks Ordinance (WSD)</b>						
G05410	Provision of Approval Letter and approved Drawings by the Engineer					
<b>038 AFCD Office</b>						

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

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Activity ID	Activity Name	2016					2017
		Sep	Oct	Nov	Dec	Jan	
A03810	Excavation + Blinding	█					
A03820	Substructure		█	█			
<b>039 Police Main Building</b>							
A03910	Excavation + Blinding	█					
A03920	Substructure	█	█	█			
A03930	Super Structure; G/F to 1/F			█	█	█	
<b>040 Incident Control Tower</b>							
A04010	Excavation + Blinding	█					
A04020	Substructure		█				
A04040	Super Structure			█	█	█	
<b>Facade Cladding System</b>							
B04010	Shop Drawing Submission and Approval			█			
B04020	Fabrication of F/C System				█	█	
<b>Glass Wall</b>							
C04010	Shop Drawing Submission and Approval			█			
C04020	Fabrication of Glass Wall				█	█	
<b>102 HKPF UVSS Monitor Room</b>							
A10205	Excavation + Blinding	█					
A10210	Substructure (Raft Foundation)		█	█	█		
A10220	Super Structure				█	█	
<b>Metal Canopy and Roof Installation</b>							
B10210	Shop Drawing Submission and Approval			█			
B10212	Fabrication of MC/R				█	█	
<b>103 Police Inspection Post</b>							
A10310	Excavation + Blinding		█				
A10330	Raft Foundation		█	█			
A10340	Super Structure (Roof Slabs)			█	█	█	
A10350	Finishing (False Ceiling) (KD9)					█	
A10360	BS for Office Accomodation (Stage 8)					█	
<b>HPL Composite Panel Cladding System</b>							
B10310	Shop Drawing Submission and Approval				█		
<b>057 Transformers (Zone 2)</b>							
A05730	Superstructure	█	█	█	█	█	
<b>Completion of Fire Services Installation and Equipment (FCD)</b>							
F05740	Provision of Approved Building Plans by the Engineer			◆			
<b>Waterworks Ordinance (WSD)</b>							
G05710	Provision of Approval Letter and approved Drawings by the Engineer			◆			
<b>107 - C&amp;ED Mobile X-ray Operation Office (Cargo), Portion B</b>							
C10710	Excavation + Blinding		█				
C10720	Raft Foundation		█	█			
C10730	Superstructure (Roof Slabs)			█	█	█	
<b>113 - Field Kiosk for Access Control, Portion B</b>							
B11310	Excavation + Blinding	█					
B11320	Raft Foundation		█	█			
B11330	Superstructure (Roof Beams & Slabs)			█	█	█	
<b>External Works for Portion B</b>							
<b>Works in Location 1.7A</b>							
BB1480	ELV Works & T&C in Location 1.7A					█	
<b>Works in Location 1.7B</b>							
BB1490	ELV Works & T&C in Location 1.7B					█	

- █ Actual Work
- █ Remaining Work
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Activity ID	Activity Name	2016					2017
		Sep	Oct	Nov	Dec	Jan	
<b>Drainage Works</b>							
ED1540	Drainage Works (1130m & 60 MHs), Stage 1 (S/W)	Actual Work					
ED3580	Sewerage (275m & 8MHs), Stage 1 (S/W)	Actual Work					
ED5650	Drainage Works (1130m & 60MHs), Stage 2 (S/E)	Actual Work	Critical				
ED5660	Sewerage (300m & 8MHs), Stage 2 (S/E)	Actual Work	Critical				
ED5670	Drainage Works (1130m & 60MHs), Stage 3 (N/W)				Critical		
ED5680	Sewerage (300m & 8MHs), Stage 3 (N/W)				Critical		
<b>Waterpipe Laying</b>							
EW1550	Fresh Water Main Laying (472m), Stage 1 (S/W)	Actual Work	Critical				
EW1560	Flushing Water Main Laying (460m), Stage 1 (S/W)	Actual Work	Critical				
EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)				Critical		
EW6090	Flushing Water Main Laying (460m), Stage 2 (S/E)				Critical		
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>							
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV	Actual Work	Critical				
<b>Roadworks</b>							
ER1640	Subbase (10000 ton), Stage 1 (N/W)		Critical				
ER3590	Bitumen Pavement (14000 ton), Stage 1 (N/W)			Critical			
ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (N/W)			Critical			
<b>Sign Gantry ADS 306A &amp; ADS 306B</b>							
ES5230	Submission and approval for Sign Gantry			Remaining Work			
ES5240	Fabrication & Delivery of Sign Gantrys to Site			Remaining Work			
<b>PORTION C</b>							
<b>Portion C Buildings</b>							
<b>009 - Staff Subway Entrance (Bay 0 - 3) &amp; Shuttle Bus Kiosks</b>							
A00930	Constructing Wall + Top Slab of Bay 0 -3	Actual Work	Critical				
A00940	Finishing			Critical			
A00950	BS + E&M for AVCSS works (KD 1)			Critical			
B00910	Substructure and Staircase Construction (Portion B&C)				Critical		
<b>104 - DOH Secondary Screening Station, at Portion C</b>							
<b>Facade Cladding System</b>							
A10460	Shop Drawing Submission and Approval			Remaining Work			
A10465	Fabrication of F/C System			Remaining Work			
<b>External Works for Portion C</b>							
<b>Works in Location 1.2, 1.8 &amp; 011 - Emergency Generator Building</b>							
BB1440	Works & T&C in Location 1.2			Remaining Work			
BB1460	ELV System Installation for Contract HY/2013/01			Remaining Work			
<b>PORTION D</b>							
<b>Portion D Building</b>							
<b>113 - Field Kiosk for Access Control, Portion D</b>							
C11350	Excavation & Blinding	Actual Work					
C11360	Raft Foundation		Critical				
C11370	Superstructure (Roof Beams & Slabs)			Critical			
D11340	BS for Office Accomodation (Stage 8)				Critical		
<b>External Works for Portion D</b>							
<b>Drainage Works</b>							
B00050	Initial Survey		Critical				
SG3640	Drainage Works (361m & 14MHs)				Critical		
SG3760	Sewerage (121m & 6MHs)				Critical		
<b>Waterpipe Laying</b>							

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SW3650	Fresh Water Main Laying (108m)						
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>							
B11480	ELV System Installation for Contract HY/2013/02						
SU5340	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5350	Duct & Cable Laying for TCSS & Lighting						
<b>Works of Car Park Management System at Location 1.5, 1.6A &amp; 1.6B</b>							
SR5540	Works & T&C for Car Park Management System at Location 1.5						
<b>PORTION E</b>							
<b>Portion E Building</b>							
<b>006 - Shuttle Bus Kiosk &amp; Staff Subway Entrance, at Portion E &amp; M</b>							
A00610	ELS + Blinding for Subway						
A00620	Constructing base of Subway						
A00630	Constructing wall stem + top slab of Subway						
<b>External Works for Portion E</b>							
<b>Drainage Works</b>							
B00060	Initial Survey						
<b>PORTION G, H1 &amp; H2</b>							
<b>Portion G Structures</b>							
<b>Box Culvert C</b>							
<b>Steel H Pile</b>							
SC0240	Removal of surcharge						
SC0250	Sheeting Piling for (approx 150m long), Stage 1						
SC0260	Box C - 67 nos. of driven H pile, Stage 1						
SC0270	Box C - 38 nos. of driven H pile, Stage 2						
SC0280	Box C - 54 nos. of driven H pile, Stage 3						
<b>Box Culvert Structure</b>							
SC0310	Box C - Branch Construction						
SC0320	Box C - Branch Backfilling						
SC0380	Box C - Construction of Main Body						
<b>Bridge A1</b>							
<b>Bored Pile</b>							
SA1130	Bore pile for other 2 nos. (A106)						
SA1140	Pile Testing						
<b>Pile Cap</b>							
SA1210	Cap - A106						
<b>Pier &amp; Abutment</b>							
SA1310	Abutment A106						
SA1350	Pier P105						
<b>Structure Deck</b>							
SA1420	Deck on P103 & P104 + Stressing						
SA1440	Deck on P102, P103 + Stressing						
SA1470	Falsework for Deck P104, P105						
SA1480	Deck on P104, P105 + Stressing						
<b>Bridge A2</b>							
<b>Structure Deck</b>							
SA2440	Deck on P202, P203, P601 + Stressing						
<b>Bridge A3</b>							
<b>Bored Pile</b>							
SA3160	Pile Testing for P304a/b						

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		Sep	Oct	Nov	Dec	Jan	
<b>Pile Cap</b>							
SA3220	Cap - P304a/b						
SA3230	Cap - P302						
SA3240	Cap - P303						
SA3250	Cap - A305						
<b>Pier &amp; Abutment</b>							
SA3320	Pier P304a, P304b						
SA3330	Abutment A305						
SA3340	Pier P302						
SA3350	Pier P303						
<b>Structure Deck</b>							
SA3410	Falsework for Deck P301 - P302						
SA3420	Deck on P301 - P302 + Stressing						
SA3430	Falsework for Deck P302 - P303						
<b>Bridge A4</b>							
<b>Bored Pile</b>							
SA4130	Pile Testing						
<b>Pile Cap</b>							
SA4210	Cap - P401						
SA4220	Cap - P402						
<b>Pier &amp; Abutment</b>							
SA4310	Pier P401						
SA4320	Pier P402						
<b>Structure Deck</b>							
SA4410	Falsework for Deck P502b, P401						
<b>Bridge A5</b>							
<b>Bored Pile</b>							
SA5150	Pile Testing for A503 & P506						
SA5160	Pile Testing for A501 & P502a/b, P507						
<b>Pile Cap</b>							
SA5210	Cap - P504						
SA5220	Cap - P505						
SA5230	Cap - P503						
SA5240	Cap - P506						
SA5250	Cap - A501						
SA5260	Cap - P502a/b						
SA5270	Cap - P507						
<b>Pier &amp; Abutment</b>							
SA5310	Pier P504						
SA5320	Pier P505						
SA5330	Pier P503						
SA5340	Pier P506						
SA5350	Pier P507						
SA5360	Pier P502a/b						
SA5370	Abutment A501						
<b>Structure Deck</b>							
SA5410	Falsework for Deck P504 - P505						
SA5420	Deck on P504, P505 + Stressing						
<b>Bridge A6</b>							
<b>Pile Cap</b>							

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SA6270	Cap - A607/711	[Blue bar]				
<b>Pier &amp; Abutment</b>						
SA6330	Pier P603					
SA6370	Abutment A607	[Red bar]				
<b>Structure Deck</b>						
SA6400	Falsework for Deck P601, P602	[Red bar]				
SA6410	Deck on P601, P602 + Stressing	[Red bar]				
SA6420	Falsework for Deck P602, P603	[Red bar]				
SA6430	Deck on P602, P603 + Stressing	[Red bar]				
<b>Bridge A7a, A7b, A7c</b>						
<b>Bored Pile</b>						
SA7160	Bore Piling for A701, P702 - P705, 10 Nr.	[Green bar]				
SA7230	Pile Testing for A701, P702, P703	[Green bar]				
<b>Pile Cap</b>						
SA7340	Cap for P704	[Blue bar]				
SA7350	Cap for P705	[Blue bar]				
SA7360	Cap for P702	[Green bar]				
SA7370	Cap for P703	[Green bar]				
SA7380	Cap for A701	[Green bar]				
<b>Pier &amp; Abutment</b>						
SA7540	Pier P704	[Blue bar]				
SA7550	Pier P705	[Blue bar]				
SA7560	Pier P702	[Green bar]				
SA7570	Pier P703	[Green bar]				
SA7620	Pier P710	[Green bar]				
SA7650	Abutment A711	[Red bar]				
<b>Structure Deck</b>						
SA7710	Falsework for Deck P706, P707, P712 (A7b)	[Blue bar]				
SA7720	Deck on P706, P707 & P712 (Bridge A7b) + Stressing	[Red bar]				
SA7730	Falsework for Deck P705 - P706	[Green bar]				
SA7740	Deck on P705 & P706 (Bridge A7a) + Stressing	[Green bar]				
SA7750	Falsework for Deck P704, P705	[Green bar]				
SA7850	Falsework for Deck P707, P708 (A7c)	[Red bar]				
SA7860	Deck on P707, P708 (Bridge A7c) + Stressing	[Red bar]				
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works	[Green bar]				
<b>Bridge A8</b>						
<b>Pile Cap</b>						
SA8210	Cap - Abutment A804	[Blue bar]				
SA8220	Cap for P802	[Blue bar]				
SA8230	Cap for P803	[Blue bar]				
<b>Pier &amp; Abutment</b>						
SA8310	Abutment A804	[Green bar]				
SA8320	Pier P802	[Green bar]				
SA8330	Pier P803	[Green bar]				
<b>Structure Deck</b>						
SA8410	Falsework for Deck P801, P802	[Green bar]				
SA8420	Deck on P802, P802 + Stressing	[Green bar]				
<b>Retaining Walls W1-1, W3-1, W5-1 &amp; W7-1</b>						
<b>Retaining Wall W3-1</b>						
SW3130	Bored Pile for W3-1, 16 Nr.	[Red bar]				

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<b>Retaining Wall W5-1</b>							
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)						
<b>Portion G Buildings</b>							
<b>033 Inbound Private Car Exam Building</b>							
A03320	Super Structure						
A03330	Finishing						
A03360	External Works						
A03370	BS for Office Accomodation (Stage 8)						
A03390	Other BS + E&M Installation						
<b>Glass Canopy Installation</b>							
B03300	Shop Drawing Submission and Approval						
B03305	Fabrication of Glass Canopy						
B03350	Casted-in Items Installation						
<b>Aluminium Metal Canopy</b>							
B03310	Shop Drawing Submission and Approval						
B03315	Fabrication of F/C System						
B03320	Casted-in Items Installation						
<b>034 Satellite RCP South</b>							
A03430	Raft Foundation						
A03440	Super Structure (Roof Beams & Slabs)						
A03450	Finishing						
A03460	BS for Office Accomodation (Stage 8)						
A03480	Other BS + E&M Installation						
<b>S S Facade Greenery System</b>							
B03410	Shop Drawing Submission for Approval						
B03415	Fabrication of SS F/G System						
<b>035 - Sewage Pumping Station, Portion G</b>							
A03540	Sheet Piling as ELS for Wet Well						
A03560	ELS + Blinding for Wet Well						
A03570	Constructing of Base Slab of Wet Well						
A03580	Constructing of Wall Stem of Wet Well						
A03590	Water-tightness Test for Wet Wells						
B03510	Backfilling + Removal of ELS						
<b>051 Transformers (Zone 5)</b>							
A05150	Finishing						
A05165	Energisation by CLP						
A05170	BS for Office Accommodations (KD9)						
A05180	BS + E&M for Office Accommodation (KD10)						
A05190	Other BS + E & M Installation						
<b>Completion of Fire Services Installation and Equipment (FCD)</b>							
F05140	Provision of Approved Building Plans by the Engineer						
<b>Waterworks Ordinance (WSD)</b>							
G05120	Submission of WWO46 - Part I & II (Inside Services)						
<b>100 Inbound Traffic Control Kiosk</b>							
A10000	Excavation + Blinding						
A10010	Raft Foundation						
A10040	Super Structure (Roof Beams & Slabs)						
A10050	Finishing						
A10070	BS + E&M for AVCSS Works (KD18A)						
<b>HPL Composite Panel Cladding System</b>							

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B10010	Shop Drawing Submission and Approval						
B10015	Fabrication of F/C System						
<b>112 Field Kiosk for Taxi Queuing Area</b>							
A35200	Excavation + Blinding						
A35210	Foundation						
A35220	Structure						
A35230	Finishing						
B11520	BS + E & M Installation						
<b>External Works for Portion G, H1 &amp; H2</b>							
<i>Works within Portion H1 &amp; H2 except the ELV Works in the Hong Kong Side PTI</i>							
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)						
<i>All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050</i>							
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050						
<b>Drainage Works</b>							
AS0080	Initial Survey						
ED4070	Drainage Works (6954m & 393MHs)						
ED4190	Sewerage (437m & 12MHs)						
<b>Sign Gantry DS40, DS41 &amp; DS75</b>							
ES0020	Sign Gantry DS40 Pre-bored H Piling, 12 Nr.						
ES0040	Sign Gantry DS41 Driven Piling 4 Nr.						
ES0080	Testing for Pre-bored H Piling						
ES0170	Submission and approval for Sign Gantry						
ES0180	Fabrication & Delivery of Sign Gantrys to Site						
<b>Canopy and Covered Walkway</b>							
CC1310	Shop drawing, Approved & Fabrication						
<b>PORTION J</b>							
<b>Portion J Structure</b>							
<i>Bay 30 - 41 of CUE/Staff Subway (Portion J)</i>							
B03040	Bay 30 - 33 Construction - Base Slab						
B03050	Bay 30 - 33 Construction - Wall + Top Slab						
B03210	ELS + blinding (Bay 34 - 41) (8 bay)						
B03220	Bay 34 - 39 Construction - Base Slab						
B03230	Bay 34 - 39 Construction - Wall + Top Slab, Staircase						
B03240	Bay 40 - 41 Construction - Base Slab						
B03250	Bay 40 - 41 Construction - Wall + Top Slab, Staircase						
<b>030 Outbound Private Car &amp; GV Kiosks</b>							
A03010	Submission & Approval for Steel Works						
A03020	Pre-fabrication for the Steel Kiosks						
<b>030 Outbound Kiosks, Section IX, Subject to Excision</b>							
C03010	Submission & Approval for Steel Works						
C03020	Pre-fabrication for the Steel Kiosks						
<b>Portion J Buildings</b>							
<b>024 Outbound Private Car Exam Building</b>							
A02400	Excavation + Blinding						
A02410	Raft Foundation						
A02420	Super Structure						
<b>Glass Canopy Installation</b>							
B02410	Shop Drawing Submission and Approval						

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B02415	Fabrication of F/C System						
<b>Aluminium Metal Canopy</b>							
B02450	Shop Drawing Submission and Approval						
B02455	Fabrication of F/C System						
<b>031 Outbound IMMD and DOH Secondary Screen Building</b>							
A03100	Excavation + Blinding (+ PL Test)						
A03110	Raft Foundation						
A03140	Super Structure						
<b>060 - Single Storey Support Building Associated with Buildings 044 &amp; 045</b>							
<b>Waterworks Ordinance (WSD)</b>							
G06020	Submission of WWO46 - Part I & II (Inside Services)						
<b>061 Telecom Building</b>							
A06120	Excavation + Blinding						
A06130	Raft Foundation						
A06140	Super Structure						
A06150	Finishing (KD9)						
A06160	BS for Office Accommodations (KD9)						
<b>Aluminium Metal Canopy</b>							
B06110	Shop Drawing Submission and Approval						
<b>101 Outbound Traffic Control Kiosk</b>							
A10100	Excavation + Blinding						
A10110	Raft Foundation						
A10130	Super Structure (Roof Beams & Slabs)						
A10140	Finishing						
A10150	BS + E&M for AVCSS Works (KD18A)						
A10160	BS + E&M for AVCSS Cabling (KD18B)						
A10170	BS for Office Accommodations (KD9)						
A10190	Other BS + E & M Installation						
<b>HPL Composite Panel Cladding System</b>							
B10110	Shop Drawing Submission and Approval						
B10120	Fabrication of HPL Cladding						
<b>External Works for Portion J</b>							
<b>Works in Location 1.7B</b>							
EU1500	ELV Works & T&C in Location 1.7B						
<b>Works in Location 1.7C</b>							
EU1530	ELV Works & T&C in Location 1.7C						
<b>Drainage Works</b>							
AS0110	Initial Survey						
ED4220	Drainage Works (1700m & 86MHs), Stage 1 (Northern)						
ED4340	Sewerage (425m & 11MHs), Stage 1 (Northern)						
<b>Waterpipe Laying</b>							
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)						
EW4240	Flushing Water Main Laying (431m), Stage 1 (Northern)						
<b>Sign Gantry DS104</b>							
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.						
ES5140	Submission and approval for Sign Gantry						
ES5150	Fabrication & Delivery of Sign Gantrys to Site						
<b>PORTION K, L, M, S &amp; T</b>							
<b>Portion M Buildings</b>							

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<b>108 - C&amp;ED Mobile X-ray Operation Office, Portion M</b>							
<b>HPL Composite Panel Cladding System</b>							
C10810	Shop Drawing Submission and Approval						
C10820	Fabrication of HPL Cladding						
<b>104 DOH Screening Station, at Portion M</b>							
<b>Facade Envelop Structure Installation</b>							
D10450	Shop Drawing Submission and Approval						
D10455	Fabrication of F/C System						
<b>External Works</b>							
<b>Additional Works (Filling &amp; RE Slope), SA1</b>							
ED3110	Design of RE Slope						
ED3120	Approval of RE Slope by GEO/AECOM						
ED3210	C1 Contractor to Completed cooling mains at east Portion (Stage1)						
ED3220	Removal of Access & Form another Temp. Access for Cooling Main						
ED3240	Fill Platform from +11.5PD to +13.5mPD						
ED3250	Add surcharge to Platform at +14.5mPD						
ED3260	Consolidation of fill at the Platform						
ED3270	Remove surcharge at the edge of Platform (North, Portion S, KD32)						
ED3280	Remove surcharge at the Platform (East, Portion T, KD33)						
ED3310	C1 Contractor to Complete Footbridge Supports at the South Portion						
ED3320	Fill Platform from +11.5PD to near PCB (South)						
ED3330	Add surcharge to Platform at +14.5mPD near PCB (South)						
ED3340	Consolidation of fill at the Platform (South)						
ED3410	C2 Contractor to complete abutment at the North (2 nos.)						
ED3420	Fill Slope around C2 abutments						
<b>Canopy and Covered Walkway</b>							
CC1400	Shop drawing, Approved & Fabrication						
<b>PORTION N</b>							
<b>Portion N Structure</b>							
<b>Box Culvert B</b>							
<b>Bored Pile</b>							
SB0510	Additional pre-drill						
SB0540	Preliminary piles						
SB0550	Loading Test						
SB0560	Install H-piles						
SB0590	Box B - Bore Pile (14 nos.)						
<b>Box Culvert Structure</b>							
SB0710	Box B - Construction (Stage 1)						
SB0715	Handover from RC (1/11/16)						
SB0722	Box B - Temporary Works for Construction of Outfall Structure						
<b>Portion N Buildings</b>							
<b>104 DOH Screening Station, at Portion N</b>							
C10405	Excavation + Blinding						
C10410	Structure (Raft Foundation)						
C10420	Finishing						
E10410	BS for Office Accommodations (KD9)						
E10430	Other BS + E & M Installation						
<b>Facade Envelop Structure Installation</b>							
D10410	Shop Drawing Submission and Approval						

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

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Activity ID	Activity Name	2016				2017
		Sep	Oct	Nov	Dec	Jan
D10415	Fabrication of F/C System					
<b>106 C&amp;ED Detention Area Guard Booth</b>						
A10600	Excavation + Blinding					
A10610	Structure (Raft Foundation)					
A10640	Finishing					
E10640	BS for Office Accommodations (KD9)					
E10660	Other BS + E & M Installation					
<b>Facade Envelop Structure Installation</b>						
B10610	Shop Drawing Submission and Approval					
<b>107 C&amp;ED Mobile X-ray Operation Office, Portion N</b>						
A10700	Excavation + Blinding					
A10710	Substructure (Raft Foundation)					
A10740	Super Structure					
<b>External Works for Portion N</b>						
<b>Works in Location 1.7A</b>						
EU1540	ELV Works & T&C in Location 1.7A					
<b>Drainage Works</b>						
AS0150	Initial Survey					
ED4620	Drainage Works (964m & 56MHs), Stage 1 (Southern)					
ED4650	Sewerage (383m & 12MHs), Stage 1 (Southern)					
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
EU5470	Duct & Cable Laying for TCSS & Lighting					
<b>PORTION P</b>						
<b>Portion Structure</b>						
<b>Retaining Wall RW1</b>						
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)					
<b>Portion P Buildings</b>						
<b>105 IMMD Guard Booth, Portion P</b>						
<b>Facade Envelop Structure Installation</b>						
A10560	Shop Drawing Submission and Approval					
A10565	Fabrication of F/C System					
<b>External Works for Portion P</b>						
<b>Drainage Works</b>						
AS0160	Initial Survey					
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
EU5490	Duct & Cable Laying for TCSS & Lighting (KD15)					
<b>PORTION Q</b>						
<b>External Works for Portion Q</b>						
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
ED5570	Duct & Cable Laying for Utilities/Telecom					
ED5580	Duct & Cable Laying for TCSS & Lighting					
EU1490	ELV System Installation for Contract HY/2013/04					
<b>Roadworks</b>						
AS0170	Initial Survey					
ER4920	Subbase (104 ton)					
ER4950	Bitumen Pavement (215 ton)					
<b>Railing</b>						
ER4890	Railing					

- Actual Work
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Activity ID	Activity Name	2016				2017
		Sep	Oct	Nov	Dec	Jan
<b>Road Furniture</b>						
ER4900	Road Furniture					
<b>Landscape Works</b>						
A5170	Design and Procurement for Irrigation System					

- Actual Work
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		Oct	Nov	Dec	Jan	Feb
<b>HKBCF - VCP &amp; Ancillary Buildings and Facilities, DWP Rev. 3, DD 31 Oct. 16</b>						
<b>CONTRACT DATES</b>						
<b>Key Dates</b>						
A1150	KD15 Achievement of Stage 14 of the Works (548 days; 08 Oct. 16)					◆ KD15 Achievement of Stage 14 of the Works (548 days; 08 Oct. 16)
A1320	KD32 Achievement of Section IV(b) of the Works (646 days; 15 Jan. 17)					◆ KD32 Achievement of Section IV(b) of the Works (646 days; 15 Jan. 17)
A1330	KD33 Achievement of Section IV(c) of the Works (646 days; 15 Jan. 17)					◆ KD33 Achievement of Section IV(c) of the Works (646 days; 15 Jan. 17)
<b>Site Access &amp; Possession</b>						
<b>Possession of Portion of Site</b>						
A0030	Possession of Portion B (<=100 days)		◆ Possession of Portion B (<=100 days)			
A0040	Possession of Portion C (<=100 days)				◆ Possession of Portion C (<=100 days)	
A0050	Possession of Portion D (<=220 days)	◆ Possession of Portion D (<=220 days)				
A0070	Possession of Portion F (<=220 days)				◆ Possession of Portion F (<=220 days)	
A0080	Possession of Portion G (<=225 days)	◆ Possession of Portion G (<=225 days)				
A0110	Possession of Portion J (<=320 days)		◆ Possession of Portion J (<=320 days)			
A0150	Possession of Portion N (<=345 days)		◆ Possession of Portion N (<=345 days)			
A0160	Possession of Portion P (<=502 days)		◆ Possession of Portion P (<=502 days)			
A0170	Possession of Portion Q (<=500 days)		◆ Possession of Portion Q (<=500 days)			
A0180	Possession of Portion R (<=610 days)				◆ Possession of Portion R (<=610 days)	
<b>Access to Locations of the Site</b>						
A0210	Contract Date for Access to Location 1.1 (490 days)		◆ Contract Date for Access to Location 1.1 (490 days)			
A0220	Contract Date for Access to Location 1.2 (405 days)		◆ Contract Date for Access to Location 1.2 (405 days)			
A0230	Contract Date for Access to Location 1.3 (488 days)		◆ Contract Date for Access to Location 1.3 (488 days)			
A0240	Contract Date for Access to Location 1.4 (488 days)		◆ Contract Date for Access to Location 1.4 (488 days)			
A0250	Contract Date for Access to Location 1.5 (580 days)		◆ Contract Date for Access to Location 1.5 (580 days)			
A0280	Contract Date for Access to Location 1.7A (610 days)				◆ Contract Date for Access to Location 1.7A (610 days)	
A0290	Contract Date for Access to Location 1.7B (610 days)				◆ Contract Date for Access to Location 1.7B (610 days)	
A0300	Contract Date for Access to Location 1.7C (610 days)				◆ Contract Date for Access to Location 1.7C (610 days)	
A0310	Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)		◆ Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)			
A0320	Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)		◆ Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)			
A0330	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)		◆ Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)			
A0340	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)		◆ Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)			
A0350	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)		◆ Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)			
<b>Section/Stage Subject to Excision</b>						
A0770	Contract Date for Section VI (650 days, latest date when the Engineer may order)					◆ Contract Date for Section VI (650 days, latest date when the Engineer may order)
A0780	Contract Date for Section VII (650 days, latest date when the Engineer may order)					◆ Contract Date for Section VII (650 days, latest date when the Engineer may order)
<b>PRELIMINARY</b>						
<b>Precast Yard for Bridge Segement</b>						
A0630	Segment Manufacture					
<b>PORTION A1</b>						
<b>Portion A1 Structures</b>						
<b>Bridge A9</b>						
<b>Bored Pile</b>						
SA9120	Bored pile for A9 Bridge, 10 no.					
SA9140	Pile testing					
<b>Pile Cap</b>						

█ Actual Work  
█ Remaining Work  
█ Critical  
◆ Milestone

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		Oct	Nov	Dec	Jan	Feb
SA9210	Cap - A905		█			
SA9220	Cap - P904		█			
SA9230	Cap - P903		█			
SA9240	Cap - P902		█			
SA9250	Cap - A901		█			
<b>Pier &amp; Abutment</b>						
SA9310	Abutment A905			█		
SA9320	Pier P904			█		
SA9330	Pier P903			█		
SA9340	Pier P902			█		
SA9350	Abutment A901			█		
<b>Structure Deck</b>						
SA9400	Falsework for Deck A905 - P904				█	
SA9430	Falsework for Deck P903 - P902				█	
<b>Retaining Wall W8-1</b>						
SW8110	Construction of Retaing Wall W8-1 (U-shape, 4 bays)	█	█	█	█	█
<b>Retaining Wall W9-1</b>						
SW9110	Construction of Retaining Wall W9-1 (U-shape, 4 bays) (+PL Test)	█	█	█	█	█
<b>Box Culvert D</b>						
<b>Box Culvert D Construction</b>						
SD0140	Box Culvert D Construction (Stage 1, Bay 33 - 35)	█				
SD0150	Box Culvert D Construction (Stage 2, Bay 36 - 38)	█	█			
SD0160	Box Culvert D Construction (Stage 3, Bay 39 - 42)	█	█			
SD0170	Box Culvert D Construction (Stage 4, Bay 19 - 21 & 24 - 32)	█	█	█	█	
SD0180	Box Culvert D Backfilling				█	
<b>047 - Fresh Water Pumping Station, Portion A1 &amp; A2</b>						
A04720	Excavation + Blinding		█			
A04730	Pile Testing		█			
A04740	Water Tank Construction			█	█	█
<b>049 - Sewage Treatment Plant, Portion A1 &amp; A2</b>						
A04946	Excavation to 0.0mPD/+4.9mPD	█	█			
A04948	Pile Testing	█				
A04950	Sheet Piling as ELS1 for Equalization Tanks	█	█			
A04960	Sheet Piling as ELS2 for Sludge Holding Tanks		█	█		
B04960	ELS1 + Blinding for Equalization Tanks		█			
B04970	Constructing Base Slab for Equalization Tanks		█			
B04980	Backfilling + Removing 3rd Strut of ELS1		█			
B04990	Constructing Wall Stem for Equalization Tanks			█	█	
C04910	Water-tightness Test for Equalization Tanks				█	
C04920	Backfilling + Removal of ELS1				█	
C04930	ELS2 + Blinding for Equalization Tanks		█			
C04940	Constructing Base Slab of Equalization Tanks		█	█		
C04950	Backfilling + Removal Strut of ELS2			█		
C04960	Constructing Wall Stem of Sludge Holding Tanks			█	█	
C04970	Water-tightness Test for Sludge Holding Tanks				█	
C04990	Backfilling + Removal of ELS2				█	
D04910	ELS3 w/struts + Blinding for MBR Tanks	█	█			
D04920	Constructing Base Slab for MBR Tanks		█			
D04930	Constructing Wall Stem for MBR Tanks			█	█	
D04940	Water-tightness Test for MBR Tanks				█	

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D04950	Backfilling + Removal of ELS3					
D04955	Excavation + Blinding for Ground Slab, Transformer Room	█				
D04960	Constructing Ground Slab for Transformer Room	█	█			
D04970	Transformer Room Construction		█	█		
D04980	BS + E&M for Transformer Room to CLP (KD7)				█	█
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
F04950	Provision of Approved Building Plans by the Engineer		◆			
<b>Waterworks Ordinance (WSD)</b>						
G04910	Provision of Approval Letter and approved Drawings by the Engineer		◆			
G04920	Submission of WWO46 - Part I & II (Inside Services)		█			
<b>Portion A1 Buildings</b>						
<b>012 - DOH Disinsection Area and Store Room 1, at Portion A1</b>						
A01250	Finishing	█	█	█	█	
A01260	BS for Office Accomodation (Stage 8)	█	█	█	█	
A01270	BS + E&M for Office Accomodation (Stage 9)				█	█
A01280	Other BS + E&M Installation		█	█	█	
<b>036 - Weigh Station</b>						
A03665	External Wall Plaster & Tile	█	█	█		
A03670	BS for Office Accomodation (Stage 8)	█				
A03680	BS + E&M for Office Accomodation (Stage 9)	█	█	█		
A03690	Other BS + E&M Installation	█	█	█	█	
B03620	WWO 46 Part I & II Submission			◆		
B03640	Plumbing Inspection by WSD				█	█
<b>037 C&amp;ED Tower Cum Inbound Cargo Examination Building (Portion A1 &amp; B)</b>						
A03738	DDA Submission/Approval for Curtain Wall/Metal Roof/Alum. Cladding	█	█			
A03740	Steel Frame Structure Installation		█	█	█	
A03742A	Mock-up Sample for Curtain Wall			█	█	
A03742B	Mock-up Sample for Cladding			█	█	
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade		█	█		
A03742D	Mock-up Sample for Painted Concrete Wall	█	█	█		
A03742F	Mock-up Sample for External Wall Tiling		█	█		
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation					█
A03746	Blockwall Laying	█	█	█	█	
A03748	Wall/Ceiling Plastering/Tiling	█	█	█	█	
A03752	Floor Screed/Tiling		█	█	█	
A03760	BS for Office Accomodation (Stage 8)	█	█	█	█	
A03770	BS + E&M for Office Accomodation (Stage 9)				█	█
A03780	BS + E&M for AVCSS Works (KD18A)	█				
A03785	BS + E&M for AVCSS Cabling (KD18B)	█	█	█	█	
A03790	Other BS + E&M Installation	█	█	█	█	
B03720	WWO 46 Part I & II Submission			◆		
<b>041 Fire Station Cum Ambulance Depot</b>						
A04110	Substructure	█	█	█	█	
A04120	Super Structure, G/F to 1/F	█	█	█	█	
A04122	Super Structure, 1/F to 2/F (incl. parapet wall and planter wall)	█	█	█	█	
A04124	DDA Submission/Approval for Cladding & Curtain Wall	█	█			
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)			█	█	█
A04132	Blockworks				█	█
A04133	Ceiling & Wall Plastering/Wall Tiling				█	█
A04140	BS for Office Accomodation (Stage 8)				█	█

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A04160	Other BS + E&M Installation				[Green bar]	
B04120	WVO 46 Part I & II Submission		◆ WWO 46: Part I & II Submission			
<b>042 Drill Tower</b>						
A04250	Super Structure	[Blue bar]				
A04260	Finishing		[Blue bar]	[Green bar]		
A04270	BS for Office Accomodation (Stage 8)		[Blue bar]	[Red bar]		
A04280	BS + E&M for Office Accomodation (Stage 9)				[Red bar]	
A04290	Other BS + E&M Installation		[Green bar]	[Green bar]		
<b>043 DOH Office + Store Room</b>						
A04330	Super Structure	[Blue bar]	[Red bar]			
A04340	Water Tanks for F.S./Sprinkler Pump Room				[Red bar]	
A04360	DDA Submission for Cladding & Curtain Wall	[Blue bar]				
A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)				[Green bar]	
A04380	BS for Office Accomodation (Stage 8)				[Red bar]	
B04310	Other BS + E&M Installation			[Green bar]	[Green bar]	
B04330	Stainless Steel Mesh Installation				[Green bar]	
B04340	Metal Windows/Louvres/Doors/Railing etc. installation				[Green bar]	
B04350	Blockworks				[Green bar]	
B04360	Wall Plastering/Tiling				[Green bar]	
C04310	C/S Wall Plastering				[Green bar]	
C04340	WVO 46 Part I & II Submission			◆ WWO 46: Part I & II Submission		
<b>052 - Transforms (Zone 4)</b>						
A05235	Energisation by CLP	[Blue bar]	[Green bar]			
A05240	BS + E&M Installation (KD9)	[Blue bar]				
A05250	Ceiling/Wall Painting Finish & Floor Screed	[Blue bar]	[Red bar]			
A05260	External Wall Plaster & Wall (KD10)				[Red bar]	
A05270	Main Switch/L.V. Switch Board Installation				[Green bar]	
A05280	Genset Installation				[Green bar]	
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
F05240	Provision of Approved Building Plans by the Engineer			◆ Provision of Approved Building Plans by the Engineer		
<b>Waterworks Ordinance (WSD)</b>						
G05210	Provision of Approval Letter and approved Drawings by the Engineer			◆ Provision of Approval Letter and approved Drawings by the Engineer		
<b>105 IMMD Guard Booth, Portion A1 (Mock Up)</b>						
B10500	Shop Drawings & Material Submission			[Red bar]		
B10510	Excavation + Blinding					[Red bar]
<b>Facade Envelop Structure Installation</b>						
B10580	Shop Drawing Submission and Approval			[Green bar]		
B10590	Fabrication of F/C System				[Green bar]	
<b>External Works for Portion A1</b>						
<b>Drainage Works</b>						
ED0020	Drainage Works (773m & 34MHs), Stage 1 (Western)	[Blue bar]	[Red bar]			
ED0030	Sewerage (300m & 9MHs), Stage 1 (Western)	[Blue bar]	[Red bar]			
ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)			[Red bar]	[Red bar]	
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)			[Red bar]	[Red bar]	
<b>Waterpipe Laying</b>						
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)	[Blue bar]	[Red bar]	[Red bar]	[Red bar]	
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)	[Blue bar]	[Red bar]	[Red bar]	[Red bar]	
EW6020	Fresh Water Main Laying (700 m), Satge 2 (Middle)					[Red bar]
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)					[Red bar]
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						

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EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
<b>PORTION A2</b>						
<b>Portion A2 Structures</b>						
<b>048 - Reclaimed Water Pumping Station, Portion A2</b>						
A04830	Sheet Piling as ELS for Basement 1					
A04840	Pile testing					
A04850	Excavation + Blinding for Basement 1					
A04860	Basement 1 Construction					
<b>Retaining Wall W9-2</b>						
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)					
<b>External Works for Portion A2</b>						
<b>Drainage Works</b>						
A2S010	Initial Survey					
<b>PORTION B</b>						
<b>Portion B Structures</b>						
<b>Retaining Wall W7-2</b>						
S70870	Construction of Retaining Wall W7-2 (L-shape, 1 bays)					
S70890	RW7-2 Backfilling					
<b>Retaining Wall W6-1</b>						
S62050	Construction of Retaining Wall W6-1 (L-shape, 4bays)					
S62060	RW6-1 Backfilling					
<b>Bay 4 - 19 of CUE/Staff Subway</b>						
C02760	Internal Finishes & Cable Containment (KD1)					
C02770	BS + E&M Installation for AVCSS (Stage 1)					
C02780	Chilled Water Pipe (CUE) installation					
<b>Bay 20 - 24 of CUE/Staff Subway</b>						
C02820	Bay 20 - 24 Construction - Base Slab					
C02830	Bay 20 - 24 Construction - Wall + Top Slab					
C02840	Internal Finishes & Cable Containment (KD1)					
C02850	BS + E&M Installation for AVCSS (Stage 1)					
C02860	Chilled Water Pipe (CUE) installation					
<b>Bay 25 - 29 of CUE/Staff Subway</b>						
C02920	Bay 25 - 29 Construction - Base Slab					
C02930	Bay 25 - 29 Construction - Wall + Top Slab					
C02960	Internal Finishes & Cable Containment (KD1)					
C02970	BS + E&M Installation for AVCSS (KD1)					
C02980	Chilled Water Pipe (CUE) installation					
<b>Portion B Buildings</b>						
<b>027/028 Inbound Kiosks &amp; 029 Outbound Kiosks</b>						
A02700	Submission & Approval for Steel Works					
A02710	Pre-fabrication for the Steel Kiosks					
A02715	Mock up for Steel Kiosks					
A02718	Mock up for Goods Vehicle Canopy					
A02720	Super structure					
A02730	Construction of Subway Entrance					
A02740	Construction of Subway Toilets					
A02780	BS + E&M for AVCSS Works (KD18A)					
<b>027/028 Inbound Kiosks &amp; 029 Outbound Kiosks, Section IX, Subject to Excision</b>						
B02740	Pre-fabrication for the Steel Kiosks					

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B02750	Super structure					
B02760	BS + E&M for AVCSS Works (KD18C)					
<b>026 Inbound IMMD and DOH Secondary Screening Building</b>						
A02630	Super Structure					
A02640	Finishing					
A02650	Contractor's Design Submission for SS Mesh Screen & Approval					
A02660	Contractor's Design Submission for Aluminium Cladding & Approval					
A02670	BS for Office Accomodation (Stage 8)					
A02690	Other BS + E&M Installation					
<b>054 Inbound Fixed X-ray Building</b>						
A05455	Superstructure, 1/F to 2/F (incl. parapet wall and planter wall)					
A05460	Finishing					
A05467	Energisation by CLP					
A05470	BS for Office Accomodation (Stage 8)					
A05490	Other BS + E&M Installation					
B05410	Lift Installation					
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
F05440	Provision of Approved Building Plans by the Engineer					
<b>Waterworks Ordinance (WSD)</b>						
G05410	Provision of Approval Letter and approved Drawings by the Engineer					
<b>038 AFCD Office</b>						
A03820	Substructure					
A03830	Super Structure; G/F to 1/F					
A03840	Super Structure; 1/F to 2/F (incl. parapet and planter wall)					
<b>039 Police Main Building</b>						
A03920	Substructure					
A03930	Super Structure; G/F to 1/F					
<b>040 Incident Control Tower</b>						
A04020	Substructure					
A04040	Super Structure					
<b>Facade Cladding System</b>						
B04010	Shop Drawing Submission and Approval					
B04020	Fabrication of F/C System					
<b>Glass Wall</b>						
C04010	Shop Drawing Submission and Approval					
C04020	Fabrication of Glass Wall					
<b>102 HKPF UVSS Monitor Room</b>						
A10210	Substructure (Raft Foundation)					
A10220	Super Structure					
A10230	Finishing (False Ceiling) (KD9)					
A10240	BS for Office Accomodation (Stage 8)					
A10270	Other BS + E&M Installation					
<b>Metal Canopy and Roof Installation</b>						
B10210	Shop Drawing Submission and Approval					
B10212	Fabrication of MC/R					
B10220	Casted-in Items Installation					
<b>103 Police Inspection Post</b>						
A10310	Excavation + Blinding					
A10330	Raft Foundation					
A10340	Super Structure (Roof Slabs)					

- Actual Work
- Remaining Work
- Critical
- Milestone

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A10350	Finishing (False Ceiling) (KD9)					
A10360	BS for Office Accomodation (Stage 8)					
<b>HPL Composite Panel Cladding System</b>						
B10310	Shop Drawing Submission and Approval					
<b>057 Transformers (Zone 2)</b>						
A05730	Superstructure					
A05740	Finishing					
A05750	BS + E&M for Tx Room to CLP (Stage 4)					
A05760	BS for Office Accomodation (Stage 8)					
A05780	Other BS + E&M Installation					
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
F05740	Provision of Approved Building Plans by the Engineer					
<b>Waterworks Ordinance (WSD)</b>						
G05710	Provision of Approval Letter and approved Drawings by the Engineer					
<b>107 - C&amp;ED Mobile X-ray Operation Office (Cargo), Portion B</b>						
C10710	Excavation + Blinding					
C10720	Raft Foundation					
C10730	Superstructure (Roof Slabs)					
<b>113 - Field Kiosk for Access Control, Portion B</b>						
B11310	Excavation + Blinding					
B11320	Raft Foundation					
B11330	Superstructure (Roof Beams & Slabs)					
B11340	Finishing					
B11350	BS for Office Accomodation (Stage 8)					
<b>External Works for Portion B</b>						
<b>Works in Location 1.7A</b>						
BB1480	ELV Works & T&C in Location 1.7A					
<b>Works in Location 1.7B</b>						
BB1490	ELV Works & T&C in Location 1.7B					
<b>Drainage Works</b>						
ED1540	Drainage Works (1130m & 60 MHs), Stage 1 (S/W)					
ED3580	Sewerage (275m & 8MHs), Stage 1 (S/W)					
ED5650	Drainage Works (1130m & 60MHs), Stage 2 (S/E)					
ED5660	Sewerage (300m & 8MHs), Stage 2 (S/E)					
ED5670	Drainage Works (1130m & 60MHs), Stage 3 (N/W)					
ED5680	Sewerage (300m & 8MHs), Stage 3 (N/W)					
<b>Waterpipe Laying</b>						
EW1550	Fresh Water Main Laying (472m), Stage 1 (S/W)					
EW1560	Flushing Water Main Laying (460m), Stage 1 (S/W)					
EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)					
EW6090	Flushing Water Main Laying (460m), Stage 2 (S/E)					
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
<b>Roadworks</b>						
ER1640	Subbase (10000 ton), Stage 1 (N/W)					
ER3590	Bitumen Pavement (14000 ton), Stage 1 (N/W)					
ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (N/W)					
<b>Sign Gantry ADS 306A &amp; ADS 306B</b>						
ES5240	Fabrication & Delivery of Sign Gantrys to Site					

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		Oct	Nov	Dec	Jan	Feb
<b>PORTION C</b>						
<b>Portion C Buildings</b>						
<b>010 - Inbound Coach Kiosk &amp; Staff Subway Entrance</b>						
A01010	Substructure and Staircase Construction					
<b>009 - Staff Subway Entrance (Bay 0 - 3) &amp; Shuttle Bus Kiosks</b>						
A00930	Constructing Wall + Top Slab of Bay 0 -3					
A00940	Finishing					
A00950	BS + E&M for AVCSS works (KD 1)					
A00960	Chilled Water Pipe Installation (CUE)					
B00910	Substructure and Staircase Construction (Portion B&C)					
B00920	Kiosk Superstructure					
<b>012 - DOH Disinsection Area and Store Room 1, at Portion C</b>						
B01210	Excavation & Blinding					
B01220	Raft Foundation					
<b>104 - DOH Secondary Screening Station, at Portion C</b>						
A10420	Excavation & Blinding					
A10430	Substructure					
<b>Facade Cladding System</b>						
A10460	Shop Drawing Submission and Approval					
A10465	Fabrication of F/C System					
<b>108 C&amp;ED Mobile X-ray Machine Operation Office, Portion C</b>						
A10805	Excavation & Blinding					
A10810	Raft Foundation					
<b>HPL Composite Panel Cladding System</b>						
A10800	Shop Drawing Submission and Approval					
<b>110 IMMD Guard Booth (Type 2) East</b>						
A11020	Excavation & Blinding					
A11030	Substructure					
<b>Facade Envelop Structure Installation</b>						
A11040	Shop Drawing Submission and Approval					
<b>110 IMMD Guard Booth (Type 2) West</b>						
C11010	Excavation & Blinding					
<b>111 Field Kiosk for Carpark Operator</b>						
A11120	Excavation & Blinding					
A11130	Raft Foundation					
<b>HPL Composite Panel Cladding System</b>						
B11110	Shop Drawing Submission and Approval					
<b>113 - Field Kiosk for Access Control, Portion C</b>						
C11310	Excavation & Blinding					
C11320	Raft Foundation					
<b>External Works for Portion C</b>						
<b>Works in Location 1.2, 1.8 &amp; 011 - Emergency Generator Building</b>						
BB1440	Works & T&C in Location 1.2					
BB1460	ELV System Installation for Contract HY/2013/01					
<b>Drainage Works</b>						
B00040	Initial Survey					
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)					
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)					
<b>PORTION D</b>						

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		Oct	Nov	Dec	Jan	Feb
<b>Portion D Building</b>						
<i>113 - Field Kiosk for Access Control, Portion D</i>						
C11350	Excavation & Blinding					
C11360	Raft Foundation					
C11370	Superstructure (Roof Beams & Slabs)					
C11380	Finishing					
D11340	BS for Office Accomodation (Stage 8)					
<b>External Works for Portion D</b>						
<i>Drainage Works</i>						
B00050	Initial Survey					
SG3640	Drainage Works (361m & 14MHs)					
SG3760	Sewerage (121m & 6MHs)					
<i>Waterpipe Laying</i>						
SW3650	Fresh Water Main Laying (108m)					
<i>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</i>						
B11480	ELV System Installation for Contract HY/2013/02					
SU5350	Duct & Cable Laying for TCSS & Lighting					
<i>Works of Car Park Management System at Location 1.5, 1.6A &amp; 1.6B</i>						
SR5540	Works & T&C for Car Park Management System at Location 1.5					
<i>Roadworks</i>						
SR3740	Subbase (261 ton)					
<b>PORTION E</b>						
<b>Portion E Building</b>						
<i>006 - Shuttle Bus Kiosk &amp; Staff Subway Entrance, at Portion E &amp; M</i>						
A00610	ELS + Blinding for Subway					
A00620	Constructing base of Subway					
A00630	Constructing wall stem + top slab of Subway					
<b>External Works for Portion E</b>						
<i>Drainage Works</i>						
B00060	Initial Survey					
<b>PORTION F</b>						
<b>External Works for Portion F</b>						
<i>Drainage Works</i>						
B00070	Initial Survey					
SG3930	Drainage Works (122m & 9MHs)					
SG4050	Sewerage (70m & 3MHs)					
<b>PORTION G, H1 &amp; H2</b>						
<b>Portion G Structures</b>						
<i>Box Culvert C</i>						
<b>Steel H Pile</b>						
SC0260	Box C - 67 nos. of driven H pile, Stage 1					
SC0270	Box C - 38 nos. of driven H pile, Stage 2					
SC0280	Box C - 54 nos. of driven H pile, Stage 3					
<b>Box Culvert Structure</b>						
SC0310	Box C - Branch Construction					
SC0320	Box C - Branch Backfilling					
SC0380	Box C - Construction of Main Body					
<i>Bridge A1</i>						

■ Actual Work  
■ Remaining Work  
■ Critical  
◆ Milestone

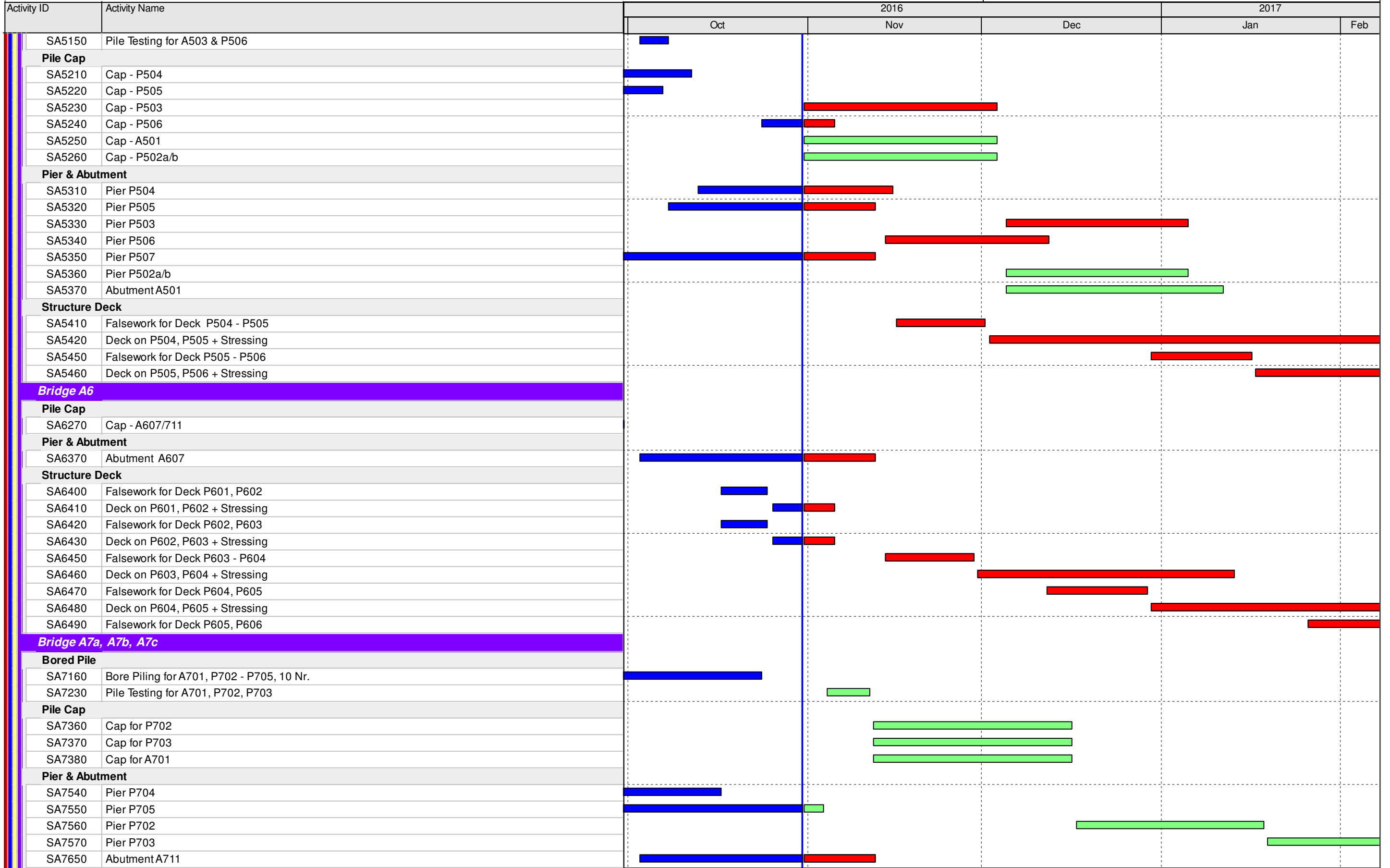
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<b>Bored Pile</b>						
SA1130	Bore pile for other 2 nos. (A106)	█				
SA1140	Pile Testing		█			
<b>Pile Cap</b>						
SA1210	Cap - A106		█			
<b>Pier &amp; Abutment</b>						
SA1310	Abutment A106			█		
<b>Structure Deck</b>						
SA1420	Deck on P103 & P104 + Stressing	█				
SA1440	Deck on P102, P103 + Stressing	█				
SA1450	Falsework for Deck P101, P102				█	
SA1460	Deck on P101, P102 + Stressing				█	
SA1470	Falsework for Deck P104, P105		█			
SA1480	Deck on P104, P105 + Stressing		█	█		
SA1490	Falsework for Deck P105, A106				█	
<b>Bridge A2</b>						
<b>Structure Deck</b>						
SA2440	Deck on P202, P203, P601 + Stressing	█				
SA2450	Falsework for Deck P201 - P202				█	
SA2460	Deck on P201 & P202 + Stressing				█	
<b>Bridge A3</b>						
<b>Bored Pile</b>						
SA3160	Pile Testing for P304a/b		█			
<b>Pile Cap</b>						
SA3220	Cap - P304a/b		█			
SA3240	Cap - P303	█				
SA3250	Cap - A305		█			
<b>Pier &amp; Abutment</b>						
SA3320	Pier P304a, P304b			█		
SA3330	Abutment A305				█	
SA3340	Pier P302	█				
SA3350	Pier P303		█			
<b>Structure Deck</b>						
SA3410	Falsework for Deck P301 - P302		█			
SA3420	Deck on P301 - P302 + Stressing		█	█		
SA3430	Falsework for Deck P302 - P303			█		
SA3440	Deck on P302 - P303 + Stressing			█	█	
<b>Bridge A4</b>						
<b>Bored Pile</b>						
SA4130	Pile Testing		█			
<b>Pile Cap</b>						
SA4210	Cap - P401		█			
SA4220	Cap - P402			█		
<b>Pier &amp; Abutment</b>						
SA4310	Pier P401			█		
SA4320	Pier P402				█	
<b>Structure Deck</b>						
SA4410	Falsework for Deck P502b, P401				█	
<b>Bridge A5</b>						
<b>Bored Pile</b>						

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		Oct	Nov	Dec	Jan	Feb
<b>Structure Deck</b>						
SA7720	Deck on P706, P707 & P712 (Bridge A7b) + Stressing	Actual Work		Critical		
SA7730	Falsework for Deck P705 - P706		Remaining Work			
SA7740	Deck on P705 & P706 (Bridge A7a) + Stressing		Remaining Work			
SA7750	Falsework for Deck P704, P705			Remaining Work		
SA7770	Deck on P704 & P705 (Bridge A7a) + Stressing				Remaining Work	
SA7850	Falsework for Deck P707, P708 (A7c)		Critical			
SA7860	Deck on P707, P708 (Bridge A7c) + Stressing			Critical		
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works		Remaining Work			
<b>Bridge A8</b>						
<b>Pile Cap</b>						
SA8210	Cap - Abutment A804	Actual Work				
<b>Pier &amp; Abutment</b>						
SA8310	Abutment A804	Actual Work	Remaining Work			
SA8320	Pier P802	Actual Work				
SA8330	Pier P803	Actual Work	Remaining Work			
<b>Structure Deck</b>						
SA8410	Falsework for Deck P801, P802		Remaining Work			
SA8420	Deck on P802, P802 + Stressing		Remaining Work			
SA8430	Falsework for Deck P802, P803			Remaining Work		
SA8440	Deck on P802, P803 + Stressing				Remaining Work	
<b>Retaining Walls W1-1, W3-1, W5-1 &amp; W7-1</b>						
<b>Retaining Wall W3-1</b>						
SW3130	Bored Pile for W3-1, 16 Nr.	Actual Work	Critical			
<b>Retaining Wall W5-1</b>						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)				Remaining Work	
<b>Portion G Buildings</b>						
<b>002 - C&amp;ED Observation Guard Booth No.1, Portion H1</b>						
C00220	Excavation + Blinding				Critical	
C00230	Raft Foundation				Critical	
<b>002 - C&amp;ED Observation Guard Booth No. 2, Portion H2</b>						
E00210	Excavation + Blinding				Critical	
E00220	Raft Foundation				Critical	
<b>033 Inbound Private Car Exam Building</b>						
A03330	Finishing	Actual Work	Critical			
A03360	External Works		Remaining Work			
A03370	BS for Office Accomodation (Stage 8)	Actual Work	Critical			
A03380	BS + E&M for Office Accomodation (Stage 9)				Critical	
A03390	Other BS + E&M Installation		Remaining Work			
<b>Glass Canopy Installation</b>						
B03305	Fabrication of Glass Canopy		Critical			
B03350	Casted-in Items Installation				Critical	
<b>Aluminium Metal Canopy</b>						
B03315	Fabrication of F/C System		Remaining Work			
B03320	Casted-in Items Installation				Remaining Work	
<b>034 Satellite RCP South</b>						
A03440	Super Structure (Roof Beams & Slabs)	Actual Work				
A03450	Finishing	Actual Work	Critical			
A03460	BS for Office Accomodation (Stage 8)	Actual Work	Critical			
A03470	BS + E&M for Office Accomodation (Stage 9)				Remaining Work	

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A03480	Other BS + E&M Installation		[Green bar from Nov to Feb]				
<b>S S Facade Greenery System</b>							
B03410	Shop Drawing Submission for Approval		[Green bar from Nov to Dec]				
B03415	Fabrication of SS F/G System		[Green bar from Dec to Feb]				
<b>035 - Sewage Pumping Station, Portion G</b>							
A03560	ELS + Blinding for Wet Well	[Blue bar from Oct to Nov]	[Red bar in Nov]				
A03570	Constructing of Base Slab of Wet Well		[Red bar from Nov to Dec]				
A03580	Constructing of Wall Stem of Wet Well			[Red bar from Dec to Jan]			
A03590	Water-tightness Test for Wet Wells				[Red bar in Jan]		
B03510	Backfilling + Removal of ELS				[Red bar in Feb]		
<b>051 Transformers (Zone 5)</b>							
A05150	Finishing	[Blue bar from Oct to Nov]	[Red bar from Nov to Dec]				
A05165	Energisation by CLP		[Green bar from Nov to Dec]				
A05170	BS for Office Accommodations (KD9)	[Blue bar from Oct to Nov]	[Red bar from Nov to Dec]				
A05180	BS + E&M for Office Accommodation (KD10)			[Red bar from Dec to Feb]			
A05190	Other BS + E & M Installation	[Blue bar from Oct to Nov]	[Green bar from Nov to Feb]				
<b>Completion of Fire Services Installation and Equipment (FCD)</b>							
F05140	Provision of Approved Building Plans by the Engineer			[Milestone in Nov]			
<b>Waterworks Ordinance (WSD)</b>							
G05120	Submission of WWO46 - Part I & II (Inside Services)		[Green bar in Nov]				
<b>100 Inbound Traffic Control Kiosk</b>							
A10040	Super Structure (Roof Beams & Slabs)	[Blue bar from Oct to Nov]					
A10050	Finishing		[Blue bar from Nov to Dec]	[Red bar from Dec to Feb]			
A10070	BS + E&M for AVCSS Works (KD18A)		[Blue bar from Nov to Dec]	[Red bar from Dec to Feb]			
<b>HPL Composite Panel Cladding System</b>							
B10010	Shop Drawing Submission and Approval		[Green bar from Nov to Dec]				
B10015	Fabrication of F/C System			[Green bar from Dec to Feb]			
<b>112 Field Kiosk for Taxi Queuing Area</b>							
A35210	Foundation	[Blue bar from Oct to Nov]					
A35220	Structure		[Blue bar from Nov to Dec]	[Green bar from Dec to Feb]			
A35230	Finishing			[Green bar from Dec to Feb]			
B11520	BS + E & M Installation			[Green bar from Dec to Feb]			
<b>External Works for Portion G, H1 &amp; H2</b>							
<b>ELV Works within Portion H2 in the Hong Kong Side PTI</b>							
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)				[Red bar in Jan]		
<b>Works within Portion H1 &amp; H2 except the ELV Works in the Hong Kong Side PTI</b>							
EU1560	Drainage & Sewerage Works within Portion H1 & H2 in the Hong Kong Side PTI (KD20)	[Blue bar from Oct to Nov]	[Red bar from Nov to Dec]	[Red bar from Dec to Feb]			
<b>All Works within the Boundary defined in Drawing No. 60191048/C3/000/C00/1050</b>							
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050	[Blue bar from Oct to Nov]	[Red bar from Nov to Dec]	[Red bar from Dec to Feb]			
<b>Drainage Works</b>							
AS0080	Initial Survey	[Blue bar from Oct to Nov]					
ED4070	Drainage Works (6954m & 393MHs)	[Blue bar from Oct to Nov]					
ED4190	Sewerage (437m & 12MHs)	[Blue bar from Oct to Nov]					
<b>Sign Gantry DS40, DS41 &amp; DS75</b>							
ES0020	Sign Gantry DS40 Pre-bored H Piling, 12 Nr.		[Green bar from Nov to Dec]				
ES0040	Sign Gantry DS41 Driven Piling 4 Nr.		[Green bar in Nov]				
ES0080	Testing for Pre-bored H Piling			[Green bar from Dec to Feb]			
ES0180	Fabrication & Delivery of Sign Gantrys to Site	[Blue bar from Oct to Nov]	[Green bar from Nov to Feb]				
<b>Canopy and Covered Walkway</b>							

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CC1310	Shop drawing, Approved & Fabrication					
<b>PORTION J</b>						
<b>Portion J Structure</b>						
<b>Bay 30 - 41 of CUE/Staff Subway (Portion J)</b>						
B03040	Bay 30 - 33 Construction - Base Slab					
B03050	Bay 30 - 33 Construction - Wall + Top Slab					
B03210	ELS + blinding (Bay 34 - 41) (8 bay)					
B03220	Bay 34 - 39 Construction - Base Slab					
B03230	Bay 34 - 39 Construction - Wall + Top Slab, Staircase					
B03240	Bay 40 - 41 Construction - Base Slab					
B03250	Bay 40 - 41 Construction - Wall + Top Slab, Staircase					
<b>030 Outbound Private Car &amp; GV Kiosks</b>						
A03010	Submission & Approval for Steel Works					
A03020	Pre-fabrication for the Steel Kiosks					
<b>030 Outbound Kiosks, Section IX, Subject to Excision</b>						
C03010	Submission & Approval for Steel Works					
C03020	Pre-fabrication for the Steel Kiosks					
<b>Portion J Buildings</b>						
<b>024 Outbound Private Car Exam Building</b>						
A02400	Excavation + Blinding					
A02410	Raft Foundation					
A02420	Super Structure					
<b>Glass Canopy Installation</b>						
B02410	Shop Drawing Submission and Approval					
B02415	Fabrication of F/C System					
<b>Aluminium Metal Canopy</b>						
B02450	Shop Drawing Submission and Approval					
B02455	Fabrication of F/C System					
<b>031 Outbound IMMD and DOH Secondary Screen Building</b>						
A03100	Excavation + Blinding (+ PL Test)					
A03110	Raft Foundation					
A03140	Super Structure					
<b>060 - Single Storey Support Building Associated with Buildings 044 &amp; 045</b>						
A06000	Excavation + Blinding					
A06010	Raft Foundation (Traper)					
A06040	Excavation + Blinding (Strip part)					
<b>Waterworks Ordinance (WSD)</b>						
G06020	Submission of WWO46 - Part I & II (Inside Services)					
<b>061 Telecom Building</b>						
A06120	Excavation + Blinding					
A06130	Raft Foundation					
A06140	Super Structure					
A06150	Finishing (KD9)					
A06160	BS for Office Accommodations (KD9)					
<b>Aluminium Metal Canopy</b>						
B06110	Shop Drawing Submission and Approval					
<b>101 Outbound Traffic Control Kiosk</b>						
A10100	Excavation + Blinding					
A10110	Raft Foundation					

- █ Actual Work
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- ◆ Milestone

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Activity ID	Activity Name	2016			2017	
		Oct	Nov	Dec	Jan	Feb
A10130	Super Structure (Roof Beams & Slabs)					
A10140	Finishing					
A10150	BS + E&M for AVCSS Works (KD18A)					
A10160	BS + E&M for AVCSS Cabling (KD18B)					
A10170	BS for Office Accommodations (KD9)					
A10190	Other BS + E & M Installation					
<b>HPL Composite Panel Cladding System</b>						
B10110	Shop Drawing Submission and Approval					
B10120	Fabrication of HPL Cladding					
<b>External Works for Portion J</b>						
<i>Works in Location 1.7B</i>						
EU1500	ELV Works & T&C in Location 1.7B					
<i>Works in Location 1.7C</i>						
EU1530	ELV Works & T&C in Location 1.7C					
<i>Drainage Works</i>						
ED4220	Drainage Works (1700m & 86MHs), Stage 1 (Northern)					
ED4340	Sewerage (425m & 11MHs), Stage 1 (Northern)					
<i>Waterpipe Laying</i>						
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)					
EW4240	Flushing Water Main Laying (431m), Stage 1 (Northern)					
<i>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</i>						
EU5420	Duct & Cable Laying for Utilities/Telecom					
EU5430	Duct & Cable Laying for TCSS & Lighting					
<i>Sign Gantry DS104</i>						
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.					
ES5140	Submission and approval for Sign Gantry					
ES5150	Fabrication & Delivery of Sign Gantrys to Site					
<b>PORTION K, L, M, S &amp; T</b>						
<b>Portion M Buildings</b>						
<i>108 - C&amp;ED Mobile X-ray Operation Office, Portion M</i>						
<b>HPL Composite Panel Cladding System</b>						
C10810	Shop Drawing Submission and Approval					
C10820	Fabrication of HPL Cladding					
<i>104 DOH Screening Station, at Portion M</i>						
<b>Facade Envelop Structure Installation</b>						
D10450	Shop Drawing Submission and Approval					
D10455	Fabrication of F/C System					
<b>External Works</b>						
<i>Additional Works (Filling &amp; RE Slope), SA1</i>						
ED3120	Approval of RE Slope by GEO/AECOM					
ED3210	C1 Contractor to Completed cooling mains at east Portion (Stage1)					
ED3220	Removal of Access & Form another Temp. Access for Cooling Main					
ED3230	C1 Contractor to Completed cooling mains at east Portion (Stage 2)					
ED3260	Consolidation of fill at the Platform					
ED3270	Remove surcharge at the edge of Platform (North, Portion S, KD32)					
ED3280	Remove surcharge at the Platform (East, Portion T, KD33)					
ED3310	C1 Contractor to Complete Footbridge Supports at the South Portion					
ED3320	Fill Platform from +11.5PD to near PCB (South)					
ED3330	Add surcharge to Platform at +14.5mPD near PCB (South)					

█ Actual Work  
█ Remaining Work  
█ Critical  
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		Oct	Nov	Dec	Jan	Feb
ED3340	Consolidation of fill at the Platform (South)					
ED3410	C2 Contractor to complete abutment at the North (2 nos.)					
ED3420	Fill Slope around C2 abutments					
<b>Construction of Slopes</b>						
ED3430	Construction of fill slope (Stage 1) (East)					
ED3510	Footing for the Planter Wall, RE slope (West)					
ED3520	Construct RE slope (West)					
ED3550	Construction of fill slope (North)					
<b>Drainage Works</b>						
ED4370	Drainage Works (1477m & 81MHs), Stage 1 (Eastern)					
ED4490	Sewerage (78m & 2MHs), Stage 1 (Eastern)					
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
EU5450	Duct & Cable Laying for TCSS & Lighting					
<b>Canopy and Covered Walkway</b>						
CC1400	Shop drawing, Approved & Fabrication					
<b>PORTION N</b>						
<b>Portion N Structure</b>						
<b>Box Culvert B</b>						
<b>Bored Pile</b>						
SB0550	Loading Test					
SB0560	Install H-piles					
SB0590	Box B - Bore Pile (20 nos.)					
<b>Box Culvert Structure</b>						
SB0710	Box B - Construction (Stage 1)					
SB0715	Handover from RC (1/11/16)					
SB0722	Box B - Temporary Works for Construction of Outfall Structure					
<b>Portion N Buildings</b>						
<b>104 DOH Screening Station, at Portion N</b>						
<b>Facade Envelop Structure Installation</b>						
D10410	Shop Drawing Submission and Approval					
D10415	Fabrication of F/C System					
<b>106 C&amp;ED Detention Area Guard Booth</b>						
A10600	Excavation + Blinding					
A10610	Structure (Raft Foundation)					
A10640	Finishing					
E10640	BS for Office Accommodations (KD9)					
E10660	Other BS + E & M Installation					
<b>Facade Envelop Structure Installation</b>						
B10610	Shop Drawing Submission and Approval					
<b>107 C&amp;ED Mobile X-ray Operation Office, Portion N</b>						
A10700	Excavation + Blinding					
A10710	Substructure (Raft Foundation)					
A10740	Super Structure					
<b>External Works for Portion N</b>						
<b>Works in Location 1.7A</b>						
EU1540	ELV Works & T&C in Location 1.7A					
<b>Drainage Works</b>						
AS0150	Initial Survey					
ED4620	Drainage Works (964m & 56MHs), Stage 1 (Southern)					

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		Oct	Nov	Dec	Jan	Feb	
ED4650	Sewerage (383m & 12MHs), Stage 1 (Southern)		[Red bar]				
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>							
EU5470	Duct & Cable Laying for TCSS & Lighting			[Red bar]			
<b>PORTION P</b>							
<b>Portion Structure</b>							
<b>Retaining Wall RW1</b>							
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)		[Green bar]				
<b>Portion P Buildings</b>							
<b>105 IMMD Guard Booth, Portion P</b>							
<b>Facade Envelop Structure Installation</b>							
A10560	Shop Drawing Submission and Approval		[Green bar]				
A10565	Fabrication of F/C System			[Green bar]			
<b>External Works for Portion P</b>							
<b>Drainage Works</b>							
AS0160	Initial Survey		[Red bar]				
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>							
EU5490	Duct & Cable Laying for TCSS & Lighting (KD15)		[Red bar]				
<b>PORTION Q</b>							
<b>External Works for Portion Q</b>							
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>							
ED5570	Duct & Cable Laying for Utilities/Telecom		[Green bar]				
ED5580	Duct & Cable Laying for TCSS & Lighting		[Red bar]				
EU1490	ELV System Installation for Contract HY/2013/04		[Green bar]				
<b>Roadworks</b>							
AS0170	Initial Survey		[Red bar]				
ER4920	Subbase (104 ton)		[Green bar]				
ER4950	Bitumen Pavement (215 ton)			[Green bar]			
<b>Railing</b>							
ER4890	Railing				[Green bar]		
<b>Road Furniture</b>							
ER4900	Road Furniture				[Green bar]		
<b>PORTION R</b>							
<b>Portion R Building</b>							
<b>002 - C&amp;ED Observation Guard Booth, Portion R</b>							
D00210	Excavation + Blinding				[Red bar]		
D00220	Raft Foundation				[Red bar]		
<b>External Works for Portion R</b>							
<b>Drainage Works</b>							
AS0180	Initial Survey				[Green bar]		
<b>Landscape Works</b>							
A5170	Design and Procurement for Irrigation System		[Green bar]				
A5180	Installation of Irrigation System				[Red bar]		
A5190	All landscape Soft & Hard Works				[Red bar]		

[Blue bar]	Actual Work
[Green bar]	Remaining Work
[Red bar]	Critical
◆	Milestone

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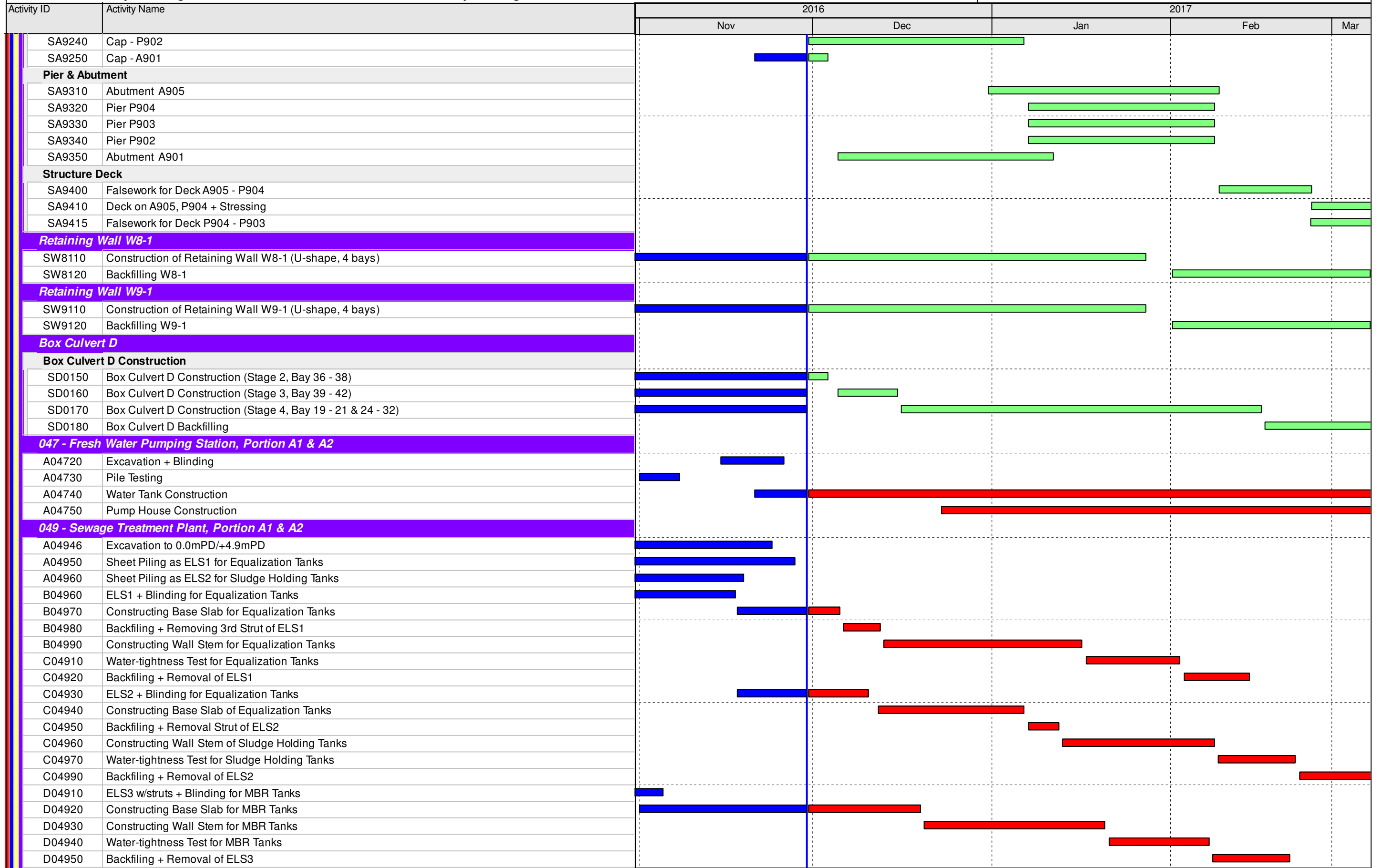
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		Nov	Dec	Jan	Feb	Mar
<b>HKBCF - VCP &amp; Ancillary Buildings and Facilities, DWP Rev. 3A, DD 30 Nov. 16</b>						
<b>CONTRACT DATES</b>						
<b>Key Dates</b>						
A1320	KD32 Achievement of Section IV(b) of the Works (646 days; 15 Jan. 17)					◆ KD32 Achievement of Section IV(b) of the Works (646 days)
A1330	KD33 Achievement of Section IV(c) of the Works (646 days; 15 Jan. 17)					◆ KD33 Achievement of Section IV(c) of the Works (646 days)
<b>Site Access &amp; Possession</b>						
<b>Possession of Portion of Site</b>						
A0030	Possession of Portion B (<=100 days)		◆ Possession of Portion B (<=100 days)			
A0040	Possession of Portion C (<=100 days)			◆ Possession of Portion C (<=100 days)		
A0070	Possession of Portion F (<=220 days)			◆ Possession of Portion F (<=220 days)		
A0110	Possession of Portion J (<=320 days)		◆ Possession of Portion J (<=320 days)			
A0150	Possession of Portion N (<=345 days)		◆ Possession of Portion N (<=345 days)			
A0160	Possession of Portion P (<=502 days)		◆ Possession of Portion P (<=502 days)			
A0170	Possession of Portion Q (<=500 days)		◆ Possession of Portion Q (<=500 days)			
A0180	Possession of Portion R (<=610 days)			◆ Possession of Portion R (<=610 days)		
<b>Access to Locations of the Site</b>						
A0210	Contract Date for Access to Location 1.1 (490 days)		◆ Contract Date for Access to Location 1.1 (490 days)			
A0220	Contract Date for Access to Location 1.2 (405 days)		◆ Contract Date for Access to Location 1.2 (405 days)			
A0230	Contract Date for Access to Location 1.3 (488 days)		◆ Contract Date for Access to Location 1.3 (488 days)			
A0240	Contract Date for Access to Location 1.4 (488 days)		◆ Contract Date for Access to Location 1.4 (488 days)			
A0250	Contract Date for Access to Location 1.5 (580 days)		◆ Contract Date for Access to Location 1.5 (580 days)			
A0280	Contract Date for Access to Location 1.7A (610 days)		◆ Contract Date for Access to Location 1.7A (610 days)			
A0290	Contract Date for Access to Location 1.7B (610 days)		◆ Contract Date for Access to Location 1.7B (610 days)			
A0300	Contract Date for Access to Location 1.7C (610 days)		◆ Contract Date for Access to Location 1.7C (610 days)			
A0310	Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)		◆ Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)			
A0320	Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)		◆ Contract Date for Access to Location 1.8 PCB (Ground Floor level or above) (515 days)			
A0330	Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)		◆ Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)			
A0340	Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)		◆ Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)			
A0350	Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)		◆ Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)			
<b>Section/Stage Subject to Excision</b>						
A0770	Contract Date for Section VI (650 days, latest date when the Engineer may order)					◆ Contract Date for Section VI (650 days, latest date when the Engineer may order)
A0780	Contract Date for Section VII (650 days, latest date when the Engineer may order)					◆ Contract Date for Section VII (650 days, latest date when the Engineer may order)
<b>PRELIMINARY</b>						
<b>Precast Yard for Bridge Segement</b>						
A0630	Segment Manufacture					
<b>PORTION A1</b>						
<b>Portion A1 Structures</b>						
<b>Bridge A9</b>						
<b>Bored Pile</b>						
SA9120	Bored pile for A9 Bridge, 10 no.					
SA9140	Pile testing					
<b>Pile Cap</b>						
SA9210	Cap - A905					
SA9220	Cap - P904					
SA9230	Cap - P903					

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Activity ID	Activity Name	2016		2017		
		Nov	Dec	Jan	Feb	Mar
D04955	Excavation + Blinding for Ground Slab					
D04960	Constructing Ground Slab for Transformer Room					
D04970	Transformer Room Construction					
<b>Portion A1 Buildings</b>						
<b>012 - DOH Disinsection Area and Store Room 1, at Portion A1</b>						
A01280	Other BS + E&M Installation					
<b>036 - Weigh Station</b>						
A03650	Ceiling/Wall Plaster & Painting					
A03660	Floor Screed					
A03665	External Wall Plaster & Tile					
A03670	BS for Office Accomodation (Stage 8)					
A03680	BS + E&M for Office Accommodation (Stage 9)					
A03690	Other BS + E&M Installation					
<b>037 C&amp;ED Tower Cum Inbound Cargo Examination Building (Portion A1 &amp; B)</b>						
A03738	DDA Submission/Approval for Curtain Wall/Metal Roof/Alum. Cladding					
A03740	Steel Frame Structure Installation					
A03742A	Mock-up Sample for Curtain Wall					
A03742B	Mock-up Sample for Cladding					
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade					
A03742E	Mock-up Sample for Toilet Counter Top (WF24)					
A03742F	Mock-up Sample for External Wall Tiling					
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation					
A03746	Blockwall Laying					
A03748	Wall/Ceiling Plastering/Tiling					
A03752	Floor Screed/Tiling					
A03756	Window/Door Frame Installation					
A03760	BS + E&M for AVCSS Cabling (KD18A)					
A03780	BS for Office Accomodation (KD9)					
A03785	BS for Office Accomodation (KD10)					
A03790	Other BS + E&M Installation					
<b>Test &amp; Commission</b>						
B03790	Beam Plus Monthly Submission & Issue					
<b>041 Fire Station Cum Ambulance Depot</b>						
A04120	Super Structure, G/F to 1/F					
A04122	Super Structure, 1/F to 2/F (incl. parapet wall and planter wall)					
A04124	DDA Submission/Approval for Cladding & Curtain Wall					
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04132	Blockworks					
A04133	Ceiling & Wall Plastering/Wall Tiling					
A04140	BS for Office Accomodation (Stage 8)					
A04160	Other BS + E&M Installation					
<b>042 Drill Tower</b>						
A04260	Finishing					
A04270	BS for Office Accomodation (Stage 8)					
A04280	BS + E&M for Office Accomodation (Stage 9)					
A04290	Other BS + E&M Installation					
<b>043 DOH Office + Store Room</b>						
A04330	Super Structure					
A04340	Water Tanks for F.S./Sprinkler Pump Room					
A04360	DDA Submission for Cladding & Curtain Wall					

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A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)					
A04380	BS for Office Accomodation (Stage 8)					
B04310	Other BS + E&M Installation					
B04330	Stainless Steel Mesh Installation					
B04340	Metal Windows/Louvres/Doors/Railing etc. installation					
B04350	Blockworks					
B04360	Wall Plastering/Tiling					
C04310	C/S Wall Plastering					
<b>052 - Transforms (Zone 4)</b>						
A05235	Energisation by CLP					
A05250	Ceiling/Wall Painting Finish & Floor Screed					
A05260	External Wall Plaster & Wall (KD10)					
A05270	Main Switch/L.V. Switch Board Installation					
A05280	Genset Installation					
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
C05210	Approved Building Plans					
<b>105 IMMD Guard Booth, Portion A1 (Mock Up)</b>						
B10500	Shop Drawings & Material Submission					
<b>Facade Envelop Structure Installation</b>						
B10580	Shop Drawing Submission and Approval					
B10590	Fabrication of F/C System					
<b>External Works for Portion A1</b>						
<b>Drainage Works</b>						
ED0020	Drainage Works (773m & 34MHs), Stage 1 (Western)					
ED0030	Sewerage (300m & 9MHs), Stage 1 (Western)					
ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)					
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)					
<b>Waterpipe Laying</b>						
EW5010	Fresh Water Main Laying (700 m), Stage 1 (Western)					
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)					
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)					
EW6030	Flushing Water Main Laying (322 m), Stage 2 (Middle)					
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5270	Duct & Cable Laying for TCSS & Lighting					
<b>Road Furniture</b>						
ER0800	ELV Installation					
<b>PORTION A2</b>						
<b>Portion A2 Structures</b>						
<b>046 - Refuse Collection Point, Portion A2</b>						
A04600	Excavation + Blinding (+ PL Test)					
A04610	Raft Foundation					
A04620	Superstructure w/2 water tank					
<b>Test &amp; Commission</b>						
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
<b>048 - Reclaimed Water Pumping Station, Portion A2</b>						
A04830	Sheet Piling as ELS for Basement 1					
A04840	Pile testing					
A04850	Excavation + Blinding for Basement 1					

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A04860	Basement 1 Construction					
A04865	Water-tightness Test for Basement 1					
A04870	Basement 2 Construction					
<b>Retaining Wall W9-2</b>						
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)					
<b>External Works for Portion A2</b>						
<b>Drainage Works</b>						
A2S010	Initial Survey					
<b>PORTION B</b>						
<b>Portion B Structures</b>						
<b>Retaining Wall W7-2</b>						
S70870	Construction of Retaining Wall W7-2 (L-shape, 1 bays)					
S70890	RW7-2 Backfilling					
S70970	RW7-2 Parapet (2 pour) & E&M Works					
<b>Retaining Wall W6-1</b>						
S62050	Construction of Retaining Wall W6-1 (L-shape, 4 bays)					
S62060	RW6-1 Backfilling					
S62070	RW6-1 Parapet (8 pour) & E&M Works					
<b>Bay 4 - 19 of CUE/Staff Subway</b>						
C02760	Internal Finishes & Cable Containment (KD1)					
C02770	BS + E&M Installation for AVCSS (Stage 1)					
C02780	Allow Access to C1 for Chilled Water Pipe (CUE) installation					◆ Allow Access
<b>Bay 20 - 24 of CUE/Staff Subway</b>						
C02820	Bay 20 - 24 Construction - Base Slab					
C02830	Bay 20 - 24 Construction - Wall + Top Slab					
C02840	Internal Finishes & Cable Containment (KD1)					
C02850	BS + E&M Installation for AVCSS (Stage 1)					
<b>Bay 25 - 29 of CUE/Staff Subway</b>						
C02920	Bay 25 - 29 Construction - Base Slab					
C02930	Bay 25 - 29 Construction - Wall + Top Slab					
C02960	Internal Finishes & Cable Containment (KD1)					
C02970	BS + E&M Installation for AVCSS (KD1)					
<b>Portion B Buildings</b>						
<b>027/028 Inbound Kiosks &amp; 029 Outbound Kiosks</b>						
A02710	Pre-fabrication for the Steel Kiosks					
A02715	Mock up for Steel Kiosks					
A02718	Mock up for Goods Vehicle Canopy					
A02720	Super structure					
A02780	BS + E&M for AVCSS Works (KD18A)					
<b>027/028 Inbound Kiosks &amp; 029 Outbound Kiosks, Section IX, Subject to Excision</b>						
B02740	Pre-fabrication for the Steel Kiosks					
B02760	BS + E&M for AVCSS Works (KD18C)					
<b>026 Inbound IMMD and DOH Secondary Screening Building</b>						
A02630	Super Structure					
A02640	Finishing					
A02650	Contractor's Design Submission for SS Mesh Screen & Approval					
A02660	Contractor's Design Submission for Aluminium Cladding & Approval					
A02670	BS for Office Accommodation (Stage 8)					
A02690	Other BS + E&M Installation					

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<b>Test &amp; Commission</b>						
B02620	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
<b>054 Inbound Fixed X-ray Building</b>						
A05460	Finishing					
A05467	Energisation by CLP					
A05470	BS for Office Accomodation (Stage 8)					
A05480	BS + E&M for Office Accomodation (Stage 9)					
B05410	Lift Installation					
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
F05440	Approved Building Plans					
<b>Waterworks Ordinance (WSD)</b>						
G05410	Approval Letter and approved Drawings					
<b>038 AFCD Office</b>						
A03820	Substructure					
A03830	Super Structure; G/F to 1/F					
A03840	Super Structure; 1/F to 2/F (incl. parapet and planter wall)					
<b>039 Police Main Building</b>						
A03920	Substructure					
A03930	Super Structure; G/F to 1/F					
A03935	Super Structure; 1/F to 2/F (incl. parapet and planter wall)					
<b>040 Incident Control Tower</b>						
A04020	Substructure					
A04040	Super Structure					
A04050	Finishing (KD9)					
A04060	BS for Office Accomodation (Stage 8), & for TCSS works (KD14)					
<b>Facade Cladding System</b>						
B04010	Shop Drawing Submission and Approval					
B04020	Fabrication of F/C System					
<b>Glass Wall</b>						
C04010	Shop Drawing Submission and Approval					
C04020	Fabrication of Glass Wall					
<b>102 HKPF UVSS Monitor Room</b>						
A10220	Super Structure					
A10230	Finishing (False Ceiling) (KD9)					
A10240	BS for Office Accomodation (Stage 8)					
A10270	Other BS + E&M Installation					
<b>Metal Canopy and Roof Installation</b>						
B10210	Shop Drawing Submission and Approval					
B10212	Fabrication of MC/R					
<b>103 Police Inspection Post</b>						
A10310	Excavation + Blinding					
A10330	Raft Foundation					
A10340	Super Structure (Roof Slabs)					
A10350	Finishing (False Ceiling) (KD9)					
A10360	BS for Office Accomodation (Stage 8)					
<b>HPL Composite Panel Cladding System</b>						
B10310	Shop Drawing Submission and Approval					
<b>057 Transformers (Zone 2)</b>						
A05730	Superstructure					
A05740	Finishing					

- █ Actual Work
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Activity ID	Activity Name	2016		2017		
		Nov	Dec	Jan	Feb	Mar
A05750	BS + E&M for Tx Room to CLP (Stage 4)					
A05760	BS for Office Accomodation (Stage 8)					
A05780	Other BS + E&M Installation					
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
F05740	Provision of Approved Building Plans by the Engineer					
<b>DG License &amp; EPD Generator Approval</b>						
G05710	Approval Letter and approved Drawings					
<b>107 - C&amp;ED Mobile X-ray Operation Office (Cargo), Portion B</b>						
C10710	Excavation + Blinding					
C10720	Raft Foundation					
C10730	Superstructure (Roof Slabs)					
<b>113 - Field Kiosk for Access Control, Portion B</b>						
B11320	Raft Foundation					
B11330	Superstructure (Roof Beams & Slabs)					
<b>201 - Inbound Cargo Mobile X-ray Operation Area</b>						
ER5740	Radiation Screen Wall Construction					
<b>205 - Inbound Private Car Mobile X-ray Operation Area</b>						
ER5750	Radiation Screen Wall Construction					
<b>External Works for Portion B</b>						
<b>Works in Location 1.7A</b>						
BB1480	ELV Works & T&C in Location 1.7A					
<b>Works in Location 1.7B</b>						
BB1490	ELV Works & T&C in Location 1.7B					
<b>Drainage Works</b>						
ED1540	Drainage Works (1130m & 60 MHs), Stage 1					
ED3580	Sewerage (275m & 8MHs), Stage 1					
ED5650	Drainage Works (1130m & 60MHs), Stage 2					
ED5660	Sewerage (300m & 8MHs), Stage 2					
ED5670	Drainage Works (1130m & 60MHs), Stage 3 (N/W)					
ED5680	Sewerage (300m & 8MHs), Stage 3 (N/W)					
<b>Waterpipe Laying</b>						
EW1550	Fresh Water Main Laying (472m), Stage 1 (S/W)					
EW1560	Flushing Water Main Laying (460m), Stage 1 (S/W)					
EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)					
EW6090	Flushing Water Main Laying (460m), Stage 2 (S/E)					
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5630	Access date s to Telephone Companies					
<b>Roadworks</b>						
ER1640	Subbase (10000 ton), Stage 1 (N/W)					
ER3590	Bitumen Pavement (14000 ton), Stage 1 (N/W)					
ER3600	Rigid Pavement (594 m3), Footpath & EVA, Stage 1 (N/W)					
ER5590	Subbase (11000 ton), Stage 2 (N/E)					
<b>Sign Gantry ADS 306A &amp; ADS 306B</b>						
ES5230	Submission and approval for Sign Gantry					
ES5240	Fabrication & Delivery of Sign Gantrys to Site					
<b>PORTION C</b>						
<b>Portion C Buildings</b>						
<b>010 - Inbound Coach Kiosk &amp; Staff Subway Entrance</b>						

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A01010	Substructure and Staircase Construction			[Red bar]		
<b>009 - Staff Subway Entrance (Bay 0 - 3) &amp; Shuttle Bus Kiosks</b>						
A00940	Finishing	[Blue bar]	[Red bar]			
A00950	BS + E&M for AVCSS works (KD 1)	[Blue bar]	[Red bar]			
<b>012 - DOH Disinsection Area and Store Room 1, at Portion C</b>						
B01210	Excavation & Blinding			[Red bar]		
B01220	Raft Foundation			[Red bar]		
B01230	Superstructure				[Red bar]	
<b>104 - DOH Secondary Screening Station, at Portion C</b>						
A10420	Excavation & Blinding			[Red bar]		
A10430	Substructure			[Red bar]		
A10440	BS for Office Accomodation (Stage 8)					[Red bar]
B10410	Other BS + E&M Installation					[Green bar]
<b>Facade Cladding System</b>						
A10460	Shop Drawing Submission and Approval		[Red bar]			
A10465	Fabrication of F/C System			[Red bar]		
<b>108 C&amp;ED Mobile X-ray Machine Operation Office, Portion C</b>						
A10805	Excavation & Blinding			[Red bar]		
A10810	Raft Foundation			[Red bar]		
A10840	Super Structure (Roof Beams & Slabs)				[Red bar]	
<b>HPL Composite Panel Cladding System</b>						
A10800	Shop Drawing Submission and Approval			[Red bar]		
A10815	Fabrication of HPL Cladding				[Red bar]	
<b>110 IMMD Guard Booth (Type 2) East</b>						
A11020	Excavation & Blinding			[Red bar]		
A11030	Substructure			[Red bar]		
A11080	Finishing				[Red bar]	
A11090	BS for Office Accomodation (Stage 8)				[Red bar]	
<b>Facade Envelop Structure Installation</b>						
A11040	Shop Drawing Submission and Approval		[Green bar]			
A11045	Fabrication of F/C System			[Green bar]		
<b>111 Field Kiosk for Carpark Operator</b>						
A11120	Excavation & Blinding			[Red bar]		
<b>HPL Composite Panel Cladding System</b>						
B11110	Shop Drawing Submission and Approval		[Green bar]			
B11120	Fabrication of HPL Cladding			[Green bar]		
<b>113 - Field Kiosk for Access Control, Portion C</b>						
C11310	Excavation & Blinding			[Red bar]		
C11320	Raft Foundation			[Red bar]		
C11330	Superstructure (Roof Beams & Slabs)				[Red bar]	
<b>204 - Inbound Coach Exam Area &amp; Mobile X-ray Operation</b>						
ER5760	Radiation Screen Wall Construction			[Red bar]		
<b>External Works for Portion C</b>						
<b>Works in Location 1.2, 1.8 &amp; 011 - Emergency Generator Building</b>						
BB1440	Works & T&C in Location 1.2		[Green bar]			
BB1460	ELV System Installation for Contract HY/2013/01		[Red bar]			
<b>Drainage Works</b>						
B00040	Initial Survey			[Red bar]		
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)			[Red bar]		

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SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)			[Red bar]		
<b>Waterpipe Laying</b>						
SW2410	Fresh Water Main Laying (135m), Stage 1 (Eastern)				[Red bar]	
SW2420	Flushing Water Main Laying (50m), Stage 1 (Eastern)				[Red bar]	
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
SU5320	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV				[Red bar]	
<b>PORTION D</b>						
<b>Portion D Building</b>						
<b>113 - Field Kiosk for Access Control, Portion D</b>						
C11360	Raft Foundation	[Blue bar]				
C11370	Superstructure (Roof Beams & Slabs)			[Red bar]		
D11340	BS for Office Accomodation (Stage 8)			[Red bar]		
<b>External Works for Portion D</b>						
<b>Drainage Works</b>						
SG3640	Drainage Works (361m & 14MHs)			[Red bar]		
SG3760	Sewerage (121m & 6MHs)			[Red bar]		
<b>Waterpipe Laying</b>						
SW3650	Fresh Water Main Laying (108m)				[Red bar]	
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
B11480	ELV System Installation for Contract HY/2013/02		[Green bar]			
SU5340	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV				[Green bar]	
SU5350	Duct & Cable Laying for TCSS & Lighting				[Red bar]	
<b>Works of Car Park Management System at Location 1.5, 1.6A &amp; 1.6B</b>						
SR5540	Works & T&C for Car Park Management System at Location 1.5			[Red bar]		
<b>PORTION E</b>						
<b>006 - Shuttle Bus Kiosk &amp; Staff Subway Entrance, at Portion E &amp; M</b>						
A00610	ELS + Blinding for Subway		[Blue bar]			
A00620	Constructing base of Subway			[Red bar]		
A00630	Constructing wall stem + top slab of Subway			[Red bar]		
<b>External Works for Portion E</b>						
<b>Drainage Works</b>						
B00060	Initial Survey	[Blue bar]				
SG3780	Drainage Works (99m & 5MHs)				[Red bar]	
SG3900	Sewerage (38m & 1 MH)				[Red bar]	
<b>PORTION F</b>						
<b>External Works for Portion F</b>						
<b>Drainage Works</b>						
B00070	Initial Survey			[Red bar]		
SG3930	Drainage Works (122m & 9MHs)			[Red bar]		
SG4050	Sewerage (70m & 3MHs)			[Red bar]		
<b>Waterpipe Laying</b>						
SW3940	Fresh Water Main Laying (205m)				[Red bar]	
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
SU5380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV				[Green bar]	
SU5390	Duct & Cable Laying for TCSS & Lighting				[Red bar]	
<b>PORTION G, H1 &amp; H2</b>						
<b>Portion G Structures</b>						
<b>Box Culvert C</b>						

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<b>Steel H Pile</b>						
SC0280	Box C - 54 nos. of driven H pile, Stage 3	[Actual Work]		[Critical]		
<b>Box Culvert Structure</b>						
SC0310	Box C - Branch Construction			[Remaining Work]		
SC0320	Box C - Branch Backfilling				[Remaining Work]	
SC0380	Box C - Construction of Main Body		[Critical]			
<b>Bridge A1</b>						
<b>Bored Pile</b>						
SA1140	Pile Testing	[Actual Work]				
<b>Pile Cap</b>						
SA1210	Cap - A106	[Actual Work]				
<b>Pier &amp; Abutment</b>						
SA1310	Abutment A106		[Actual Work]	[Remaining Work]		
<b>Structure Deck</b>						
SA1450	Falsework for Deck P101, P102			[Remaining Work]		
SA1460	Deck on P101, P102 + Stressing			[Remaining Work]		
SA1470	Falsework for Deck P104, P105					
SA1480	Deck on P104, P105 + Stressing	[Actual Work]	[Remaining Work]			
SA1490	Falsework for Deck P105, A106			[Remaining Work]		
SA1510	Deck on P105, A106 + Stressing			[Remaining Work]		
<b>Bridge A2</b>						
<b>Structure Deck</b>						
SA2450	Falsework for Deck P201 - P202			[Remaining Work]		
SA2460	Deck on P201 & P202 + Stressing			[Remaining Work]		
SA2470	Parapet (36 pour), E&M Works & installation of DS49		[Actual Work]			
<b>Bridge A3</b>						
<b>Bored Pile</b>						
SA3160	Pile Testing for P304a/b	[Actual Work]				
<b>Pile Cap</b>						
SA3220	Cap - P304a/b		[Actual Work]	[Remaining Work]		
SA3250	Cap - A305			[Remaining Work]		
<b>Pier &amp; Abutment</b>						
SA3320	Pier P304a, P304b			[Remaining Work]		
SA3330	Abutment A305				[Remaining Work]	
SA3350	Pier P303	[Actual Work]				
<b>Structure Deck</b>						
SA3410	Falsework for Deck P301 - P302	[Actual Work]				
SA3420	Deck on P301 - P302 + Stressing		[Actual Work]	[Remaining Work]		
SA3430	Falsework for Deck P302 - P303			[Remaining Work]		
SA3440	Deck on P302 - P303 + Stressing			[Remaining Work]		
SA3450	Falsework for Deck P303 - P304a/P304b					[Remaining Work]
<b>Bridge A4</b>						
<b>Bored Pile</b>						
SA4130	Pile Testing	[Actual Work]				
<b>Pile Cap</b>						
SA4210	Cap - P401			[Remaining Work]		
SA4220	Cap - P402				[Remaining Work]	
<b>Pier &amp; Abutment</b>						
SA4310	Pier P401			[Remaining Work]		
SA4320	Pier P402					[Remaining Work]

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<b>Structure Deck</b>						
SA4410	Falsework for Deck P502b, P401					
SA4420	Deck on P502b, P401 + Stressing					
<b>Bridge A5</b>						
<b>Pile Cap</b>						
SA5230	Cap - P503					
SA5240	Cap - P506					
SA5250	Cap - A501					
SA5260	Cap - P502a/b					
<b>Pier &amp; Abutment</b>						
SA5310	Pier P504					
SA5320	Pier P505					
SA5330	Pier P503					
SA5340	Pier P506					
SA5350	Pier P507					
SA5360	Pier P502a/b					
SA5370	Abutment A501					
<b>Structure Deck</b>						
SA5410	Falsework for Deck P504 - P505					
SA5420	Deck on P504, P505 + Stressing					
SA5430	Falsework for Deck P503 - P504					
SA5440	Deck on P503, P504, + Stressing					
SA5450	Falsework for Deck P505 - P506					
SA5460	Deck on P505, P506 + Stressing					
SA5470	Falsework for Deck P502a, P502b, P503					
SA5510	Falsework for Deck P506 - P507					
<b>Bridge A6</b>						
<b>Pier &amp; Abutment</b>						
SA6370	Abutment A607					
<b>Structure Deck</b>						
SA6410	Deck on P601, P602 + Stressing					
SA6430	Deck on P602, P603 + Stressing					
SA6450	Falsework for Deck P603 - P604					
SA6460	Deck on P603, P604 + Stressing					
SA6470	Falsework for Deck P604, P605					
SA6480	Deck on P604, P605 + Stressing					
SA6490	Falsework for Deck P605, P606					
SA6510	Deck on P605, P606 + Stressing					
<b>Bridge A7a, A7b, A7c</b>						
<b>Bored Pile</b>						
SA7230	Pile Testing for A701, P702, P703					
<b>Pile Cap</b>						
SA7360	Cap for P702					
SA7370	Cap for P703					
SA7380	Cap for A701					
<b>Pier &amp; Abutment</b>						
SA7550	Pier P705					
SA7560	Pier P702					
SA7570	Pier P703					
SA7580	Abutment A701					

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SA7650	Abutment A711	[Actual Work]		[Remaining Work]		
<b>Structure Deck</b>						
SA7720	Deck on P706, P707 & P712 (Bridge A7b) + Stressing	[Actual Work]				
SA7730	Falsework for Deck P705 - P706		[Remaining Work]			
SA7740	Deck on P705 & P706 (Bridge A7a) + Stressing		[Remaining Work]	[Remaining Work]		
SA7750	Falsework for Deck P704, P705			[Remaining Work]		
SA7770	Deck on P704 & P705 (Bridge A7a) + Stressing			[Remaining Work]	[Remaining Work]	
SA7780	Falsework for Deck P703, P704				[Remaining Work]	
SA7790	Deck on P703, P704 (Bridge A7a) + Stressing				[Remaining Work]	[Remaining Work]
SA7850	Falsework for Deck P707, P708 (A7c)	[Actual Work]	[Critical]			
SA7860	Deck on P707, P708 (Bridge A7c) + Stressing		[Critical]	[Critical]		
SA7870	Falsework for Deck P708 - P709 (A7c)	[Actual Work]	[Critical]			
SA7880	Deck on P708 & P709 (Bridge A7c) + Stressing		[Critical]	[Critical]		
SA7890	Falsework for Deck P709, P710 (A7c)	[Actual Work]	[Critical]			
SA7910	Deck on P709, P710 (Bridge A7c) + Stressing				[Critical]	[Critical]
SA7920	Falsework for Deck P710 - A711 (A7c)	[Actual Work]	[Critical]			
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works		[Remaining Work]	[Remaining Work]		
<b>Bridge A8</b>						
<b>Pier &amp; Abutment</b>						
SA8310	Abutment A804	[Actual Work]		[Remaining Work]		
SA8320	Pier P802					
SA8330	Pier P803	[Actual Work]				
<b>Structure Deck</b>						
SA8410	Falsework for Deck P801, P802	[Actual Work]	[Remaining Work]			
SA8420	Deck on P802, P802 + Stressing		[Remaining Work]	[Remaining Work]		
SA8430	Falsework for Deck P802, P803			[Remaining Work]		
SA8440	Deck on P802, P803 + Stressing				[Remaining Work]	[Remaining Work]
<b>Retaining Walls W1-1, W3-1, W5-1 &amp; W7-1</b>						
<b>Retaining Wall W1-1</b>						
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)	[Actual Work]		[Remaining Work]		
<b>Retaining Wall W3-1</b>						
SW3130	Bored Pile for W3-1, 16 Nr.	[Actual Work]		[Remaining Work]		
SW3140	Pile Testing for W3-1				[Remaining Work]	
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)				[Remaining Work]	[Remaining Work]
<b>Retaining Wall W5-1</b>						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)				[Remaining Work]	[Remaining Work]
<b>Portion G Buildings</b>						
<b>002 - C&amp;ED Observation Guard Booth No. 1, Portion H1</b>						
C00220	Excavation + Blinding			[Critical]		
C00230	Raft Foundation			[Critical]	[Critical]	
C00240	Superstructure				[Critical]	[Critical]
<b>002 - C&amp;ED Observation Guard Booth No. 2, Portion H1</b>						
E00210	Excavation + Blinding			[Critical]		
E00220	Raft Foundation			[Critical]	[Critical]	
E00230	Superstructure				[Critical]	[Critical]
<b>033 Inbound Private Car Exam Building</b>						
A03360	External Works		[Remaining Work]	[Remaining Work]		
A03370	BS for Office Accomodation (Stage 8)	[Actual Work]	[Critical]	[Critical]		
A03380	BS + E&M for Office Accomodation (Stage 9)					[Critical]
A03390	Other BS + E&M Installation		[Remaining Work]	[Remaining Work]		

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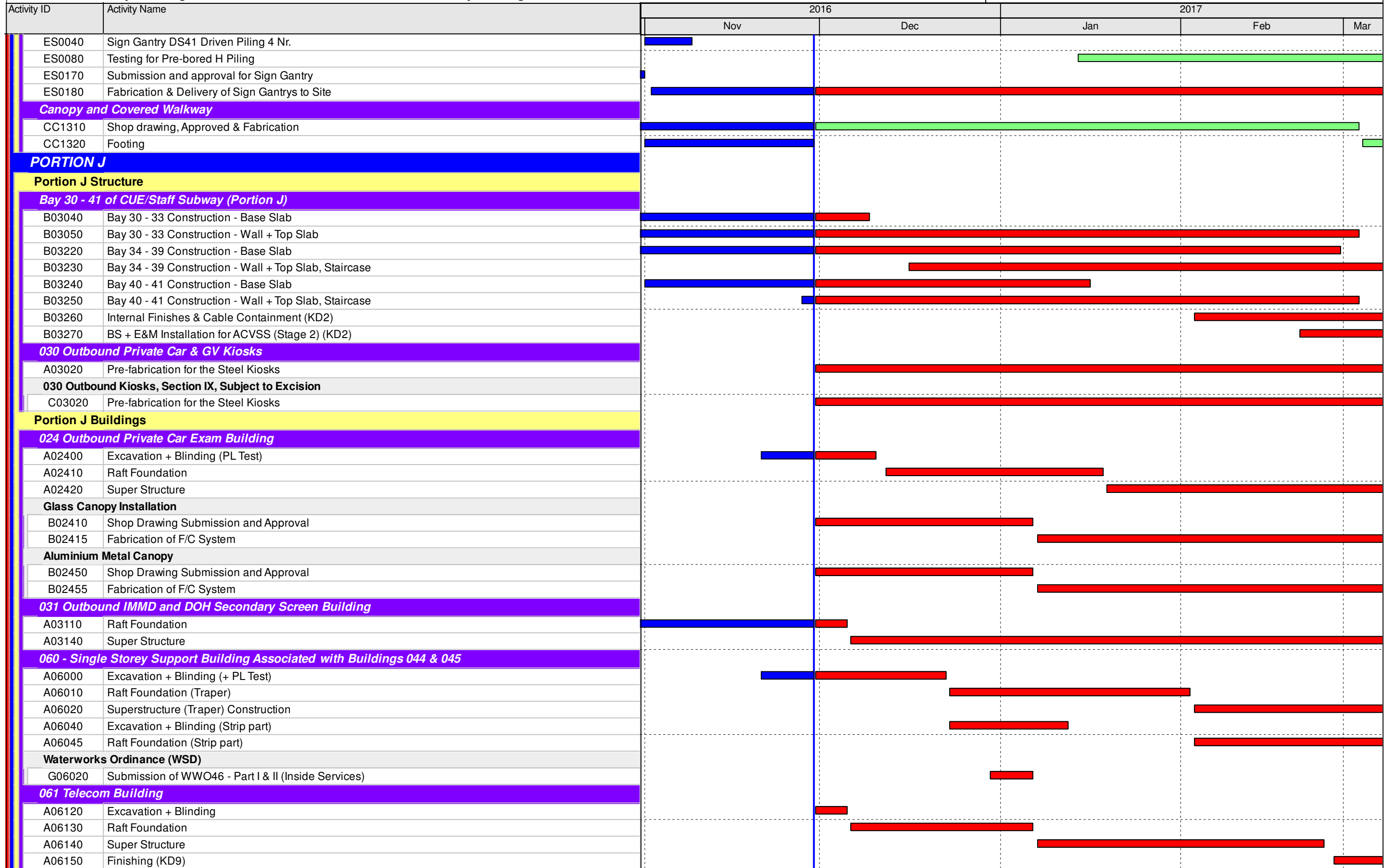
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C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
<b>Glass Canopy Installation</b>						
B03300	Shop Drawing Submission and Approval					
B03305	Fabrication of Glass Canopy					
B03350	Casted-in Items Installation					
<b>Aluminium Metal Canopy</b>						
B03310	Shop Drawing Submission and Approval					
B03315	Fabrication of F/C System					
B03320	Casted-in Items Installation					
<b>034 Satellite RCP South</b>						
A03450	Finishing					
A03460	BS for Office Accommodation (Stage 8)					
A03470	BS + E&M for Office Accommodation (Stage 9)					
A03480	Other BS + E&M Installation					
<b>Test &amp; Commission</b>						
C03410	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
<b>S S Facade Greenery System</b>						
B03410	Shop Drawing Submission for Approval					
B03415	Fabrication of SS F/G System					
<b>035 - Sewage Pumping Station, Portion G</b>						
A03570	Constructing of Base Slab of Wet Well					
A03580	Constructing of Wall Stem of Wet Well					
A03590	Water-tightness Test for Wet Wells					
B03510	Backfilling + Removal of ELS					
B03520	ELS + Blinding for Basement Basement					
B03530	Constructing Base Slab of Basement					
B03540	Constructing Basement Wall & G/F Slab					
B03550	Water-tightness Test for Inlet Chamber					
B03560	Superstructure works					
<b>051 Transformers (Zone 5)</b>						
A05150	Finishing					
A05165	Energisation by CLP					
A05170	BS for Office Accommodations (KD9)					
A05190	Other BS + E & M Installation					
<b>Completion of Fire Services Installation and Equipment (FCD)</b>						
F05140	Approved Building Plans					
<b>100 Inbound Traffic Control Kiosk</b>						
A10050	Finishing					
<b>HPL Composite Panel Cladding System</b>						
B10010	Shop Drawing Submission and Approval					
B10015	Fabrication of F/C System					
<b>112 Field Kiosk for Taxi Queuing Area</b>						
A11230	Structure					
A11240	Finishing					
A11250	BS + E & M Installation					
<b>External Works for Portion G, H1 &amp; H2</b>						
<b>ELV Works within Portion H2 in the Hong Kong Side PTI</b>						
EU1550	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)					
<b>Sign Gantry DS40, DS41 &amp; DS75</b>						
ES0020	Sign Gantry DS40 Pre-bored H Piling, 12 Nr.					

- █ Actual Work
- █ Remaining Work
- █ Critical
- ◆ Milestone

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30-Sep-16	3MRP updated as of 30 Sep. 2016	ZJ	
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30-Nov-16	3MRP updated as of 30 Nov. 2016	ZJ	





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**THREE MONTH ROLLING PROGRAMME  
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

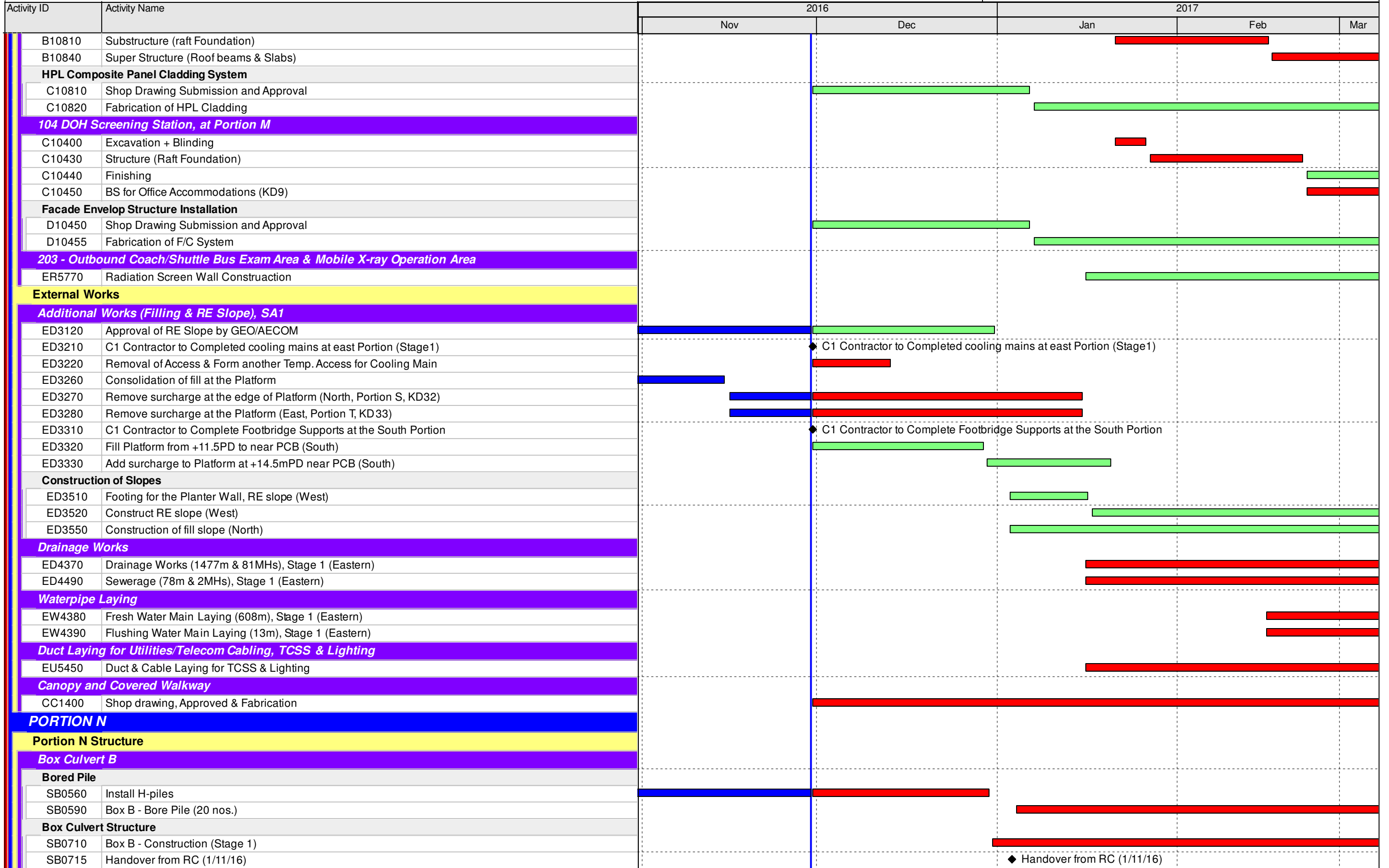
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Activity ID	Activity Name	2016		2017		
		Nov	Dec	Jan	Feb	Mar
A06160	BS for Office Accommodations (KD9)					
<b>Aluminium Metal Canopy</b>						
B06110	Shop Drawing Submission and Approval					
B06115	Fabrication of Aluminium Cladding					
<b>101 Outbound Traffic Control Kiosk</b>						
A10100	Excavation + Blinding					
A10110	Raft Foundation					
A10130	Super Structure (Roof Beams & Slabs)					
A10140	Finishing					
A10150	BS + E&M for AVCSS Works (KD18A)					
A10160	BS + E&M for AVCSS Cabling (KD18B)					
A10170	BS for Office Accommodations (KD9)					
A10190	Other BS + E & M Installation					
C10110	Submission of WWO46 - Part I & II (Inside Services)					
<b>HPL Composite Panel Cladding System</b>						
B10110	Shop Drawing Submission and Approval					
B10120	Fabrication of HPL Cladding					
<b>206 - Outbound Private Car Mobile X-ray Operation Area</b>						
ER5780	Radiation Screen Wall Construction					
<b>External Works for Portion J</b>						
<b>Works in Location 1.7B</b>						
EU1500	ELV Works & T&C in Location 1.7B					
<b>Works in Location 1.7C</b>						
EU1530	ELV Works & T&C in Location 1.7C					
<b>Drainage Works</b>						
ED4220	Drainage Works (1700m & 86MHs), Stage 1 (Northern)					
ED4340	Sewerage (425m & 11MHs), Stage 1 (Northern)					
<b>Waterpipe Laying</b>						
EW4230	Fresh Water Main Laying (770m), Stage 1 (Northern)					
EW4240	Flushing Water Main Laying (431m), Stage 1 (Northern)					
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5430	Duct & Cable Laying for TCSS & Lighting					
<b>Sign Gantry DS104</b>						
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.					
ES5130	Testing for P-bored Piles					
ES5140	Submission and approval for Sign Gantry					
ES5150	Fabrication & Delivery of Sign Gantrys to Site					
<b>PORTION K, L, M, S &amp; T</b>						
<b>Portion K Building</b>						
<b>002 - C&amp;ED Observation Guard Booth No. 1, Portion K</b>						
A00210	Excavation + Blinding					
A00220	Raft Foundation					
<b>002 - C&amp;ED Observation Guard Booth No. 2, Portion K</b>						
B00210	Excavation + Blinding					
B00220	Raft Foundation					
<b>Portion M Buildings</b>						
<b>108 - C&amp;ED Mobile X-ray Operation Office, Portion M</b>						
B10800	Excavation + Blinding					

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Activity ID	Activity Name	2016		2017		
		Nov	Dec	Jan	Feb	Mar
SB0722	Box B - Temporary Works for Construction of Outfall Structure			[Red bar]		
<b>Portion N Buildings</b>						
<b>104 DOH Screening Station, at Portion N</b>						
<b>Facade Envelop Structure Installation</b>						
D10410	Shop Drawing Submission and Approval		[Green bar]			
D10415	Fabrication of F/C System			[Green bar]		
<b>106 C&amp;ED Detention Area Guard Booth</b>						
A10600	Excavation + Blinding	[Red bar]				
A10610	Structure (Raft Foundation)		[Red bar]			
A10640	Finishing			[Red bar]		
E10640	BS for Office Accommodations (KD9)			[Red bar]		
E10660	Other BS + E & M Installation			[Green bar]		
<b>Facade Envelop Structure Installation</b>						
B10610	Shop Drawing Submission and Approval		[Green bar]			
B10615	Fabrication of F/C System			[Green bar]		
<b>107 C&amp;ED Mobile X-ray Operation Office, Portion N</b>						
A10700	Excavation + Blinding		[Red bar]			
A10710	Substructure (Raft Foundation)			[Red bar]		
A10740	Super Structure				[Red bar]	
<b>HPL Composite Panel Cladding System</b>						
B10710	Shop Drawing Submission and Approval			[Green bar]		
B10720	Fabrication of HPL Composite Panel System				[Green bar]	
<b>200 - Inbound/Outbound Vehicle Detection Area</b>						
ER5810	Construction of the Area and Access to the Interface Contractor			[Green bar]		
<b>202 - Outbound Cargo Mobile X-ray Operation Area</b>						
ER5790	Radiation Screen Wall Construction		[Red bar]	[Red bar]	[Red bar]	[Red bar]
<b>External Works for Portion N</b>						
<b>Works in Location 1.7A</b>						
EU1540	ELV Works & T&C in Location 1.7A		[Red bar]	[Red bar]	[Red bar]	[Red bar]
<b>Drainage Works</b>						
AS0150	Initial Survey	[Red bar]				
ED4620	Drainage Works (964m & 56MHs), Stage 1 (Southern)		[Red bar]	[Red bar]	[Red bar]	[Red bar]
ED4650	Sewerage (383m & 12MHs), Stage 1 (Southern)		[Red bar]	[Red bar]	[Red bar]	[Red bar]
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
EU5470	Duct & Cable Laying for TCSS & Lighting			[Red bar]	[Red bar]	[Red bar]
<b>PORTION P</b>						
<b>Portion Structure</b>						
<b>Retaining Wall RW1</b>						
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)		[Green bar]	[Green bar]	[Green bar]	[Green bar]
<b>Portion P Buildings</b>						
<b>105 IMMD Guard Booth, Portion P</b>						
A10510	Excavation + Blinding	[Red bar]				
A10520	Substructure (Raft Foundation)		[Red bar]			
A10530	On Grade Ground Slab			[Red bar]		
A10540	Finishing			[Red bar]		
E10500	BS for Office Accommodations (KD9)			[Red bar]		
E10510	BS + E&M for Office Accommodation (KD10)				[Green bar]	
E10520	Other BS + E & M Installation				[Green bar]	
<b>Facade Envelop Structure Installation</b>						

█ Actual Work  
█ Remaining Work  
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Activity ID	Activity Name	2016		2017		
		Nov	Dec	Jan	Feb	Mar
A10560	Shop Drawing Submission and Approval					
A10565	Fabrication of F/C System					
<b>External Works for Portion P</b>						
<b>Drainage Works</b>						
AS0160	Initial Survey					
ED4670	Drainage Works (2957m & 128MHs)					
ED4790	Sewerage (269m & 7MHs)					
<b>Waterpipe Laying</b>						
EW4680	Fresh Water Main Laying (1270m)					
EW4690	Flushing Water Main Laying (455m)					
<b>PORTION Q</b>						
<b>External Works for Portion Q</b>						
<b>Duct Laying for Utilities/Telecom Cabling, TCSS &amp; Lighting</b>						
ED5570	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
ED5580	Duct & Cable Laying for TCSS & Lighting					
EU1490	ELV System Installation for Contract HY/2013/04					
<b>Roadworks</b>						
AS0170	Initial Survey					
ER4920	Subbase (104 ton)					
ER4950	Bitumen Pavement (215 ton)					
<b>Railing</b>						
ER4890	Railing					
<b>Road Furniture</b>						
ER4900	Road Furniture					
<b>PORTION R</b>						
<b>Portion R Building</b>						
<b>002 - C&amp;ED Observation Guard Booth, Portion R</b>						
D00210	Excavation + Blinding					
D00220	Raft Foundation					
D00230	Superstructure					
<b>External Works for Portion R</b>						
<b>Drainage Works</b>						
AS0180	Initial Survey					
<b>Landscape Works</b>						
A5170	Design and Procurement for Irrigation System					
A5180	Installation of Irrigation System					
A5190	All landscape Soft & Hard Works					

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█ Remaining Work  
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**VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**  
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015		2016				2017				2018				2019	
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
<b>Hong Kong-Zhuhai_Macao Bridge Hong Kong Boundary Crossir</b>						1266	31-Jul-15 A	30-Jan-19													30-Jan-19, H
<b>Key Dates</b>						901	31-Jul-15 A	30-Jan-18													30-Jan-18, Key Dates
A1000	Acceptance of Contract	0	31-Jul-15 A		0													◆ Acceptance of Contract, 31-Jul-15 A			
A1010	Commencement of Works	0	14-Aug-15*		0													◆ Commencement of Works, 14-Aug-15*			
A1020	Excision of Phase 2 (Section II & III)	365	14-Aug-15	12-Aug-16	0													■ Excision of Phase 2 (Section II & III)			
A1120	KD1 (Phase 1 / Section I) (28 Kiosks)	0		24-Jul-17*	0													◆ KD1 (Phase 1 / Section I) (28 Kiosks)			
A1470	KD2 (Phase 2 / Section II) (2 Kiosks)	0		02-Oct-17*	0													◆ KD2 (Phase 2 / Section II) (2 Kiosks)			
A1480	KD3 (Phase 2 / Section III) (42 Kiosks)	0		30-Jan-18*	0													◆ KD3 (Phase 2 / Section III) (42 Kiosks)			
<b>Interface Activities</b>						430	14-Aug-15	16-Oct-16													16-Oct-16, Interface Activities
A6860	Interface Management Plan Submission between C6 and C1	212	14-Aug-15	12-Mar-16	154													■ Interface Management Plan Submission between C6 and C1			
A6865	Interface Management Plan between C6 and C1 reviewed by Engineer	14	13-Mar-16	26-Mar-16	154													■ Interface Management Plan between C6 and C1 reviewed by Engineer			
A6870	Detailed Interface Document Submission between C6 and C1	30	27-Mar-16	25-Apr-16	154													■ Detailed Interface Document Submission between C6 and C1			
A6875	Detailed Interface Document between C6 and C1 reviewed by Engineer	14	26-Apr-16	09-May-16	154													■ Detailed Interface Document between C6 and C1 reviewed by Engineer			
A6880	Interface Management Plan Submission between C6 and C3	262	14-Aug-15	01-May-16	76													■ Interface Management Plan Submission between C6 and C3			
A6885	Interface Management Plan between C6 and C3 reviewed by Engineer	14	02-May-16	15-May-16	76													■ Interface Management Plan between C6 and C3 reviewed by Engineer			
A6890	Detailed Interface Document Submission between C6 and C3	30	16-May-16	14-Jun-16	76													■ Detailed Interface Document Submission between C6 and C3			
A6895	Detailed Interface Document between C6 and C3 reviewed by Engineer	14	15-Jun-16	28-Jun-16	76													■ Detailed Interface Document between C6 and C3 reviewed by Engineer			
A6900	Interface Management Plan Submission between C6 and C8	372	14-Aug-15	19-Aug-16	128													■ Interface Management Plan Submission between C6 and C8			
A6905	Interface Management Plan between C6 and C8 reviewed by Engineer	14	20-Aug-16	02-Sep-16	128													■ Interface Management Plan between C6 and C8 reviewed by Engineer			
A6910	Detailed Interface Document Submission between C6 and C8	30	03-Sep-16	02-Oct-16	128													■ Detailed Interface Document Submission between C6 and C8			
A6915	Detailed Interface Document between C6 and C8 reviewed by Engineer	14	03-Oct-16	16-Oct-16	128													■ Detailed Interface Document between C6 and C8 reviewed by Engineer			
<b>Site and Facility Inspection</b>						424	26-Apr-16	23-Jun-17													23-Jun-17, Site and Facility Inspection
A4730	Pre Site and Facility Inspection by Contractor at Location 1 - Deg1	7	26-Apr-16*	02-May-16	154													■ Pre Site and Facility Inspection by Contractor at Location 1 - Deg1			
A4740	Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1	7	03-May-16	09-May-16	154													■ Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1			
A4760	Pre Site and Facility Inspection by Contractor at Location 2 - Deg1	7	25-Jun-16*	01-Jul-16	94													■ Pre Site and Facility Inspection by Contractor at Location 2 - Deg1			
A4770	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1	7	02-Jul-16*	08-Jul-16	94													■ Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1			
A4772	Pre Site and Facility Inspection by Contractor at Location 2 - Deg2	7	14-Aug-16*	20-Aug-16	122													■ Pre Site and Facility Inspection by Contractor at Location 2 - Deg2			
A4774	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2	7	21-Aug-16	27-Aug-16	122													■ 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	7	21-Aug-16*	27-Aug-16	122													■ 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	7	03-Sep-16*	09-Sep-16	87													■ Pre Site and Facility Inspection by Contractor at Location 3 - Deg1			
A4790	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1	7	10-Sep-16	16-Sep-16	87													■ Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1			
A4800	Pre Site and Facility Inspection by Contractor at Location 3 - Deg2	7	31-Jan-17*	06-Feb-17	0													■ Pre Site and Facility Inspection by Contractor at Location 3 - Deg2			
A4810	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2	7	07-Feb-17	13-Feb-17	0													■ Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2			
A4820	Pre Site and Facility Inspection by Contractor at Location 3a - Deg1	7	03-Sep-16*	09-Sep-16	115													■ Pre Site and Facility Inspection by Contractor at Location 3a - Deg1			
A4830	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1	7	10-Sep-16	16-Sep-16	115													■ Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1			
A4840	Pre Site and Facility Inspection by Contractor at Location 3a - Deg2	7	22-Nov-16*	28-Nov-16	70													■ Pre Site and Facility Inspection by Contractor at Location 3a - Deg2			
A4850	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2	7	29-Nov-16	05-Dec-16	70													■ 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	7	29-Nov-16*	05-Dec-16	119													■ 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	7	11-Jan-17*	17-Jan-17	20													■ Pre Site and Facility Inspection by Contractor at Location 4 - Deg1			
A4870	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1	7	18-Jan-17	24-Jan-17	20													■ Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1			
A4880	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2	7	10-Jun-17*	16-Jun-17	586													■ Pre Site and Facility Inspection by Contractor at Location 4 - Deg2			
A4890	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2	7	17-Jun-17	23-Jun-17	586													■ Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2			
A4891	Pre Site and Facility Inspection by Contractor at Location 4a - Deg1	7	11-Jan-17*	17-Jan-17	41													■ Pre Site and Facility Inspection by Contractor at Location 4a - Deg1			

Programme No.: HZMB-DWP Data Date: 14-Aug-15	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: blue; border: 1px solid black;"></span> Actual Level of Effort</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: red; border: 1px solid black;"></span> Actual Work</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: green; border: 1px solid black;"></span> Remaining Work</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: orange; border: 1px solid black;"></span> Critical Remaining Work</li> <li><span style="display: inline-block; width: 0; height: 0; border-left: 5px solid transparent; border-right: 5px solid transparent; border-bottom: 10px solid black;"></span> Milestone</li> <li><span style="display: inline-block; width: 0; height: 0; border-left: 5px solid transparent; border-right: 5px solid transparent; border-bottom: 10px solid black;"></span> summary</li> </ul>	<b>Hong Kong-Zhuhai-Macao Bridge</b> <b>Hong Kong Boundary Crossing</b> <b>Facilities - Automatic Vehicle</b> <b>Clearance Support System (AVCSS)</b>		Date	Revision	Checked	Approved
				14-Nov-16	Rev.: 0	WC	LC







Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015		2016				2017				2018				2019	
						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)	0	05-May-17*		0																◆ Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d), 05-May-17*
A1170	Location 5(Common Utility Enclosure & Staff Subway)-Deg1 (320d)	0	29-Jun-16*		76																◆ Location 5(Common Utility Enclosure & Staff Subway)-Deg1 (320d), 29-Jun-16*
A1180	Location 5(Common Utility Enclosure & Staff Subway)-Deg2 (-)	0	16-Nov-16*		121																◆ Location 5(Common Utility Enclosure & Staff Subway)-Deg2 (-), 16-Nov-16*
A1190	Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)	0	17-Sep-16*		59																◆ Location 6(Common Utility Enclosure & Staff Subway)-Deg1 (400d), 17-Sep-16*
A1200	Location 6(Common Utility Enclosure & Staff Subway)-Deg2 (-)	0	06-Nov-16*		131																◆ Location 6(Common Utility Enclosure & Staff Subway)-Deg2 (-), 06-Nov-16*
A1210	Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)	0	10-May-16*		126																◆ Location 7(Common Utility Enclosure & Staff Subway)-Deg1 (270d), 10-May-16*
A1230	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)	0	17-Oct-16*		128																◆ Location 8(Inbd Private Car Annex (025))-Deg1 (430d), 17-Oct-16*
A1240	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)	0	16-May-17*		0																◆ Location 8(Inbd Private Car Annex (025))-Deg2 (580d), 16-May-17*
A1241	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)	0	17-Oct-16*		128																◆ Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d), 17-Oct-16*
A1242	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)	0	16-May-17*		625																◆ Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d), 16-May-17*
A1250	Location 9(Outbd Private Car Annex (032))-Deg1 (520d)	0	15-Jan-17*		64																◆ Location 9(Outbd Private Car Annex (032))-Deg1 (520d), 15-Jan-17*
A1260	Location 9(Outbd Private Car Annex (032))-Deg2 (660d)	0	04-Jun-17*		0																◆ Location 9(Outbd Private Car Annex (032))-Deg2 (660d), 04-Jun-17*
A1261	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)	0	15-Jan-17*		64																◆ Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d), 15-Jan-17*
A1262	Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)	0	04-Jun-17*		606																◆ Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d), 04-Jun-17*
A1270	Location 10(Shuttle Bus Kiosks (006))-Deg1 (480d)	0	06-Dec-16*		30																◆ Location 10(Shuttle Bus Kiosks (006))-Deg1 (480d), 06-Dec-16*
A1280	Location 10(Shuttle Bus Kiosks (006))-Deg2 (550d)	0	14-Feb-17*		40																◆ Location 10(Shuttle Bus Kiosks (006))-Deg2 (550d), 14-Feb-17*
A1281	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg1 (480d)	0	06-Dec-16*		70																◆ Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg1 (480d), 06-Dec-16*
A1282	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg2 (550d)	0	14-Feb-17*		716																◆ Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg2 (550d), 14-Feb-17*
A1290	Location 11(Outbd Coach Kiosks (009))-Deg1 (400d)	0	17-Sep-16*		190																◆ Location 11(Outbd Coach Kiosks (009))-Deg1 (400d), 17-Sep-16*
A1300	Location 11(Outbd Coach Kiosks (009))-Deg2 (480d)	0	06-Dec-16*		140																◆ Location 11(Outbd Coach Kiosks (009))-Deg2 (480d), 06-Dec-16*
A1301	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg1 (400d)	0	17-Sep-16*		190																◆ Location 11(Outbd Coach Kiosks (009) Canopy)-Deg1 (400d), 17-Sep-16*
A1302	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg2 (480d)	0	06-Dec-16*		786																◆ Location 11(Outbd Coach Kiosks (009) Canopy)-Deg2 (480d), 06-Dec-16*
A1303	Location 11(Inbd Coach Kiosks (010))-Deg1 (400d)	0	17-Sep-16*		70																◆ Location 11(Inbd Coach Kiosks (010))-Deg1 (400d), 17-Sep-16*
A1304	Location 11(Inbd Coach Kiosks (010))-Deg2 (480d)	0	06-Dec-16*		198																◆ Location 11(Inbd Coach Kiosks (010))-Deg2 (480d), 06-Dec-16*
A1305	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg1 (400d)	0	17-Sep-16*		220																◆ Location 11(Inbd Coach Kiosks (010) Canopy)-Deg1 (400d), 17-Sep-16*
A1306	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg2 (480d)	0	06-Dec-16*		786																◆ Location 11(Inbd Coach Kiosks (010) Canopy)-Deg2 (480d), 06-Dec-16*
A1310	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d)	0	17-Sep-16*		24																◆ Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d), 17-Sep-16*
A1311	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d)	0	06-Dec-16*		33																◆ Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d), 06-Dec-16*
A1312	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d)	0	17-Sep-16*		24																◆ Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d), 17-Sep-16*
A1313	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d)	0	06-Dec-16*		786																◆ Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d), 06-Dec-16*
A1314	Location 12(Inbd GV Kiosks (028))-Deg1 (400d)	0	17-Sep-16*		0																◆ Location 12(Inbd GV Kiosks (028))-Deg1 (400d), 17-Sep-16*
A1315	Location 12(Inbd GV Kiosks (028))-Deg2 (480d)	0	06-Dec-16*		78																◆ Location 12(Inbd GV Kiosks (028))-Deg2 (480d), 06-Dec-16*
A1316	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d)	0	17-Sep-16*		0																◆ Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d), 17-Sep-16*
A1317	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d)	0	06-Dec-16*		786																◆ Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d), 06-Dec-16*
A1318	Location 12(Outbd GV Kiosks (029))-Deg1 (400d)	0	17-Sep-16*		48																◆ Location 12(Outbd GV Kiosks (029))-Deg1 (400d), 17-Sep-16*
A1319	Location 12(Outbd GV Kiosks (029))-Deg2 (480d)	0	06-Dec-16*		33																◆ Location 12(Outbd GV Kiosks (029))-Deg2 (480d), 06-Dec-16*
A1320	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d)	0	17-Sep-16*		48																◆ Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d), 17-Sep-16*
A1321	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d)	0	06-Dec-16*		786																◆ Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d), 06-Dec-16*
A1330	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d)	0	06-Dec-16*		0																◆ Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d), 06-Dec-16*
A1340	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d)	0	14-Feb-17		0																◆ Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d), 14-Feb-17
A1341	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d)	0	06-Dec-16*		0																◆ Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d), 06-Dec-16*
A1342	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d)	0	14-Feb-17*		716																◆ Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d), 14-Feb-17*
A1350	Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg1 (610d)	0	15-Apr-17*		68																◆ Location 14(Future-Outbd/Inbd Private Car Kiosks)-Deg1 (610d), 15-Apr-17*
A1370	Location 15(Inbd Traffic Control Kiosk (100))-Deg1 (400d)	0	17-Sep-16*		206																◆ Location 15(Inbd Traffic Control Kiosk (100))-Deg1 (400d), 17-Sep-16*
A1380	Location 15(Inbd Traffic Control Kiosk (100))-Deg2 (480d)	0	06-Dec-16*		140																◆ Location 15(Inbd Traffic Control Kiosk (100))-Deg2 (480d), 06-Dec-16*

Programme No.: HZMB-DWP Data Date: 14-Aug-15	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: blue; border: 1px solid black;"></span> Actual Level of Effort</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Actual Work</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: lightgreen; border: 1px solid black;"></span> Remaining Work</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: red; border: 1px solid black;"></span> Critical Remaining Work</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black; border-radius: 50%;"></span> Milestone</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid black; border-bottom: 3px double black;"></span> summary</li> </ul>	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities - Automatic Vehicle Clearance Support System (AVCSS)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>14-Nov-16</td> <td>Rev.: 0</td> <td>WC</td> <td>LC</td> </tr> </table>	Date	Revision	Checked	Approved	14-Nov-16	Rev.: 0	WC	LC
Date	Revision	Checked	Approved									
14-Nov-16	Rev.: 0	WC	LC									

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015-2019																			
						2015				2016				2017				2018				2019			
						Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
A1390	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d)	0	17-Sep-16*		227																			◆ Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d), 17-Sep-16*	
A1400	Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d)	0	06-Dec-16*		161																			◆ Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d), 06-Dec-16*	
A1410	Location 17(Inbd Private Car Exam Bldg(033))-Deg1 (-)	0	01-Dec-16*		145																			◆ Location 17(Inbd Private Car Exam Bldg(033))-Deg1 (-), 01-Dec-16*	
A1420	Location 17(Inbd Private Car Exam Bldg(033))-Deg2 (550d)	0	14-Feb-17*		77																			◆ Location 17(Inbd Private Car Exam Bldg(033))-Deg2 (550d), 14-Feb-17*	
A1430	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)	0	14-Jun-17*		0																			◆ Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-), 14-Jun-17*	
A1440	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)	0	14-Jun-17*		7																			◆ Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d), 14-Jun-17*	
A1450	Location 19(DOH Cargo Clearance Bldg(043))-Deg1 (-)	0	14-Feb-17*		0																			◆ Location 19(DOH Cargo Clearance Bldg(043))-Deg1 (-), 14-Feb-17*	
A1460	Location 19(DOH Cargo Clearance Bldg(043))-Deg2 (550d)	0	14-Feb-17*		35																			◆ Location 19(DOH Cargo Clearance Bldg(043))-Deg2 (550d), 14-Feb-17*	
A1461	Underground Ducting between Inbd Cargo Exam Bldg (037) and DOH Cargo Clearance Bldg (043) and CUE	0	29-Jun-16*		167																			◆ Underground Ducting between Inbd Cargo Exam Bldg (037) and DOH Cargo Clearance Bldg (043) and CUE, 29-Jun-16*	
A1462	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clearance Plaza	0	29-Jun-16*		228																			◆ Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clearance Plaza, 29-Jun-16*	
A1463	Underground Ducting between CUE and Outbd Car Exam Bldg (023)	0	29-Jun-16*		230																			◆ Underground Ducting between CUE and Outbd Car Exam Bldg (023), 29-Jun-16*	
A1464	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle Clearance Plaza	0	29-Jun-16*		262																			◆ Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle Clearance Plaza, 29-Jun-16*	
A1465	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza	0	29-Jun-16*		262																			◆ Underground Ducting between CUE and Outbd Vehicle Clearance Plaza, 29-Jun-16*	
A1466	Underground Ducting between CUE and Inbd P. Car Annex (025) and Shuttle Bus Kiosks (006)	0	13-Aug-16*		145																			◆ Underground Ducting between CUE and Inbd P. Car Annex (025) and Shuttle Bus Kiosks (006), 13-Aug-16*	
A1467	Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)	0	13-Aug-16*		105																			◆ Underground Ducting between PCB(001) and Inbd Coach Kiosks(010), 13-Aug-16*	
A1468	Underground Ducting between CUE and Outbd PCA (032)	0	13-Aug-16*		219																			◆ Underground Ducting between CUE and Outbd PCA (032), 13-Aug-16*	
A1478	Inbound Vehicle Clearance Plaza (Assume same as Location 3)	0	14-Feb-17*		0																			◆ Inbound Vehicle Clearance Plaza (Assume same as Location 3), 14-Feb-17*	
A1488	Outbound Vehicle Clearance Plaza (Assume same as Location 4 degree 1 + 51 day)	0	17-Mar-17*		1																			◆ Outbound Vehicle Clearance Plaza (Assume same as Location 4 degree 1 + 51 day), 17-Mar-17, Interfaces/Provisions	
<b>Interfaces Provisions</b>		31	14-Feb-17	17-Mar-17	36																				
A7000	Inbound VID foundation and mounting structure (assume same as Access date of Inbound Vehicle Clearance Plaza)	0	14-Feb-17*		0																			◆ Inbound VID foundation and mounting structure (assume same as Access date of Inbound Vehicle Clearance Plaza), 14-Feb-17*	
A7010	Inbound VTS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)	0	14-Feb-17*		16																			◆ Inbound VTS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza), 14-Feb-17*	
A7020	Inbound TLS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)	0	14-Feb-17*		24																			◆ Inbound TLS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza), 14-Feb-17*	
A7030	Outbound VID foundation and mounting structure (assume same as Access date of Outbound Vehicle Clearance Plaza)	0	17-Mar-17		1																			◆ Outbound VID foundation and mounting structure (assume same as Access date of Outbound Vehicle Clearance Plaza), 17-Mar-17	
A7040	Outbound VTS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)	0	17-Mar-17		17																			◆ Outbound VTS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza), 17-Mar-17	
A7050	Outbound TLS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)	0	17-Mar-17		36																			◆ Outbound TLS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza), 17-Mar-17	
<b>WA4 Site Erection &amp; Servicing</b>		92	14-Aug-15	14-Nov-15	1174																			14-Nov-15, WA4 Site Erection & Servicing	
A1740	Possession of Site	0	14-Aug-15*		1230																			◆ Possession of Site, 14-Aug-15*	
A1750	Method Statement & Drawing	42	14-Aug-15	24-Sep-15	1224																			■ Method Statement & Drawing	
A1760	Place Order to prepare materials	31	14-Aug-15	13-Sep-15	1230																			■ Place Order to prepare materials	
A1770	Review, revise and approve method statement	14	25-Sep-15*	08-Oct-15	1209																			■ Review, revise and approve method statement	
A1780	Equipment mobilization and construction material delivered to the site	1	25-Oct-15*	25-Oct-15	1193																			■ Equipment mobilization and construction material delivered to the site	
A1790	Set up the alignment and level of the u-channel	1	14-Sep-15	14-Sep-15	1234																			■ Set up the alignment and level of the u-channel	
A1800	Trial pit excavation	1	14-Sep-15	14-Sep-15	1234																			■ Trial pit excavation	
A1801	Excavation for chain-link fence footing	5	14-Sep-15	18-Sep-15	1230																			■ Excavation for chain-link fence footing	
A4540	Underground Utility detection	1	28-Oct-15*	28-Oct-15	1190																			■ Underground Utility detection	
A4550	Delivery of asphalt and fencing materials	1	30-Oct-15*	30-Oct-15	1188																			■ Delivery of asphalt and fencing materials	
A4560	Trimming and leveling soil surface for paving asphalt material	2	02-Nov-15*	03-Nov-15	1184																			■ Trimming and leveling soil surface for paving asphalt material	
A4570	Remove the vegetation and lose material on the soil surface by backhoe	2	02-Nov-15*	03-Nov-15	1184																			■ Remove the vegetation and lose material on the soil surface by backhoe	
A4580	Set out the alignment and level of the u-channel	1	02-Nov-15*	02-Nov-15	1185																			■ Set out the alignment and level of the u-channel	

Programme No.: HZMB-DWP 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
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015-2019																			
						2015				2016				2017				2018				2019			
						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	3	02-Nov-15*	04-Nov-15	1183																				
A4600	Excavation for underground drainage pipe	1	04-Nov-15*	04-Nov-15	1183																				
A4610	Evenly spread the asphalt scrap material by backhoe	3	05-Nov-15*	07-Nov-15	1180																				
A4620	Cast concrete for the u-channel and underground drainage pipe	1	05-Nov-15*	05-Nov-15	1182																				
A4630	Remove the u-channel framework	1	06-Nov-15*	06-Nov-15	1181																				
A4640	Installation of chain-link fencing along the site boundary	2	06-Nov-15*	07-Nov-15	1180																				
A4650	Installation of access doors	1	07-Nov-15*	07-Nov-15	1180																				
A4660	Excavation for drainage ditch	3	06-Nov-15*	09-Nov-15	1010																				
A4670	Cast concrete for the drainage ditch	1	10-Nov-15*	10-Nov-15	1177																				
A4680	Compact the asphalt scrap material	2	09-Nov-15*	10-Nov-15	1177																				
A4690	Land surveying	1	11-Nov-15*	11-Nov-15	1174																				
A4700	Inspection of chain-link fencing and access doors	1	12-Nov-15*	12-Nov-15	1174																				
A4710	Testing of drains	1	13-Nov-15*	13-Nov-15	1174																				
A4720	Completion of the works	0	14-Nov-15		1174																				
<b>Detailed Design Specification</b>		<b>365</b>	<b>14-Aug-15</b>	<b>12-Aug-16</b>	<b>0</b>																				
A1808	Preliminary System Proposal Submission	28	14-Aug-15	10-Sep-15	0																				
A1809	Engineer's agreement with preliminary system proposal	45	11-Sep-15	25-Oct-15	0																				
A1810	Draft Detailed Design Specification (DDS) Submission	48	26-Oct-15	12-Dec-15	0																				
A1814	Draft Hardware Function Design Specification for Computer system and Network system (HFD)	48	26-Oct-15	12-Dec-15	0																				
A1815	Draft Software Function Design Specification for Computer system and Network system (SFD)	48	26-Oct-15	12-Dec-15	0																				
A1820	Engineer's Review and Approval for Draft Detailed Design Specification (DDS)	60	13-Dec-15*	10-Feb-16	0																				
A1823	Engineer's Review and Approval for Draft Hardware FDS for Computer system and Network system (HFD)	60	13-Dec-15*	10-Feb-16	0																				
A1824	Engineer's Review and Approval for Draft Software FDS for Computer system and Network system (SFD)	60	13-Dec-15*	10-Feb-16	0																				
A1829	Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMD (AVCS)	29	01-Feb-16*	29-Feb-16	0																				
A1830	Final DDS Submission (AVCSS, VTS, VIDS)(Phase 1/Section I)	30	01-Mar-16	30-Mar-16	0																				
A1831	Development of System Security Plan	49	11-Feb-16	30-Mar-16	0																				
A1840	Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section I)	30	31-Mar-16	29-Apr-16	0																				
A1850	Final DDS Submission (AVCSS)(Phase 2/Section II&III)	60	30-Apr-16	28-Jun-16	0																				
A1860	Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&III)	45	29-Jun-16*	12-Aug-16	0																				
<b>Construction Design and Management</b>		<b>60</b>	<b>07-May-16</b>	<b>05-Jul-16</b>	<b>52</b>																				
A6920	Construction Health and Safety Plan Submission	30	07-May-16*	05-Jun-16	52																				
A6930	Construction Health and Safety Plan reviewed by Engineer	30	06-Jun-16	05-Jul-16	52																				
<b>Supply/Manufacture Mock-up items</b>		<b>82</b>	<b>30-Apr-16</b>	<b>20-Jul-16</b>	<b>51</b>																				
A4749	Preparation of Kiosk equipment Mock-up	68	30-Apr-16	06-Jul-16	51																				
A4750	Installation of Kiosk equipment Mock-up	14	07-Jul-16	20-Jul-16	51																				
<b>Supply/Manufacture prototypes</b>		<b>60</b>	<b>30-Apr-16</b>	<b>28-Jun-16</b>	<b>0</b>																				
A2900	Manufacture LED Display Prototype (VID, ODB and XDB)	60	30-Apr-16	28-Jun-16	0																				
A2910	Manufacture All-In-One Panel Prototype (AIOP)	60	30-Apr-16	28-Jun-16	0																				
<b>Software Design, Coding and Testing</b>		<b>407</b>	<b>11-Apr-16</b>	<b>22-May-17</b>	<b>0</b>																				

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015		2016				2017				2018				2019							
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2					
<b>Coding</b>						270	11-Apr-16	05-Jan-17	0	05-Jan-17, Coding																	
A5460	CCS, SURCON, SYSCON, CDBS Development Stage 1	70	11-Apr-16*	19-Jun-16	0	CCS, SURCON, SYSCON, CDBS Development Stage 1																					
A5500	VTS Development Stage 1	70	11-Apr-16*	19-Jun-16	0	VTS Development Stage 1																					
A5510	VIDS Development Stage 1	64	11-Apr-16*	13-Jun-16	15	VIDS Development Stage 1																					
A5540	CCS, SURCON, SYSCON, CDBS Development Stage 2	170	20-Jul-16	05-Jan-17	0	CCS, SURCON, SYSCON, CDBS Development Stage 2																					
A5580	VTS Development Stage 2	170	20-Jul-16	05-Jan-17	0	VTS Development Stage 2																					
A5590	VIDS Development Stage 2	162	28-Jul-16	05-Jan-17	0	VIDS Development Stage 2																					
<b>Software System Inetgration</b>						388	30-Apr-16	22-May-17	0	22-May-17, Software System Inetgration																	
A5520	Test Plan Documentation Submission	237	30-Apr-16	22-Dec-16	0	Test Plan Documentation Submission																					
A5530	Engineer's Review and Approval for Test Plan Documentation Submission	14	23-Dec-16	05-Jan-17	0	Engineer's Review and Approval for Test Plan Documentation Submission																					
A5600	Software System Integration Test	45	06-Jan-17	19-Feb-17	0	Software System Integration Test																					
A5630	CCS/SYSCON/SURCON/CDBS/VTS/VIDS Software Enhancement	50	20-Feb-17	10-Apr-17	0	CCS/SYSCON/SURCON/CDBS/VTS/VIDS Software Enhancement																					
A5640	Software User Acceptance Test (UAT)	42	11-Apr-17	22-May-17	0	Software User Acceptance Test (UAT)																					
<b>Prototype &amp; Software Simulation Tests</b>						133	30-Apr-16	09-Sep-16	0	09-Sep-16, Prototype & Software Simulation Tests																	
A1910	Prototype Test Document	30	30-Apr-16	29-May-16	6	Prototype Test Document																					
A2130	Engineer's Approval for Testing Document	15	30-May-16	13-Jun-16	6	Engineer's Approval for Testing Document																					
A2920	CCWS with CDBS, SURCON and SYSCON (Software Simulation/ Software Integration Test)	30	20-Jun-16	19-Jul-16	0	CCWS with CDBS, SURCON and SYSCON (Software Simulation/ Software Integration Test)																					
A2930	Vehicle Tracking System (VTS) (Software Simulation/ Software Integration Test)	30	20-Jun-16	19-Jul-16	0	Vehicle Tracking System (VTS) (Software Simulation/ Software Integration Test)																					
A2950	LED Displays (VID, ODB and XDB)	29	29-Jun-16*	27-Jul-16	0	LED Displays (VID, ODB and XDB)																					
A2960	All-In-One Panel (AIOP)	29	29-Jun-16*	27-Jul-16	0	All-In-One Panel (AIOP)																					
A3020	Prototype Testing Report Submission	30	28-Jul-16	26-Aug-16	0	Prototype Testing Report Submission																					
A4350	Engineer's Approval for Prototype Testing Report	14	27-Aug-16	09-Sep-16	0	Engineer's Approval for Prototype Testing Report																					
<b>Procurement - Phase 1 / Section I</b>						242	30-Apr-16	27-Dec-16	0	27-Dec-16, Procurement - Phase 1 / Section I																	
A3070	Procurement of Equipment for Phase 1/Section I	242	30-Apr-16	27-Dec-16	0	Procurement of Equipment for Phase 1/Section I																					
A3080	Procurement of Cable and Accessories for Phase 1 /Section I	122	30-Apr-16	29-Aug-16	0	Procurement of Cable and Accessories for Phase 1 /Section I																					
A3990	Procurement of All Servers and Workstations	242	30-Apr-16	27-Dec-16	0	Procurement of All Servers and Workstations																					
<b>Supply/Manufacture products for FAT</b>						62	10-Sep-16	10-Nov-16	0	10-Nov-16, Supply/Manufacture products for FAT																	
A2980	Supply/Manufacture LED Display (ODB, VID and XDB) for FAT	54	10-Sep-16	02-Nov-16	0	Supply/Manufacture LED Display (ODB, VID and XDB) for FAT																					
A2990	Supply/Manufacture All-In-One Panel (AIOP) for FAT	62	10-Sep-16	10-Nov-16	0	Supply/Manufacture All-In-One Panel (AIOP) for FAT																					
A3000	Supply/Manufacture off-the-shelf equipment for FAT	50	10-Sep-16	29-Oct-16	0	Supply/Manufacture off-the-shelf equipment for FAT																					
<b>Factory Acceptance Test (FAT)</b>						94	10-Sep-16	12-Dec-16	0	12-Dec-16, Factory Acceptance Test (FAT)																	
A2120	FAT Procedure Document	36	10-Sep-16	15-Oct-16	0	FAT Procedure Document																					
A2121	Engineer's Approval for FAT Procedure Document	14	16-Oct-16	29-Oct-16	0	Engineer's Approval for FAT Procedure Document																					
A3050	FAT for Licence Plate Recognition System (LPRS)	2	30-Oct-16	31-Oct-16	0	FAT for Licence Plate Recognition System (LPRS)																					
A3060	FAT for PA/Intercom	2	01-Nov-16	02-Nov-16	0	FAT for PA/Intercom																					
A3090	FAT for ODB	2	03-Nov-16	04-Nov-16	0	FAT for ODB																					
A3100	FAT for XDB	2	03-Nov-16	04-Nov-16	0	FAT for XDB																					
A3110	FAT for VID	2	03-Nov-16	04-Nov-16	0	FAT for VID																					
A3120	FAT for Video Management System (VMS)	2	05-Nov-16	06-Nov-16	0	FAT for Video Management System (VMS)																					
A3130	FAT for Vehicle Tracking System (VTS)	2	07-Nov-16	08-Nov-16	0	FAT for Vehicle Tracking System (VTS)																					
A3140	FAT for Communication Network (CMN)	2	09-Nov-16	10-Nov-16	0	FAT for Communication Network (CMN)																					
A3150	FAT for All-In-One Panel (AIOP)	2	11-Nov-16	12-Nov-16	0	FAT for All-In-One Panel (AIOP)																					
A3160	FAT for AVCSS System Test	2	13-Nov-16	14-Nov-16	0	FAT for AVCSS System Test																					
A4360	FAT Report Submission	14	15-Nov-16	28-Nov-16	0	FAT Report Submission																					

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015		2016				2017				2018				2019		
						Q2	Q3	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4370	Engineer's Approval for FAT Report Submission	14	29-Nov-16	12-Dec-16	0																	
<b>Supply/Manufacture Equipment</b>		60	13-Dec-16	10-Feb-17	0																	
A6830	Supply/Manufacture LED (ODB, VID and XDB) Display for installation	45	13-Dec-16	26-Jan-17	0																	
A6840	Supply/Manufacture AIOP for installation	60	13-Dec-16	10-Feb-17	0																	
<b>Delivery and Bench Acceptance Test for Phase 1/ Section I</b>		176	30-Aug-16	21-Feb-17	0																	
A6740	Material On-Site for Phase 1/Section I	6	28-Dec-16	02-Jan-17	0																	
A6750	Material Bench Acceptance Test for Phase 1/Section I	5	03-Jan-17	07-Jan-17	0																	
A6850	Cable On-Site for Phase 1/Section I	14	30-Aug-16	12-Sep-16	0																	
A6960	AIOP On-Site for Phase 1/Section I	6	11-Feb-17	16-Feb-17	0																	
A6970	AIOP Bench Acceptance Test for Phase 1/Section I	5	17-Feb-17	21-Feb-17	0																	
A6980	LED (ODB, VID and XDB) On-Site for Phase 1/Section I	5	27-Jan-17	31-Jan-17	0																	
A6990	LED (ODB, VID and XDB) Bench Acceptance Test for Phase 1/Section I	5	01-Feb-17	05-Feb-17	0																	
<b>Installation - Phase 1 / Section I</b>		290	13-Sep-16	29-Jun-17	20																	
<b>Location 1(PCB (001) Basement)</b>		35	11-Oct-16	14-Nov-16	0																	
A3081	Cable Laying and termination at Location 1 and Location 2	35	11-Oct-16	14-Nov-16	0																	
<b>Location 1(PCB (001) ELV Room (Grid Line E3))</b>		35	11-Oct-16	14-Nov-16	0																	
A3101	Cable Laying and termination at Location 1 and Location 2	35	11-Oct-16	14-Nov-16	0																	
<b>Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3))</b>		35	11-Oct-16	14-Nov-16	0																	
A3121	Cable Laying and termination at Location 1 and Location 2	35	11-Oct-16	14-Nov-16	0																	
<b>Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD))</b>		171	11-Oct-16	30-Mar-17	0																	
A2041	Cable Laying and termination at Location 1 and Location 2	35	11-Oct-16	14-Nov-16	0																	
A2042	Cable Testing	54	15-Nov-16	07-Jan-17	0																	
A2043	Intercom and PA system Installation	65	08-Jan-17	13-Mar-17	0																	
A2044	Intercom and PA system tuning	17	14-Mar-17	30-Mar-17	0																	
<b>Location 2(PCB (001) First Floor Main Server Room)</b>		175	11-Oct-16	03-Apr-17	0																	
A2001	Cable Laying and termination at Location 1 and Location 2	35	11-Oct-16	14-Nov-16	0																	
A2002	Cable Testing	43	15-Nov-16	27-Dec-16	0																	
A2003	AVCSS Network and Server Installation	49	28-Dec-16	14-Feb-17	0																	
A2004	AVCSS Network and Server Tuning	48	15-Feb-17	03-Apr-17	0																	
<b>Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,12)</b>		133	10-Jan-17	22-May-17	0																	
A3241	Cable Laying and termination in Location 3 and Location 3a	35	10-Jan-17	13-Feb-17	0																	
A3242	AVCSS SURCON WS and 55" LCD Installation	28	14-Feb-17	13-Mar-17	0																	
A3243	VTS WS Installation	28	14-Feb-17	13-Mar-17	0																	
A3245	SURCON, WS Tuning	70	14-Mar-17	22-May-17	0																	
<b>Location 3(Inbd Cargo Exam Bldg (037) ELV Room)</b>		28	13-Dec-16	09-Jan-17	0																	
A3210	Cable Laying and termination between Location 3 and CUE	28	13-Dec-16	09-Jan-17	0																	
<b>Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)</b>		133	10-Jan-17	22-May-17	0																	
A2071	Cable Laying and termination in Location 3 and Location 3a	35	10-Jan-17	13-Feb-17	0																	
A2072	AVCSS SYSCON WS and 55" TV Wall Installation	14	14-Feb-17	27-Feb-17	0																	
A2074	AVCSS SYSCON WS Tuning	84	28-Feb-17	22-May-17	0																	
<b>Location 3(Inbd Cargo Exam Bldg (037) MDF Room)</b>		28	13-Dec-16	09-Jan-17	0																	
A3190	Cable Laying and termination between Location 3 and CUE	28	13-Dec-16	09-Jan-17	0																	
<b>Location 3a(Inbd Cargo Exam Bldg (037) ROCARS Room)</b>		133	10-Jan-17	22-May-17	0																	
A2091	Cable Laying and termination in Location 3 and Location 3a	35	10-Jan-17	13-Feb-17	0																	
A2092	AVCSS SYSCON,SURCON and Intercom Installation	49	14-Feb-17	03-Apr-17	0																	

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						Q2	Q3	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
A2590	Aiop Installation (5 nos)	37	22-Feb-17	30-Mar-17	0																			
A2600	ODB & XDB installation (5 nos)	37	06-Feb-17	14-Mar-17	16																			
A4400	Outbd Goods Vehicle Kiosks Installation Complete	0	31-Mar-17		0																			
<b>Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)</b>		<b>115</b>	<b>06-Dec-16</b>	<b>31-Mar-17</b>	<b>0</b>																			
A3582	Cable Containment in Kiosks	14	06-Dec-16	19-Dec-16	0																			
A3583	Cable Laying and termination	10	20-Dec-16	29-Dec-16	0																			
A3584	Cable Splicing, Testing and Labeling	46	30-Dec-16	13-Feb-17	0																			
A3590	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)	45	14-Feb-17	30-Mar-17	0																			
A3600	ODB & XDB installation (9 nos)	45	14-Feb-17	30-Mar-17	0																			
A4410	Outbd Private Car Kiosks Installation Complete	0	31-Mar-17		0																			
<b>Location 14(Future-Outbd/Inbd Private Car Kiosks) - 6+6 nos</b>		<b>28</b>	<b>15-Apr-17</b>	<b>12-May-17</b>	<b>68</b>																			
A2441	Cable Laying and termination at ELV Room in CUE	28	15-Apr-17	12-May-17	68																			
<b>Location 15(Inbd Traffic Control Kiosk (100))</b>		<b>42</b>	<b>11-Apr-17</b>	<b>22-May-17</b>	<b>0</b>																			
A3651	Cable Laying and termination	14	11-Apr-17	24-Apr-17	0																			
A3652	AVCSS SYSCON, SURCON Installation	7	25-Apr-17	01-May-17	0																			
A3660	VTS WS and 55" LCD Installation	7	25-Apr-17	01-May-17	0																			
A3670	SYSCON, SURCON, WS Tuning	21	02-May-17	22-May-17	0																			
<b>Location 16(Outbd Traffic Control Kiosk (101))</b>		<b>21</b>	<b>02-May-17</b>	<b>22-May-17</b>	<b>0</b>																			
A3701	Cable Laying and termination	14	02-May-17	15-May-17	0																			
A3702	AVCSS SYSCON, SURCON Installation	7	16-May-17	22-May-17	0																			
A3710	VTS WS and 55" LCD Installation	7	16-May-17	22-May-17	0																			
<b>Location 17(Inbd Private Car Exam Bldg(033) Operational Office)</b>		<b>28</b>	<b>25-Apr-17</b>	<b>22-May-17</b>	<b>0</b>																			
A3750	Cable Laying and termination	7	25-Apr-17	01-May-17	0																			
A3760	AVCSS SURCON and 55" LCD Installation	7	02-May-17	08-May-17	0																			
A3770	SURCON Tuning	14	09-May-17	22-May-17	0																			
<b>Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)</b>		<b>16</b>	<b>14-Jun-17</b>	<b>29-Jun-17</b>	<b>0</b>																			
A3780	Cable Laying and termination	7	14-Jun-17	20-Jun-17	0																			
A3790	AVCSS SURCON and 55" LCD Installation	9	21-Jun-17	29-Jun-17	0																			
<b>Location 19 (DOH Cargo Clearance Bldg(043))</b>		<b>98</b>	<b>14-Feb-17</b>	<b>22-May-17</b>	<b>0</b>																			
A2111	Cable Laying and termination between Location 19 and CUE	14	14-Feb-17	27-Feb-17	0																			
A2112	Cable Laying in Location 19	21	28-Feb-17	20-Mar-17	0																			
A2113	PA and Intercom Installation	14	21-Mar-17	03-Apr-17	0																			
A2123	PA and Intercom Tuning	49	04-Apr-17	22-May-17	0																			
<b>Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS</b>		<b>80</b>	<b>14-Feb-17</b>	<b>04-May-17</b>	<b>0</b>																			
A4050	Inbound VID cabling from pillar box to VID field equipment	16	14-Feb-17	01-Mar-17	0																			
A4052	Inbound VTS cabling from pillar box to VTS field equipment	8	02-Mar-17	09-Mar-17	0																			
A4054	Inbound TLS cabling from pillar box to TLS field equipment	8	10-Mar-17	17-Mar-17	0																			
A4060	Inbound VID field equipment installation (8 VID)	32	02-Mar-17	02-Apr-17	0																			
A4062	Inbound VTS field equipment installation (4 RFID + 3 Cameras)	16	10-Mar-17	25-Mar-17	0																			
A4064	Inbound TLS field equipment installation (4 TLS)	8	26-Mar-17	02-Apr-17	0																			
A4066	Inbound VID, VTS and TLS field equipment tuning	32	03-Apr-17	04-May-17	0																			
<b>Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS</b>		<b>66</b>	<b>18-Mar-17</b>	<b>22-May-17</b>	<b>0</b>																			
A4110	Outbound VID cabling from pillar box to VID field equipment	16	18-Mar-17	02-Apr-17	0																			
A4120	Outbound VTS cabling from pillar box to VTS field equipment	8	03-Apr-17	10-Apr-17	0																			
A4130	Outbound TLS cabling from pillar box to TLS field equipment	5	11-Apr-17	15-Apr-17	11																			

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						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
A4140	Outbound VID field equipment installation (8 VID)	32	03-Apr-17	04-May-17	0																			
A4150	Outbound VTS field equipment installation (3 RFID + 3 Cameras)	16	11-Apr-17	26-Apr-17	0																			
A4170	Outbound TLS field equipment installation (4 TLS)	8	27-Apr-17	04-May-17	0																			
A4180	Outbound VID, VTS and TLS field equipment tuning	18	05-May-17	22-May-17	0																			
<b>Underground Ducting between Inbd Cargo Exam Bldg (037) and CUE</b>																								
A3810	Cable Laying and termination (note: Access Date by C03)	35	08-Jan-17	11-Feb-17	0																			
<b>Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clea</b>																								
A3830	Cable Laying and termination (note: Access Date by C03)	26	12-Feb-17	09-Mar-17	0																			
<b>Underground Ducting between CUE and Outbd Car Exam Bldg (023)</b>																								
A3850	Cable Laying and termination (note: Access Date by C03)	24	10-Mar-17	02-Apr-17	0																			
<b>Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle C</b>																								
A3870	Cable Laying and termination (note: Access Date by C03)	24	03-Apr-17	26-Apr-17	0																			
<b>Underground Ducting between CUE and Outbd Vehicle Clearance Plaza</b>																								
A3890	Cable Laying and termination (note: Access Date by C03)	26	27-Apr-17	22-May-17	0																			
<b>On-Site Test and Commissioning (Phase 1 / Section I)</b>																								
A2150	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)	30	15-Jan-17*	13-Feb-17	84																			
A2151	Engineer Approval for T&C Document	14	14-Feb-17	27-Feb-17	84																			
A2152	Joint Site Inspection for Permanent Power/Tele-communication for Initial on-site testing	14	17-Mar-17*	30-Mar-17	0																			
A2153	Initial on-site Testing & Commissioning	53	31-Mar-17	22-May-17	0																			
<b>Site Acceptance Test (Phase 1 / Section I)</b>																								
A6601	Interface Readiness CED(LBS, CED IT, Metro-Ethernet) and IMMD (AVS)	36	17-Apr-17*	22-May-17	0																			
A6602	SAT for AVCSS	28	23-May-17	19-Jun-17	0																			
A6603	SAT for Location 18 (AVCSS SURCON and 55" LCD)	5	30-Jun-17	04-Jul-17	0																			
A6630	SAT Test Document Submission	30	20-Jun-17	19-Jul-17	0																			
A6640	Software Manual Documentations Submission	30	20-Jun-17	19-Jul-17	0																			
<b>Security Risk Assessment and Audit</b>																								
A6800	SRAA (Assessment)	9	23-May-17	31-May-17	0																			
A6810	Fix per SRAA Assessment	40	01-Jun-17	10-Jul-17	0																			
A6820	SRAA Audit	9	11-Jul-17	19-Jul-17	0																			
<b>Operability Period Test (Phase 1 / Section I)</b>																								
A5610	Joint Site Inspection for utilities, telecom connection and metro ethernet for OPT	7	13-Jun-17*	19-Jun-17	0																			
A5620	Operability Period Test (OPT) Phase 1	15	20-Jun-17	04-Jul-17	0																			
A5650	Operability Period Test (OPT) Phase 2	15	05-Jul-17	19-Jul-17	0																			
<b>Completion (Phase 1 /Section I)</b>																								
A2230	AVCSS - Certificate of Completion (Phase 1/Section I)	5	20-Jul-17	24-Jul-17	0																			
A2231	Certificate of Completion Approval by Engineer	0		24-Jul-17	0																			
<b>Training and Document (Phase 1 /Section I)</b>																								
A2180	Training Materials & Documentation Submission	30	21-Feb-17*	22-Mar-17	14																			
A2190	Operation and Maintenance Training	110	23-Mar-17	10-Jul-17	14																			
<b>Operation (Phase 1 /Section I)</b>																								
A2240	Site Operation (Phase 1/Section I)	0	25-Jul-17	25-Jul-17	0																			
<b>Engineering Support for Phase 1 / Section I</b>																								
		190	25-Jul-17	30-Jan-18	0																			

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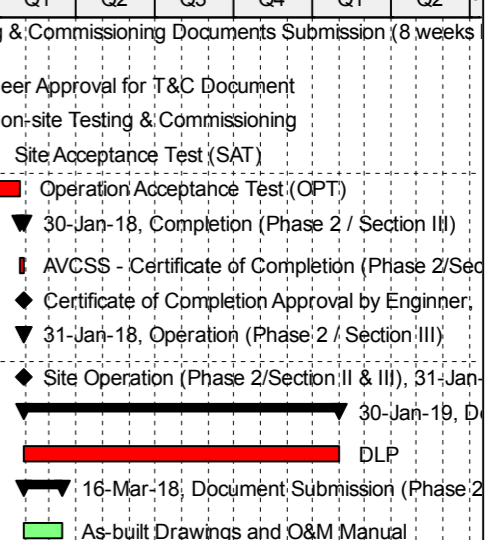



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015		2016				2017				2018				2019			
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4420	Engineering Support for Phase 1/Section I	190	25-Jul-17	30-Jan-18	0																		
<b>Procurement - Phase 2 / Section II</b>																							
A3980	Procurement of Lane Field Equipment for Phase 2/Section II	91	13-Aug-16	11-Nov-16	0																		
<b>Delivery and Bench Acceptance Test for Phase 2/Section II</b>																							
A6760	Material On-site for Phase 2/Section II	14	12-Nov-16	25-Nov-16	74																		
A6770	Bench Acceptance Test for Phase 2/Section II	14	26-Nov-16	09-Dec-16	74																		
<b>Instatllation - Phase 2 / Section II</b>																							
<b>Location 8(Inbd Pricate Car Annex (025)) (Phase 2)</b>																							
A4090	Site Preparation	10	30-Dec-16	08-Jan-17	54																		
A4091	Cable Containment in Kiosks	8	09-Jan-17	16-Jan-17	54																		
A4093	Cable Laying and termination	8	17-Jan-17	24-Jan-17	54																		
A4094	Cable Splicing, Testing and Labeling	30	25-Jan-17	23-Feb-17	71																		
A4096	Mobilization of kiosk equipment	10	24-Feb-17	05-Mar-17	71																		
A4100	AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)	19	16-May-17	03-Jun-17	0																		
A4430	Inbd Private Car Annex Installation Complete	0	04-Jun-17		0																		
<b>Location 9(Outbd Private Car Annex (032)) (Phase 2)</b>																							
A4151	Site Preparation	10	25-Jan-17	03-Feb-17	54																		
A4152	Cable Containment in Kiosks	8	04-Feb-17	11-Feb-17	54																		
A4153	Cable Laying and termination	8	12-Feb-17	19-Feb-17	54																		
A4154	Cable Splicing, Testing and Labeling	30	20-Feb-17	21-Mar-17	54																		
A4156	Mobilization of kiosk equipment	20	22-Mar-17	10-Apr-17	54																		
A4160	AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)	15	04-Jun-17	18-Jun-17	0																		
A4440	Outbd Private Car Annex Installation Complete	0	19-Jun-17		0																		
<b>Test and Commissioning (Phase 2 / Section II)</b>																							
A2290	Testing & Commissioning Documents Submission	30	06-May-17*	04-Jun-17	0																		
A2291	Engineer Approval for T&C Document	14	05-Jun-17	18-Jun-17	0																		
A2292	Initial on-site Testing & Commissioning	31	19-Jun-17	19-Jul-17	0																		
A2300	Site Acceptance Tests (SAT)	40	20-Jul-17	28-Aug-17	0																		
A2310	Operability Period Test (OPT)	30	29-Aug-17	27-Sep-17	0																		
<b>Completion (Phase 2 / Section II)</b>																							
A2320	AVCSS - Certificate of Completion (Phase 2/Section II)	5	28-Sep-17	02-Oct-17	0																		
A4320	Certificate of Completion Approval by Engineer	0		02-Oct-17	0																		
<b>Engineering Support for Phase 2 / Section II</b>																							
A4450	Engineering Support for Phase 2/Section II	120	03-Oct-17	30-Jan-18	0																		
<b>Procurement for Phase2 / Section III</b>																							
A4000	Procurement of Lane Field Equipment for Phase 2/Section III	91	13-Aug-16	11-Nov-16	0																		
<b>Delivery and Bench Acceptance Test for Phase2 / Section III</b>																							
A6780	Material On-site for Phase 2/Section III	7	12-Nov-16	18-Nov-16	0																		
A6790	Bench Acceptance Test for Phase 2/Section III	7	19-Nov-16	25-Nov-16	0																		
<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	20	14-Feb-17	05-Mar-17	0																		

Programme No.: HZMB-DWP Data Date: 14-Aug-15	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: blue; margin-right: 5px;"></span> Actual Level of Effort</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: green; margin-right: 5px;"></span> Actual Work</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: yellow; margin-right: 5px;"></span> Remaining Work</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: red; margin-right: 5px;"></span> Critical Remaining Work</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> Milestone</li> <li><span style="display: inline-block; width: 15px; height: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> summary</li> </ul>	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	Original Duration	Start	Finish	Total Float	2015			2016				2017				2018				2019			
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
A2370	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)	30	30-Aug-17*	28-Sep-17	0																			
A2371	Engineer Approval for T&C Document	14	29-Sep-17	12-Oct-17	0																			
A2373	Initial on-site Testing & Commissioning	98	07-Jul-17	12-Oct-17	0																			
A2380	Site Acceptance Test (SAT)	75	13-Oct-17	26-Dec-17	0																			
A2390	Operation Acceptance Test (OPT)	30	27-Dec-17	25-Jan-18	0																			
<b>Completion (Phase 2 / Section III)</b>		5	26-Jan-18	30-Jan-18	0																			
A2400	AVCSS - Certificate of Completion (Phase 2/Section III)	5	26-Jan-18	30-Jan-18	0																			
A4330	Certificate of Completion Approval by Enginner	0		30-Jan-18	0																			
<b>Operation (Phase 2 / Section III)</b>		0	31-Jan-18	31-Jan-18	365																			
A2420	Site Operation (Phase 2/Section II & III)	0	31-Jan-18		365																			
<b>Defect Liability Period (DLP)</b>		365	31-Jan-18	30-Jan-19	0																			
A2430	DLP	365	31-Jan-18	30-Jan-19	0																			
<b>Document Submission (Phase 2 / Section III)</b>		45	31-Jan-18	16-Mar-18	320																			
A4340	As-built Drawings and O&M Manual	45	31-Jan-18	16-Mar-18	320																			



Programme No.: HZMB-DWP Data Date: 14-Aug-15	<ul style="list-style-type: none"> <li><span style="color: blue;">█</span> Actual Level of Effort</li> <li><span style="color: blue;">█</span> Actual Work</li> <li><span style="color: green;">█</span> Remaining Work</li> <li><span style="color: red;">█</span> Critical Remaining Work</li> <li>◆ Milestone</li> <li>▾ summary</li> </ul>	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

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black rectangular background that has horizontal bars above and below it.

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Report No.: 0165/15/ED/0653

### **Appendix D**

#### **Event / Action Plan**

**Appendix D –**

**Event / Action Plan for Air Quality and Noise Monitoring**

Event / Action Plan for Air Quality

Event	Action			
	ET	IEC	ER	Contractor
<b>Action Level</b>				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures;  2. Inform IEC and ER;  3. Repeat measurement to confirm finding;  4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET;  2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice;  2. Amend working methods if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
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	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
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 exceedances 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>

Event	Action			
	ET	IEC	ER	Contractor
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>

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Report No.: 0165/15/ED/0653

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### **Appendix E**

#### **Implementation Schedule for Environmental Mitigation Measures (EMIS)**

## Appendix E – Implementation Schedule of Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	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	All construction sites	V
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 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>	All construction sites	V
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</li> </ul>	All construction sites	V
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</li> </ul>	All construction sites	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</p> <ul style="list-style-type: none"> <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 r part of the construction site where the exposed earth lies</li> </ul>		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
S5.5.6.4	A4	4) 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.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Representative dust monitoring station	V
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>	Selected Representative dust monitoring station	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>	All construction sites	V
<b>Construction Nose (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> </ul>	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> <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>		
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.	All construction sites	V
S6.4.12	N3	3) Install movable noise barriers (typically density@14kg/m acoustic mat or full enclosure close to noisy plants including compressor, generators, saw.	For plant items listed in Appendix 6D of the EIA report at all construction sites	N/A
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	V
<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.	All construction sites	V
<b>Waste Management (Construction Waste)</b>				
S8.3.8	WM1	<p><b>Construction and Demolition Material</b></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>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 E7WBTC (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</li> </ul>	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		disposal sites to the Project Proponent and get its approval before implementation		
S8.3.9- S8.3.11	WM2	<u>C&amp;D Waste</u> <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>	All construction sites	V
S8.2.12- S8.3.15	WM3	<u>Chemical Waste</u> <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 labeled 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> <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 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>	All construction sites	V
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>	All construction sites	V
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</li> </ul>	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>law.</p> <ul style="list-style-type: none"> <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.</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>		
<b>Water Quality ( Construction Phase)</b>				
S9.11.1.7	W2	<p><u>Land Works</u></p> <p>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>	Land-based works area	V
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</li> </ul>	Land-based works area	V



EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>washing bay and the public road should be surfaced with crushed stone or coarse gravel;</p> <ul style="list-style-type: none"> <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>		
<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>	Land-based works areas	V
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>	Land-based works areas	V
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>	Marine Traffic	V
<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>	HKBCF	V
<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;</li> <li>• Fine-tuning the location of the bridge columns to avoid visually-sensitive locations;</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</li> </ul>	HKBCF	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and <ul style="list-style-type: none"> <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>		
<b>Landscape &amp; Visual (Construction Phase)</b>				
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. G3. Not applicable as this is for HKLR. 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 G5. Vegetation reinstatement and upgrading to disturbed areas G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed G7. Providing planting area around peripheral of HKBCF for tree planting screening effect; G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. 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.	HKBCF	N/A
S14.3.3.3	LV3	<u>Mitigate Visual Impacts</u> V1. Minimize time for construction activities during construction period. V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.	HKBCF	N/A
<b>EM&amp;A</b>				
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	All construction sites	V
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.	All construction sites	V

Legend: V = implemented;

x = not implemented;

N/A = not applicable

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Report No.: 0165/15/ED/0653

### **Appendix F**

#### **Site Audit Findings and Corrective Actions**

Report No.: 0165/15/ED/0653

## Appendix F – Site Audit Findings and Corrective Actions

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project (site audit of 21 October 2016 was cancelled due to hoisting of typhoon signal no. 8 on 21 October 2016 and re-scheduled to 28 October 2016). During the reporting period, 13 site inspections were carried out on 01, 08, 15, 22 and 28 September 2016 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area on 15, 22 and 28 September 2016), 06, 13, 27 and 28 October 2016, and 03, 10, 17 and 25 November 2016.

Particular observations during the site inspections are described below.

### For Contract No. HY/2013/03

#### 26 Aug 2016

1. CHEC was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression on site. The observation was closed on 01 September 2016.
2. CHEC was reminded to remove general refuse accumulated at A2 Bridge area. Subsequently, general refuse was removed at A2 Bridge area. The observation was closed on 08 September 2016.

#### 01 Sept 2016

1. CHEC is reminded to provide drip tray for chemicals at CUE & Box Culvert. Subsequently, chemicals were removed at CUE & Box Culvert. The observation was closed on 08 September 2016.
2. CHEC is reminded to remove stagnant water on site. Subsequently, stagnant water was removed on site. The observation was closed on 08 September 2016.
3. CHEC is reminded to ensure no oil leakage from the generator at Box Culvert. Subsequently, no oil leakage from the generator at Box Culvert. The observation was closed on 08 September 2016.

#### 08 Sept 2016

1. CHEC was reminded to clear the stagnant water accumulated at CUE works area. Subsequently, stagnant water was cleared at CUE works area. The observation was closed on 15 September 2016.

#### 15 Sept 2016

1. CHEC was reminded to clear the stagnant water accumulated at Building 037. Subsequently, stagnant water was cleared at Building 037. The observation was closed on 28 September 2016.
2. CHEC was reminded to remove the general refuse accumulated at Building 037. Subsequently, general refuse was removed at Building 037. The observation was closed on 28 September 2016.

#### 22 Sept 2016

1. CHEC was reminded to provide drip tray for chemical containers at Bridge A7 Area. Subsequently, additional drip tray was provided for chemical container at Bridge A7 Area. The observation was closed on 28 September 2016.

#### 28 Sept 2016

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1. CHEC was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression on site. The observation was closed on 06 October 2016.

### 06 Oct 2016

1. CHEC is reminded to maintain good housekeeping on site (Building 041). Subsequently, good housekeeping was maintained on site (Building 041). The observation was closed on 13 October 2016.

### 13 Oct 2016

1. CHEC was reminded to remove the stagnant water accumulated at the lifting holes of the precast concretes on site. Subsequently, stagnant water was removed at the lifting holes of the precast concretes on site. The observation was closed on 27 October 2016.

### 21 Oct 2016

1. Site inspection was cancelled due to hoisting of typhoon signal no. 8 on 21 Oct 2016 and re-scheduled to 28 Oct 2016.

### 27 Oct 2016

1. CHEC is reminded to maintain proper housekeeping on site (CUE works area). Subsequently, proper housekeeping was maintained on site. The observation was closed on 03 November 2016.
2. CHEC is reminded to remove stagnant water on site (CUE works area). Subsequently, stagnant water was removed on site. The observation was closed on 03 November 2016.

### 28 Oct 2016

1. CHEC was reminded to increase watering for dust suppression on site. Subsequently, watering was increased on site. The observation was closed on 03 November 2016.
2. CHEC was reminded to clear the stagnant water accumulated at Building 037. Subsequently, stagnant water was cleared at Building 037. The observation was closed on 03 November 2016.
3. CHEC was reminded to remove the general refuse accumulated at Building 037. Subsequently, general refuse was removed at Building 037. The observation was closed on 03 November 2016.

### 03 Nov 2016

1. CHEC is reminded to properly maintain housekeeping on site (CUE). Subsequently, housekeeping was maintained properly on site. The observation was closed on 10 November 2016.
2. CHEC is reminded to properly maintain equipment (generator) on site (Box Culvert D). Subsequently, the equipment was properly maintained on site. The observation was closed on 10 November 2016.

### 10 Nov 2016

1. CHEC was reminded to maintain housekeeping practice at CUE works area. Subsequently, housekeeping practice was maintained at CUE works area. The observation was closed on 17 November 2016.

### 17 Nov 2016

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1. CHEC is reminded to maintain proper housekeeping on site (Building 043). Subsequently, proper housekeeping was maintained on site. The observation was closed on 25 November 2016.

### 25 Nov 2016

1. CHEC was reminded to provide drip tray for chemical containers at CUE works area. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
2. CHEC was reminded to remove stagnant water accumulated at Building 037 and Bridge A7 area. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
3. CHEC was reminded to enhance watering for dusty operation at Bridge A7 area. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

### 15 Sept 2016

1. Nil findings.

### 22 Sept 2016

1. Nil findings.

### 28 Sept 2016

1. Nil findings.

### 06 Oct 2016

1. Nil findings.

### 13 Oct 2016

1. Nil findings.

### 21 Oct 2016

1. Site inspection was cancelled due to hoisting of typhoon signal no. 8 on 21 Oct 2016 and re-scheduled to 28 Oct 2016.

### 27 Oct 2016

1. Nil findings.

### 28 Oct 2016

1. Nil findings.

### 03 Nov 2016

1. Nil findings.

### 10 Nov 2016

1. Nil findings.

### 17 Nov 2016

1. Nil findings.

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25 Nov 2016

1. Nil findings.

The Contractor has rectified most of the observations as identified during environmental site inspections during the reporting period. Follow-up actions for outstanding observations will be inspected during the next site inspections.

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### **Appendix G**

#### **Waste Flow Table**





**Monthly Summary of Waste Flow Table for 2016 (year)**

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
		(see Note 1)						(see Note 2)		
	(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 '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m <sup>3</sup> )
Jan	0.000	0	0	0	0.000	0	0.992	0	0	0.073
Feb	0.000	0	0	0	0.000	0	0	0	0	0.093
Mar	0.087	0	0	0	0.087	0	0.392	0	0	0.200
Apr	0.184	0	0	0	0.184	0	0.411	0	0	0.224
May	0.203	0	0	0	0.203	0	0	0	0	0.293
Jun	0.244	0	0	0	0.244	0	0.413	0	0	0.322
Jul	2.429	0	0	0	2.429	0	0.419	0	0	0.312
Aug	0.057	0	0	0	0.057	0	0.340	0	0	0.288
Sept	0.000	0	0	0	0.000	0	0	0	0	0.327
Oct	0.379	0	0	0	0.379	0	0.400	0	0	0.332
Nov	0.229	0	0	0	0.229	0	0.389	0	0	0.644
Dec										
<b>Total</b>	<b>3.812</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>3.812</b>	<b>0.000</b>	<b>3.756</b>	<b>0.000</b>	<b>0.000</b>	<b>3.108</b>

Notes:

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

## Monthly Summary of Excavated Marine Sediment for 2016 (year)

Month	Total Quantity of Excavated Marine Sediment Generated in '000m <sup>3</sup>	Reused in this contract in '000m <sup>3</sup>	Reused in other Projects in '000m <sup>3</sup>	Disposed of at CMP in '000m <sup>3</sup>
Jan	1.950	0	0	1.950
Feb	2.328	0	0	2.328
Mar	2.464	0	0	2.464
Apr	5.602	0	0	5.602
May	0	0	0	0
Jun	4.584	0	0	4.584
Jul	10.728	0	0	10.728
Aug	1.544	0	0	1.544
Sep	6.816	0	0	6.816
Oct	2.376	0	0	2.376
Nov	0	0	0	0
Dec				
<b>Total</b>	<b>38.392</b>	<b>0.000</b>	<b>0.000</b>	<b>38.392</b>

### Monthly Summary Waste Flow Table

Project name 工程項目名稱 : **Contract No. HY/2013/06 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities-Automatic Vehicle Clearance Support System**

Location 工程地點: **Artificial Island of HKIAP**

Year: **2016**

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, 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./ 估計數量	Act./ (實際數量)	Est./ 估計數量	Act./ (實際數量)	Est./ 估計數量	Act./ (實際數量)	Est./ 估計數量	Act./ (實際數量)	Est./ 估計數量	Act./ (實際數量)	Est./ 估計數量	Act./ (實際數量)	Est./ 估計數量	Act./ (實際數量)	Est./ 估計數量	Act./ (實際數量)	Est./ 估計數量	Act./ (實際數量)	
January																			
February																			
March																			
April																			
May																			
June																			
July																			
August																			
September	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002	0.002	N/A	N/A	0.002	0.002
October	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002	0.002	N/A	N/A	0.002	0.002
November	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002	0.002	N/A	N/A	0.002	0.002
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>0.006</b>	<b>0.006</b>	<b>0.000</b>	<b>0.000</b>	<b>0.006</b>	<b>0.006</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 gcm<sup>-3</sup>.

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### **Appendix H**

#### **Environmental Licenses and Permits**

## Appendix H - Environmental Permit / Licences Summary for Contract No. HY/2013/03

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387703	Main Site Area	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387735	Works Area WA3	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	15-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	29-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
8	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022391-2015	Main Site Area	06-May-15	04-Sep-15	04-Sep-15	30-Sep-20	Superseded	
9	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00025384-2016	Main Site Area	09-Mar-16	10-Nov-16	10-Nov-16	30-Sep-20	Valid	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0607-16	Main Site Area	02-Jun-16	16-Jun-16	19-Jun-16	18-Sep-16	Superseded	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0020-16	Portion A, G & H	13-Jul-16	27-Jul-16	28-Jul-16	24-Jan-17	Superseded	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0933-16	Main Site Area	18-Aug-16	01-Sep-16	05-Sep-16	31-Dec-16	Valid	
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0960-16	Main Site Area	06-Sep-16	15-Sep-16	19-Sep-16	18-Dec-16	Valid	
14	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0028-16	Portion A, G, H & N	15-Sep-16	29-Sep-16	03-Oct-16	02-Apr-17	Valid	

15	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-088	East of Sha Chau (CMP Vd)	16-Aug-16	26-Aug-16	01-Sep-16	30-Sep-16	Valid until 30-Sep-16	
16	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-105	East of Sha Chau (CMP Vd)	15-Sep-16	27-Sep-16	01-Oct-16	31-Oct-16	Valid until 31-Oct-16	
17	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-132	East of Sha Chau (CMP Vd)	03-Nov-16	30-Nov-16	05-Dec-16	04-Jan-17	To be Valid from 05-Dec-16	
18	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-140	East of Sha Chau (CMP Va) or South of Brothers (CMP2)	14-Nov-16	30-Nov-16	30-Nov-16	29-Dec-16	Valid	

**Environmental Permit / Licences Summary for Contract No. HY/2013/06 within the HY/2013/03 site works area**

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7023015	Main Site Area	07-Aug-15	20-Aug-15	20-Aug-15	Nil	Valid	
3	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	N.A.	N.A.	N.A.	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.

## **MATERIALAB CONSULTANTS LIMITED**

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black background that consists of two thick horizontal bars, one above and one below the text.

Report No.: 0165/15/ED/0653

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### **Appendix I**

#### **Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions**



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# MaterialLab

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### Appendix I –

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

For Contract No. HY/2013/03

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	2	0	0
From commencement date of construction to end of reporting period	3	0	0

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

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