

Ref.: HYDHZMBEEM00\_0\_5048L.17

14 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 Monthly Environmental Monitoring & Audit Report for January 2017

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for January 2017 (Rev. 1) certified by the ET Leader (ET's ref.: "MCL/ED/0100/2017/C" dated 13 February 2017) and provided to us via e-mail on 13 February 2017.

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

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

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

Raymond Dai Independent Environmental Checker

c.c.

HyD HyD

MCL

CHEC

Mr. Vico Cheung Mr. Ken Woo Mr. Arthur Cheng Mr. Johnason Ko (By Fax: 3188 6614) (By Fax: 3188 6614) (By Fax: 2450 8032) (By Fax: 2887 3014)

Internal: DY, YH, ENPO Site

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Ramboll Environ Hong Kong Limited (formerly ENVIRON Hong Kong Limited) 21/F, BEA Harbour View Centre 56 Gloucester Road, Wan Chai Hong Kong Our Ref. MCL/ED/0100/2017/C

Date

MateriaLab

13 February 2017

BY HAND

Attn.: Mr. Raymond Dai, IEC

Dear Sir,

#### EP Condition 5.4 – Monthly EM&A Report for 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 Condition 5.4 of the Environmental Permit (EP-353/2009/K) for the captioned project, we are pleased to submit the certified Monthly EM&A Report for January 2017 (Rev.1) for your verification.

Should you require further information, please do not hesitate to contact our Miss Jamie Tam at 3565 4157 or the undersigned at 3565 4115.

Yours faithfully, for and on behalf of MATERIALAB CONSULTANTS LIMITED

Arthur Cheng Environmental Team Leader

AC/by

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



Tel

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Report No.: 0165/15/ED/0696

# **MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT (Rev. 1)**

#### January 2017

**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/0696

Prepared by: Scarlet Cheng

Reviewed by: Bong Yu

Certified by:

Arthur Cheng **Environmental Team Leader** 

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Report No.: 0165/15/ED/0696

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Report No.: 0165/15/ED/0696

#### EXECUTIVE SUMMARY

This Monthly 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). Contract No. HY/2013/03 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.

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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 17<sup>th</sup> Monthly EM&A Report for the Contract which summaries findings of the EM&A programme during the reporting period from 01 January 2017 to 31 January 2017 (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 01 January 2017 to 31 January 2017) (the "reporting period"). The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract No. 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: 05, 12, 20 and 26 January 2017.

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#### Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at 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 no complaints received in relation to the environmental impact during the reporting period.

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

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

#### Reporting Changes

There was no reporting change during the reporting period.

#### Future Key Issues

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

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

- 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, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
- 6. Radiation Screen Wall and Sign Gantry Footing at Portion B, E P, N;
- 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.

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

1. Installation of conceal conduit at Building 009, 027, 028, 029; and

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2. Installation of surface conduit and cabling works at Building 037.

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### 1. INTRODUCTION

#### 1.1 Background

- 1.1.1 MateriaLab Consultants Limited was commissioned by China Harbour Engineering Co. Limited (also referred to as "the Contractor") to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) 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) ("the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR).
- 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 Hong Kong–Zhuhai–Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) which is "Designated Projects", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (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. The general layout of the Project area is shown in Appendix A.
- 1.1.3 This is the seventeenth EM&A report to document the findings of site inspection activities and EM&A programme carried out by the Contractor of Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) from 01 January 2017 to 31 January 2017 (reporting period) under Contract No. HY/2013/03 (from 01 January 2017 to 31 January 2017 for the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) and is submitted to fulfil Condition 5.4 of the EP.

#### 1.2 **Project Description**

- 1.2.1 The works to be executed under Contract No. HY/2013/03 include the following major items:
  - a. Cargo clearance facilities including kiosks for clearance of good vehicles, customs inspection platforms, X-ray building, etc.;
  - Passenger related facilities including processing kiosks and examination facilities for private cars and coaches, annexure for examination of accompanying passengers of private cars, etc.;
  - c. Accommodation/offices for the facilities (like fire station, police station, buildings for Immigration Department [ImmD], Hong Kong Customs and Excise Department [C&ED], Agriculture, Fisheries and Conservation Department [AFCD], Food and Environmental Hygiene Department [FEHD], Department of Health [DofH] etc.) of the Government departments providing services in connection with the HKBCF;
  - d. Provision of transport and miscellaneous facilities inside the HKBCF including public transport interchange (PTI), transport drop-off and pick-up areas, vehicle holding areas, passenger queuing areas, road networks, footbridges, fencing, sewerage and drainage systems, sewage treatment plant and treated effluent disposal facilities, water supply system, building services works, electronic system, and traffic control and information

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system including traffic control and surveillance system (TCSS), etc.;

- e. Provision of roads connecting the BCF to the Hong Kong Link Road (HKLR), the Tuen Mun Chek Lap Kok Link (TM-CLKL) and the Hong Kong International Airport (HKIA), expect the part of road works in HKIA entrusted to the HKLR project; and
- f. Reprovisioning of the affected HKIA's facilities, expect those affected by the Automated People Mover (APM) system such as the existing east rescue berth.
- 1.2.2 The works to be executed under Contract No. HY/2013/06 within Contract No. HY/2013/03 works area include the following major items:
  - a. The Automatic Vehicle Clearance Support System amid to increasing traffic flow for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities;
  - b. Responsible for designs and develops a set of tailor-made computer monitoring and control systems to for daily security operation; and
  - c. The Clearance Workstations at 72 vehicle clearance kiosks, Customs and Excise's inbound and outbound traffic control centers as well as a Vehicle Tracking System.

#### 1.3 **Project Organisation**

1.3.1 The Project Organisation for Environmental Works of Contract No. HY/2013/03 is shown in **Appendix B**. The contact person and telephone numbers of key personnel for the captioned project are shown in **Table 1.1**:

Table 1.1 Cor	ntact Persons	and	Telephone	Numbers	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 /	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
Independent Environmental Checker	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
(Ramboll Environ Hong Kong Limited)	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
(China Harbour Engineering Co. Ltd)	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	

1.3.2 The Project Organisation for Environmental Works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area is shown in **Appendix B**. The contact person and telephone numbers of key personnel for the captioned project are shown in **Table 1.2**:

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Table 1.2 Contact Persons and Telephone Numbers 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 /	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
Independent Environmental Checker	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
(Ramboll Environ Hong Kong Limited)	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (ATAL Technologies	Site Agent	Mr. Eric Yim	2565 3355	3162 5217
Limited)	Environmental Officer	Mr. W. Li	2565 3137	3162 5217
Environmental Team (MateriaLab Leader Consultants Limited) (ETL)		Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline			6509 0375	

- 1.3.3 The Contract HY/2013/03 has commenced on 10 April 2015. The commencement of construction works and the EM&A programme have commenced on 29 August 2015.
- 1.3.4 The Contract HY/2013/06 has commenced on 14 August 2015. The commencement of construction works and the EM&A programme have commenced on 13 September 2016 within Contract No. HY/2013/03 works area.

#### 1.4 Construction Programme

1.4.1 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**.

# 1.5 Construction Works Undertaken during the Reporting Period

1.5.1 The construction works of Contract No. HY/2013/03 commenced on 29 August 2015 (includes the construction works of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area). During this reporting period, the following major site activities were commenced:

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

- 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;

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- 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.

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

- 1. Installation of conceal conduit at Building 009, 027, 028, 029.
- 1.5.2 Refer to operation team confirmation and further checking, the reported construction works for box culverts, pumping stations and STP were confirmed land-based for Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area). There were no work activities or construction works at the seafront or in contact with marine water during the reporting period for Contract No. HY/2013/03 (includes the construction Works of Contract No. HY/2013/03 works area). There were no work activities or construction works at the seafront or in contact with marine water during the reporting period for Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area).

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#### 2. AIR QUAILITY MONITORING

#### 2.1 Monitoring Locations

2.1.1 The air quality monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao-Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 as part of EM&A programme if these air quality monitoring stations are no longer covered under Contract No. HY/2010/02 and HY/2011/03. Figure 1 shows the locations of air monitoring stations.

Air Monitoring Station	Location
AMS6	Dragonair/CNAC (Group) Building (A80)
AMS7	Hong Kong SkyCity Marriott Hotel

#### 2.2 Monitoring Requirements

- 2.2.1 The monitoring requirements, equipment, parameters, frequency and duration, methodology, schedule, and meteorological information are described in the monthly EM&A Reports prepared for Contract No. HY/2010/02 and HY/2011/03.
- 2.2.2 The Action and Limit levels for 1-hr TSP and 24-hr TSP are summarized in **Table 2.2**.

Monitoring Station	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m³)				
1 hour TSP						
AMS6	360	500				
AMS7	370	500				
24 hours TSP						
AMS6	173	- 260				
AMS7	183					

Table 2.2 Action and Limit Levels for Air Quality

- 2.2.3 The event and action plan is provided in **Appendix D**.
- 2.2.4 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 monthly EM&A Report.

#### 2.3 Monitoring Results

- 2.3.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports prepared for Contract No. HY/2011/03 and HY/2010/02 respectively.
- 2.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 2.3.3 There was no Action and Limit Level exceedances 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.

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#### 3. NOISE MONITORING

#### 3.1 Monitoring Locations

3.1.1 The noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works". The ET of the Contract or another ET of the HZMB project is required to conduct noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract No. HY/2010/02. Figure 2 shows the locations of noise monitoring stations.

Table 3.1 Construction Noise Monitoring Location

ID No.	Description
NMS2	Seaview Crescent
NMS3B	Site Boundary of Site Office Area at WA2

#### 3.2 Monitoring Requirements

- 3.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology and monitoring schedule are detailed in the monthly EM&A Reports prepared for Contract No. HY/2010/02.
- 3.2.2 The Action and Limit Levels for construction noise are defined in **Table 3.2**.

Table 3.2 Action and Limit Level for Construction Noise

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

#### 3.3 Monitoring Results

3.3.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports prepared for Contract No. HY/2010/02. No noise exceedance was recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

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#### 4. WATER QUALITY MONITORING

- 4.1 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.
- 4.2 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.

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#### 5. ECOLOGY MONITORING

- 5.1 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.
- 5.2 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.

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# 6. DISPOSAL OF MARINE SEDIMENT EXTRACTED FROM BORED PILING WORKS

#### 6.1 Background

- 6.1.1 After the acceptance of the review of the approved Sediment Quality Report (SQR) for this Project under EPD letter dated 19 August 2015, an approval to dispose the marine sediment extracted from bored piling for this Project was then approved under memo from Secretary, Marine Fill Committee of CEDD dated 20 August 2015 for the disposal of marine sediment extracted from bored piling works. 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.
- 6.1.2 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 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).

#### 6.2 Dumping Arrangements

- 6.2.1 The barge for disposal of marine sediment was morn 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.
- 6.2.2 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.

#### 6.3 Quantity Disposed

6.3.1 Marine sediment extracted from bored piling from this Contract was disposed to allocated dumping site in January 2017. The summary of marine sediment disposed up to end January 2017 is shown in the following table:

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# Table 6.1 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	
Jan 2016	1.272	1.950	0.800	4.022	
Feb 2016	2.816	2.328	0.704	5.848	
Mar 2016	0.600	2.464	3.942	7.006	
Apr 2016	5.128	5.602	5.028	15.758	
May 2016	0.000	0.000	0.000	0.000	
Jun 2016	1.200	4.584	1.578	7.362	
Sub-Total	11.016	16.928	12.052	39.996	
Jul 2016	0.728	10.728	3.690	15.146	
Aug 2016	1.784	1.544	4.428	7.756	
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	
Dec 2016	1.568	4.960	2.538	9.066	
Cat L in Dec 2016	0.000	2.792	3.570	6.362	
Sub-Total	18.520	46.144	35.452	100.116	
Jan 2017	0.000	0.656	6.552	7.208	
Total	18.520	46.800	42.004	107.324	

Note: All sediments are in Type II disposal method except Cat L (in Type I)

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# 7. ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### 7.1 Site Inspection

- 7.1.1 Site audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.
- 7.1.2 The joint site audits for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) were conducted on 05, 12, 20 and 26 January 2017 by the representatives of Engineer, Contractor, ET and IEC (IEC for 26 January 2017).
- 7.1.3 Particular observations during the site inspection and corrective actions undertaken by the Contractor are described below:

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

#### 29 Dec 2016

- 1. CHEC was reminded to remove stagnant water accumulated at CUE works area and Building 037. Subsequently, stagnant water was removed from CUE works area and Building 037. The observation was closed on 05 January 2017.
- 2. CHEC was reminded to increase watering for dust suppression at STP area. Subsequently, watering was increased at STP area. The observation was closed on 05 January 2017.
- 3. CHEC was reminded to remove general refuse on site. Subsequently, general refuse was removed on site. The observation was closed on 05 January 2017.

#### <u>05 Jan 2017</u>

- 1. CHEC was reminded to remove stagnant water accumulated at trays at CUE works area. Subsequently, stagnant water was removed from the trays at CUE works area. The observation was closed on 12 January 2017.
- 2. CHEC was reminded to remove general refuse accumulated at CUE works area. Subsequently, general refuse was removed from CUE works area. The observation was closed on 12 January 2017.

#### <u>12 Jan 2017</u>

- 1. CHEC was reminded to remove general refuses at Building 057 and 049. Subsequently, general refuse was removed from Building 057 and 049. The observation was closed on 20 January 2017.
- 2. CHEC was reminded to remove stagnant water accumulated at drip tray for chemical containers at Building 049. Subsequently, stagnant water was cleared from drip tray for chemical containers at Building 049. The observation was closed on 20 January 2017.
- 3. CHEC was reminded to remove food waste on site. Subsequently, food waste was removed on site. The observation was closed on 20 January 2017.

#### <u>20 Jan 2017</u>

1. CHEC was reminded to remove general refuse accumulated at A2 Bridge. Subsequently, general refuse was removed from A2 Bridge. The observation was closed on 26 January 2017.

#### <u>26 Jan 2017</u>

1. CHEC was reminded to improve housekeeping at CUE works area and STP works area. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period. Room 723 & 725, 7/F, Block B, Profit Industrial Building, Tel 1-15 Kwai Fung Crescent, Kwai Fong, Fax Hong Kong, Emai

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- 2. CHEC was reminded to remove chemical container at STP works 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 remove stagnant water at drip tray for generator at STP works area. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
- 4. CHEC was reminded to remove stagnant water at Building 037. 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

<u>05 Jan 2017</u> 1. Nil findings.

<u>12 Jan 2017</u> 1. Nil findings.

<u>20 Jan 2017</u> 1. Nil findings.

<u>26 Jan 2017</u> 1. Nil findings.

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

- 7.2.1 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.
- 7.2.2 The monthly 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) are detailed in **Appendix E**.
- 7.2.3 0.656 (in'000m<sup>3</sup>) of excavated marine sediment (from Contract No. HY/2013/03), 0.000 (in'000m<sup>3</sup>) of Inert C & D Wastes and 0.580 (in'000m<sup>3</sup>) of Non-inert C & D Wastes were generated (from Contract No. HY/2013/03) in this reporting period. No Inert C & D Wastes and 0.002 tonnes of paper/cardboard packaging were generated and recycled (from Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) in this reporting period.
- 7.2.4 The excavated marine mud from the land-based works was disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee. The Contractor of Contract No. HY/2013/03 shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.
- 7.2.5 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.
- 7.2.6 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.

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#### 7.3 Environmental Licenses and Permits

7.3.1 The valid environmental licenses 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 F**. 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).

#### 7.4 Implementation Status of Environmental Mitigation Measures

- 7.4.1 In response to the site audit findings, the Contractor carried out corrective actions.
- 7.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. All necessary mitigation measures at this stage of works were implemented properly.
- 7.4.3 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. The marine traffic records and geographical plots of all the vessels tracks to demonstrate the conformance of the vessel to the proposed route in January 2017 would be provided to ER, ETL, IEC/ENPO for checking within the month of February 2017.
- 7.4.4 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.

#### 7.5 Summary of Exceedance of the Environmental Quality Performance Limit

- 7.5.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 7.5.2 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.
- 7.5.3 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.
- 7.5.4 There was no marine works conducted during the reporting period and therefore, no relevant monitoring result is reported.
- 7.5.5 There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.
- 7.6 Summary of Complaints, Notification of Summons and Successful Prosecution

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- 7.6.1 There were no complaints received in relation to the environmental impact during the reporting period. The details of cumulative statistics of Environmental Complaints are provided in **Appendix H**.
- 7.6.2 There was no notification for summons or prosecutions received in relation to the environmental impact during this reporting period.
- 7.6.3 Statistics on environmental complaints, notifications of summons and successful prosecutions are provided in **Appendix H**.

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#### 8. FUTURE KEY ISSUES

#### 8.1 Construction Programme for the Coming Months

8.1.1 As informed by the Contractor, the following are the major construction activities anticipated in February 2017:

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

- 1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
- 2. Piling at Box Culvert B & Sign Gantry;
- 3. CUE Construction at Portion B, C & J;
- 4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
- 5. Radiation Screen Wall at Portion B, E, P, N, M, C;
- 6. 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.

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

- 1. Installation of conceal conduit at Building 009, 027, 028, 029; and
- 2. Installation of surface conduit and cabling works at Building 037.

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

8.2.1 The tentative schedule for weekly site inspections for February 2017 is provided in Appendix I.

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#### 9. CONCLUSIONS

- 9.1 Commencement of Contract No. HY/2013/03 took place on 10 April 2015. The commencement date for 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. The commencement date for construction works and the EM&A programme of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area).
- 9.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 9.3 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.
- 9.4 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.
- 9.5 There was no marine works conducted during the reporting period and therefore, no water quality impact monitoring result is reported.
- 9.6 There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.
- 9.7 Environmental site inspections were carried out on 05, 12, 20 and 26 January 2017. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.
- 9.8 There were no complaints received in relation to the environmental impact during the reporting period.
- 9.9 There were no notifications of summons or prosecutions received during the reporting period.

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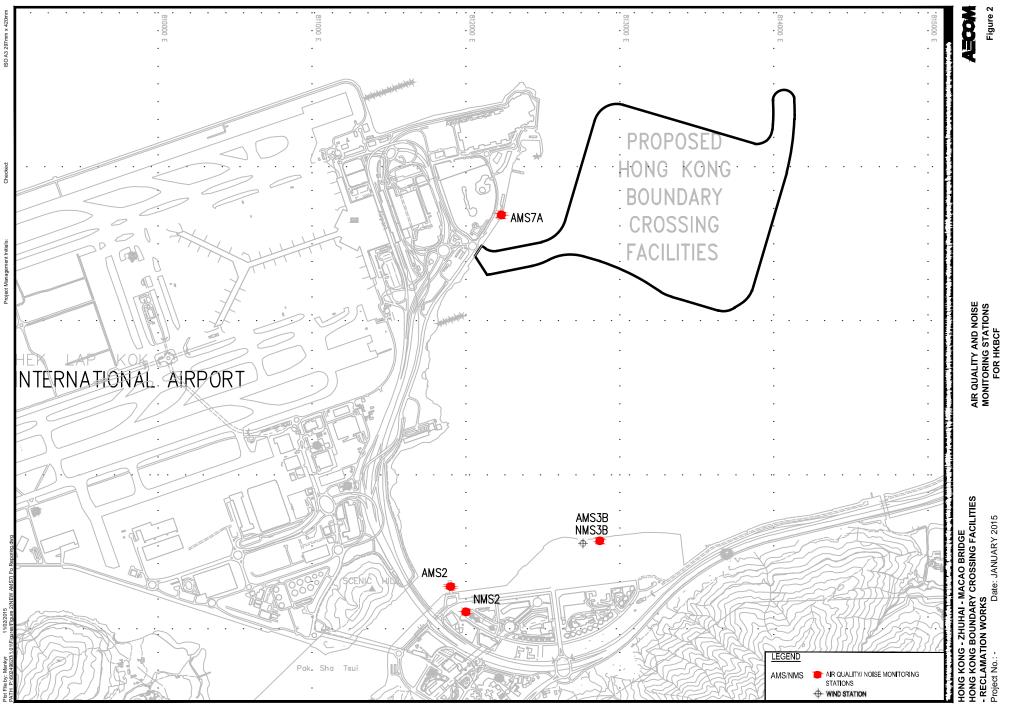
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Figure 1

**Air Quality Monitoring Stations** 



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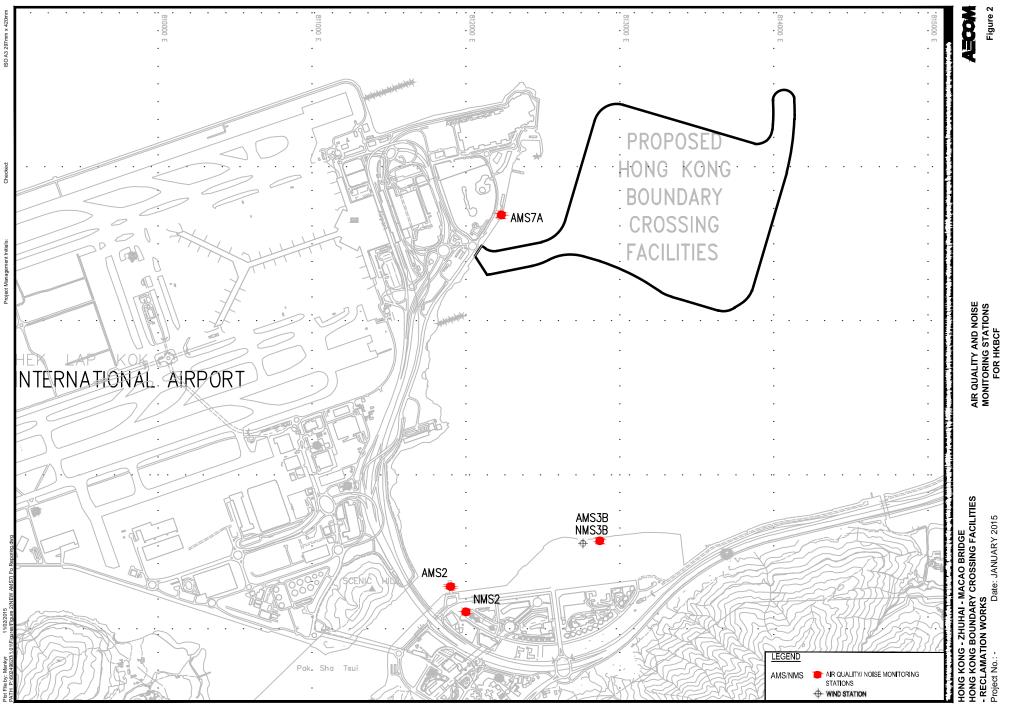
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Figure 2

**Noise Monitoring Stations** 



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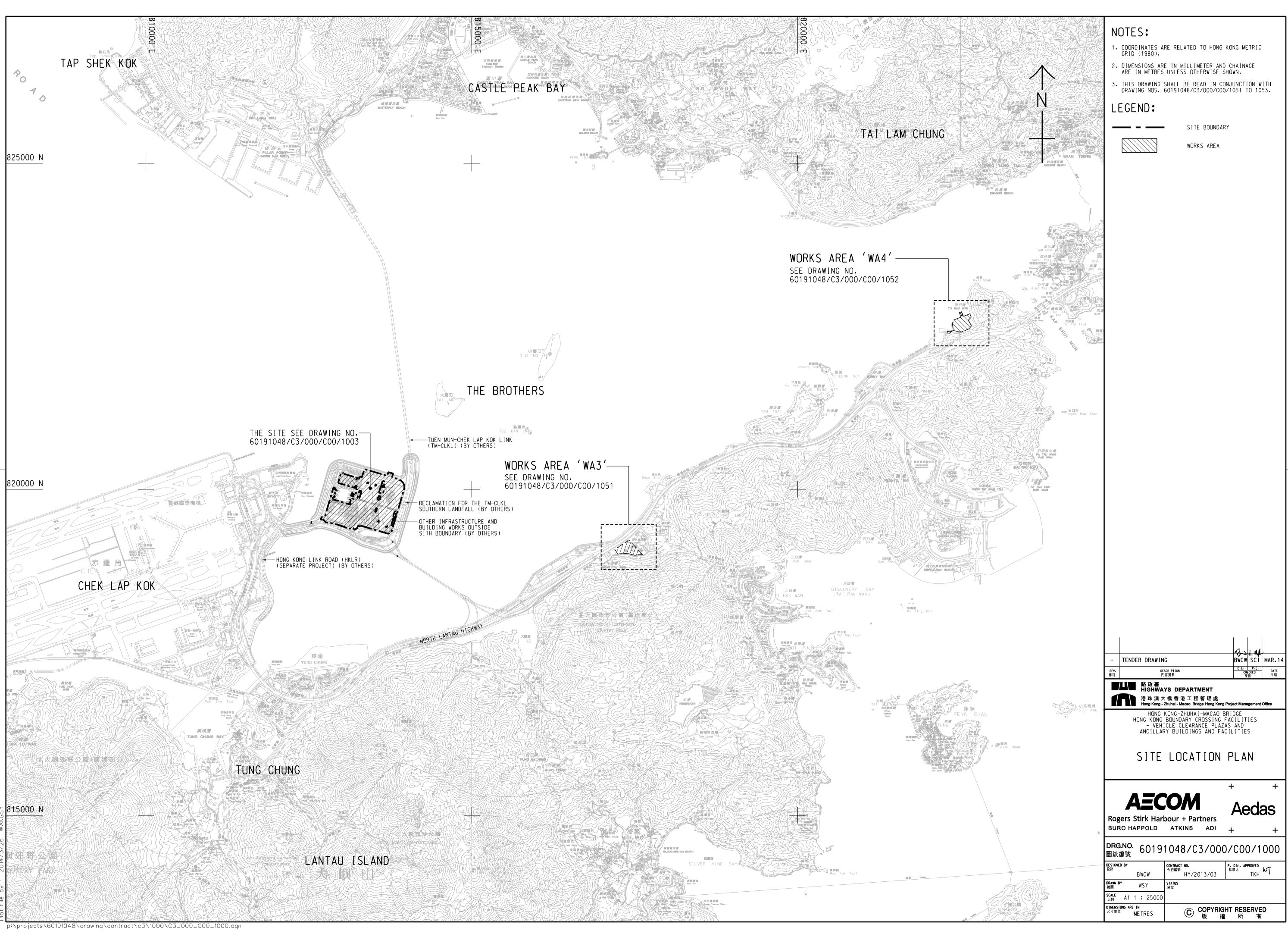
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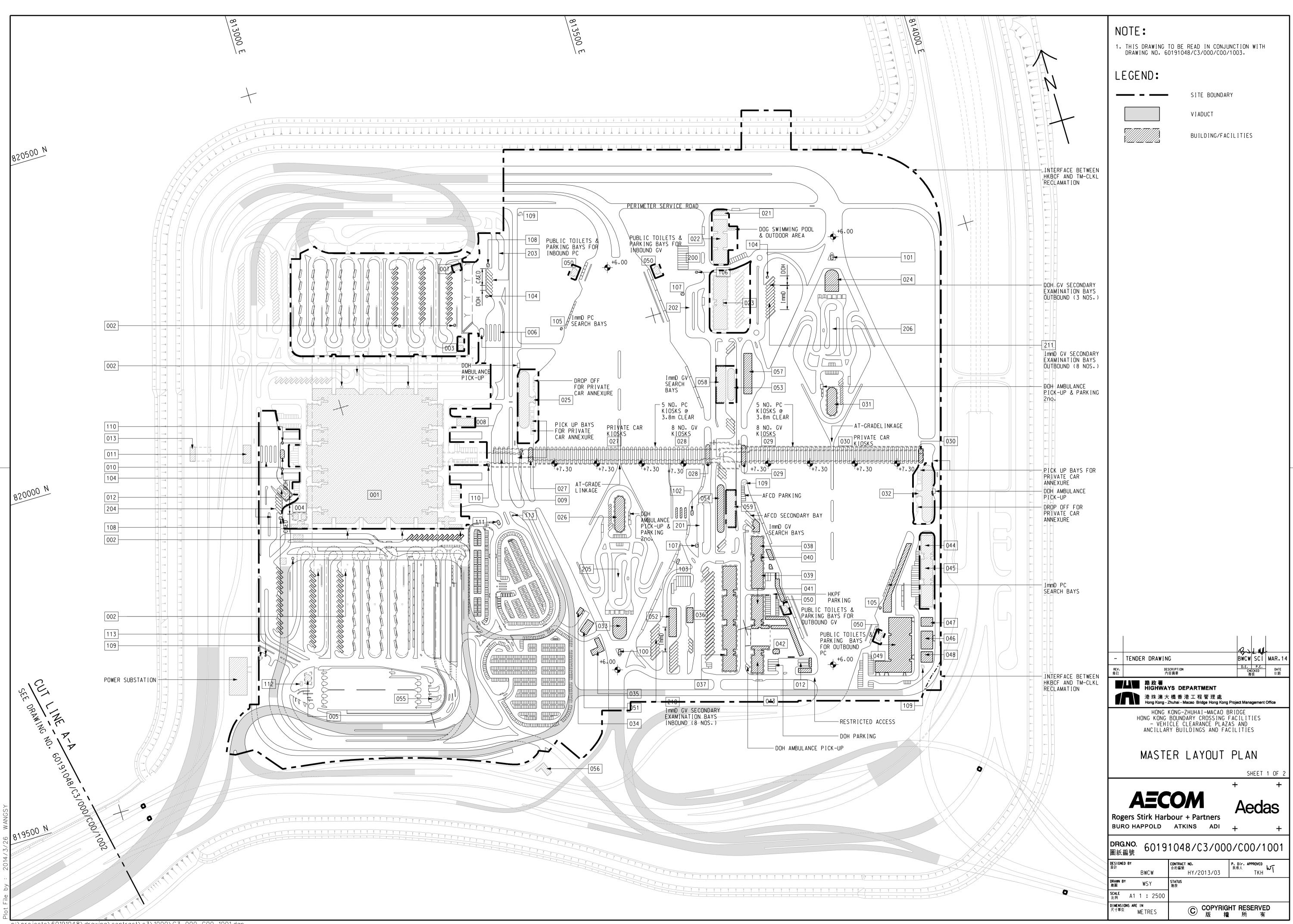


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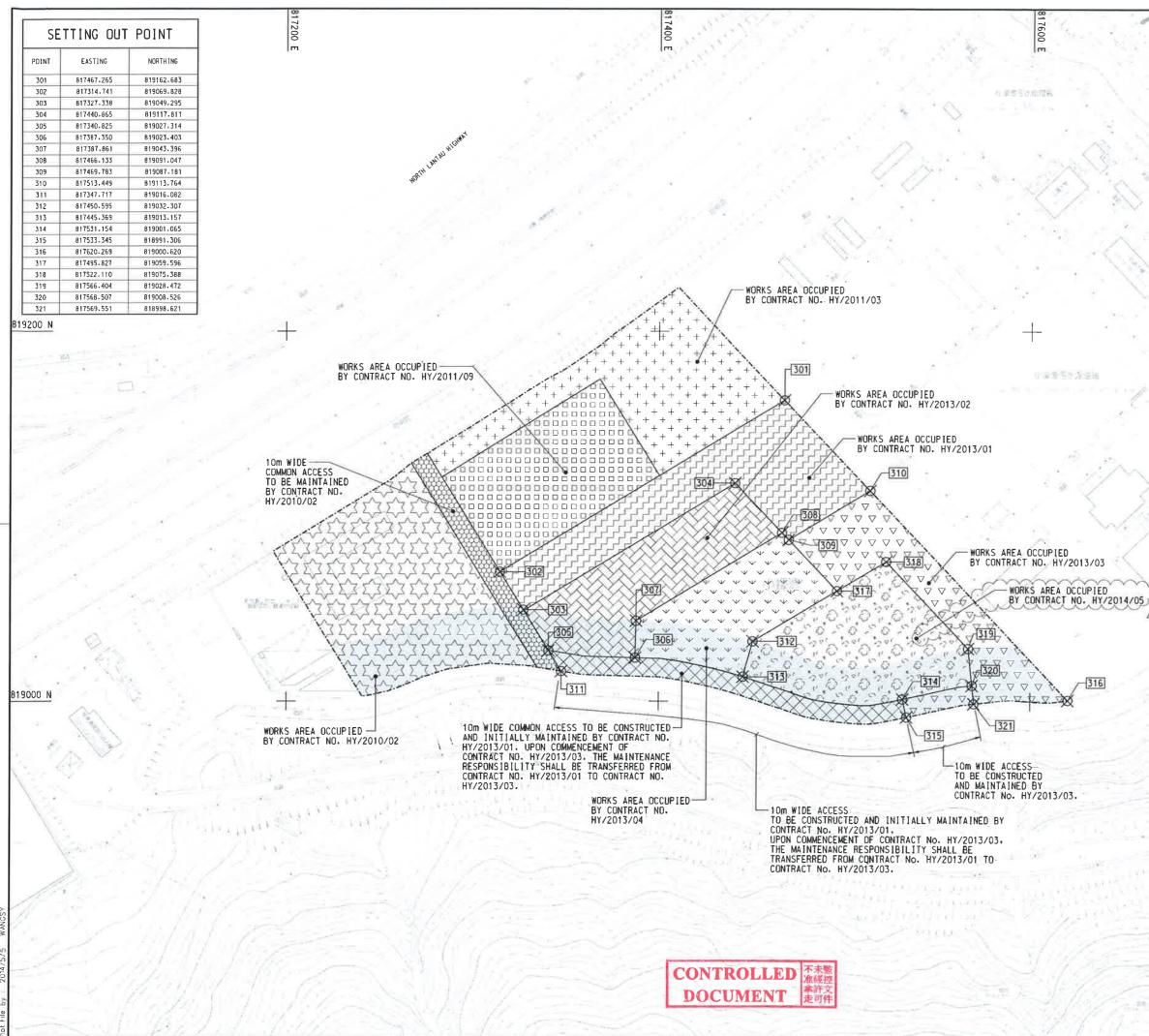
Appendix A

**Location of Works Areas** 





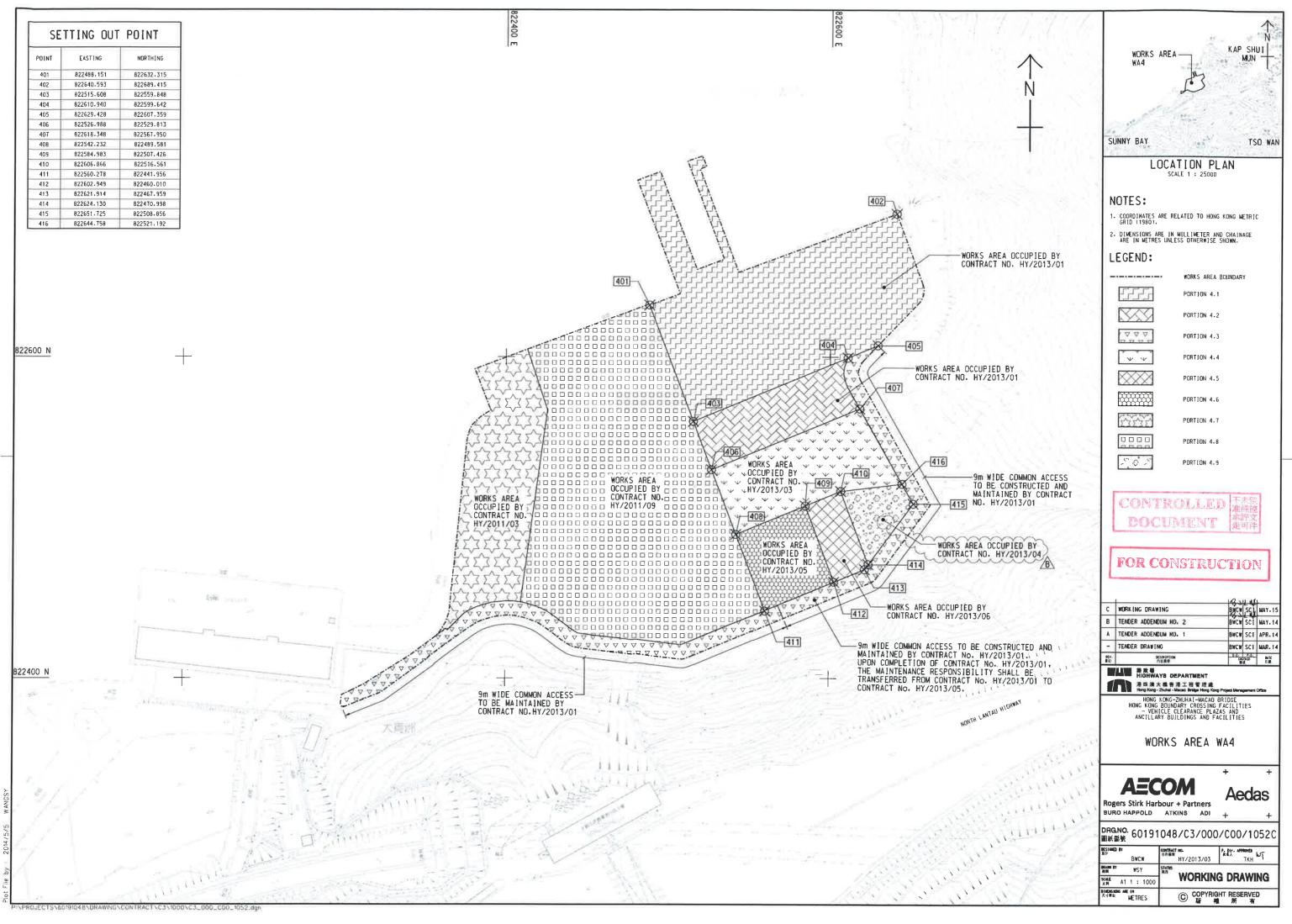
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Appendix B

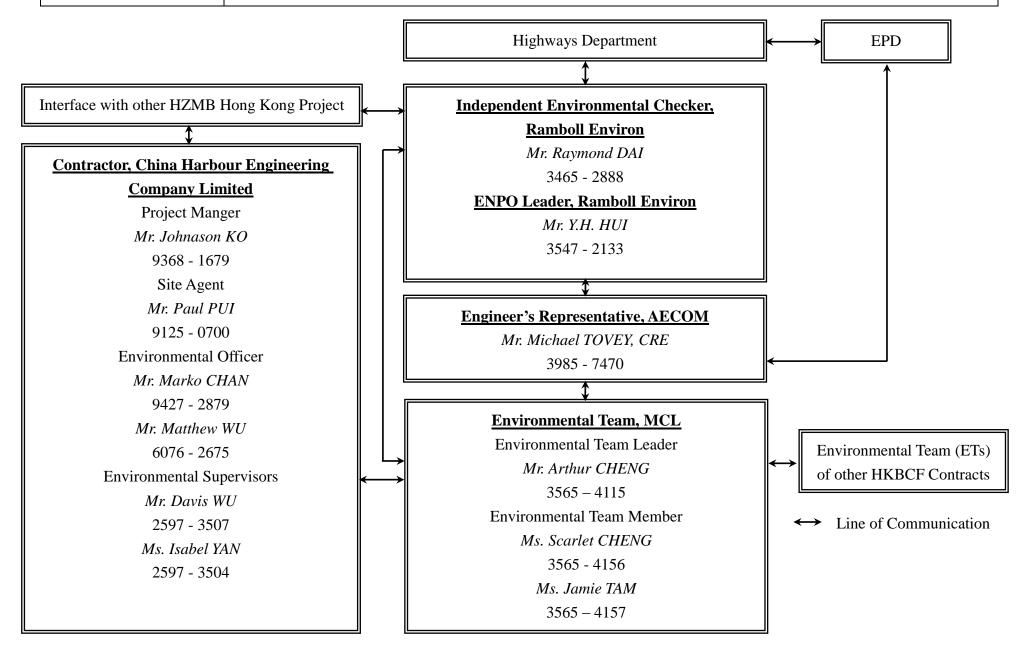
**Project Organization for Environmental Works** 

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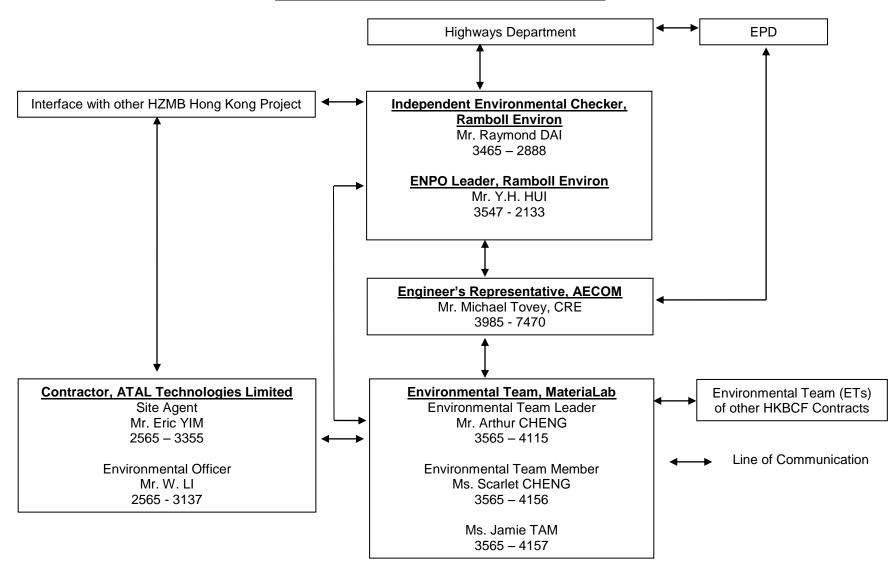
Contract No. HY/2013/03 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities

# **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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Appendix C

**Construction Programme** 

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	bundary Crossing Facilities - Vehicle Clearance Plazas and A	ncillary Buildings and Facilities			0017
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A0180	Possession of Portion R (<=610 days)				
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A0220	Contract Date for Access to Location 1.2 (405 days)			Contract Date for Access t	
A0230	Contract Date for Access to Location 1.3 (488 days)			Contract Date for Access t	
A0240	Contract Date for Access to Location 1.4 (488 days)		•	Contract Date for Access t	to Location 1.4 (488 days)
A0250	Contract Date for Access to Location 1.5 (580 days)			Contract Date for Access t	to Location 1.5 (580 days)
A0260	Contract Date for Access to Location 1.6A (700 days)				<ul> <li>Contract Data</li> </ul>
A0280	Contract Date for Access to Location 1.7A (610 days)			Contract Date for Access t	to Location 1.7A (610 days)
A0290	Contract Date for Access to Location 1.7B (610 days)		•	Contract Date for Access t	to Location 1.7B (610 days)
A0300	Contract Date for Access to Location 1.7C (610 days)		•	Contract Date for Access t	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)	•		to Location 1.8 PCB (Basemo
A0320	Contract Date for Access to Location 1.8 PCB (Ground Floor level	or above) (515 days)			to Location 1.8 PCB (Ground
A0330	Contract Date for Access to External Area for Contract HY/2013/0	I for ELV System Installation (570 days)		Contract Date for Access t	to External Area for Contract
A0340	Contract Date for Access to External Area for Contract HY/2013/02	2 for ELV System Installation (560 days)		Contract Date for Access t	o External Area for Contract
A0350	Contract Date for Access to External Area for Contract HY/2013/04	1 ELV System Installation (560 days)		Contract Date for Access t	to External Area for Contract
A0330		LEV System installation (500 days)			
Section/S	tage Subject to Excision				
A0770	Contract Date for Section VI (650 days, latest date when the Engir	neer may order)	<ul> <li>Contract Date f</li> </ul>	or Section VI (650 days, late	st date when the Engineer m
A0780	Contract Date for Section VII (650 days, latest date when the Engi	neer may order)	<ul> <li>Contract Date</li> </ul>	or Section VII (650 days, lat	est date when the Engineer r
PRELIMI	NARY				
	ard for Bridge Segement				
A0630	Segment Manufacture				
PORTIO	-				
	1 Structures			1 	 
Bridge A					
SA9230 SA9240	•				
Pier & At	•			       	
				1	1 1
Actual	l Work	THREE MONTH ROLL	ING PROGRAMME	Date	Revis
Rema	aining Work	VEHICLE CLEARANCE PLAZAS AND AN	CILLARY BUILDINGS AND F		3MRP updated as of 30 Nov. 20 3MRP updated as of 31 Dec. 20
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		Apr		Мау
	r	יקר		iviay
			•	KD1 Ac
16)				
KD7 Ach	ievement of Stag	ge 6 of the	Works (	500.5 c
	<ul> <li>Possession o</li> </ul>			
•	Possession of	Portion F	(<=220	days)
		(Dartian D	(	day(a)
	Possession of	Portion R	(<=010	days)
te for Acces	s to Location 1.6	SA (700 da	vs)	
			<b>,</b> -,	
ent level up t	o ground floor s	lab) (395 d	lays)	
	or above) (515 d			
HY/2013/01	for ELV System	Installatio	n (570 d	ays)
HY/2013/02	for ELV System	Installatio	n (560 d	ays)
				`
HY/2013/04	ELV System Ins	tallation (5	60 days	5)
ay order)				
nay order)				
ion		Checked	Appro	oved
16	Z			
16 17		.J .J		
17	2	J.J.		

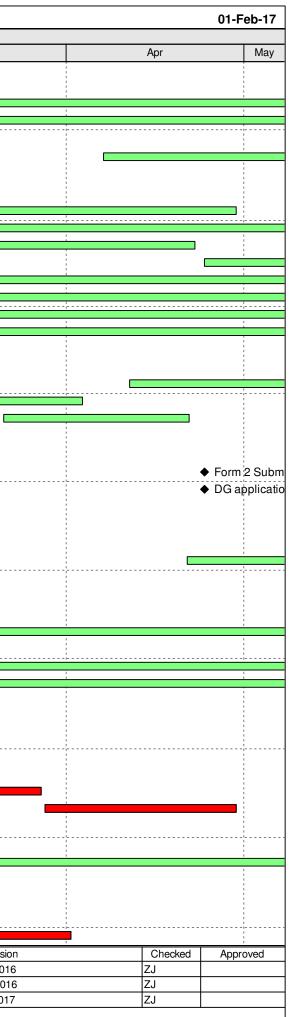
ty ID	ndary Crossing Facilities - Vehicle Clearance Plazas and Activity Name					1	2017
			Jan		Feb		Mar
SA9310	Abutment A905						
SA9320	Pier P904						
SA9330	Pier P903						
SA9340	Pier P902						
SA9350	Abutment A901						
Structure I	Deck						
SA9400	Falsework for Deck A905 - P904						
SA9410	Deck on A905, P904 + Stressing						
SA9415	Falsework for Deck P904 - P903						
SA9420	Deck on P904, P903 + Stressing						
SA9430	Falsework for Deck P903 - P902						
SA9440	Deck on P903 & P902 + Stressing						
SA9450	Falsework for Deck P902 - A901						
Retaining							
SW8110	Construction of Retaining Wall W8-1 (U-shape, 4 bays)					·	
SW8120	Backfilling W8-1					1	
Retaining	-						
SW9110	Construction of Retaining Wall W9-1 (U-shape, 4 bays)				<u> </u>	1	
SW9120	Backfilling W9-1						
Box Culve	rt D						
Box Culve	rt D Construction						
SD0170	Box Culvert D Construction (Stage 4, Bay 19 - 21 & 24 - 32)						
SD0180	Box Culvert D Backfilling						
047 - Fresl	h Water Pumping Station, Portion A1 & A2						
A04740	Water Tank Construction		L				
A04750	Pump House Construction						
A04752	Water-tightness Test for Water Tank						
A04760	Parapet Wall at Roof Slab & Fiishing						
A04770	BS for Office Accommodations (Stage 8) (Degree 2)						
Test & Cor			<u>+</u>				
	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
	age Treatment Plant, Portion A1 & A2						
B04960	ELS1 + Blinding for Equalization Tanks + Wet Well & Inlet Char						
B04970	Constructing Base Slab for Equalization Tanks + Wet Well & Inle	et Chamber					
B04980	Backfiling + Removing 3rd Strut of ELS1						
B04990	Constructing Wall Stem for Equalization Tanks						
C04910	Water-tightness Test for Equalization Tanks						
C04930	ELS2 + Blinding for Sludge Holding Tanks						
C04940	Constructing Base Slab of Sludge Holding Tanks						
C04950	Backfiling + Removal Strut of ELS2				ן		
C04960	Constructing Wall Stem of Sludge Holding Tanks						
C04970	Water-tightness Test for Sludge Holding Tanks						
C04990	Backfiling + Removal of ELS2						
D04920	Constructing Base Slab for MBR Tanks						
D04930	Constructing Wall Stem for MBR Tanks						
D04970	Transformer Room Construction						
D04980	BS + E&M for Transformer Room to CLP (KD7)						
D04980 D04985	Energisation by CLP						
	Other Ground Slab Construction						
D04990			÷				
E04910	Other Superstructure Construction						
Actual V	Vork	THREE MONTH RC	LLING PROGRAMME		Date		Revis
	ing Work	VEHICLE CLEARANCE PLAZAS AND		CILITIES			pdated as of 30 Nov. 20
	~		2 of 20			3MRP u	pdated as of 31 Dec. 20
Critical		FAUE	2 01 20		01-Feb-17	AL /	pdated as of 31 Jan. 20



ID	Activity Name					2017
			Jan	Fel	b	M
Portion A1						
	Disinsection Area and Store Room 1, at Portion A1					
A01250	Finishing					
A01260	BS for Office Accommodation (Stage 8) (Degree 2)					
A01270	BS + E&M for Office Accommodation (Stage 9) (Degree 3)					
A01280	Other BS + E&M Installation					
Test & Con	nmission					
	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
036 - Weig	h Station					
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					
037 C&ED	Tower Cum Inbound Cargo Examination Building (Portio	n A1 & B)				
A03740	Steel Frame Structure Installation		, i			1
A03742A	Mock-up Sample for Curtain Wall					
A03742B	Mock-up Sample for Cladding					
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade					
A03744	Curtain Wall/Metal Roof/Aluminium Cladding Installation					1
A03748	Wall/Ceiling Plastering/Tiling					
A03752	Floor Screed/Tiling	I				-
A03752	Window/Door Frame Installation	R				1
A03758	Paint Finish					
A03758 A03760	BS + E&M for AVCSS Cabling (KD18A)					
		I				
A03770	BS + E&M for AVCSS Cabling (KD18B)	B				
A03780	BS for Office Accomodation (KD9)					
A03785	BS for Office Accomodation (KD10)					
A03790	Other BS + E&M Installation					1
Test & Con						
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03770	WSD Inspection					
B03790	Beam Plus Monthly Submission & Issue					
	tation Cum Ambulance Depot					
A04120	Superstructure, G/F to 1/F					
A04122	Superstructure, 1/F to 2/F (incl. parapet wall and planter wall)	!				
A04126	Cladding & Curtain Wall Installation (incl. steel & metal works)		je			i i
A04132	Blockworks					
A04133	Ceiling & Wall Plastering/Wall Tiling					
A04134	Floor Screeding/Tiling/Vinyl Tiles					
A04135	Ceiling/Wall Painting					
A04136	Carpentry (Door, Fabric Wall Panel, Movable/Folding Partition)					
A04137	False Ceiling Installation					
A04140	BS for Office Accomodation (Stage 8)		1			·
A04160	Other BS + E&M Installation					
Test & Con	nmission					
B04120	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
	DG application					
042 Drill To						
				1	Date	
Actual W				30		IRP updated as of 30
	ing Work	VEHICLE CLEARANCE PLAZAS AND ANCI				IRP updated as of 31
Critical		Page 3 of 2	20			IRP updated as of 31

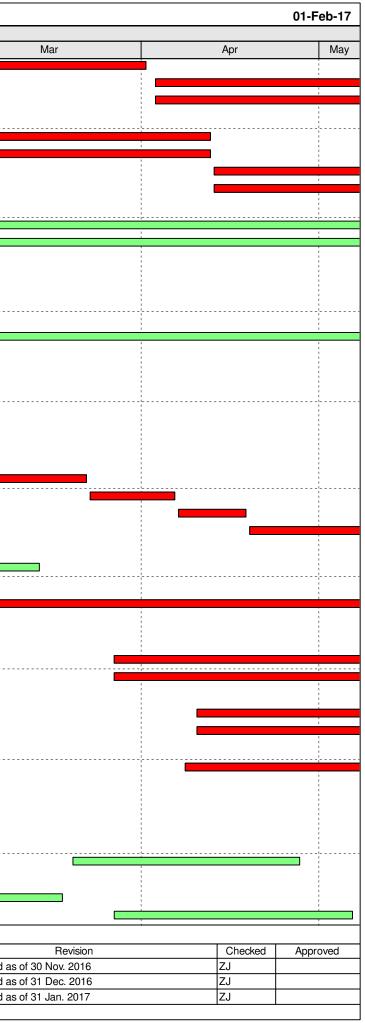


ty ID	Activity Name					2017	
			Jan		Feb	1	Mar
A04260	Finishing		-				
A04270	BS for Office Accomodation (Stage 8)						
A04280	BS + E&M for Office Accomodation (Stage 9)						
A04290	Other BS + E&M Installation						
Test & Con							
B04220	T&C for BS Pumps						
043 DOH C	Office + Store Room						
A04330	Superstructure						
A04340	Water Tanks for F.S./Sprinkler Pump Room						
A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)					· · · · · · · · · · · · · · · · · · ·	
A04380	BS for Office Accomodation (Stage 8)						
A04390	BS + E&M for Office Accomodation (Stage 9)						
B04310	Other BS + E&M Installation						
B04320	Mock Up For Green Wall (SS39)						
B04330	Stainless Steel Mesh Installation					1	
B04340	Metal Windows/Louvres/Doors/Railing etc. installation						
B04350	Blockworks						
B04360	Wall Plastering/Tiling						
B04370	Floor Screeding/Tiling						
B04380	False Ceiling Installation & Painting			· · · · · · · · · · · · · · · · · · ·			
B04390	Carpentry (Wooden Doors/Partition/Lockers/Etc.)						
C04310	C/S Wall Plastering						
Test & Con	nmission						
C04360	Form 2 Submission		-				
C04380	DG application					· · · · · · · · · · · · · · · · · · ·	
	sforms (Zone 4)						
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					······	
	Genset Installation						
	tatutory Inspection						
B05210	T&C for BS & Pumps		_				
B05220	DG application						
B05270	Non-Essential T&C (Non-FSI)						
B05280	OP Application & TPIDC Inspection						
	n of Fire Services Installation and Equipment (FCD)						
C05210	Approved Building Plans		-	Approved I	Ruilding Plane		
	Guard Booth, Portion A1 (Mock Up)				Sunding Flans		
				1 1 1 1			
B10500	Shop Drawings & Material Submission			1			
B10510	Excavation + Blinding		_				
B10520	Substructure (Raft Foundation)						
B10530	On Grade Ground Slab		_				
	velop Structure Installation			   			
B10580	Shop Drawing Submission and Approval						
B10590	Fabrication of F/C System		_				
-	orks for Portion A1						
_Drainage V							
ED0020	Drainage Works (773m & 34MHs), Stage 1 (Western)						
ED5590	Drainage Works (774m & 35MHs), Stage 2 (Middle)					1	
Actual W	Vork	THREE MONTH I	ROLLING PROGRAMME		Date		Revisio
	ing Work	VEHICLE CLEARANCE PLAZAS ANI				3MRP updated as of 30	
Critical			age 4 of 20	AVILITIEU		3MRP updated as of 31	
		1			01-Feb-17	3MRP updated as of 31	lan 2017

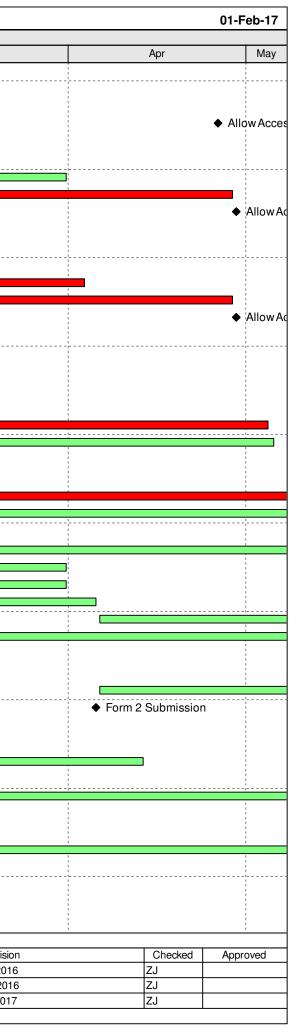


tivity ID	Activity Name			2017
		Jan	Feb	Mar
ED5600	Sewerage (300m & 9MHs), Stage 2 (Middle)			
ED5610	Drainage Works (773m & 34MHs), Stage 3 (Eastern)			
ED5620	Sewerage (269m & 7MHs), Stage 3 (Eastern)			
Waterpipe				   
	Fresh Water Main Laying (700 m), Stage 1 (Western)			1
EW6010	Flushing Water Main Laying (322 m), Stage 1 (Western)			
EW6020	Fresh Water Main Laying (700 m), Stage 2 (Middle)			
	Flushing Water Main Laying (322 m), Stage 2 (Middle)			
	g for Utilities/Telecom Cabling, TCSS & Lighting			
EU5260	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV			
EU5270	Duct & Cable Laying for TCSS & Lighting			
PORTION				
Portion A2				
046 - Refus	se Collection Point, Portion A2			
A04610	Raft Foundation			
A04620	Superstrurcture w/2 water tank			
Test & Con	nmission			
B04620	Submission & Issue of WW046 I, II, III (Inside Services & FS)			
048 - Recla	imed Water Pumping Station, Portion A2			
A04830	Sheet Piling as ELS for Basement 1			 I I
A04860	Basement 1 Construction			
A04865	Water-tightness Test for Basement 1			
A04867	Backfilling + Removal of ELS			
A04870	Basement 2 Construction			
A04880	Water-tightness Test for Basement 2			     
A04890	Backfilling			
B04810	Superstructure Construction			
Test & Con	nmission			
B04860	DGApplication			
Retaining	Wall W9-2			
SW9210	Construction of Retaining Wall W9-2 (U-shape, 6 bay)			
External Wo	orks for Portion A2			
Drainage V	Vorks			
ED2280	Drainage Works (114m & 8MHs), Stage 1 (Eastern)			
ED3560	Sewerage (161m & 5MHs), Stage 1 (Eastern)			
Waterpipe				
EW2290	Fresh Water Main Laying (118m), Stage 1 (Eastern)			
EW2300	Flushing Water Main Laying (45m), Stage 1 (Eastern)			
Roadworks				
ER2380	Subbase (400 ton), Stage 1 (Eastern)			   !
PORTION				
Portion B S				
Retaining				
S70870	Construction of Retaining Wall W7-2 (L-shape, 1 bays)			
S70890	Retaining Wall W7-2 Backfilling			
Retaining				
S62050	Construction of Retaining Wall W6-1 (L-shape, 4 bays)			
S62060	Retaining Wall W6-1 Backfilling			
				1
Actual W	/ork	THREE MONTH ROLLING PROGRAMME	Date	Rev
	ng Work	VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITI	30-Nov-16	3MRP updated as of 30 Nov. 2

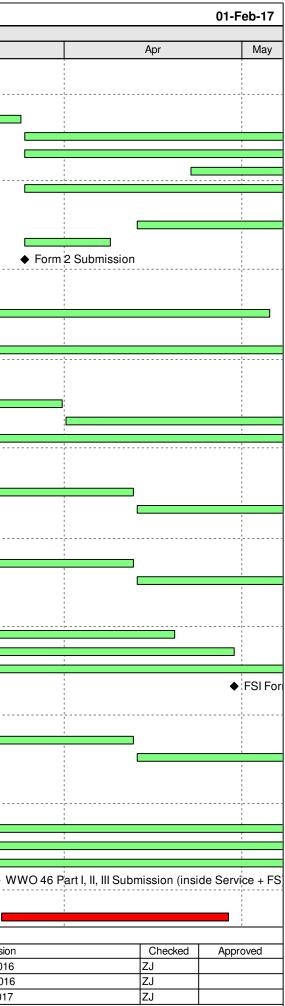
Remaining Work			
	VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	31-Dec-16	3MRP updated
Critical	Page 5 of 20	01-Feb-17	3MRP updated
♦ Milestone			



HZMB HK Bou	undary Crossing Facilities - Vehicle Clearance Plazas and	Ancillary Buildings and Facilities				
Activity ID	Activity Name					2017
			Jan		Feb	Mar
	of CUE/Staff Subway					
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		, , , ,			
	4 of CUE/Staff Subway					
C02830	Bay 20 - 24 Construction - Wall + Top Slab					
C02840	Internal Finishes & Cable Containment (KD1)					
C02850	BS + E&M Installation for AVCSS (Stage 1)					
C02860	Allow Access to C1 for Chilled Water Pipe (CUE) installation					
Bay 25 - 2	9 of CUE/Staff Subway					
C02920	Bay 25 - 29 Construction - Base Slab					
C02930	Bay 25 - 29 Construction - Wall + Top Slab				l	
C02960	Internal Finishes & Cable Containment (KD1)					
C02970	BS + E&M Installation for AVCSS (KD1)					
C02980	Allow Access to C1 for Chilled Water Pipe (CUE) installation		, , , ,			
Portion B	Buildings					
027/028 Ir	bound Kiosks & 029 Outbound Kiosks		;			
A02710	Pre-fabrication for the Steel Kiosks		1			
A02715	Mock up for Steel Kiosks		1			
A02718	Mock up for Goods Vehicle Canopy					
A02720	Superstructure		1			
A02780	BS + E&M for AVCSS Works (KD18A)		L			
	bound Kiosks & 029 Outbound Kiosks, Section IX, Subject	et to Excision				
B02740	Pre-fabrication for the Steel Kiosks		     			
B02750 B02760	Superstructure		1 1 1			
	BS + E&M for AVCSS Works (KD18C)					
	IND INMD and DOH Secondary Screening Building					
A02640	Finishing					
A02650	Contractor's Design Submission for SS Mesh Screen & Approva					1
A02660	Contractor's Design Submission for Aluminium Cladding & Appr	oval				
A02670	BS for Office Accomodation (Stage 8)					
A02680	BS + E&M for Office Accomodation (Stage 9)		1 1 1			
A02690	Other BS + E&M Installation					
Test & Co	mmission					
B02620	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
B02650	TC for BS & Pumps					
B02680	Form 2 Submission					
054 Inbou	Ind Fixed X-ray Building					
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					
T&C and S	Statutory Inspection for Zone 4a					
B05420	T&C for BS & Pumps		   			
B05450	DGApplication					
	on of Fire Services Installation and Equipment (FCD)		L			
F05440	Approved Building Plans				Building Plans	
	ks Ordinance (WSD)				_anang rane	
vvaler vvOr			1			1
Actual	Work				Date	Revisio
	ning Work					3MRP updated as of 30 Nov. 2010
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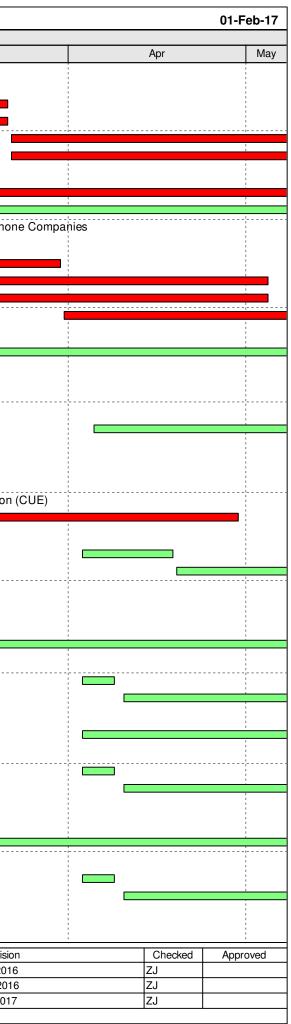
vity ID	Activity Name					2017	
			Jan		Feb		Mar
	Approval Letter and approved Drawings			<ul> <li>Approval I</li> </ul>	_etter and ap	proved Drawings	
038 AFCD							
A03830	Superstructure; G/F to 1/F						
A03840	Superstructure; 1/F to 2/F (incl. parapet and planter wall)					!	
A03850	Finishing + Curtain Wall Installation						
A03870	BS for Office Accomodation (Stage 8)						
A03880	BS + E&M for Office Accomodation (Stage 9)						
A03890	Other BS + E&M Installation						
Test & Con	nmission						
B03810	T&C for BS & Pumps						
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03820	Form 2 Submission						
039 Police	Main Building						
A03930	Superstructure; G/F to 1/F						
A03935	Superstructure; 1/F to 2/F (incl. parapet and planter wall)						
Test & Con	nmission						
B03950	Beam Plus Monthly Submission & Issue						
	DG application	l		· <mark>-                               </mark>			
	nt Control Tower						
A04040	Superstructure					1	
A04050	Finishing (KD9)						
A04060	BS for Office Accomodation (Stage 8), & for TCSS works (KD14)						
	adding System			····			
B04010	Shop Drawing Submission and Approval						
B04020	Fabrication of F/C System Casted-in Items Installation						
B04030							
Glass Wall				· <del>-</del> <del>-</del>			
C04010	Shop Drawing Submission and Approval						
C04020	Fabrication of Glass Wall						
C04030	Casted-in Items Installation						
	UVSS Monitor Room						
A10220	Superstructure					 	
A10230	Finishing (False Ceiling) (KD9)					1	
A10240	BS for Office Accomodation (Stage 8)						
A10270	Other BS + E&M Installation						
C10240	FSI Form 314 & 501 Submission						
Metal Cano	opy and Roof Installation						
B10210	Shop Drawing Submission and Approval						
B10212	Fabrication of MC/R					1	
B10220	Casted-in Items Installation						
103 Police	Inspection Post						
A10330	Raft Foundation						
A10340	Superstructure (Roof Slabs)						
A10350	Finishing (False Ceiling) (KD9)						
A10360	BS for Office Accomodation (Stage 8)						
A10380	Other BS + E&M Installation						
C10320	WWO 46 Part I, II, III Submission (inside Service + FS)						♦ V
HPL Comp	osite Panel Cladding System						
B10310	Shop Drawing Submission and Approval						
Actual W	lork				Date		Revisio
					30-Nov-16	3MRP updated as of	
Remaini			ARY BUILDINGS AND	FACILITIES	31-Dec-16	3MRP updated as of	
Critical		Page 7 of 20			01-Feb-17	3MRP updated as of	



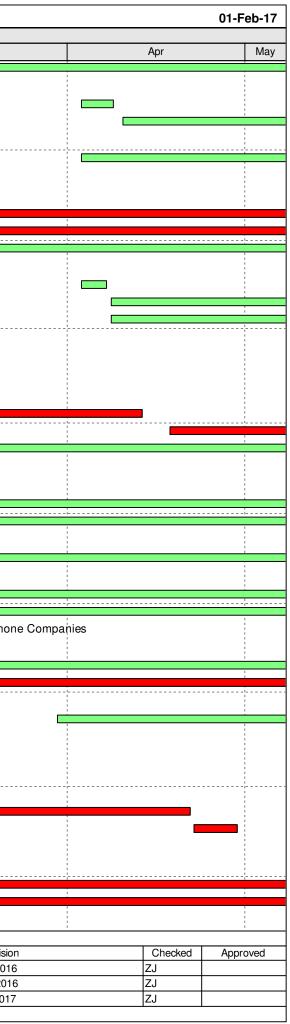
y ID	ndary Crossing Facilities - Vehicle Clearance Plazas and A				2017
, 12		Jan	F	eb	Mar
B10320	Fabrication of HPL Cladding				
057 Transfo	ormers (Zone 2)				
A05730	Superstrurcture				
A05740	Finishing				
A05750	BS + E&M for Tx Room to CLP (Stage 4)				
A05755	Energisation by CLP			1	
A05760	BS for Office Accomodation (Stage 8)				
A05770	BS + E&M for Office Accomodation (Stage 9)				
A05780	Other BS + E&M Installation				
T&C and St	tatutory Inspection for Zone 2a & 2b				
C05700	T&C for BS & Pumps				
F05700	Essential T&C (FSI)				
	Non-Essential T&C (Non-FSI)				
	n of Fire Services Installation and Equipment (FCD)			· · · · · · · · · · · · · · · · · · ·	
	Provision of Approved Building Plans by the Engineer		Provision of A	Approved Building	Plans by the Engl
	e & EPD Generator Approval			ipprovod Banang	
	Approval Letter and approved Drawings			ter and approved [	Drawings
				ter and approved t	Jawings
	DG License Application				
	Mobile X-ray Operation Office (Cargo), Portion B				
C10720	Raft Foundation				
C10730	Superstructure (Roof Slabs)				
C10740	Finishing				
C10750	BS for Office Accomodation (Stage 8)				
C10770	Other BS + E&M Installation				
	Kiosk for Access Control, Portion B				
B11320	Raft Foundation				
B11330	Superstructure (Roof Beams & Slabs)				
B11340	Finishing		1	     	
B11350	BS for Office Accomodation (Stage 8)				
B11370	Other BS + E&M Installation				
201 - Inbou	Ind Cargo Mobile X-ray Operation Area				
ER5740	Radiation Screen Wall Construction				
ER5850	Construction of the Area and Access to the Interface Contractor				
205 - Inbou	IND Private Car Mobile X-ray Operation Area		1		
ER5750	Radiation Screen Wall Construction			1	
ER5860	Construction of the Area and Access to the Interface Contractor				
External Wo	orks for Portion B				
	ocation 1.7A				
	ELV Works & T&C in Location 1.7A				
	ocation 1.7B				
BB1490	ELV Works & T&C in Location 1.7B				
Drainage W					
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>E</b>			
ED5690	Drainage Works (1130m & 60MHs), Stage 4 (N/E)				
ED5700	Sewerage (300m &82MHs), Stage 4 (N/E)				
Waterpipe	Laying				
				Date	
A · · · · ·					
Actual W				30-Nov-16 3MRP	updated as of 30 No
Actual W Remainir		VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND Page 8 of 20			updated as of 30 No updated as of 31 De



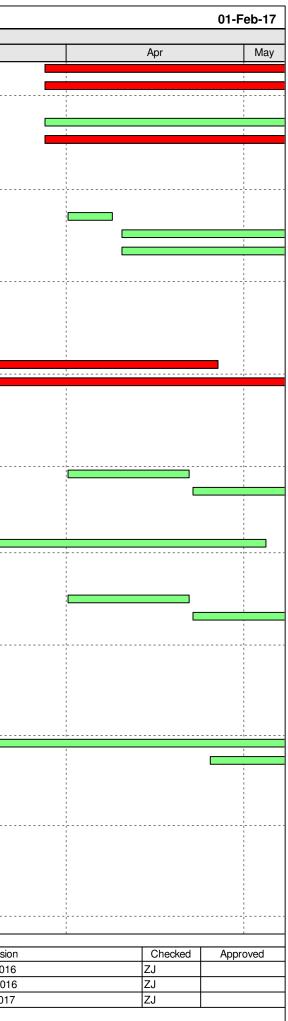
ctivity ID	Indary Crossing Facilities - Vehicle Clearance Plazas and Activity Name					2017
	Activity Name		Jan		Feb	Mar
EW1550	Fresh Water Main Laying (472m), Stage 1 (S/W)		J		100	i i i i i i i i i i i i i i i i i i i
EW1560	Flushing Water Main Laying (460m), Stage 1 (S/W)					
EW6080	Fresh Water Main Laying (500m), Stage 2 (S/E)					
EW6090	Flushing Water Main Laying (460m), Stage 2 (S/E)					
EW6100	Fresh Water Main Laying (500m), Stage 3 (N/W)					
EW6110	Flushing Water Main Laying (460m), Stage 3 (N/W)					I
Duct Layin	ng for Utilities/Telecom Cabling, TCSS & Lighting					
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5310	Duct & Cable Laying for TCSS & Lighting					
EU5630	Access date to Telephone Companies					Access date to Telepho
Roadwork						
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)					
	ry ADS 306A & ADS 306B					
ES5240	Fabrication & Delivery of Sign Gantrys to Site					
PORTION						
Portion C E						
	und Coach Kiosk & Staff Subway Entrance					
A01010	Substructure and Staircase Construction					
009 - Staff	Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks					
A00940	Finishing					
A00950	BS + E&M for AVCSS works (KD 1)					
A00960	Allow Access to C1 for Chilled Water Pipe Installation (CUE)		· · · · · · · · · · · · · · · · · · ·	◆ Allow Acc	ess to C1 for Ch	nilled Water Pipe Installation
B00920	Kiosk superstructure					1
012 - DOH	Disinsection Area and Store Room 1, at Portion C					
B01210	Excavation & Blinding					
B01220	Raft Foundation					
	Secondary Screening Station, at Portion C					
	adding System					
A10460	Shop Drawing Submission and Approval					
A10400	Fabrication of F/C System					
	Mobile X-ray Machine Operation Office, Portion C					
A10805	Excavation & Blinding					
A10810	Raft Foundation					
	posite Panel Cladding System					
A10800	Shop Drawing Submission and Approval					
	Guard Booth (Type 2) East					
A11020	Excavation & Blinding					
A11030	Substructure					
Facade En	velop Structure Installation					
A11040	Shop Drawing Submission and Approval					
A11045	Fabrication of F/C System					
111 Field k	Kiosk for Carpark Operator					
A11120	Excavation & Blinding					
A11130	Raft Foundation					
HPL Comp	posite Panel Cladding System					
B11110	Shop Drawing Submission and Approval					
Actual V	Vork		DLLING PROGRAMME		Date	Revisio
	ing Work	VEHICLE CLEARANCE PLAZAS AND				MRP updated as of 30 Nov. 201
Critical						MRP updated as of 31 Dec. 201
		Page	e 9 of 20		01-Feb-17 3	MRP updated as of 31 Jan. 201
Mileston						



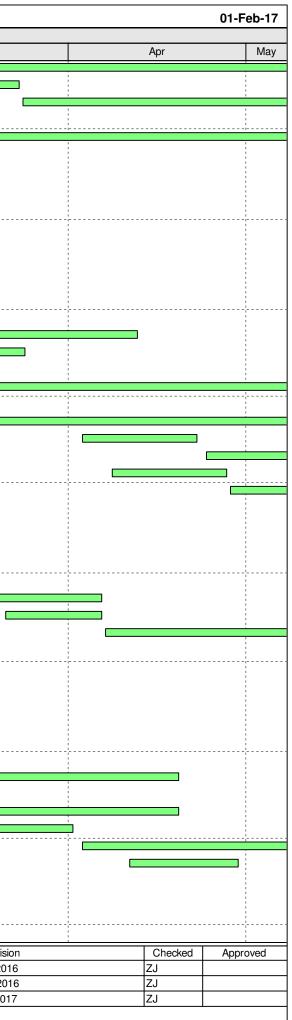
ity ID	ndary Crossing Facilities - Vehicle Clearance Plazas and Activity Name					2017	
			Jan		Feb		Mar
B11120	Fabrication of HPL Cladding						
113 - Field	Kiosk for Access Control, Portion C						
C11310	Excavation & Blinding						
C11320	Raft Foundation						
	und Coach Exam Area & Mobile X-ray Operation						
	Radiation Screen Wall Construction						
	orks for Portion C						
_Works in L	ocation 1.2, 1.8 & 011 - Emergency Generator Building						
BB1440	Works & T&C in Location 1.2						
BB1450	Works & T&C in Location 1.8						
BB1460	ELV System Installations and T&C for Contract HY/2013/01						
Drainage V	Vorks						
B00040	Initial Survey		1 1 1				
SG2400	Drainage Works (400m & 18MHs), Stage 1 (Eastern)						
SG3610	Sewerage (90m & 2MHs), Stage 1 (Eastern)						
PORTION	D						
Portion D B	Building						
_	Kiosk for Access Control, Portion D						
C11360	Raft Foundation		1				
C11370	Superstructure (Roof Beams & Slabs)						
C11380	Finishing						
D11340	BS for Office Accomodation (Stage 8)					1	
	orks for Portion D						
Drainage V							
	Drainage Works (361m & 14MHs)						
	Sewerage (121m & 6MHs)						
Waterpipe							
	Fresh Water Main Laying (108m) g for Utilities/Telecom Cabling, TCSS & Lighting						
	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
SU5350	Duct & Cable Laying for TCSS & Lighting						a data ta Talar
SU5640	Access date to Telephone Companies						s date to Telep
	Car Park Management System at Location 1.5, 1.6A & 1.6B						
SR5540	Works & T&C for Car Park Management System at Location 1.5	-					
SR5550	Works & T&C for Car Park Management System at Location 1.6	A				·	
Roadworks							
SR3740	Subbase (261 ton)						
PORTION							
006 - Shuttle	e Bus Kiosk & Staff Subway Entrance, at Portion E & M						
A00610	ELS + Blinding for Subway		·	<u>[]</u>			
A00620	Constructing base of Subway					1	
A00630	Constructing wall stem + top slab of Subway						
A00640	Backfilling						
External Wo	orks for Portion E						
Drainage V	Vorks						
SG3780	Drainage Works (99m & 5MHs)						
SG3900	Sewerage (38m & 1 MH)						
Waterpipe							
Actual W	/ork	THREE MONTH RC	LLING PROGRAMME		Date 30-Nov-16	2MDD	ed as of 30 Nov. 2
	ng Work	VEHICLE CLEARANCE PLAZAS AND	ANCILLARY BUILDINGS AND I	FACILITIES			ed as of 31 Dec.



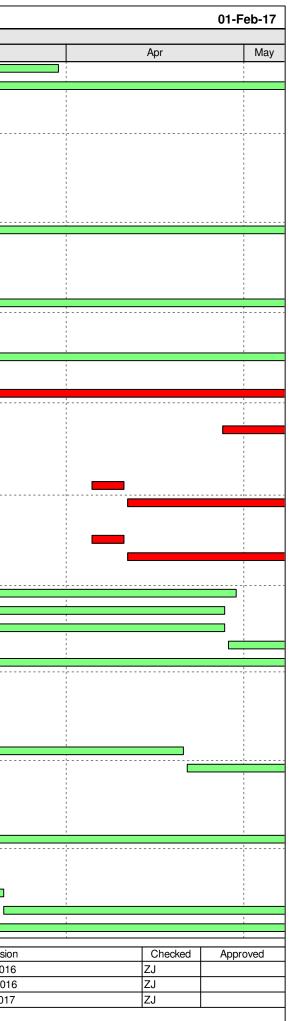
vity ID	ndary Crossing Facilities - Vehicle Clearance Plazas and Activity Name				2017
,		Jan		Feb	Mar
SW3790	Fresh Water Main Laying (45m)		T		
SW3800	Flushing Water Main Laying (25m)				
Duct Layin	g for Utilities/Telecom Cabling, TCSS & Lighting				
SU5360	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV				
SU5370	Duct & Cable Laying for TCSS & Lighting				
PORTION	F				
External Wo	orks for Portion F				
Drainage V	Vorks				
	Initial Survey				
	Drainage Works (122m & 9MHs)				
	Sewerage (70m & 3MHs)				
PORTION	G, H1 & H2				
Portion G S					
Box Culver					
	rt Structure				
	Box C - Branch Construction				
SC0320 SC0380	Box C - Branch Backfilling Box C - Construction of Main Body		-		1 1 7
	Box C - Construction of Main Body				
Bridge A1					
Pier & Abut					
SA1310	Abutment A106				
Structure I					
SA1450	Falsework for Deck P101, P102				
SA1460	Deck on P101, P102 + Stressing				
SA1480	Deck on P104, P105 + Stressing				
	Falsework for Deck P105, A106				
	Deck on P105,A106 + Stressing				
Bridge A2					
Structure I					
	Falsework for Deck P201 - P202				
	Deck on P201 & P202 + Stressing				
Bridge A3					
Pier & Abut					
SA3330	Abutment A305				
Structure I	Deck				
SA3440	Deck on P302 - P303 + Stressing	· · · · · · · · · · · · · · · · · · ·			
SA3450	Falsework for Deck P303 - P304a/P304b				
	Deck on P303, P304a/P304b + Stressing				
	Falsework for Deck P304a - A305				
Bridge A4					
Pile Cap					
SA4210	Cap - P401				
SA4220	Cap - P402				
Pier & Abut	tment				
SA4310	Pier P401				
SA4320	Pier P402				
Structure D	Deck				
SA4410	Falsework for Deck P502b, P401				
-				Data	·
Actual W		THREE MONTH ROLLING PROGRAMME		Date 30-Nov-16 3	Revi MRP updated as of 30 Nov. 2
Remaini	ng Work	VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND	FACILITIES		MRP updated as of 30 Nov. 20
Critical		Page 11 of 20			MRP updated as of 31 Jan. 20
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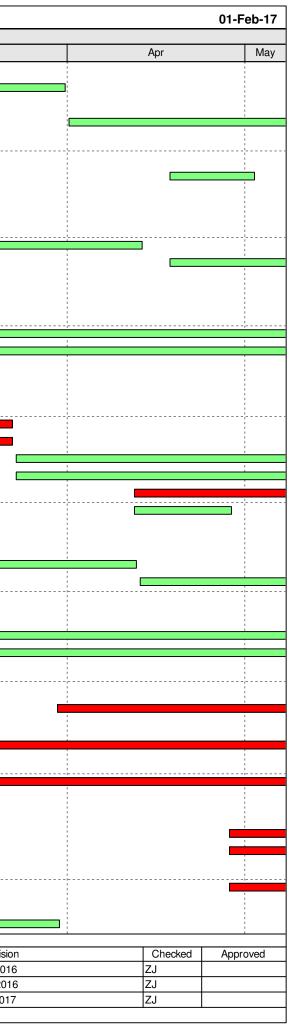
HZMB HK Bou	Indary Crossing Facilities - Vehicle Clearance Plazas and	Ancillary Buildings and Facilities					
ctivity ID	Activity Name			1		2017	
CA4400	Deale an DE00h D401 Otracaine		Jan		Feb	N	Mar
SA4420 SA4430	Deck on P502b, P401 + Stressing Falsework for Deck P401, P402						
SA4430 SA4440	Deck on P401, P402 + Stressing						
SA4440 SA4450	Falsework for Deck P304b, P402						
SA4450 SA4460	Deck on P304b, P401, P402 + Stressing		i 				
Bridge A5							
Pile Cap	0						
SA5250	Cap - A501						
SA5260 Pier & Abu	Cap - P502a/b		1 r			 	
SA5360	Pier P502a/b						
SA5370	Abutment A501						
Structure							
SA5420	Deck on P504, P505 + Stressing			· · · · · · · · · · · · · · · · · · ·			
SA5430	Falsework for Deck P503 - P504						
SA5440	Deck on P503, P504, + Stressing					1	
SA5460	Deck on P505, P506 + Stressing						
SA5470	Falsework for Deck P502a, P502b, P503						
SA5480	Deck on P502a, P502b & P503 + Stressing			<mark></mark>			
SA5510	Falsework for Deck P506 - P507						
SA5520	Deck on P506 & P507 + Stressing					   	
SA5530	Falsework for Deck A501 - P502a						
SA5540	Deck on A501 & P502a + Stressing						
SA5550	Falsework for Deck P507 - P508a, P508b						
SA5560	Deck on P507 & P508a, P508b + Stressing						
Bridge A6							
SA6450							
SA6450 SA6460	Falsework for Deck P603 - P604 Deck on P603, P604 + Stressing						-
SA6470 SA6480	Falsework for Deck P604, P605 Deck on P604, P605 + Stressing						
SA6480 SA6490	-						
	Falsework for Deck P605, P606 Deck on P605, P606 + Stressing						
	a, A7b, A7c		י י ר				
Pier & Abu			<u>!                                     </u>				
	Abutment A701						
Structure							
SA7730	Falsework for Deck P705 - P706						
SA7740	Deck on P705 & P706 (Bridge A7a) + Stressing		<u>.</u>	<mark>-</mark> +			
SA7750	Falsework for Deck P704, P705						
SA7770	Deck on P704 & P705 (Bridge A7a) + Stressing						
SA7780	Falsework for Deck P703, P704						
SA7790	Deck on P703, P704 (Bridge A7a) + Stressing						
SA7810	Falsework for Deck P702, P703		ļ				
SA7820	Deck on P702, P703 (Bridge A7 a) + Stressing						
SA7830	Falsework for Deck A701, P702						
SA7880	Deck on P708 & P709 (Bridge A7c) + Stressing						
SA7910	Deck on P709, P710 (Bridge A7c) + Stressing						
SA7920	Falsework for Deck P710 - A711 (A7c)						
SA7930	Deck on P710 & A711 (Bridge A7c) + Stressing	1	1			i	
Actual V	Vork	THREE MONTH RO	OLLING PROGRAMME		Date	2MPD updated at at 00	Revi
Remain	ing Work	VEHICLE CLEARANCE PLAZAS AND	ANCILLARY BUILDINGS AN	D FACILITIES		3MRP updated as of 30 3MRP updated as of 31	
Critical		Page	12 of 20		-	3MRP updated as of 31	
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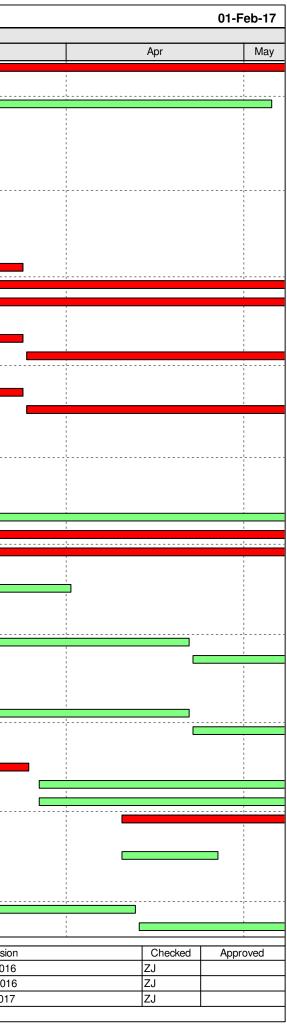
y ID	Activity Name	, , , , , , , , , , , , , , , , , , , ,				2017	
			Jan		Feb		Mar
SA7940	Parapet for Bridge A7b (8 pour) & E&M Works						
SA7950	Parapet for Bridge A7c (38 pour) & E&M Works						
Bridge A8							
Pier & Abu	tment						
SA8310	Abutment A804						
Structure I	Deck						
SA8420	Deck on P801, P802 + Stressing						
SA8440	Deck on P802, P803 + Stressing			]			
	Falsework for Deck P803, P804						
	Deck on P803, A804 + Stressing					1	
<u> </u>	Walls W1-1, W3-1, W5-1 & W7-1						
Retaining							
	Construction of Retaining Wall W1-1 (L-shape, 4 bays)						
	Retaining Wall W1-1 Backfilling						
Retaining							
	Pile Testing for W3-1						
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)					1	
Retaining V	Wall W5-1						
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)						
Retaining	Wall W7-1						
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)						
Portion G E	Buildings						
002 - C&EL	D Observation Guard Booth No. 1, Portion H1						
C00220	Excavation + Blinding						
C00230	Raft Foundation						
002 - C&EI	D Observation Guard Booth No. 2, Portion H1						
E00210	Excavation + Blinding						
E00220	Raft Foundation						
	nd Private Car Exam Building						
A03330	Finishing						
A03360	External Works						
A03370	BS for Office Accomodation (Stage 8)						
A03380	BS + E&M for Office Accomodation (Stage 9)						
A03390	Other BS + E&M Installation						
C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)		·				
Glass Can	opy Installation						
B03300	Shop Drawing Submission and Approval						
B03305	Fabrication of Glass Canopy						
B03350	Casted-in Items Installation						
B03360	Steel Frame Installation	L L					
Aluminium	Metal Canopy						
B03315	Fabrication of F/C System						
B03320	Casted-in Items Installation						
B03330	Steel Frame Installation						
	ite RCP South						
A03450	Finishing						
A03460	BS for Office Accomodation (Stage 8)					_	
A03470	BS + E&M for Office Accomodation (Stage 9)						
A03480	Other BS + E&M Installation						
		L.	'		1	1	
Actual W	Vork	THREE MONTH ROI	LING PROGRAMME		Date		Ri af 00 Navi
Remaini	ing Work	VEHICLE CLEARANCE PLAZAS AND A	NCILLARY BUILDINGS AND FA	CILITIES	30-Nov-16 31-Dec-16	3MRP updated as 3MRP updated as	
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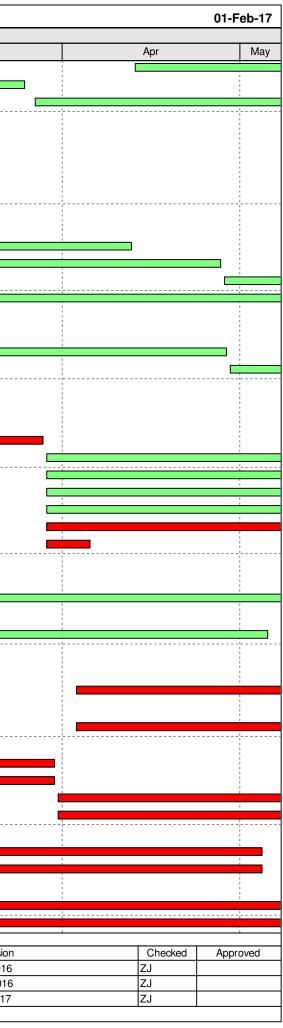
ty ID	Activity Name					2017	
			Jan		Feb		Mar
S S Facade	e Greenery System						
B03415	Fabrication of SS F/G System						
B03420	Casted-in Items Installation						
B03430	Steel Frame Installation						
035 - Sewa	age Pumping Station, Portion G						
A03580	Constructing of Wall Stem of Wet Well						
A03590	Water-tightness Test for Wet Wells						
B03510	Backfilling + Removal of ELS						
B03520	ELS + Blinding for Basement						
B03530	Constructing Base Slab of Basement						
B03540	Constructing Basement Wall & G/F Slab						
B03560	Superstructure works						
051 Transf	formers (Zone 5)						
A05150	Finishing						
A05165	Energisation by CLP						
A05170	BS for Office Accommodations (KD9)						
A05190	Other BS + E & M Installation						
Completion	n of Fire Services Installation and Equipment (FCD)						
 F05140	Approved Building Plans			Approved I	Building Plans	6	
	nd Traffic Control Kiosk						
A10050	Finishing		L	· <mark>-</mark> - <del>-</del>			
A10070	BS + E&M for AVCSS Works (KD18A)						
B10060	BS + E&M for AVCSS Cabling (KD18B)						
B10000	BS for Office Accommodations (KD9)						
B10090	Other BS + E & M Installation						
C10010	Submission & Issue of WW046 I, II, III (Inside Services & FS)		·	· <mark>-                               </mark>			
	posite Panel Cladding System						
	Shop Drawing Submission and Approval						
B10010	Fabrication of F/C System						
B10013	Casted-in Items Installation						
	Kiosk for Taxi Queuing Area		· 				
A11240	Finishing BS + E & M Installation		1				
A11250	T&C for BS & Pumps SWT						
	·						
_	orks for Portion G, H1 & H2						
	s within Portion H2 in the Hong Kong Side PTI						
	ELV Works within Portion H2 in the Hong Kong Side PTI (KD19)						
	hin Portion H1 & H2 except the ELV Works in the Hong Ko						
	Drainage & Sewerage Works within Portion H1 & H2 in the Hong						
	within the Boundary defined in Drawing No. 60191048/C3/0			1			
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary def	ined in Drawing No. 60191048/C3/000/1050				1	
Waterpipe	Laying						
EW4080	Fresh Water Main Laying (1689m)			<b>-</b>			
EW4090	Flushing Water Main Laying (411m)						
Duct Layin	ng for Utilities/Telecom Cabling, TCSS & Lighting						
EU5400	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV			······································			
	ry DS40, DS41 & DS75						
 ES0080	Testing for Pre-bored H Piling						
			1				
Actual W	Vork		LLING PROGRAMME		Date		F
	ing Work	VEHICLE CLEARANCE PLAZAS AND		FACILITIES		3MRP updated as	
Critical	с -		14 of 20			3MRP updated as 3MRP updated as	
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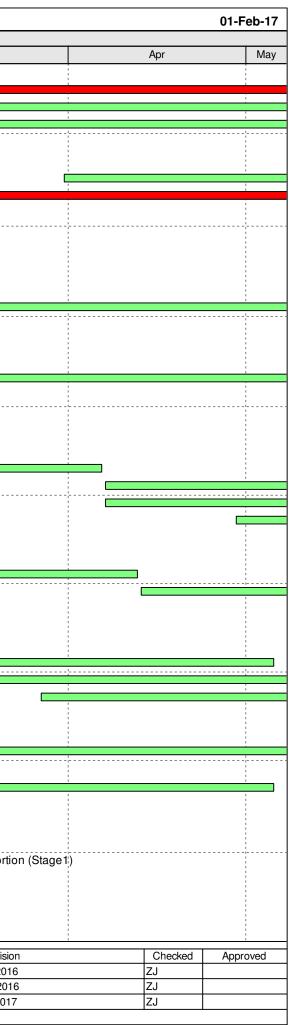
rity ID	Activity Name					2017	
			Jan		Feb		Mar
ES0180	Fabrication & Delivery of Sign Gantrys to Site						
Canopy an	nd Covered Walkway						
CC1310	Shop drawing, Approved & Fabrication						
CC1320	Footing						
PORTION	J						
Portion J S	tructure						
Bay 30 - 41	1 of CUE/Staff Subway (Portion J)						
B03050	Bay 30 - 33 Construction - Wall + Top Slab						
B03220	Bay 34 - 39 Construction - Base Slab						
B03230	Bay 34 - 39 Construction - Wall + Top Slab, Staircase					1	
B03240	Bay 40 - 41 Construction - Base Slab						
B03250	Bay 40 - 41 Construction - Wall + Top Slab, Staircase						
B03260	Internal Finishes & Cable Containment (KD2)						
B03270	BS + E&M Installation for ACVSS (Stage 2) (KD2)						
030 Outbo	und Private Car & GV Kiosks						
A03020	Pre-fabrication for the Steel Kiosks						
A03030	Superstructure (Incl. Entrance & Toilet)						
030 Outbo	und Kiosks, Section IX, Subject to Excision			1		1	
C03020	Pre-fabrication for the Steel Kiosks						
C03030	Superstructure						
Portion J B	Buildings						
024 Outbo	und Private Car Exam Building						
A02400	Excavation + Blinding (PL Test)						
A02410	Raft Foundation						
A02420	Superstructure						
A02430	Finishing (KD9)						
A02440	BS for Office Accommodations (KD18F)						
A02460	Other BS + E & M Installation (KD31)			· +			
Test & Cor	nmission						
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
Glass Can	opy Installation						
B02410	Shop Drawing Submission and Approval						
B02415	Fabrication of F/C System						
B02420	Casted-in Items Installation						
Aluminium	Metal Canopy						
B02450	Shop Drawing Submission and Approval						
B02455	Fabrication of F/C System					1	
B02460	Casted-in Items Installation			• <del>†</del>			
031 Outbo	und IMMD and DOH Secondary Screen Building						
A03140	Superstructure					1	
A03150	Finishing (KD31)						
A03160	BS for Office Accommodations (KD18F)						
A03180	Other BS + E & M Installation (KD31)			• •			
Test & Cor	nmission						
C03120	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
060 - Sing	le Storey Support Building Associated with Buildings 044	& 045					
A06010	Raft Foundation (Transformer Room)						
	Superstructure (Transformer Room) Construction						
A06020	Finishing						
A06020 A06025							
A06025					Date		Rovia
A06025 Actual V					Date 30-Nov-16	3MRP updated	
A06025 Actual V	Vork ing Work	VEHICLE CLEARANCE PLAZAS AND A		ACILITIES	Date 30-Nov-16 31-Dec-16		Revis as of 30 Nov. 20 as of 31 Dec. 20



	ary Crossing Facilities - Vehicle Clearance Plazas and activity Name					2017
			Jan		Feb	Mar
A06030 E	3S + E&M for Transform Room to CLP (KD8)					
A06045 F	Raft Foundation (other than transformer room)					
A06050 S	Superstructure (other than transformer room) Construction					· · ·
Waterworks	Ordinance (WSD)					
G06020 S	Submission of WWO46 - Part I & II (Inside Services)					
DG License 8	EPD Generator Approval					
G06000 E	OG Application					
061 Telecom	Building					
A06130 F	Raft Foundation					
	Superstructure					
	inishing (KD9)					•
	3S for Office Accommodations (KD9)					
	3S + E&M for Office Accommodation (KD10)					
	Other BS + E & M Installation					
Aluminium M	etal Canopy					
	Shop Drawing Submission and Approval				1	
	Eabrication of Aluminium Cladding					
	Casted-in Items Installation					
	d Traffic Control Kiosk					
	xcavation + Blinding					
	Raft Foundation					
	Superstructure (Roof Beams & Slabs)					
	inishing					
	3S + E&M for AVCSS Works (KD18A)					
	3S + E&M for AVCSS Cabling (KD18B)					
	3S for Office Accommodations (KD9)					
	Other BS + E & M Installation					
	Submission of WWO46 - Part I & II (Inside Services)					
	ite Panel Cladding System					
	Shop Drawing Submission and Approval					
	Fabrication of HPL Cladding					
	nd Private Car Mobile X-ray Operation Area					
	Radiation Screen Wall Construction					
	s for Portion J					
Works in Loc						
	ELV Works & T&C in Location 1.7B					
Works in Loc						
	ELV Works & T&C in Location 1.7C					   
Drainage Wo						
	Drainage Works (1700m & 86MHs), Stage 1					
	Sewerage (425m & 11MHs), Stage 1					
	Drainage Works (1697m & 85MHs), Stage 2					
	Sewerage (425m & 12MHs), Stage 2					, , ,
Waterpipe La	aying					
EW4230 F	resh Water Main Laying (770m), Stage 1 (Northern)					1
EW4240 F	lushing Water Main Laying (431m), Stage 1 (Northern)					
Duct Laying	for Utilities/Telecom Cabling, TCSS & Lighting					
EU5420 [	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5430 E	Duct & Cable Laying for TCSS & Lighting					· · · · · · · · · · · · · · · · · · ·
Actual Wor	k	THREE MONTH RO	LLING PROGRAMME		Date	Revis
Remaining	Work	VEHICLE CLEARANCE PLAZAS AND A	NCILLARY BUILDINGS AND	FACILITIES		P updated as of 30 Nov. 20 P updated as of 31 Dec. 20
Critical		Page	16 of 20			P updated as of 31 Dec. 20 P updated as of 31 Jan. 20
Milestone						· upualeu as 01 31 Jan. 20



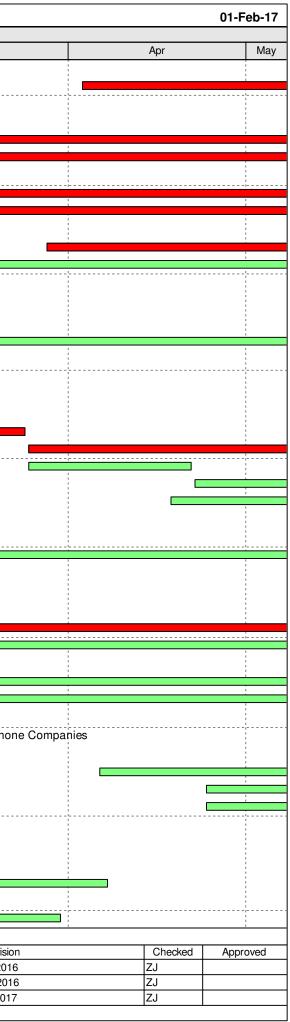
	indary Crossing Facilities - Vehicle Clearance Plazas and	Ancillary Buildings and Facilities			
tivity ID	Activity Name				2017
Roadwork			Jan	Feb	Mar
ER4320	Subbase (15400 ton), Stage 1 (Northern)				
ER4320 ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)				
ER4350	Rigid Pavement (173 m3), Footpath & EVA, Stage 1 (Northern)				
				· 	
Sign Gant					
ES0140	Sign Gantry DS104 P-bored Piling, 8 Nr.				
ES5130	Testing for P-bored Piles				
ES5150	Fabrication & Delivery of Sign Gantrys to Site				
	K, L, M, S & T				
Portion K E					
	D Observation Guard Booth No. 1, Portion K				
A00210	Excavation + Blinding				
A00220	Raft Foundation				1
A00230	Superstructure				
002 - C&EI	D Observation Guard Booth No. 2, Portion K				
B00210	Excavation + Blinding				
B00220	Raft Foundation				1
B00230	Superstructure				
Portion M I	Buildings				
108 - C&E	D Mobile X-ray Operation Office, Portion M				
B10800	Excavation + Blinding				
B10810	Substructure (raft Foundation)				
B10840	Superstructure (Roof beams & Slabs)				
B10850	Finishing				
B10860	BS for Office Accommodations (KD9)			T	
B10880	Other BS + E & M Installation				
HPL Comp	posite Panel Cladding System				
C10810	Shop Drawing Submission and Approval				
C10820	Fabrication of HPL Cladding				
C10830	Casted-in Items Installation				
104 DOH S	Screening Station, at Portion M				
C10400	Excavation + Blinding				
C10430	Structure (Raft Foundation)				
C10400	Finishing				
C10450	BS for Office Accommodations (KD9)				
C10470	Other BS + E & M Installation				
	welop Structure Installation				
D10450	Shop Drawing Submission and Approval				
D10455	Fabrication of F/C System				
	ound Coach/Shuttle Bus Exam Area & Mobile X-ray Opera	ation Area			
ER5770	Radiation Screen Wall Construction				
External W					
	Works (Filling & RE Slope), SA1				
ED3120	Approval of RE Slope by GEO/AECOM				
ED3210	C1 Contractor to Completed cooling mains at east Portion (Stag	-	•	C1 Contractor to Complete	ed cooling mains at east Po
ED3220	Removal of Access & Form another Temp. Access for Cooling M				
ED3270	Remove surcharge at the edge of Platform (North, Portion S, KD	32)			
ED3280	Remove surcharge at the Platform (East, Portion T, KD33)				
Construct	ion of Slopes				
Actual V	Nork		DLLING PROGRAMME	Date	Rev
	ing Work			ACILITIES 30-Nov-16	3MRP updated as of 30 Nov. 2
				ACILITIES 31-Dec-16	3MRP updated as of 31 Dec. 2
Critical		Page	17 of 20	01-Feb-17	3MRP updated as of 31 Jan. 2
<ul> <li>Milestor</li> </ul>	IE				



	ary Crossing Facilities - Vehicle Clearance Plazas and A ctivity Name					2017	
			Jan	Fe	b		Mar
ED3510 Fo	ooting for the Planter Wall, RE slope (North & West)						,
	Construct RE slope (West)						
	Construction of fill slope (North)						
Drainage Wor							
	orainage Works (1477m & 81MHs), Stage 1 (Eastern)						
	ewerage (78m & 2MHs), Stage 1 (Eastern)						
Waterpipe La							
	resh Water Main Laying (608m), Stage 1 (Eastern)						
	lushing Water Main Laying (13m), Stage 1 (Eastern)						
	for Utilities/Telecom Cabling, TCSS & Lighting						
	ouct & Cable Laying for TCSS & Lighting					1	
Canopy and C	Covered Walkway						
CC1400 SI	hop drawing, Approved & Fabrication						
PORTION N							
Portion N Stru	Icture						
Box Culvert B							
Bored Pile							
	nstall H-piles						
						;	
	lox B - Foundation: Revised as pre-bored H-Piles						
Box Culvert S							
	Sox B - Construction (Stage 1)						
	landover from RC (1/11/16)			Handover from	RC (1/11/16)		
	lox B - Temporary Works for Construction of Outfall Structure					:	
Portion N Buil	<del>_</del>						
	eening Station, at Portion N						
	op Structure Installation						
	hop Drawing Submission and Approval						
	abrication of F/C System						
	tention Area Guard Booth						
A10600 Ex	xcavation + Blinding						
	tructure (Raft Foundation)					-	
	inishing						
	S for Office Accommodations (KD9)						
	Other BS + E & M Installation						
	op Structure Installation						
B10610 SI	hop Drawing Submission and Approval						
B10615 Fa	abrication of F/C System						
107 C&ED Mo	bbile X-ray Operation Office, Portion N						
A10700 Ex	xcavation + Blinding						
A10710 St	ubstructure (Raft Foundation)						
A10740 St	uperstructure			1			
HPL Composi	ite Panel Cladding System						
B10710 SI	hop Drawing Submission and Approval						
	d/Outbound Vehicle Dectection Area						
	Construction of the Area and Access to the Interface Contractor						
	nd Cargo Mobile X-ray Opeartion Area						
	adiation Screen Wall Construction						
	s for Portion N					1	
				1		1	
Actual Work	ĸ	THREE MONTH ROLLIN			Date		F
Remaining V	Work	VEHICLE CLEARANCE PLAZAS AND ANCI				RP updated as o	
Critical		Page 18 of		3		RP updated as o	
				0.	1-Feb-17 3MF	RP updated as o	r 31 Jan

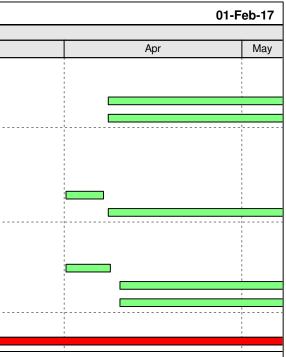
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ity ID	Activity Name				2017
Mortes in	Landian d 7A		Jan	Feb	Mar
EU1540	Location 1.7A ELV Works & T&C in Location 1.7A				
Drainage				i 	
AS0150	Initial Survey				
ED4620	Drainage Works (964m & 56MHs), Stage 1 (Southern)				
ED4620	Sewerage (383m & 12MHs), Stage 1 (Southern)				1
Waterpipe					
EW4530	Fresh Water Main Laying (641m)			; ; ;	
EW4530 EW4540	Flushing Water Main Laying (413m)				
	ng for Utilities/Telecom Cabling, TCSS & Lighting				
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV				
EU5470	Duct & Cable Laying for TCSS & Lighting				
PORTION				     	
Portion Str					
Retaining					
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)				
Portion P				     	
	Guard Booth, Portion P				
A10510	Excavation + Blinding				
A10520	Substructure (Raft Foundation)				
A10530	On Grade Ground Slab				
A10540	Finishing	į			
E10500	BS for Office Accommodations (KD9)				
E10510	BS + E&M for Office Accommodation (KD10)				
E10520	Other BS + E & M Installation				
	nvelop Structure Installation				
A10560	Shop Drawing Submission and Approval			, <b>I</b>	
A10565	Fabrication of F/C System				
	orks for Portion P				
Drainage					
AS0160	Initial Survey				
ED4670	Drainage Works (2957m & 128MHs)			· · · · · · · · · · · · · · · · · · ·	
ED4790	Sewerage (269m & 7MHs)				
Waterpipe					
EW4680	Fresh Water Main Laying (1270m)				
EW4690	Flushing Water Main Laying (455m)				
	ng for Utilities/Telecom Cabling, TCSS & Lighting				
EU5640	Access date to Telephone Companies				Access date to Teleph
Roadwork					
ER4770	Subbase (16519 ton)				
ER4800	Bitumen Pavement (23958 ton)				
ER4810	Rigid Pavement (220 m3), Footpath & EVA				
PORTION					
	orks for Portion Q				
	ng for Utilities/Telecom Cabling, TCSS & Lighting				
ED5570	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV				1
ED5580	Duct & Cable Laying for TCSS & Lighting				
EU1490	ELV System Installation for Contract HY/2013/04				1
		1			
Actual V	Nork	THREE MONTH ROLLING	G PROGRAMME	Date	Revis
Remain	ning Work	VEHICLE CLEARANCE PLAZAS AND ANCIL	LARY BUILDINGS AND F	ACILITIES 30-Nov-16 31-Dec-16	3MRP updated as of 30 Nov. 20 3MRP updated as of 31 Dec. 20
		Page 19 of 2		J31-Dec-16	Joiving updated as of 31 Dec. 2



ctivity ID	Activity Name				2017
		-	Jan	Feb	Mar
Roadwork	'S				
AS0170	Initial Survey				
AS1810	C3-S1 Slope Construction				
AS1820	C3-S2 Slope Construction				
PORTION	R				
Portion R I	Building				
002 - C&E	D Observation Guard Booth, Portion R				
D00210	Excavation + Blinding				
D00220	Raft Foundation				
External W	orks for Portion R				1
Drainage	Works				
AS0180	Initial Survey				
ED4960	Drainage Works (1040m & 70MHs)				
ED5080	Sewerage (272m & 7MHs)				i   
Landscape	e Works				
A5170	Design and Procurement for Irrigation System				· •

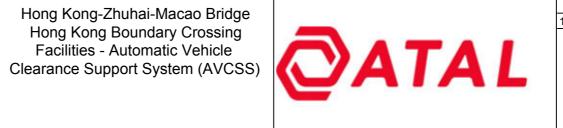
Actual Work	THREE MONTH ROLLING PROGRAMME	Date	Revisio
Remaining Work	VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	30-Nov-16	3MRP updated as of 30 Nov. 201
		31-Dec-16	3MRP updated as of 31 Dec. 201
Critical	Page 20 of 20	01-Feb-17	3MRP updated as of 31 Jan. 201
<ul> <li>♦ Milestone</li> </ul>			·



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15	/2013/06		Detail Wo	<u> </u>							_						Page 1 o
y ID	Activity Name	Original Start Duration	Finish	Total Float	2 Q2	015 Q3	Q4	Q1	2016 Q2	G3 Q4	Q1	2 Q2	017 Q3	Q4	2018 Q1 Q2 Q3	Q4	2019 Q1 (
Hong Kon	g-Zhuhai_Macao Bridge Hong Kong Boundary Crossir	1266 31-Jul-15 A	30-Jan-19	0		V								Q.T		QT	<b>3</b> 0-Jan
🖥 Key Date		901 31-Jul-15 A	30-Jan-18	0		<b>+</b>	_								🔻 30-Jan-18, Key Da	ates	
A1000	Acceptance of Contract	0 31-Jul-15 A					roentanre	of Contr	act, 31-Jul-	15Δ							
A1000	Commencement of Works	0 14-Aug-15*		0		1 1 1 1	1111	1 1 1	Works, 14	1 1 1 1 1							
A1010	Excision of Phase 2 (Section II & III)	365 14-Aug-15	12-Aug-16	0						Excision	of Phase	2 (Section	n    &    )				
A1120	KD1 (Phase 1 / Section I) (28 Kiosks)	0	24-Jul-17*	0		÷÷		• +					+	hase 1	/ Section I) (28 Kiosks		
A1120	KD2 (Phase 2 / Section II) (2 Kiosks)	0	02-Oct-17*	0									1 I I I I	1.1.1.	hase 2 / Section II) (2		
A1470	KD3 (Phase 2 / Section III) (2 Klosks)	0	30-Jan-18*	0									· · · · · ·	1 1 1	♦ KD3 (Phase 2 / Section 11) (2		2 Kineke)
Interface		430 14-Aug-15	16-Oct-16	128						16-	Oct-16.	nterface /	Activities				
		<u> </u>							Interfeed								
A6860	Interface Management Plan Submission between C6 and C1	212 14-Aug-15	12-Mar-16	154		÷			4 5 5 4	lanagement			+ + + +	4 5 5-			
A6865	Interface Management Plan between C6 and C1 reviewed by Engineer	14 13-Mar-16	26-Mar-16	154						Managemen				i i i			
A6870	Detailed Interface Document Submission between C6 and C1	30 27-Mar-16	25-Apr-16	154						ed Interface D				1 1 1			
A6875	Detailed Interface Document between C6 and C1 reviewed by Engineer	14 26-Apr-16	09-May-16	154					1 T 1 1			1 1 1		111	ved by Engineer		
A6880	Interface Management Plan Submission between C6 and C3	262 14-Aug-15	01-May-16	76						ace Managen							
A6885	Interface Management Plan between C6 and C3 reviewed by Engineer	14 02-May-16	15-May-16	76		÷.			4 4 4 4	4 +				4 4 4	/ed by Engineer		
A6890	Detailed Interface Document Submission between C6 and C3	30 16-May-16	14-Jun-16	76					i i i i	etailed Interfa		i i i	i i i i	i i i			
A6895	Detailed Interface Document between C6 and C3 reviewed by Engineer	14 15-Jun-16	28-Jun-16	76											eviewed by Engineer		
A6900	Interface Management Plan Submission between C6 and C8	372 14-Aug-15	19-Aug-16	128							1 1 1			1 I I	en C6 and C8		
A6905	Interface Management Plan between C6 and C8 reviewed by Engineer	14 20-Aug-16	02-Sep-16	128											C8 reviewed by Engir	neer	
A6910	Detailed Interface Document Submission between C6 and C8	30 03-Sep-16	02-Oct-16	128		÷				1				. با بر با بر بر از	etween C6 and C8		
<b>A</b> 6915	Detailed Interface Document between C6 and C8 reviewed by Engineer	14 03-Oct-16	16-Oct-16	128						De De	tailed Inte	1 1 1		1 I I	6 and C8 reviewed by	Engineer	
Site and	Facility Inspection	424 26-Apr-16	23-Jun-17	586									23-Jun-17	, Site a	nd Facility Inspection		
🛑 A4730	Pre Site and Facility Inspection by Contractor at Location 1 - Deg1	7 26-Apr-16*	02-May-16	154					🛛 Pre S	ite and Facilit	y Inspect	ion by Co	ntractor at L	ocation	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 Fac	lity Inspe	ction with	Interface Co	ontracto	or at Location 1 - Deg1		
🔲 A4760	Pre Site and Facility Inspection by Contractor at Location 2 - Deg1	7 25-Jun-16*	01-Jul-16	94					d	Pre Site and	Facility Ir	spection	by Contracto	or at Lo	cation 2 - Deg1		
🔲 A4770	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1	7 02-Jul-16*	08-Jul-16	94					Þ	Joint Site an	d Faċility	Inspectio	n with Interfa	ce Con	tractor at Location 2 -	Deg1	
<b>—</b> A4772	Pre Site and Facility Inspection by Contractor at Location 2 - Deg2	7 14-Aug-16*	20-Aug-16	122						Pre Site	and Fac	ility Inspec	tion by Cont	tractor a	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 Sit	e and Fa	cility Insp	ection with Ir	iterface	Contractor at Locatio	n 2 - Deg2	
a4775	Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server	7 21-Aug-16*	27-Aug-16	122						Joint Sit	e and Fa	cility Insp	ection with Ir	iterface	Contractor at Locatio	n 2 for Ser	ver Install
🔲 A4780	Installation Pre Site and Facility Inspection by Contractor at Location 3 - Deg1	7 03-Sep-16*	00 Sop 16	87							to and Er		action by Co	ntracto	r at Location 3 - Deg1		
	Joint Site and Facility Inspection by Contractor at Location 3 - Deg1	7 03-Sep-16	-					·		++	+	- +	++		+   + +	+	
A4790 A4800	Pre Site and Facility Inspection by Contractor at Location 3 - Deg Pre Site and Facility Inspection by Contractor at Location 3 - Deg2		16-Sep-16	87						JOINT			1 1 1 1		ce Contractor at Locat	-	
	Joint Site and Facility Inspection by Contractor at Location 3 - Deg2	7 31-Jan-17* 7 07-Feb-17	06-Feb-17 13-Feb-17	0								1 1 1	1 1 1 1	1 I I	h by Contractor at Loc		
A4810 A4820	Pre Site and Facility Inspection by Contractor at Location 3 - Deg2	7 03-Sep-16*	09-Sep-16	115										1 1 1	on with Interface Cont r at Location 3a - Deg		
A4820	Joint Site and Facility Inspection by Contractor at Location 3a - Deg1	7 10-Sep-16	16-Sep-16	115	1 1 1 1					1 1 1 1 1				1 1 1	ce Contractor at Locat		<b>a</b> 1
A4830	Pre Site and Facility Inspection by Contractor at Location 3a - Deg P	7 10-3ep-10 7 22-Nov-16*	28-Nov-16	70				+		+-		- +	+ +	i-	ontractor at Location 3	i+	91
A4040	Joint Site and Facility Inspection by Contractor at Location 3a - Deg2	7 22-Nov-16	05-Dec-16	70											Interface Contractor		3a - Ded2
A4851	Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation	7 29-Nov-16*	05-Dec-16	119						þ	1 1 1			1 1 1	Interface Contractor		
<b>—</b> A4860	Pre Site and Facility Inspection by Contractor at Location 4 - Deg1	7 11-Jan-17*	17-Jan-17	20							D Pre	Site and	Facility Insp	ection h	oy Contractor at Locati	on 4 - Dea	1
A4870	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1	7 18-Jan-17	24-Jan-17	20							i i i	i i i		i i i	with Interface Contra		i i i i
A4880	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2	7 10-Jun-17*	16-Jun-17	586		+-+-+						- +	· + + +	fkk-	ity Inspection by Contr		<u>+</u>
A4890	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2	7 17-Jun-17	23-Jun-17	586											cility Inspection with Int		
A4891	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2	7 11-Jan-17*	17-Jan-17	41							Pro	i i i		i i i	by Contractor at Locati		i i i i
						i i <b>l</b> i		<u>; ; ; ;</u>	<u>; ; ; ; ;</u>	<u>; ; ; ; ; ;</u>							
gramme No.: H	ZMB-DWP Actual Level of Effort	Hono	Kong-Zhu	ihai-Ma	icao P	ridae								Date		Checked	Appr
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- Critical Remaining Work
- Milestone ٠
- summary



Contract No.: HY	//2013/06		Detail W	ork Progra	amme																	Page 2	2 of 1
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		Duration		Fillal	Q2	Q3	Q4	Q1	Q2		Q3	Q4	Q		Q2	Q3	Q4			Q3		Q1	Q2
A4892	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg1	7 18-Jan-17	24-Jan-17	41									0	Jpint S	ite an	d Facility	Inspe	ction with	n Interfac	e Contra	ictor at Loc	cation 4a -	Deg
😑 A4900	Pre Site and Facility Inspection by Contractor at Location 4a - Deg2	7 21-Apr-17*	27-Apr-17	0							<u>.</u>				Pre	Site and	Facili	ty Inspec	tion by C	ontracto	r at Locatio	on 4a - Deo	g2
😑 A4910	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg2	7 28-Apr-17	04-May-17	0											Joi	nt Site ai	nd Fac	ility Insp	ection with	n Interfa	ce Contrac	ctor at Loca	ation
😑 A4920	Pre Site and Facility Inspection by Contractor at Location 5 - Deg1	7 15-Jun-16*	21-Jun-16	76						∎ P	re Site	and F	acility	Inspec	tion by	Contra	ctor at	Location	5 - Deg	1			
😑 A4930	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg1	7 22-Jun-16	28-Jun-16	76						D J	Join't S	ite and	Facilit	y Inspe	ection	with Inte	rface (	Contract	or at Loca	ation 5 -	Deg1		
🔲 A4940	Pre Site and Facility Inspection by Contractor at Location 5 - Deg2	7 02-Nov-16*	08-Nov-16	121								1 P	re Site	e and F	acility	Inspecti	on by	Contract	or at Loca	ation 5 -	Deg2		
🔲 A4950	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg2	7 09-Nov-16	15-Nov-16	121								0.	JointS	ite and	Facili	ty Inspe	tion w	ith Interf	ace Cont	ractor a	Location 5	5 - Deg2	
🔲 A4960	Pre Site and Facility Inspection by Contractor at Location 6 - Deg1	7 03-Sep-16*	09-Sep-16	59							1	Pre Sit	eland	Facility	Inspe	ction by	Contr	actor at l	ocation 6	6 - Deg1			
🔲 A4970	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg1	7 10-Sep-16	16-Sep-16	59							0	Joint S	Site an	d Facil	lity Ins	pection v	vith Int	erface C	ontractor	at Loca	tion 6 - De	g1	
🔲 A4980	Pre Site and Facility Inspection by Contractor at Location 6 - Deg2	7 23-Oct-16*	29-Oct-16	131								🛚 🛛 Pr	e Site	and Fa	acility	Inspectio	h by C	ontracto	r at Loca	tion 6 - I	Deg2		
🔲 A4990	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg2	7 30-Oct-16	05-Nov-16	131								D Jo	oint Sit	te and	Facilit	v Inspect	ion wit	h Interfa	ce Contra	actor at	Location 6	- Deg2	
A5000	Pre Site and Facility Inspection by Contractor at Location 7 - Deg1	7 26-Apr-16*	02-May-16	126					0 P	re Si	te and	Facility	y İnspe	ection b	y Çor	tractor a	t Loca	tion 7 - I	Deg1				
A5010	Joint Site and Facility Inspection with Interface Contractor at Location 7 - Deg1	7 03-May-16	09-May-16	126					·		ii	ii <del>i</del> -							Location	7 - Deg	1		i i
A5020	Pre Site and Facility Inspection by Contractor at Location 8 - Deg1	7 03-Oct-16*	09-Oct-16	128							1 1	: : :	1 1		1 1	: : :	1 1 1		at Locatic				
A5030	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg1	7 10-Oct-16	16-Oct-16	128										1 1	1 1	1 I I	1 1 1			1 1	cation 8 - I	Deg1	
A5040	Pre Site and Facility Inspection by Contractor at Location 8 - Deg2	7 02-May-17*	08-May-17	0											1 1-		1 1 1					ion 8 - Dec	a2
A5050	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg2	7 09-May-17	15-May-17	0											i i .		i i i		ii	i i .		actor at Loc	,
A5060	Pre Site and Facility Inspection by Contractor at Location 9 - Deg1	7 01-Jan-17*	07-Jan-17	64									P	re Site							on 9 - Deg		
A5070	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg1	7 08-Jan-17	14-Jan-17	64										1 1	1 1		f 1 1			1 1		ation 9 - De	berd 1
A5080	Pre Site and Facility Inspection by Contractor at Location 9 - Deg2	7 21-May-17*	27-May-17	0											1 1	1 I I	1 1 1			1 1		ation 9 - D	1 1
A5090	Joint Site and Facility Inspection by Contractor at Escation 9 - Deg2	7 28-May-17	03-Jun-17	0											: :		1 1 1					ractor at L	1 7
	Pre Site and Facility Inspection by Contractor at Location 10 - Deg1	7 20-May-17 7 22-Nov-16*	28-Nov-16	30								n d		ito ond	i i .		1 1 1		ctor at Lo				-004
A5100												ii ÷ -	· - j j		-jj ·	r ri	-iii		iii		i		
A5110	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg1	7 29-Nov-16	05-Dec-16	30									1.1	1 1	1 1		1 1 1			1 1	: : : :	110 - Deg1	
A5120	Pre Site and Facility Inspection by Contractor at Location 10 - Deg2	7 31-Jan-17*	06-Feb-17	40										1 1	1 1		1 1 1			1 1	ation 10 - I		
A5130	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg2	7 07-Feb-17	13-Feb-17	40									1 1	1 1	: :					1 1		ocation 10	<u>ט</u> - נ
A5140	Pre Site and Facility Inspection by Contractor at Location 11 - Deg1	7 03-Sep-16*	09-Sep-16	70							1						1 1 1		ocation				
A5150	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg1	7 10-Sep-16	16-Sep-16	70																	tion 11 - D	÷g1	1
<b>a</b> A5160	Pre Site and Facility Inspection by Contractor at Location 11 - Deg2	7 22-Nov-16*	28-Nov-16	140								: : :	1.1	1 1	1 1		1 1 1		ctor at Lo	1 1	i i i		
A5170	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg2	7 29-Nov-16	05-Dec-16	140																1 1		11 - Deg2	2
<b>—</b> A5180	Pre Site and Facility Inspection by Contractor at Location 12 - Deg1	7 03-Sep-16*	09-Sep-16	0							1 1	: : :							_ocation				
A5190	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg1	7 10-Sep-16	16-Sep-16	0									- i - i -	1	1 I I		i i i				tion 12 - D	eg1	
A5200	Pre Site and Facility Inspection by Contractor at Location 12 - Deg2	7 22-Nov-16*	28-Nov-16	33															ctor at Lo				(
<b>A</b> 5210	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg2	7 29-Nov-16	05-Dec-16	33								: : :	1 1	1 1	1 1	1 1 1	1 1 1			1.1	: : : :	12 - Deg2	2
A5220	Pre Site and Facility Inspection by Contractor at Location 13 - Deg1	7 22-Nov-16*	28-Nov-16	0									i i	i i	i i -		i i i		ctor at Lo	- i - i			
😑 A5230	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg1	7 29-Nov-16	05-Dec-16	0									Joint	Site ar	nd Fac	ility Insp	ection	with Inte	rface Co	ntractor	at Location	13 - Deg1	1
🔲 A5240	Pre Site and Facility Inspection by Contractor at Location 13 - Deg2	7 31-Jan-17*	06-Feb-17	0										Pre S	Site an	d Facility	Inspe	ction by	Contracto	or at Loc	ation 13 - I	Deg2	
<b>—</b> A5250	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg2	7 07-Feb-17	13-Feb-17	0										Joint	Site a	nd Facil	ity Insp	ection w	ithInterf	ice Con	ractor at L	ocation 13	3 - D
🔲 A5260	Pre Site and Facility Inspection by Contractor at Location 14 - Deg1	7 01-Apr-17*	07-Apr-17	68										D	Pre S	ite and F	acility	Inspectio	on by Cor	tractor	at Location	14 - Deg1	1
<b>—</b> A5270	Joint Site and Facility Inspection with Interface Contractor at Location 14 - Deg1	7 08-Apr-17	14-Apr-17	68										0	Joint	Site and	Facili	y Inspec	tion with I	nterface	Contracto	or at Locati	ion 1
🛑 A5300	Pre Site and Facility Inspection by Contractor at Location 15 - Deg1	7 03-Sep-16*	09-Sep-16	206							10	Pre Sit	eand	Facility	Inspe	ction by	Contr	actor at l	ocation	15 - Deg	1		
<b>—</b> A5310	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg1	7 10-Sep-16	16-Sep-16	206							0	Joint S	Site an	d Facil	lity Ins	pection v	vith Int	erface C	ontractor	at Loca	tion 15 - D	eg1	
🛑 A5320	Pre Site and Facility Inspection by Contractor at Location 15 - Deg2	7 22-Nov-16*	28-Nov-16	140								Ū	PreS	ite and	Facili	ty Inspe	tion b	y Contra	ctor at Lo	cation 1	5 - Deg2		
😑 A5330	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg2	7 29-Nov-16	05-Dec-16	140								D	Joint	Site ar	nd Fac	ility Insp	ection	with Inte	rface Co	ntractor	at Location	n 15 - Deg2	<b>j</b> 2
🔲 A5340	Pre Site and Facility Inspection by Contractor at Location 16 - Deg1	7 03-Sep-16*	09-Sep-16	227							D	Pre Sit	eand	Facility	, Inspe	ction by	Contr	actor at l	ocation	16 - Deg	1		
🔲 A5350	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg1	7 10-Sep-16	16-Sep-16	227							: : <mark>n</mark>	Idint S	Site an	d Facil	itv Ins	bection v	vith Int	erface C	ontractor	at Loca	tion 16 - D	eg1	

- Actual Level of Effort Actual Work Remaining Work Critical Remaining Work
- Milestonesummary



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

A5360         Pre           A5370         Joir           A5375         Pre           A5378         Joir           A5378         Joir           A5378         Joir           A5378         Joir           A5380         Pre           A5390         Joir           A5395         Pre           A5396         Joir           A5400         Pre           A5410         Joir           A5420         Pre           A5430         Joir	ivity Name  Site and Facility Inspection by Contractor at Location 16 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 16 - Deg2  Site and Facility Inspection by Contractor at Location 17 - Deg1  The Site and Facility Inspection with Interface Contractor at Location 17 - Deg1  The Site and Facility Inspection by Contractor at Location 17 - Deg1  The Site and Facility Inspection by Contractor at Location 17 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 17 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 17 - Deg2  The Site and Facility Inspection by Contractor at Location 18 - Deg1  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg1  The Site and Facility Inspection by Contractor at Location 18 - Deg1  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg1  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg1  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg1  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg1  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at Location 18 - Deg2  The Site and Facility Inspection with Interface Contractor at L	7 7 7 7 7 7 7 7 7 7 7	Start           22-Nov-16*           29-Nov-16           17-Nov-16*           24-Nov-16*           31-Jan-17*           07-Feb-17           24-May-17*           31-May-17	Finish           28-Nov-16           05-Dec-16           23-Nov-16           30-Nov-16           06-Feb-17           13-Feb-17           30-May-17	Total Float 161 161 145 145 77	20 Q2	015 Q3	3 Q	4 Q	21	2010 Q2	6 Q3		Q1 Pre Site a	Q2 and Fac	cility Insp acility In	pection	1 Î I	Q1 ontract	Q2 or at Loo		16 - Deg2	Q1	2019 Q2
<ul> <li>A5370</li> <li>Joir</li> <li>A5375</li> <li>Pre</li> <li>A5378</li> <li>Joir</li> <li>A5380</li> <li>Pre</li> <li>A5390</li> <li>Joir</li> <li>A5395</li> <li>Pre</li> <li>A5396</li> <li>Joir</li> <li>A5400</li> <li>Pre</li> <li>A5410</li> <li>Joir</li> <li>A5420</li> <li>Pre</li> <li>A5430</li> <li>Joir</li> </ul>	Int Site and Facility Inspection with Interface Contractor at Location 16 - Deg2 e Site and Facility Inspection by Contractor at Location 17 - Deg1 int Site and Facility Inspection with Interface Contractor at Location 17 - Deg1 e Site and Facility Inspection by Contractor at Location 17 - Deg2 int Site and Facility Inspection with Interface Contractor at Location 17 - Deg2 e Site and Facility Inspection with Interface Contractor at Location 17 - Deg2 e Site and Facility Inspection by Contractor at Location 18 - Deg1 int Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg2 int Site and Facility Inspection by Contractor at Location 18 - Deg2 int Site and Facility Inspection with Interface Contractor at Location 18 - Deg2 int Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7 7 7 7 7 7 7 7 7 7 7 7 7	29-Nov-16 17-Nov-16* 24-Nov-16* 31-Jan-17* 07-Feb-17 24-May-17*	05-Dec-16 23-Nov-16 30-Nov-16 06-Feb-17 13-Feb-17	161 161 145 145	Q2	Q3	3 Q4	4 Q	21	Q2	Q3	D F		and Fac	cility Insp acility In	pection	n by Co		or at Loo	ation	16 - Deg2		Qź
A5370         Joir           A5375         Pre           A5375         Pre           A5378         Joir           A5380         Pre           A5390         Joir           A5395         Pre           A5396         Joir           A5400         Pre           A5410         Joir           A5420         Pre	Int Site and Facility Inspection with Interface Contractor at Location 16 - Deg2 e Site and Facility Inspection by Contractor at Location 17 - Deg1 int Site and Facility Inspection with Interface Contractor at Location 17 - Deg1 e Site and Facility Inspection by Contractor at Location 17 - Deg2 int Site and Facility Inspection with Interface Contractor at Location 17 - Deg2 e Site and Facility Inspection with Interface Contractor at Location 17 - Deg2 e Site and Facility Inspection by Contractor at Location 18 - Deg1 int Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg2 int Site and Facility Inspection by Contractor at Location 18 - Deg2 int Site and Facility Inspection with Interface Contractor at Location 18 - Deg2 int Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7 7 7 7 7 7 7 7 7 7 7	29-Nov-16 17-Nov-16* 24-Nov-16* 31-Jan-17* 07-Feb-17 24-May-17*	05-Dec-16 23-Nov-16 30-Nov-16 06-Feb-17 13-Feb-17	161 145 145									re¦Site a		acility In	5 I I I		ontract	1 1 1			16 - De	
A5375         Pre           A5378         Joir           A5378         Joir           A5380         Pre           A5390         Joir           A5395         Pre           A5396         Joir           A5400         Pre           A5410         Joir           A5420         Pre           A5430         Joir	e Site and Facility Inspection by Contractor at Location 17 - Deg1 Int Site and Facility Inspection with Interface Contractor at Location 17 - Deg1 e Site and Facility Inspection by Contractor at Location 17 - Deg2 Int Site and Facility Inspection with Interface Contractor at Location 17 - Deg2 e Site and Facility Inspection by Contractor at Location 18 - Deg1 Int Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg2 mt Site and Facility Inspection with Interface Contractor at Location 18 - Deg2 Int Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7 7 7 7 7 7 7 7 7	17-Nov-16* 24-Nov-16* 31-Jan-17* 07-Feb-17 24-May-17*	23-Nov-16 30-Nov-16 06-Feb-17 13-Feb-17	145 145				1 1 1	1 1		1 1			and F	+	ispecti	3 Look		ace Con	tractor	cht ladatio	1 <sup>:</sup> 16 <sup>:</sup> - De	
A5378         Joir           A5380         Pre           A5380         Joir           A5390         Joir           A5395         Pre           A5396         Joir           A5400         Pre           A5410         Joir           A5420         Pre           A5430         Joir	nt Site and Facility Inspection with Interface Contractor at Location 17 - Deg1 e Site and Facility Inspection by Contractor at Location 17 - Deg2 nt Site and Facility Inspection with Interface Contractor at Location 17 - Deg2 e Site and Facility Inspection by Contractor at Location 18 - Deg1 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg2 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg2 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7 7 7 7 7 7 7	24-Nov-16* 31-Jan-17* 07-Feb-17 24-May-17*	30-Nov-16 06-Feb-17 13-Feb-17	145		1 I I							Joint Site	+	and the second		onwith	Interf					2g2
A5380         Pre           A5390         Joir           A5395         Pre           A5396         Joir           A5396         Joir           A5400         Pre           A5410         Joir           A5420         Pre           A5430         Joir	e Site and Facility Inspection by Contractor at Location 17 - Deg2 Int Site and Facility Inspection with Interface Contractor at Location 17 - Deg2 e Site and Facility Inspection by Contractor at Location 18 - Deg1 Int Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg2 is site and Facility Inspection by Contractor at Location 18 - Deg2 Int Site and Facility Inspection with Interface Contractor at Location 18 - Deg2 Int Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7 7 7 7 7 7	31-Jan-17* 07-Feb-17 24-May-17*	06-Feb-17 13-Feb-17									0 P	re Site a	nd Fac	cility insp	ection	by Co	ntracto	or at Loc	ation 1	17 - Deg1		
A5390         Joir           A5395         Pre           A5396         Joir           A5396         Joir           A5400         Pre           A5410         Joir           A5420         Pre           A5430         Joir	nt Site and Facility Inspection with Interface Contractor at Location 17 - Deg2 e Site and Facility Inspection by Contractor at Location 18 - Deg1 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg2 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7 7 7 7 7	07-Feb-17 24-May-17*	13-Feb-17	77								<b>q</b> .	oint Site	and Fa	acility In	spectic	on with	Interfa	ice Cont	tractor	at Location	17 - Deg	.g1
A5395         Pre           A5396         Joir           A5400         Pre           A5410         Joir           A5410         Joir           A5420         Pre           A5430         Joir	e Site and Facility Inspection by Contractor at Location 18 - Deg1 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg2 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7 7 7	24-May-17*											🛛 Pre	e Site a	and Faci	ility Ins	pection	ı by C	ontracto	rat Ļo	cation 17 -	Deg2	
A5396         Joir           A5400         Pre           A5410         Joir           A5410         Joir           A5420         Pre           A5430         Joir	nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg1 e Site and Facility Inspection by Contractor at Location 18 - Deg2 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7	-	20 May 17	77		11							🛛 Jo	int Site	and Fa	acility li	nspecti	on with	Interfa	ce Cor	ntractor at L	ocation 1	17 - D
A5400         Pre           A5410         Joir           A5420         Pre           A5430         Joir	e Site and Facility Inspection by Contractor at Location 18 - Deg2 nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg2	7	31-May-17	30-111ay-17	7										l I	Pre Sit	te and	Facility	/ Inspe	ction by	Contra	actor at Loc	ation 18	- Deg
A5410         Joir           A5420         Pre           A5430         Joir	nt Site and Facility Inspection with Interface Contractor at Location 18 - Deg2			06-Jun-17	7		1 1 <b>-</b> 1								0	Joint S	Site ar	id Faci	lity Ins	bection v	vith lint	erface Con	tractorat	it Loca
A5420         Pre           A5430         Joir			31-May-17*	06-Jun-17	7											Pre S	ite and	d Facilit	y Insp	ection by	/ Cont	ractor at Lo	cation 18	3 - De
A5430 Joir	Cite and Equility Inspection by Contractor at Leastics 40. Dead	7	07-Jun-17	13-Jun-17	7										1	Joint	Site a	hd Fac	ility Ins	pection	with In	terface Cor	ntractor a	atLoc
A5430 Joir	e Site and Facility Inspection by Contractor at Location 19 - Deg1	7	31-Jan-17*	06-Feb-17	0									Pre	e Site a	and Faci	ility Ins	spectior	ı by C	ontracto	r at Lo	cation 19 -	Deq1	
	nt Site and Facility Inspection with Interface Contractor at Location 19 - Deg1		07-Feb-17	13-Feb-17	0										1 1 1		1 1 1	<u>(</u> )		1 1 1	1.1	ntractor at L		19 - D
	e Site and Facility Inspection by Contractor at Location 19 - Deg2		31-Jan-17*	06-Feb-17	35										+	+						cation 19 -		
	nt Site and Facility Inspection with Interface Contractor at Location 19 - Deg2		07-Feb-17	13-Feb-17	35										: : :		1 1 1	£ 3 3	1.1	1 1 1	1.1	ntractor at L		19 <sub>-</sub> Г
	e Site and Facility Inspection by Contractor at Inbound Vehicle Clearance Plaza		31-Jan-17*	06-Feb-17	0										1 1 1		1 1 1	1 1 1	1 1	1 1 1	1 1	oound Vehic	1 1 1	
	nt Site and Facility Inspection with Interface Contractor at Inbound Vehicle		07-Feb-17	13-Feb-17	0										1 1 1		1 1 1	f 1 1	11	1 1 1	1 1		1 1 1	11
Cle	earance Plaza				0										: : :							ntractor at l		
	e Site and Facility Inspection by Contractor at Outbound Vehicle Clearance Plaza		03-Mar-17*	09-Mar-17	1										i					. j j j.		Outbound '		- 4 4.
	nt Site and Facility Inspection with Interface Contractor at Outbound Vehicle earance Plaza		10-Mar-17	16-Mar-17	1									٥							rface (	Contractor a	at Outbou	und V
Access Dates		410	10-May-16	24-Jun-17	586											🔻 24-J	Jun-17	, Acces	s Date	Ş				
A1070 Loc	cation 1(PCB (001) Basement)-Deg1 (270d)	0	10-May-16*		154							ation 1(	PCB (00	1) Basen	nent)-E	Deg1 (2	70d),	10-May	/-16*					
A1081 Loc	cation 1(PCB (001) ELV Room (Grid Line E3))-Deg1 (270d)	0	10-May-16*		154		11				♦ Loca	ation 1(	PCB (00	1) ELV R	koom (	Grid Line	ie E3))	-Deg1	(270d	, 10-Ma	ıv-16'*			
	cation 2(PCB (001) First Floor Main Server Room)-Deg1 (330d)		, 09-Jul-16*		94						i i i		ion 2(PC		i i i		1 1 1			i i i		-Jul-16*		
	cation 2(PCB (001) First Floor Main Server Room)-Deg2 (380d)		28-Aug-16*		122		÷								1		لا د با د با د				- 61 - 6 -	l), 28-Aug-1	6*	
	cation 2(PCB (001) First Floor Main Server Room) - For Server Installation		28-Aug-16*		122										1 1 1		1 1 1	1 I I		i 1 1	1 1	Installation	1 I I	-¦16*
	cation 2(PCB (001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330d)		09-Jul-16*		94												1 1 1		1 1	1 1 1		(330d), 09		,
	cation 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line		09-Jul-16*		94						i i i	- i - i -	i i li	i i i í	i i i	- i i i	i i i	i i N	- i - i -	i 171	Ĩ	Grid Line BD	i i i	ן ¦ מ'1 (מ
BD	5)) - Dèg1 (330d)										·													
BD	cation 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line (5)) - Deg2 (380d)		28-Aug-16*		133									`	ļ. ļ. ļ.					ļ. ļ. ļ.		om (Grid Lir		-'De
	cation 3(Inbd Cargo Exam Bldg (037) MDF Room)-Deg1 (400d)		17-Sep-16*		87							- i - i -	i i i -		: : • :		: ~ ` :	i i i	- i - i -	1 11 15		0d), 17-Sep		
	cation 3(Inbd Cargo Exam Bldg (037) ELV Room)-Deg1 (400d)		17-Sep-16*		87												1 7 1		1 1	111		d), 17-Sep-	1 1 1	
	cation 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg1 (400d)		17-Sep-16*		115							•	Locatio	L É L L			1 1 1			1 1 1		)-Deg1 (40	1 1 1	1.1
	cation 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500d)		14-Feb-17*		0															1 1 1	- i - i -	Control Roo		
128	cation 3(Inbd Cargo Exam Bldg (037) Inspector Offices 8,129,130,131,128,129,140,141)-Deg1 (400d)		17-Sep-16*		115			ļ				•	Locatio					]				29,130,131		
128	cation 3(Inbd Cargo Exam Bldg (037) Inspector Offices 8,129,130,131,128,129,140,141)-Deg2 (500d)		14-Feb-17*		0										: : :							Offices 128		),131
	cation 3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg1 (-)		17-Sep-16*		115							•			1 1 7				1 1			17-Sep-16*	1 1 1	
	cation 3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg2 (480d)		06-Dec-16*		70										1 1 1					1 1 1	1.1	g2 (480d),		16* ¦
	cation 3a(Inbd Cargo Exam Bldg Main Server Room)-Deg1 (-)		17-Sep-16*		115							•			1 1 7		1 1 1				10 11	), 17-Sep-1		
	cation 3a(Inbd Cargo Exam Bldg Main Server Room)-Deg2 (480d)	0	06-Dec-16*		119									Location	3a(Inb	od Cargo	o Exar	n Bldg	Main S	erver R	oom)-	Deg2 (4800	l), 06-De	ec-16
🔲 A1142 Loc	cation 3a(Inbd Cargo Exam Bldg Main Server Room) - For Server installation	0	06-Dec-16*		119								•	Location	3a(Inb	od Cargo	o Exar	n Bldg	Main S	erver R	oom)	- For Serve	r installat	tion,
😑 A1150 Loc	cation 4(Outbd Cargo Exam Bldg (023))-Deg1 (530d)	0	25-Jan-17*		20									♦ Loca	ation 4(	(Outbd 0	Cargo	Exam	Bldg (	)23))-De	eg1 (5	30d), 25-Ja	n-17*	
🔲 A1160 Loc	cation 4(Outbd Cargo Exam Bldg (023))-Deg2 (680d)	0	24-Jun-17*		586											♦ Loca	ation 4	(Outbd	Carg	Exam	Bldg (0	023))-Deg2	(680d), 2	24-Ji
😑 A1161 Loc	cation 4a(Outbd Cargo Exam Bldg (023))-Deg1 (-)	0	25-Jan-17*		41									♦ Loca	ation 4a	a(Outbd	l Carg	o Exan	n Bldg	(023))-E	Deg1 (	-), 25-Jan-1	7*	

Data Date: 14-Aug-15

- Actual Work Remaining Work
- Critical Remaining Work
- Milestone
- summary



		Otent	E State 1		-	045				001		1		0017	0010		0010
ame	Original Duration	Start	Finish	Total Float		015				2016				2017	2018		2019
		05 Marc 17*			Q2	Q3	Q4	Q1	1	Q2	Q3	Q4	Q1	Q2 Q3 Q4	Q1 Q2 Q3		Q1 Q
4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)		05-May-17*		0 76										_ #   #	Cargo Exam Bldg (023))-D		), 05-May-
5(Common Utility Enclosure & Staff Subway)-Deg1 (320d)		29-Jun-16* 16-Nov-16*													way)-Deg1 (320d), 29-Jun		1/2*
5(Common Utility Enclosure & Staff Subway)-Deg2 (-)				121							1 1 1				e & Staff Subway)-Deg2 (-	ſ <u>ŀ ŀ</u> ŀ	1 1 1 1
6(Common Utility Enclosure & Staff Subway)-Deg1 (400d)		17-Sep-16*		59							i i i	iii	1		taff Subway)-Deg1 (400d),		
6(Common Utility Enclosure & Staff Subway)-Deg2 (-)	-	06-Nov-16*		131								: : :			& Staff Subway)-Deg2 (-)		0
7(Common Utility Enclosure & Staff Subway)-Deg1 (270d)		10-May-16*		126							i . îi	i i			)-Deg1 (270d), 10-May-16*		
8(Inbd Private Car Annex (025))-Deg1 (430d)		17-Oct-16*		128							•	Loca	tion 8(II		5))-Deg1 (430d), 17-Oct-1		
8(Inbd Private Car Annex (025))-Deg2 (580d)		16-May-17*		0											ivate Car Annex (025))-De		
8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)		17-Oct-16*		128							•	Loca	tion 8(Ii		5) Canopy)-Deg1 (430d), 1	i i i i	
8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)		16-May-17*		625											ivate Car Anhex (025) Can		
9(Outbd Private Car Annex (032))-Deg1 (520d)	0	15-Jan-17*		64					ļ., ļ.,				♦ Loc	_ #  # L L	Annex (032))-Deg1 (520d)		
9(Outbd Private Car Annex (032))-Deg2 (660d)	0	04-Jun-17*		0											l Private Çar Annex (032))-		
9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)	0	15-Jan-17*		64									♦ Loc	ation 9(Outbd Private Car	Annex (032) Canopy)-Deg	1 (520d), 1	5-Jan-17
9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)	0	04-Jun-17*		606										Location 9(Outbo Location 9)	l Private Car Annex (032) (	Canopy)-De	eg2 (660¢
10(Shuttle Bus Kiosks (006))-Deg1 (480d)	0	06-Dec-16*		30								•	Locatio	n 10(Shuttle Bus Kiosks (0	06))-Deg1 (480d), 06-Dec	-16*	
10(Shuttle Bus Kiosks (006))-Deg2 (550d)	0	14-Feb-17*		40									♦L	ocation 10(Shuttle Bus Kic	osks (006))-Deg2 (550d), 1	4-Feb-17*	
10(Shuttle Bus Kiosks (006) Canopy)-Deg1 (480d)	0	06-Dec-16*		70								•	Locatio	n 10 (Shuttle Bus Kiosks (0	06) Canopy)-Deg1 (480d),	06-Dec-16	3*
10(Shuttle Bus Kiosks (006) Canopy)-Deg2 (550d)	0	14-Feb-17*		716									♦L	ocation 10(Shuttle Bus Kid	osks (006) Canopy)-Deg2 (	550d), 14-I	Feb-17*
11(Outbd Coach Kiosks (009))-Deg1 (400d)	0	17-Sep-16*		190							♦ Lo	catior	n 11(Qu	tbd Coach Kiosks (009))-D	Deg1 (400d), 17-Sep-16*		
11(Outbd Coach Kiosks (009))-Deg2 (480d)	0	06-Dec-16*		140								•	Locatio	n 11(Outbd Coach Kiosks (	(009))-Deg2 (480d), 06-De	c-16*	
11(Outbd Coach Kiosks (009) Canopy)-Deg1 (400d)	0	17-Sep-16*		190							♦ Lo	catior	h 11(Ou	tbd Coach Kiosks (009) C	anopy)-Deg1 (400d), 17-Se	ep-16*	
11(Outbd Coach Kiosks (009) Canopy)-Deg2 (480d)	0	06-Dec-16*		786								•	Locatio	n 11 (Outbd Coach Kiosks (	(009) Canopy)-Deg2 (480d	), 06-Dec-	16*
11(Inbd Coach Kiosks (010))-Deg1 (400d)	0	17-Sep-16*		70							♦ Lo	: : :		d Coach Kiosks (010))-De			
11(Inbd Coach Kiosks (010))-Deg2 (480d)	0	06-Dec-16*		198		11									10))-Deg2 (480d), 06-Dec-	16*	
11(Inbd Coach Kiosks (010) Canopy)-Deg1 (400d)		17-Sep-16*		220							♦ La		i i		nopy)-Deg1 (400d), 17-Sep	i i i i	
11(Inbd Coach Kiosks (010) Canopy)-Deg2 (480d)		06-Dec-16*		786		11						: : :			10) Canopy)-Deg2 (480d)		6*
12(Inbd Private Car Kiosks(027))-Deg1 (400d)		17-Sep-16*		24									!! -	- + + +	)-Deg1 (400d), 17-Sep-16	4 4 1	
12(Inbd Private Car Kiosks(027))-Deg2 (480d)		06-Dec-16*		33								: : :			ks(027))-Deg2 (480d), 06-		
12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d)		17-Sep-16*		24											Canopy)-Deg1 (400d), 17		
12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (400d)		06-Dec-16*		786									1 1		ks(027) Canopy)-Deg2 (48		ob 16*
12(Inbd GV Kiosks (028))-Deg1 (400d)		17-Sep-16*		700												100), 00-De	- IO
		•		70								+		d GV Kiosks (028))-Deg1		 LLLL * ' ' '	
12(Inbd GV Kiosks (028))-Deg2 (480d)		06-Dec-16*		78											)-Deg2 (480d), 06-Dec-16		
12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d)		17-Sep-16*		0								: : :			y)-Deg1 (400d), 17-Sep-16		
12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d)		06-Dec-16*		786											Canopy)-Deg2 (480d), 06	-Dec-16*	
12(Outbd GV Kiosks (029))-Deg1 (400d)		17-Sep-16*		48							♦ Lo	: : :		itbd GV Kiosks (029))-Deg			
12(Outbd GV Kiosks (029))-Deg2 (480d)		06-Dec-16*		33											9))-Deg2 (480d), 06-Dec-1	L L I J	
12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d)		17-Sep-16*		48							◆ Lo	i i i	i i		opy)-Deg1 (400d), 17-Sep-		
12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d)	0	06-Dec-16*		786											9) Canopy)-Deg2 (480d), 0		
13(Outbd Private Car Kiosks (030))-Deg1 (480d)		06-Dec-16*		0									Locatio	n 13(Outbd Private Car Ki	osks (030))-Deg1 (480d), 0	6-Dec-16*	
13(Outbd Private Car Kiosks (030))-Deg2 (550d)	0	14-Feb-17		0											Car Kiosks (030))-Deg2 (5		
13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d)	0	06-Dec-16*		0			· · · · ·						Locatio	n 13(Outbd Private Car Ki	osks (030) Canopy)-Deg1 (	480d), 06-	Dec-16*
13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d)	0	14-Feb-17*		716									♦L	ocation 13(Outbd Private	Car Kiosks (030) Canopy)-l	Deg2 (5500	d), 14-Fe
14(Future-Outbd/Inbd Private Car Kiosks)-Deg1 (610d)	0	15-Apr-17*		68										◆ Location 14(Future+C	outbd/Inbd Private Car Kios	ks)-Deg1 (6	610d), 15
15(Inbd Traffic Control Kiosk (100))-Deg1 (400d)	0	17-Sep-16*		206							♦ Lo	catior	n 15(Int	d Traffic Control Kiosk (10	00))-Deg1 (400d), 17-Sep-	16*	
15(Inbd Traffic Control Kiosk (100))-Deg2 (480d)	0	06-Dec-16*		140								•	Locatio	n 15(Inbd Traffic Control K	iosk (100))-Deg2 (480d), 0	6-Dec-16*	
14(Future-Outbd/Inbo 15(Inbd Traffic Contro	d Private Car Kiosks)-Deg1 (610d) ol Kiosk (100))-Deg1 (400d) ol Kiosk (100))-Deg2 (480d)	d Private Car Kiosks)-Deg1 (610d)       0         ol Kiosk (100))-Deg1 (400d)       0         ol Kiosk (100))-Deg2 (480d)       0	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*       140	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*       140	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*       140	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*       140	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*       140	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*       140	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*       140	d Private Car Kiosks)-Deg1 (610d) 0 15-Apr-17* 68 Dl Kiosk (100))-Deg1 (400d) 0 17-Sep-16* 206 Dl Kiosk (100))-Deg2 (480d) 0 06-Dec-16* 140	d Private Car Kiosks)-Deg1 (610d) 0 15-Apr-17* 68 DI Kiosk (100))-Deg1 (400d) 0 17-Sep-16* 206 DI Kiosk (100))-Deg2 (480d) 0 06-Dec-16* 140	d Private Car Kiosks)-Deg1 (610d) 0 15-Apr-17* 68 DI Kiosk (100))-Deg1 (400d) 0 17-Sep-16* 206 DI Kiosk (100))-Deg2 (480d) 0 06-Dec-16* 140 ↓ Location 15(1ht ↓ Location 15(1ht)	d Private Car Kiosks)-Deg1 (610d) 0 15-Apr-17* 68 DI Kiosk (100))-Deg1 (400d) 0 17-Sep-16* 206 DI Kiosk (100))-Deg2 (480d) 0 06-Dec-16* 140 → Location 15(Inbd Traffic Control Kiosk (100))-Deg2 (480d) 0 06-Dec-16* 140	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206         ol Kiosk (100))-Deg2 (480d)       0       06-Dec-16*       140	d Private Car Kiosks)-Deg1 (610d)       0       15-Apr-17*       68         ol Kiosk (100))-Deg1 (400d)       0       17-Sep-16*       206

- Actual Work
- Remaining Work
- Critical Remaining Work Milestone
- summary



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vity ID	Activity Name		Start	Finish	Total	2	2015				20	016				2017				2018			2019
					.L	Q2	C	23	Q4	Q1	Q2	Q3	Q4	Q1		_	_	_	_			Q1	
A1390	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d)				227													6 1	- LTÌ				
		-																	1 1 1				
A1410	Location 17(Inbd Private Car Exam Bldg(033))-Deg1 (-)	-			145								•										
A1420	Location 17(Inbd Private Car Exam Bldg(033))-Deg2 (550d)	-			77									•			1 I I I	1 1 1	1 1 1	1 1 1	- i i i		1 1 1
🔲 A1430	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)	0	14-Jun-17*		0		11									Locat	tion 18(C	Outbd Pri	vate Ca	ır Exam	Bldg(024))	-Deg1 (-	-), 14-
🔲 A1440	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)	0	14-Jun-17*		7											Local	tion 18(C	butbd Pri	vate Ca	ır Exam	Bldg(024))	-Deg2 (6	670d),
😑 A1450	Location 19(DOH Cargo Clearance Bldg(043))-Deg1 (-)	0	14-Feb-17*		0										Location	19(DOI	H Cargo	Clearan	¢e Bldg(	(043))-[	Deģ1 (-), 14	-Feb-17	7*
😑 A1460	Location 19(DOH Cargo Clearance Bldg(043))-Deg2 (550d)	0	14-Feb-17*		35									•	Location	19(DOI	H Cargo	Clearan	ce Bldg(	(043))-[	Deg2 (550d	), 14-Fel	b-17*
😑 A1461	At 100       Leases 100,Las 1 Las Control (Las 10) Eq. (Las 10)       E. (Las 10																						
😑 A1462	Description         Description         Image: Provide the second of the																						
🔲 A1463	Description         Description         Description         Description           approx1         Description         Descrip																						
Instant         Decision         Decision         Decision         Print         Refer         Construction         Print         Print <thp< td=""><td></td><td></td><td></td><td>ice Pla</td></thp<>				ice Pla																			
A1465	Answer         Answer<																						
💼 A1466		0	13-Aug-16*		145							•	Undergro	und Du	icting bet	ween Cl	JE and Ir	nbd P. Ca	ar Anne	x (025)	and Shuttle	; Bus Kio	osks (0
🔲 A1467	Adds Nome         Opened Data         Basis         Firster Ford         Total         Priority         Priory         Priority         Priority																						
🔲 A1468	Underground Ducting between CUE and Outbd PCA(032)	0	13-Aug-16*		219								Undergro	und Du	icting bet	ween Cl	UE and C	Outbd PC	JA (032)	), 13-Au	ıg-16*		
🛑 A1478	Inbound Vehicle Clearance Plaza (Assume same as Location 3)	0	14-Feb-17*		0										Inbound	Vehicle	Clearanc	ce Plaza	(Assum	ie same	as Locatio	יז 3), 1¦4-	Feb-1
🔲 A1488	Outbound Vehicle Clearance Plaza (Assume same as Location 4 degree 1 + 51 day:	0	17-Mar-17*		1										<ul> <li>Outb</li> </ul>	ound Vel	hicle Clea	arance P	laza (A	ssiume s	ame as Lo	ation 4 d	degree
Interface	es Provisions	31	14-Feb-17	17-Mar-17	36										<b>T</b> 17-M	lar+17, In	iterfaces	Provisio	ns				
	Inbound VID foundation and mounting structure (assume same as Access date of	0	14-Feb-17*		0									•	Inbound	VID fou	ndation a	and mou	inting str	ructure	(assume sa	me as Ai	vccess
🛑 A7010	Inbound VTS foundation and mounting poles (assume same as Access date of	0	14-Feb-17*		16									•	Inbound	VTS fou	undation	and mou	unting p	oles (as	sume same	as Acce	ess dat
💼 A7020		0	14-Feb-17*		24		·							•	Inbound	TLS fou	Indation	and mou	inting pr	oles (as	sume same	as Acce	ss dat
🛑 A7030		0	17-Mar-17		1										<ul> <li>Outb</li> </ul>	ound VIE	) foundat	tion and	mountir	ng struc	ture (assun	ie same	as Ac
	Calcular Provide Car Earn Bag (2024): Opt ( - )         0         4. Jun ( + )         0           Control 1000000 Frivation Earn Bag (2004): Opt ( - )         0         4. Jun ( + )         0           Control 100000 Frivation Earn Bag (2004): Opt ( - )         0         4. Landon 110000 Frivation Earn Bag (2007) and (2008): Opt ( - )         0           Control 10000 Frivation Earn Bag (2007) and DOI Cargo Desarre Bag (2007) and DOI Cargo																						
	Center DB (04)         Cente DB (04)         Center DB (04)         Center D																						
ng WA4 Site	Inductive Vehicle Clearance Plaza (Assume same as Location 3)         0         14-Feb-17*         0           Outbourd Vehicle Clearance Plaza (Assume same as Location 4 (gree 1 + 51 day)         0         17-Mar-17         1           Outbourd Vehicle Clearance Plaza (Assume same as Location 4 (gree 1 + 51 day)         0         17-Mar-17         1           Outbourd Vehicle Clearance Plaza (Assume same as Location 4 (gree 1 + 51 day)         0         17-Mar-17         1           Outbourd Vehicle Clearance Plaza         Assume same as Location 4 (Jacume 1 + 51 day)         0         17-Mar-17         1           Outbourd Vehicle Clearance Plaza         Assume same as Access date of         0         14-Feb-17*         0         0           Inbourd V15 Counclation and mounting poles (assume same as Access date of         0         14-Feb-17*         1         1           Inbourd V15 Counclation and mounting poles (assume same as Access date of         0         14-Feb-17*         1         1           Inbourd V15 Counclation and mounting poles (assume same as Access date of         0         14-Feb-17*         1         1           Dubourd V15 Counclation and mounting poles (assume same as Access date of         0         17-Mar-17         1         1           Dubourd V15 Counclation and mounting poles (assume same as Access date of         0         17-Mar-17         1																						
🔲 A1740	Possession of Site	0	14-Aug-15*		1230			Poss	ession	of Site,	14-Aug-	15*											
🔲 A1750	Method Statement & Drawing	42	14-Aug-15	24-Sep-15	1224			i N	Method	Statem	ent & Dr	awing											
🔲 A1760	Place Order to prepare materials	31	14-Aug-15	13-Sep-15	1230			🗖 Pl	lace Or	der to p	repare n	naterial	s										
🔲 A1770	Review, revise and approve method statement	14	25-Sep-15*	08-Oct-15	1209			i 🗖	Review	v, revise	and app	prove n	ethod sta	itement									
🔲 A1780	Equipment mobilization and construction material delivered to the site	1	25-Oct-15*	25-Oct-15	1193		11	111	l: Équip	omenit n	obilizati	on and	construct	on mat	erial deli	vered to	the site						
🔲 A1790	Set up the alignment and level of the u-channel	1	14-Sep-15	14-Sep-15	1234		***	I S	et up th	e alignr	nent and	level c	f the u-ch	annel		+							
	Trial pit excavation		-	-				Т	rial pit e	excavati	on l												
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A4580		1	UZ-INOV-15°	02-INOV-15	1185				, set		anynmer	il atio		= u-chai	i i i i i i i i i i i i i i i i i i i				<u> </u>				
-	-15 Actual Work		Hon	g Kong Bo	oundary	Cros	sing						_							sion			
								SS)	6	_	1	F		4	L								



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ity ID		Activity Name	Original Duration	Start	Finish	Total Float		015		01		2016				2017	20	04	01		2018			201
	- 44500	Installation of foncing post along the site houndary		02 Nov 15*	04-Nov-15		Q2	Q3	Q4				Q3 Q4				23	Q4	Q1	Q2	Q3	Q4	Q1	_
_	A4590	Installation of fencing post along the site boundary Excavation for underground drainage pipe		02-Nov-15* 04-Nov-15*	04-Nov-15	1183 1183				Installation Excavation	1.1.1													
_	A4000	Evenly spread the asphalt scrap material by backhoe		05-Nov-15*	07-Nov-15	1180		····		Evenly spr		· - ¦ ¦	- + +											
_	A4610	Cast concrete for the u-channel and underground drainage pipe		05-Nov-15*	07-Nov-15	1182				Cast concr	1.1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					ning							
_	A4620	Remove the u-channel framework		05-Nov-15 06-Nov-15*	06-Nov-15	1181			- i i i	Remove th	i i	i i i		i i i	ground at	anag	e pipe							
						1180								: : :	ite heund									
_	A4640	Installation of chain-link fencing along the site boundary		06-Nov-15*	07-Nov-15					Installation				ng ine s		ary								
_	A4650	Installation of access doors		07-Nov-15*	07-Nov-15	1180																		
_	A4660	Excavation for drainage ditch		06-Nov-15*	09-Nov-15	1010				Excavation														
_	A4670	Cast concrete for the drainage ditch		10-Nov-15*	10-Nov-15	1177				Cast conci	- i - i													
_	A4680	Compact the asphalt scrap material		09-Nov-15*	10-Nov-15	1177				Compact t		11 I I	ap materia											
	A4690	Land surveying		11-Nov-15*	11-Nov-15	1174				Landsurv	, , , , , , , , , , , , , , , , , , ,													
_	A4700	Inspection of chain-link fencing and access doors		12-Nov-15*	12-Nov-15	1174				Inspection			encing and	acces	doors	+								
_	A4710	Testing of drains		13-Nov-15*	13-Nov-15	1174				Testing of	1.1	1 1 1												
_	A4720	Completion of the works		14-Nov-15		1174				Completio	on of th	i i i		i i i						; ; ;				
<b>1</b>	Detailed I	Design Specification	365	14-Aug-15	12-Aug-16	0							12-Aug-	16, Det	ailed Desi	gn Spe	ecificatio	n i						
	A1808	Preliminary System Proposal Submission	28	14-Aug-15	10-Sep-15	0			Prelin	ninary Syst	tem Pr	roposal	Submissior	h						; ; ;				
	A1809	Engineer's agreement with preliminary system proposal	45	11-Sep-15	25-Oct-15	0			E	ngineer's a	agreer	ment wit	h prelimina	ary syste	m propos	al								
	A1810	Draft Detailed Design Specification (DDS) Submission	48	26-Oct-15	12-Dec-15	0				Draft D	Detaile	d Desigr	n Specificat	tion (DE	S) Subm	ission								
	A1814	Draft Hardware Function Design Specification for Computer system and Network system (HFD)	48	26-Oct-15	12-Dec-15	0			-	Draft H	Hardwa	are Fun	tion Desig	n Spec	fication fo	r Com	puter sy	stem ar	nd Netw	vork s	ystem (H	FD)		
	A1815	Draft Software Function Design Specification for Computer system and Network system (SFD)	48	26-Oct-15	12-Dec-15	0				Draft S	Softwa	ire Func	ion Design	Specif	cation for	Comp	uter sys	tem an	d Netwo	ork sys	stem (SF	D)		
	A1820	Engineer's Review and Approval for Draft Detailed Design Specification (DDS)	60	13-Dec-15*	10-Feb-16	0				E	Engine	er's Rev	ew and Ap	proval	or Draft D	Detaile	d Desigr	h Specif	fication (	(DDS)	)			
-	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				E	Engine	er's Rev	ew and Ap	proval	or Draft H	lardwa	are FDS	for Co	mputer	syster	m and N	etwork sy	stem (H	FD
9	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							ew and Ap										em (SF	D)
	A1829	Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMD (AVCS)		01-Feb-16*	29-Feb-16	0							uirements							≱t) and	IMMD	(AVCS)		
_	A1830	Final DDS Submission (AVCSS,VTS,VIDS)(Phase 1/Section I)		01-Mar-16	30-Mar-16	0							Submissio			IDS)(F	hase 1/	Section	11)					
_	A1831	Development of System Security Plan		11-Feb-16	30-Mar-16	0					1 1		ent of Syste											
	A1840	Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section I)		31-Mar-16	29-Apr-16	0							r's Review							ding S	ystem S	curity Pla	n (AVC	3S
	A1850	Final DDS Submission (AVCSS)(Phase 2/Section II&III)	60	30-Apr-16	28-Jun-16	0						- I I I	n <b>al DDS S</b>			iîî i	1 I I	1 I I						
	A1860	Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&III)	45	29-Jun-16*	12-Aug-16	0							Enginee	r's Revi	ew and Ap	prova	l for DD	S Subn	nişsion (	(AVCS	S)(Pha	e 2/Section	n II&III)	
•	Contructi	ion Design and Management	60	07-May-16	05-Jul-16	52						0	5-Jul-16, C	Contruct	ion Desigr	h and I	Manage	ment						
_	A6920	Construction Health and Safety Plan Submission	30	07-May-16*	05-Jun-16	52						📥 Con	struction H	lealth a	d Safety	Plan \$	ubmissio	on		; ; ;				
_	A6930	Construction Health and Safety Plan reviewed by Engineer		06-Jun-16	05-Jul-16	52							onstruction						Enginee	rr				
_		lanufacture Mock-up items		30-Apr-16	20-Jul-16	51		<u></u>			·····	والا والا و والو و	20-Jul-16,		3 2			3						
_	A4749			30-Apr-16	06-Jul-16	51									1 1 1 1									
_	A4749	Preparation of Kiosk equipment Mock-up Installation of Kiosk equipment Mock-up		07-Jul-16	20-Jul-16	51							reparation Installation							; ; ;				
_						51											1.1							
	Supply/M	lanufacture prototypes		30-Apr-16	28-Jun-16	U							3-Jun-16, S							; ; ;				
	A2900	Manufacture LED Display Prototype (VID, ODB and XDB)		30-Apr-16	28-Jun-16	0							anufacture	+ +		++			J XDB)			+		
	A2910	Manufacture All-In-One Panel Prototype (AIOP)		30-Apr-16	28-Jun-16	0						M	anufacture	All-In-C	he Pahel	Proto	ype (Al	OP)						
	Software	Design, Coding and Testing	407	11-Apr-16	22-May-17	0									V	22-N	ay-17, S	Softwar	e Desig	jn, Cor	ding and	Testing		
	NI- 11																	Date	F	Revisio	on	Checked		Арр
-	nme No.: HZ			-	g Kong-Zhu			-									14-No		Rev.:		W		LC	
a Da	ate: 14-Aug-				ng Kong Bo			•				-	_	-	-								<b>.</b>	
		Remaining Work		Fa	cilities - Au	tomatic	Vehic	le		$\Box$	2	A	T	A										
		Critical Remaining Work		Cleara	nce Suppo	rt Syste	em (A۱	/CSS	5) 🛛			4												
		♦ Milestone				-											1							

summary



r ID	Activity Name	Original Duration			Float	1	1	-		-			+	-	_
					1.000	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	C
E Coding		270	11-Apr-16	05-Jan-17	0					V			🔻 05-Ja	an-17, C	Coding
💼 A5460	CCS, SURCON, SYSCON, CDBS Development Stage 1	70	11-Apr-16*	19-Jun-16	0						CCS,	SURCON	I, SYSCO	ЭN, CD	BS De
🔲 A5500	VTS Development Stage 1	70	11-Apr-16*	19-Jun-16	0							Developme	ent Stage	31	
🛑 A5510	VIDS Development Stage 1	64	11-Apr-16*	13-Jun-16	15							)evelopm	ent Stage	a 1	
🔲 A5540	CCS, SURCON, SYSCON, CDBS Development Stage 2		20-Jul-16	05-Jan-17	0								CCS,	SURCO	ON, S
🔲 A5580	VTS Development Stage 2	170	20-Jul-16	05-Jan-17	0								📕 VTSI	Develop	oment
🔲 A5590	VIDS Development Stage 2	162	28-Jul-16	05-Jan-17	0						-		VIDS	Develo	
	System Inetgration		30-Apr-16	22-May-17	0								 		
A5520	Test Plan Documentation Submission		30-Apr-16	22-Dec-16	0								i i i	lạn Đoợ	i i
A5530	Engineer's Review and Approval for Test Plan Documentation Submission		23-Dec-16	05-Jan-17	0								Engin		
A5600	Software System Integration Test		06-Jan-17	19-Feb-17	0								S	Software	
<b>—</b> A5630	CCS/SYSCON/SURCON/CDBS/VTS/VIDS Software Enhancement		20-Feb-17	10-Apr-17	0										S/SYS
<b>a</b> A5640	Software User Acceptance Test (UAT)		11-Apr-17	22-May-17	0			++						+	Softw
Prototype	& Software Simulation Tests	133	30-Apr-16	09-Sep-16	0						ľ	09-Sep-	-16, Prote	otype &	، Softw
a1910	Prototype Test Document		30-Apr-16	29-May-16	6						Prototyp				
a2130	Engineer's Approval for Testing Document	15	30-May-16	13-Jun-16	6						Engine	1 1 1	i i i		- i i
💼 A2920	CCWS with CDBS, SURCON and SYSCON (Software Simulation/ Software Integration Test)	30	20-Jun-16	19-Jul-16	0							WS with (			
A2930	Vehicle Tracking System (VTS) (Software Simulation/ Software Integration Test)	30	20-Jun-16	19-Jul-16	0				· · · · ·		📕 Ver	ni¢le Track	king Syste	em (VT	S) (Sc
a A2950	LED Displays (VID, ODB and XDB)	29	29-Jun-16*	27-Jul-16	0						📕 LE	D Display	∕\$ (VID, C	DDB ah	d XDE
🔲 A2960	All-In-One Panel (AIOP)	29	29-Jun-16*	27-Jul-16	0						📕 All	-In-One P	anel (Alc	JP)	
a3020	Prototype Testing Report Submission	30	28-Jul-16	26-Aug-16	0							Prototype			- i i
🛑 A4350	Engineer's Approval for Prototype Testing Report	14	27-Aug-16	09-Sep-16	0						•	Enginee	1 1 1		
Procurem	ent - Phase 1 / Section I	242	30-Apr-16	27-Dec-16	0								🕈 27-De	¢-16, Pr	rocure
🔲 A3070	Procurement of Equipment for Phase 1/Section I	242	30-Apr-16	27-Dec-16	0								Procur	rement	of Equ
🔲 A3080	Procurement of Cable and Accessories for Phase 1 /Section I	122	30-Apr-16	29-Aug-16	0							Procuren	ment of C	able ar	nd Acc
🔲 A3990	Procurement of All Servers and Workstations	242	30-Apr-16	27-Dec-16	0								Procur	rement	of All S
Supply/Ma	anufacture products for FAT	62	10-Sep-16	10-Nov-16	0						•	10	)-Nov-16	, Supply	y/Man
A2980	Supply/Manufacture LED Display (ODB, VID and XDB) for FAT	54	10-Sep-16	02-Nov-16	0							Su	ipply/Man	hufactur	e LED
🔲 A2990	Supply/Manufacture All-In-One Panel (AIOP) for FAT	62	10-Sep-16	10-Nov-16	0		⊹-⊹		++			Sı	upply/Mar	nufactu	re All-
A3000	Supply/Manufacture off-the-shelf equipment for FAT	50	10-Sep-16	29-Oct-16	0							📕 Su	pply/Man	ufacture	e off-tl
Factory Ac	cceptance Test (FAT)	94	10-Sep-16	12-Dec-16	0						T		12-Dec-	-16, Fa	ctory /
A2120	FAT Procedure Document	36	10-Sep-16	15-Oct-16	0							FAT	Procedu	ure Docu	ument
A2121	Engineer's Approval for FAT Procedure Document		16-Oct-16	29-Oct-16	0								gineer's A		
A3050	FAT for Licence Plate Recognition System (LPRS)		30-Oct-16	31-Oct-16	0		· · · · · · · · · · ·						T for Lice		
A3060	FAT for PA/Intercom		01-Nov-16	02-Nov-16	0							- i - i - i	T for PA/	i i i	- i i
A3090	FAT for ODB		03-Nov-16	04-Nov-16	0								AT for OD		
A3100	FAT for XDB		03-Nov-16	04-Nov-16	0								T for XD	i i i	
A3110	FAT for VID	2	03-Nov-16	04-Nov-16	0							I FA	T for VID	)	
A3120	FAT for Video Management System (VMS)		05-Nov-16	06-Nov-16	0		*** <mark>*</mark> ***		+				AT for Vid		nagen
A3130	FAT for Vehicle Tracking System (VTS)		07-Nov-16	08-Nov-16	0							1 1 1	AT for Vel	1 1 1	1 1
A3140	FAT for Communication Network (CMN)	2	09-Nov-16	10-Nov-16	0								AT for Co		
A3150	FAT for All-In-One Panel (AIOP)	2	11-Nov-16	12-Nov-16	0							I F/	AT for All-	-In-One	e Pane
a3160	FAT for AVCSS System Test	2	13-Nov-16	14-Nov-16	0							I E	AT for AV	/CSS S	ystem
A4360	FAT Report Submission	14	15-Nov-16	28-Nov-16	0		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	+				FAT Repo		
gramme No.: HZ 1 Date: 14-Aug-1			Hor Fa	y Kong-Zhu ng Kong Bo cilities - Au nce Suppo	oundary tomatic	Cross Vehic	sing le				4'	T	Δ	1	<u> </u>

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ty ID	Activity Name	Original Duration	Start	Finish	Total Float	Q2	015 Q3	Q4	Q1	Q2	16 Q3	Q4	Q1	Q	2017		Q4	Q1	2 Q2	2018 Q3	3 Q4	Q1	2019 Q
A4370	Engineer's Approval for FAT Report Submission	14	29-Nov-16	12-Dec-16	0	Q2		Q7		QZ	0,0					of for FAT							
	anufacture Equipment		13-Dec-16	10-Feb-17	0								1 1 1		1 1	upply/Mai	1 I I						
A6830	Supply/Manufacture LED (ODB, VID and XDB) Display for installation	45	13-Dec-16	26-Jan-17	0								1 1 1	11	11	cture LEC				R) Disn	lay for ins	allation	
A6840	Supply/Manufacture AIOP for installation		13-Dec-16	10-Feb-17	0								1 1 1		1 1	facture Al	1 1					anaton	
	and Bench Acceptance Test for Phase 1/ Section I		30-Aug-16	21-Feb-17	0										·					Test f	or Phase	1/ Section	
A6740	Material On-Site for Phase 1/Section I		28-Dec-16	02-Jan-17	0								1 1 1	1 1	1 1	for Phase		: : :					
A6740	Material Bench Acceptance Test for Phase 1/Section I		28-Dec-16 03-Jan-17	02-Jan-17 07-Jan-17	0								T I I			cceptance			n 1/So	otion			
A6750	Cable On-Site for Phase 1/Section I		30-Aug-16	12-Sep-16	0							Cable (						renas	se inse	CUOTI			
A6960	AIOP On-Site for Phase 1/Section I		11-Feb-17	12-Sep-10 16-Feb-17	0									i i	- i - i	for Phas	o 1/Shot	lon I					
A6970	AIOP Bench Acceptance Test for Phase 1/Section I		17-Feb-17	21-Feb-17	0		÷			•					· -¦ +	Acceptan			asa 1/S				•
A6980	LED (ODB, VID and XDB) On-Site for Phase 1/Section I		27-Jan-17	31-Jan-17	0										1 1	D and XD							
A6990	LED (ODB, VID and XDB) On Site for Thase 1/Section 1 LED (ODB, VID and XDB) Bench Acceptance Test for Phase 1/Section I		01-Feb-17	05-Feb-17	0												1 1					1/Section	
	on - Phase 1 / Section I		13-Sep-16	29-Jun-17	20										i îi	29-Jun-17	1 I I				1 1 1 1	1/OCCION	
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	1(PCB (001) Basement)		11-Oct-16	14-Nov-16	0		÷.									(PCB (00							
	Cable Laying and termination at Location 1 and Location 2		11-Oct-16	14-Nov-16	0							i i i	i i i		i i	nination a	i i i	i i i	i i	i i			
	1(PCB (001) ELV Room (Grid Line E3))		11-Oct-16	14-Nov-16	0											(PCB (00		: : :			))		
	Cable Laying and termination at Location 1 and Location 2		11-Oct-16	14-Nov-16	0											nination a					(Crid Lin	- (±2)\	
	2(PCB (001) Ground Floor ELV Room (Grid Line E3))		11-Oct-16 11-Oct-16	14-Nov-16	0							1 1 1				2(PCB (00		: : :			Gria Lin	e ⊫3))	
	Cable Laying and termination at Location 1 and Location 2		11-Oct-16	30-Mar-17	0		÷÷									nination a	그 그 옷 그 그는 그 것	( <u>}</u> )					
A2041	2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD)		11-Oct-16	14-Nov-16	0								-i -i -i	i i	i i	i i i i	1 1	1 1 1	- i i	i i		ort Health	
	Cable Laying and termination at Location 1 and Location 2 Cable Testing		15-Nov-16	07-Jan-17	0							1 1 1			1 1	nination a		ii i al					
A2042	Intercom and PA system Installation		08-Jan-17	13-Mar-17	0									ble Test	1 1	nd PA sys	tom linet		n				
A2043	Intercom and PA system initialiation		14-Mar-17	30-Mar-17	0									- i i	i i	and PAsys	- i i i	iii					
	2(PCB (001) First Floor Main Server Room)		14-10al-17 11-Oct-16	03-Apr-17	0		÷									17, Locatio			I) First	Floor M	Jain Sorv	ar Poom)	·
- Cocation A2001	Cable Laying and termination at Location 1 and Location 2		11-Oct-16	14-Nov-16	0									i i	i i	nination a	i i i	1 1 1	i i i	i i			
A2001	Cable Testing		15-Nov-16	27-Dec-16	0									le Testi	1 1								
A2002	AVCSS Network and Server Installation		28-Dec-16	14-Feb-17	0										ĭ,	ork and S	eriver' In	stallati	ion				
A2003	AVCSS Network and Server Tuning		15-Feb-17	03-Apr-17	0											vetwork a		: : :					
	3(Inbd Cargo Exam Bidg (037) Inspector Offices 128,129,130,131,128,12		10-Jan-17	22-May-17	0		+-+-						-		· -!	눈 는 는		( <u>-</u> )		Fram	Bldg (03	) Inspecto	or Of
A3241	Cable Laying and termination in Location 3 and Location 3a		10-Jan-17	13-Feb-17	0									i i	i i	and term	i i .	i i i		i i	1 1 1 1	) (110)-000	
A3242	AVCSS SURCON WS and 55" LCD Installation		14-Feb-17	13-Mar-17	0											RCON W							
A3243	VTS WS Installation		14-Feb-17	13-Mar-17	0									i i	i i	nstallation	i i i		-				
A3245	SURCON, WS Tuning		14-Mar-17	22-May-17	0											RCON, W							
	3(Inbd Cargo Exam Bldg (037) ELV Room)		13-Dec-16	09-Jan-17	0		÷÷			·		· · · · · ·	• 09			tion 3(Inb		7	Bilda ((	037) E	LV Room		
A3210	Cable Laying and termination between Location 3 and CUE		13-Dec-16	09-Jan-17	0							1 1 1	1 1 1	1 1	1 1	d terminat		1 1 1		1 1	1 1 1 1		
	3(Inbd Cargo Exam Bldg (037) Platform Control Room)		10-Jan-17	22-May-17	0									1 1	-			: : :				) Platform	n Co
A2071	Cable Laying and termination in Location 3 and Location 3a		10-Jan-17	13-Feb-17	0										1 1	and term		1 1 1		1 1	1 1 1 1		
A2072	AVCSS SYSCON WS and 55" TV Wall Installation		14-Feb-17	27-Feb-17	0											CONWS		: : :					
A2074	AVCSS SYSCON WS Tuning		28-Feb-17	22-May-17	0		† †								AVC	SS SYSC	ON WS	Tunir	ng				
	3(Inbd Cargo Exam Bldg (037) MDF Room)		13-Dec-16	09-Jan-17	0							•	• 09	Jan-17	i i	tion 3(Inb	i i .	i i i	-	037) M	IDF Room	ı)	
👝 A3190	Cable Laying and termination between Location 3 and CUE	28	13-Dec-16	09-Jan-17	0											d terminat							
Location	3a(Inbd Cargo Exam Bldg (037) ROCARS Room)	133	10-Jan-17	22-May-17	0								-		1 1					1 1		7) ROCA	RSF
👝 A2091	Cable Laying and termination in Location 3 and Location 3a	35	10-Jan-17	13-Feb-17	0									Cable I	Laying	and term	ination ir	Loca	tion 3 a	and Lo	cation 3a		
a A2092	AVCSS SYSCON, SURCON and Intercom Installation	49	14-Feb-17	03-Apr-17	0									i Av	/css	SYSCON,	SURCO	N and	I Interco	om Inst	allation		
pgramme No.: HZ ta Date: 14-Aug-			Hor Fa	g Kong-Zhu ng Kong Bo cilities - Au nce Suppo	oundary tomatic	Cros Vehi	sing cle		2	)/	1	Г	4	L		14-Nov	ate /-16	Rev.	Revision : 0		Checker C		pprov

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🔲 A2093	VTS WS Installation	49 14-Feb-17	03-Apr-17	0									🗖 УТ	swsi	stallatio	on						-
🔲 A2094	VID WS Installation	49 14-Feb-17	03-Apr-17	0									📫 Vic	) WS Ir	stallatio	n						
<b>A2096</b>	SURCON, SYSCON, WS Tuning	49 04-Apr-17	22-May-17	0										SUR	ON, SY	YSCON,	WSTu	ning				
Location	3a(Inbd Cargo Exam Bldg Main Server Room)	133 10-Jan-17	22-May-17	0								-		22-M	y-17, L	ocation	3a(Inbd	Cargo E	xam B	ldg Main	Server	r Ŗ
🔲 A3330	Cable Laying and termination in Location 3 and Location 3a	35 10-Jan-17	13-Feb-17	0				+					+ !	-1++-		4 + 1		on 3 and	-	+ +		!-
<b>A</b> 3340	AVCSS Server Installation	30 04-Apr-17	03-May-17	0									. 💻 .	AVCSS	Server	Installati	on					
A3350	VTS Server Installation	30 04-Apr-17	03-May-17	0								: : :	i 🖬 🖓	VTS Se	verins	tallation						
A3360	Servers Tuning	19 04-May-17	22-May-17	0										Serve								
	4(Outbd Cargo Exam Bldg (023) MDF Room)	21 14-Feb-17	06-Mar-17	0								-		1 1 1		, <b>č</b> , , ,	Cardo	Éxam Bl	dq (02	3) MDF I	Room)	
		21 14-Feb-17	06-Mar-17	0				+				F F - 4 -	+ i	++				en CUE a	-	+ + +		
	4 and 4a(Outbd Cargo Exam Bidg (023) ROCARS Room)	77 07-Mar-17	22-May-17	0										1 1- 1-				a(Outbd				3)
A3370	Cable Laying and termination in Location 4 and 4a	35 07-Mar-17	10-Apr-17	0								1 1 1		1 1 1	То на н			ocation 4	i T		19 (040	- /
A3380	AVCSS SYSCON, SURCON and Intercom Installation	14 05-Mav-17	18-May-17	0									i i			i i i	i i i	and Inter	i i	i i i		
	VTS WS Installation	14 05-May-17	18-May-17	0									1 1	VTSV		i i î i				Stallation		
	SYSCON, SURCON, WS Tuning	4 19-May-17		0				+								JRCON,		ning		+ +		
A3400		,	22-May-17	0										1 1 1					0.04-6	Culture		
_	5(Common Utility Enclosure & Staff Subway)	131 13-Sep-16	21-Jan-17	68								1 I I		1 1 1	. i i i			nclosure	& stan	Subway	2	
A3430	Cable Laying between Location 5 and Location 7	28 13-Sep-16	10-Oct-16	0		11				1 I I	Cable	1 1 1		1 1 1								
<b>a</b> A3440	Cable Laying between Location 5 and Location 6	28 15-Nov-16	12-Dec-16	0									1 - 1 -			ion 5 an		on 6				
<b>—</b> A3480	ODB Switch Installation at EL Room 2-7	14 08-Jan-17	21-Jan-17	68								÷ i		-i÷÷-		at EL Ro			-	+		
	6(Common Utility Enclosure & Staff Subway)	42 15-Nov-16	26-Dec-16	94							1 1 1	1 1 1		1 1 1				losure &	Staff S	ubway)		
🔲 A3450	Cable Laying between Location 5 and Location 6	28 15-Nov-16	12-Dec-16	0		111										ion 5 an						-
🔲 A3490	ODB Switch Installation at EL Room 8-9,11-12	14 13-Dec-16	26-Dec-16	94							1 1 1					EL Room						
Location	7(Common Utility Enclosure & Staff Subway)	28 13-Sep-16	10-Oct-16	0							<b>10-</b> 0	ct-16, L	ocation	7(Com	mon Ut	tility Encl	osure 8	Staff Su	bway)			
🛑 A3470	Cable Laying between Location 5 and Location 7	28 13-Sep-16	10-Oct-16	0							Cable	a Laying	g þetwe	en Loc	tion 5 a	and Loca	tion 7					
Location	12(Inbd Private Car Kiosks,GV Kiosks (027,028,029))	195 17-Sep-16	31-Mar-17	0						٦			31-	Mar-17	Locatio	on 12(In	bd Priva	ate Car K	iosks,C	V Kiosks	(027,0	02
🔚 Inbd Pri	ivate Car Kiosks(027) - 9 nos (Phase 1)	134 11-Oct-16	22-Feb-17	0									22-Feb	d-17, In	d Priva	te Car k	(iosks(0	27) - 9 n	os (Ph	ase 1)		
📄 A245	2 Cable Containment in Kiosks	14 11-Oct-16	24-Oct-16	0							📕 Cat	le Con	tainmer	nt in Kio	sks							
🔲 A245	53 Cable Laying and termination	10 25-Oct-16	03-Nov-16	0							📕 Ca	ble Lay	ing and	termin	tion							
🔲 A245	54 Cable Splicing, Testing and Labeling	65 04-Nov-16	07-Jan-17	0							: 📻	Cab	ole Splic	ing, Tes	ting and	d Labelin	g					
🔲 A246	60 AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)	45 08-Jan-17	21-Feb-17	0				+	4				AVCSS	S/DOH/I	10M Ki	osk Equi	pment I	nstallatio	n' (9' no	s)	+ -	!
🔲 A247	70 ODB & XDB installation (9 nos)	16 06-Feb-17	21-Feb-17	0									ODB &	XDB in	stallatio	n (9 nos						
	30 Inbd Private Car Kiosk Installation Complete	0 22-Feb-17		0		11						1 1 1	1 1	1 1 1		i î i i	î i i	mplete, 2	2-Feb	17		
	oods Vehicle Kiosks(028) - 5 nos (Phase 1)	195 17-Sep-16	31-Mar-17	0						•				1 1 1				osks(028			1	
	2 Cable Containment in Kiosks	14 17-Sep-16	30-Sep-16	0							Cable	Contai		1 1 1	1 1 1							
	33 Cable Laying and termination	10 01-Oct-16	10-Oct-16	0				+				+	+ i	++						+ +		
	4 Cable Splicing, Testing and Labeling	134 11-Oct-16	21-Feb-17	0		11						: : :				and La	helina					
	0 AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)	37 22-Feb-17	30-Mar-17	0								1 1 1	1 1	1 1 1			1 1 1	ent Install	ation (	5 005)		
	50 AIOP Installation (5 nos)	37 22-Feb-17	30-Mar-17	0										)P Insta			Adibilit					
	0 ODB & XDB installation (5 nos)	37 22-Feb-17 37 22-Feb-17	30-Mar-17	0								1 1 1	1 1	1 1 1		ation (5	nos)					
	00 Inbd Goods Vehicle Kiosks Installation Complete	0 31-Mar-17	JU-IVIdí - 17	0									+ i	++				tion Com	niloto	21_Mat 1	7	
	Goods Vehicle Kiosks (029) - 5 nos (Phase 1)	147 04-Nov-16	31-Mar-17	0														Kiosks(02				
	2 Cable Containment in Kiosks		17-Nov-16	0										1 1 1		Suous \		10515(02	3)-3	uus (Fild	se 1)	
		14 04-Nov-16		0							1 1 1	1 1 1		ent in k								
	73 Cable Laying and termination	10 18-Nov-16	27-Nov-16	0								1 1 1	- T	nd term								
	<ul><li>74 Cable Splicing, Testing and Labeling</li><li>80 AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)</li></ul>	41 28-Nov-16 37 08-Jan-17	07-Jan-17 13-Feb-17	0				++				F F	+	++-		d Labelin		hetallation	) (5 pc	(c)		
A258		Sr U8-Jan-17	13-FED-1/	U		: :	: : :		1 1 1	: : :	: : :	:=;	44022	'nμήν		isri⊏dnib	, nent II	nstallation	r¦(ə¦no	(5)	1 1	
amme No.: HZ	ZMB-DWP Actual Level of Effort	Hone	g Kong-Zhu	ihai-Ma	acao Ri	idae										ate		evision		hecked	_	٩рр
Date: 14-Aug-1			a Kona Dr			inge									14-Nov	v-16	Rev.:	0	WC		LC	
	Remaining Work		ng Kong Bo cilities - Au nce Suppo	Jui lual y		any Io																
					• • • • • • • • •																	

- summary



	IY/2013/06		Detail Wo			145		_						0047		2018			Page	ge 10
D	Activity Name	Original Start Duration	Finish	Total Float	Q2	015 Q3	Q4	Q1	Q2	2016 Q3	Q4	Q1	Q2	2017 Q3	Q4 C	21 (		3 Q4	Q1	2019 21
	2590 AIOP Installation (5 nos)	37 22-Feb-17	30-Mar-17	0			Q4				04			P Installation				5 Q4		++-
	2600 ODB & XDB installation (5 nos)	37 06-Feb-17	14-Mar-17	16									1 1 1	& XDB install		c)				
	4400 Outbd Goods Vehicle Kiosks Installation Complete	0 31-Mar-17		0								i i i	i i i	d Goods Ver	i i i i	i i i	tion Com	lata 31-M	ar 17	
	on 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)	115 06-Dec-16	31-Mar-17	0								1 1 1	1 1 1	/lar-17, Loca	1 1 1 1					va (Phr
A358		14 06-Dec-16	19-Dec-16	0		÷						F I	+	iment in Kios				JSKS (UJU))	- 3 1103	3 (1 /1a
		10 20-Dec-16	29-Dec-16	0							1 1 1	1 1 1	1 1 1	and termina	<u> </u>					
A358		46 30-Dec-16	13-Feb-17	0								1 1 1	1 1 1	olicing, Testin		olina				
				0									1 1 1			-	4			
A359		45 14-Feb-17	30-Mar-17	0									1 1 1	SS/DOH/MO			tinstallati	on (9 nos):		
A360		45 14-Feb-17	30-Mar-17	0									+	8 & XDB insta						
🔲 A441	· · · · · · · · · · · · · · · · · · ·	0 31-Mar-17		0										od Private Ca						
	on 14(Future-Outbd/Inbd Private Car Kiosks) - 6+6 nos	28 15-Apr-17	12-May-17	68									1 1 1	12-May-17, L	1 I I I I	<u>`</u>			Car Kios	usks) -
A244	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	28 15-Apr-17	12-May-17	68										Cable Laying						
Locatio	on 15(Inbd Traffic Control Kiosk (100))	42 11-Apr-17	22-May-17	0										22-May-17,	Location 1	5(Inbd T	raffic Cor	trol Kiosk (	100))	
🔲 A365	51 Cable Laying and termination	14 11-Apr-17	24-Apr-17	0	· · · ·		 						Ca	able Laying a	nd termina	ition		· · · · · ·		
🛑 A365	52 AVCSS SYSCON, SURCON Installation	7 25-Apr-17	01-May-17	0									A	VÇS\$ SYSC	ON, SURC	ON Inst	allation			
🔲 A366	60 VTS WS and 55" LCD Installation	7 25-Apr-17	01-May-17	0									V	TS WS and	55" LCD In	stallation	n			
🛑 A367	70 SYSCON, SURCON, WS Tuning	21 02-May-17	22-May-17	0										SYSCON, S	URCON, V	NS Tuni	ng			
Locatio	on 16(Outbd Traffic Control Kiosk (101))	21 02-May-17	22-May-17	0										22-May-17,	Location 10	6(Outbd	Traffic C	ontrol Kiosk	(101))	)
🔲 A370	01 Cable Laying and termination	14 02-May-17	15-May-17	0										Cable Laying	and termi	nation				
🔲 A370	AVCSS SYSCON, SURCON Installation	7 16-May-17	22-May-17	0										AVC'SS SYS	CON, SUF	RCON In	stallation			
🔲 A371	10 VTS WS and 55" LCD Installation	7 16-May-17	22-May-17	0										VTS WS an	d 55" LCD	Installat	ion			
	on 17(Inbd Private Car Exam Bldg(033) Operational Office)	28 25-Apr-17	22-May-17	0									1 1 1	22-May-17,	1 1 1 1			r Exam Bld	q(033)	) Opera
A375		7 25-Apr-17	01-May-17	0									i i i	able Laying						
A376		7 02-May-17	08-May-17	0									1 1 1	WCSS SUR			Installatio	n		
A377		14 09-May-17	22-May-17	0									+	SURCON'T						
	on 18 (Outbd Private Car Exam Bldg(024) Operational Office)	16 14-Jun-17	29-Jun-17	0									1 1 1	🕶 29-Jun-1		n 18 (Or	thd Priva	e Car Eva	n Blda(	(024)
A378		7 14-Jun-17	20-Jun-17	0									1 1 1	Cable La		1 1 1			II Diag(	(024)
A379		9 21-Jun-17	29-Jun-17	0										AVCSS				llation		
		98 14-Feb-17		0										22-May-17,	1 1 1 1				4~(042)	
	on 19 (DOH Cargo Clearance Bidg(043))	14 14-Feb-17	22-May-17	0									+	- + +				! + + !-	+	<i>))</i>
A211			27-Feb-17	0										aying and te			Location	19 and CO		
A211	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	21 28-Feb-17	20-Mar-17	0								1 1 1	1 1 1	e Laying in Lo	1 I I I					
A211		14 21-Mar-17	03-Apr-17	0									<u>i i</u> i	nd Intercom	i i _i _i	- i i i				
A212		49 04-Apr-17	22-May-17	0									1 1 1	PA and Inter	1 1 1 1					
	ehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS	80 14-Feb-17	04-May-17	0			· · · · · · · · ·						+	4-May-17, Ir	4			+ +	, 7 nos	3 VTS
🔲 A405	50 Inbound VID cabling from pillar box to VID field equipment	16 14-Feb-17	01-Mar-17	0										d VID cabling						
🔲 A405	52 Inbound VTS cabling from pillar box to VTS field equipment	8 02-Mar-17	09-Mar-17	0									Inbour	nd VTS cablir	ig from pilla	ar box to	VTS fiel	l equipmen	t	
🔲 A405	54 Inbound TLS cabling from pillar box to TLS field equipment	8 10-Mar-17	17-Mar-17	0									Inbou	nd TLS cabli	ng from pill	lar box to	o TLS fiel	d equipmer	ıt	
🔲 A406		32 02-Mar-17	02-Apr-17	0									Inbo	und VID field	equipmen	it installa	ition (8 VI	D)		
🔲 A406	52 Inbound VTS field equipment installation (4 RFID + 3 Cameras)	16 10-Mar-17	25-Mar-17	0									Inbou	und VTS field	equipmen	it installa	ition (4 R	ID + 3 Cai	nėras)	
🔲 A406	64 Inbound TLS field equipment installation (4 TLS)	8 26-Mar-17	02-Apr-17	0									Inbo	und TLS field	lequipmer	nt installa	ation (4 T	\$)		
🔲 A406	66 Inbound VID, VTS and TLS field equipment tuning	32 03-Apr-17	04-May-17	0									💻 İr	nbound VID,	VTS and T	LS field	equipme	nt tuning		
- Outbd	Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS	66 18-Mar-17	22-May-17	0										22-May-17,	Outbd Veh	icle Clea	arance Pla	iza - 8 nos	VID, 6 i	nos V
A411	0 Outbound VID cabling from pillar box to VID field equipment	16 18-Mar-17	02-Apr-17	0									Outb	ound VID ca	bling from	pillar bo	x to VID f	eld equipm	ent	
A412	20 Outbound VTS cabling from pillar box to VTS field equipment	8 03-Apr-17	10-Apr-17	0									Out	bound VT\$	abling fron	n pillar b	ox to VT	field equip	ment	
A413		5 11-Apr-17	15-Apr-17	11		···i-							+	- + + 11	4 +			s field equip	+	

- Actual Level of Effort Actual Work Remaining Work Critical Remaining Work Milestone
- summary



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

Contract No.: HY		Original Chart	Detail Wo	· · · · · · ·		145				2010			0047	7			2040		Page 11 c
ivity ID	Activity Name	Original Start Duration	Finish	Total Float	Q2	)15	Q3 Q4		Q2	2016 2 Q3	Q4	Q1 (	2017 22	Q3	Q4 (	1 Q2	2018 Q3	Q4	2019 Q1 (
🔲 🔲 A4140	Outbound VID field equipment installation (8 VID)	32 03-Apr-17	04-May-17	0	Q2		G4	Q1	022						D field equip				
A4150	Outbound VTS field equipment installation (3 RFID + 3 Cameras)	16 11-Apr-17	26-Apr-17	0									1 1	1 1 1				RFID + 3 C	Cameras)
A4170	Outbound TLS field equipment installation (4 TLS)	8 27-Apr-17	04-May-17	0									- i - i	i i i	S field equi				
A4180	Outbound VID, VTS and TLS field equipment tuning	18 05-May-17	22-May-17	0									1 1	1 I I	ID, VTS ar		i i i <b>`</b> i		
	ound Ducting between Inbd Cargo Exam Bldg (037) and CUE	35 08-Jan-17	11-Feb-17	0								<b>11-Fe</b>	+	+				+	3ldd (037) a
A3810		35 08-Jan-17	11-Feb-17	0								Cable	i i	i i i					
	ound Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clea	26 12-Feb-17	09-Mar-17	0									1 1 1	1 I I					n Bldg (037
A3830		26 12-Feb-17	09-Mar-17	0										1 1 1	ermination				
	ound Ducting between CUE and Outbd Car Exam Bldg (023)	24 10-Mar-17	02-Apr-17	0									1.1.1					E and Outb	d Car Evar
A3850	Cable Laying and termination (note: Access Date by C03)	24 10-Mar-17	02-Apr-17	0		÷		+++++++++++++						·	terminatio			+++	
	ound Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle (	24 10-Mai-17	26-Apr-17	0									1 1	F F I				utbd Cargo	- Evam Bld
		24 03-Apr-17	26-Apr-17	0									1 1						
A3870		24 03-Apr-17 26 27-Apr-17	20-Apr-17 22-May-17	0									i i	i i i			i i i i	ate by CO	outbd Veh
	ound Ducting between CUE and Outbd Vehicle Clearance Plaza	26 27-Apr-17		0									1 1	1 1 1	1 1 T 1		T ! ! !		1 1 1 1
A3890		· · ·	22-May-17	0								+	+	+			4 H II-	s Date by C	4 + 11
	Test and Commissioning (Phase 1 / Section I)	128 15-Jan-17	22-May-17	0														ng (Phase	
🔲 A2150	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)	30 15-Jan-17*	13-Feb-17	84								🗖 Testin					nission (8	weeks bef	ore Testing
🔲 A2151	Engineer Approval for T&C Document	14 14-Feb-17	27-Feb-17	84										i i i	or T&C Do				
😑 A2152	Joint Site Inspection for Permanent Power/Tele-communication for Initial on-site testing	14 17-Mar-17*	30-Mar-17	0														communic	ation for In
🔲 A2153	Initial on-site Testing & Commissioning	53 31-Mar-17	22-May-17	0									lnitia	al on-site	e Testing &	Commissio	onihg		
蜡 Site Acce	ptance Test (Phase 1 / Section I)	94 17-Apr-17	19-Jul-17	0										19-Jul	17, Site Ac	ceptance	Test (Pha	se 1 / Secti	on I)
A6601	Interface Readiness CED(LBS, CED IT, Metro-Ethernet) and IMMD (AVS)	36 17-Apr-17*	22-May-17	0														etro-Etherr	
A6602	SAT for AVCSS	28 23-May-17	19-Jun-17	0									S	AT for A	VCSS				
<b>—</b> A6603	SAT for Location 18 (AVCSS SURCON and 55" LCD)	5 30-Jun-17	04-Jul-17	0										SAT for	Location 1	B (AVC\$S	SURCON	l and 55" L	CD)
A6630	SAT Test Document Submission	30 20-Jun-17	19-Jul-17	0											est Docum				
A6640	Software Manual Documentations Submission	30 20-Jun-17	19-Jul-17	0		÷								Softwa	ne Manual	Document	tations Su	Ibmission	
Security	Risk Assessment and Audit	58 23-May-17	19-Jul-17	0									1 1	1 1 1	17, Securi				
A6800	SRAA (Assessment)	9 23-May-17	31-May-17	0										1 1 1	essment)				
A6810	Fix per SRAA Assessment	40 01-Jun-17	10-Jul-17	0									1 1	i î i	SRAA Ass	essment			
A6820	SRAA Audit	9 11-Jul-17	19-Jul-17	0										SRAA					
	ity Period Test (Phase 1 / Section I)	37 13-Jun-17	19-Jul-17	0		t ti								19-Jul				nase 1 / Se	
A5610	Joint Site Inspection for utilities, telecom connection and metro ethernet for OPT	7 13-Jun-17*	19-Jun-17	0														connection	
A5620	Operability Period Test (OPT) Phase 1	15 20-Jun-17	04-Jul-17	0									1 1	1 1 1	lity Period		i		
A3620		15 20-Jul-17	19-Jul-17	0									i i	i i i	bility Period				
	Operability Period Test (OPT) Phase 2 on (Phase 1 /Section I)	5 20-Jul-17	24-Jul-17	0											-17, Comp				
A2230				-									+					+	ation I)
	AVCSS - Certificate of Completion (Phase 1/Section I)	5 20-Jul-17	24-Jul-17	0													1. 1. 1. 1	hase 1/Se	
🔲 A2231	Certificate of Completion Approval by Engineer	0	24-Jul-17	0									1 1	1 I I	cate of Cor		i i i î		1 I I I I
_	and Document (Phase 1 /Section I)	140 21-Feb-17	10-Jul-17	14										111				nase 1 /Sec	uon I)
😑 A2180	Training Materials & Documentation Submission	30 21-Feb-17*	22-Mar-17	14								Tr 🔲	1 T	1 1 1	& Docume				
🔲 A2190	Operation and Maintenance Training	110 23-Mar-17	10-Jul-17	14										Operati	on and Ma	ntenance	Training		
n Operation	n (Phase 1 /Section I)	0 25-Jul-17	25-Jul-17	0									▼	25-Ju	-17, Opera	tion (Phas	e 1 /Secti	on I)	
A2240	Site Operation (Phase 1/Section I)	0 25-Jul-17		0									•	Site O	peration (F	hase 1/Se	ction I), 2	5-Jul-17	
Engineer	ing Support for Phase 1 / Section I	190 25-Jul-17	30-Jan-18	0									▼		<u> </u>	30-Jan-18	8, Engine	ering Supp	ort for Pha
					1 1 1														

Actual Work Remaining Work 

Critical Remaining Work

 Milestone summary



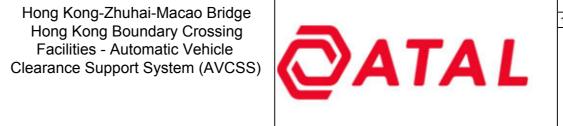
htract No.: HY		Original	Otant	Detail Wo	· · · · · ·						10		Page 12
y ID	Activity Name	Original Duration	Start	Finish	Total Float	2015			01	20		01	
A4420	Engineering Support for Phase 1/Section I	100	25-Jul-17	30-Jan-18	0	Q2	Q3 (	24	Q1	Q2	Q3	Q4	Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1
			13-Aug-16	11-Nov-16	0						_	11	1-Nov-16, Procurement - Phase 2 / Section II
	ement - Phase 2 / Section II				0								
A3980	Procurement of Lane Field Equipment for Phase 2/Section II		13-Aug-16	11-Nov-16	0								rocurement of Lane Field Equipment for Phase 2/Section II
Delivery	and Bench Acceptance Test for Phase 2/Section II		12-Nov-16	09-Dec-16	74								209-Dec-16, Delivery and Bench Acceptance Test for Phase 2/Section II
<b>A6760</b>	Material On-site for Phase 2/Section II		12-Nov-16	25-Nov-16	74							i i i	Material On-site for Phase 2/Section II
🛑 A6770	Bench Acceptance Test for Phase 2/Section II		26-Nov-16	09-Dec-16	74								Bench Acceptance Test for Phase 2/Section II
🛓 Instatllat	tion - Phase 2 / Section II	171	30-Dec-16	19-Jun-17	0								V 19-Jun-17, Instatllation - Phase 2./ Section II
Location	on 8(Inbd Pricate Car Annex (025)) (Phase 2)	156	30-Dec-16	04-Jun-17	0								Viena (025)) (Phạse
🔲 A4090	0 Site Preparation	10	30-Dec-16	08-Jan-17	54								I Site Preparation
🔲 A4091	1 Cable Containment in Kiosks	8	09-Jan-17	16-Jan-17	54								Cable Containment in Kiosks
🔲 A4093	3 Cable Laying and termination	8	17-Jan-17	24-Jan-17	54								Cable Laying and termination
🔲 A4094	4 Cable Splicing, Testing and Labeling	30	25-Jan-17	23-Feb-17	71								Cable Splicing, Testing and Labeling
🔲 A4096	6 Mobilization of kiosk equipment	10	24-Feb-17	05-Mar-17	71								Mobilization of kiosk equipment
🔲 A4100	0 AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)	19	16-May-17	03-Jun-17	0								AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)
🔲 A4430	0 Inbd Private Car Annex Installation Complete	0	04-Jun-17		0								Inbd Private Car Annex Installation Complete, 04-Jun-17
Location	on 9(Outbd Private Car Annex (032)) (Phase 2)	145	25-Jan-17	19-Jun-17	0								19-Jun-17, Location 9(Outbd Private Car Annex (032)) (Pha
🔲 A4151	1 Site Preparation	10	25-Jan-17	03-Feb-17	54								Site Preparation
🔲 A4152	2 Cable Containment in Kiosks	8	04-Feb-17	11-Feb-17	54								Cable Containment in Kiosks
🔲 A4153	3 Cable Laying and termination	8	12-Feb-17	19-Feb-17	54								Cable Laying and termination
🔲 A4154	4 Cable Splicing, Testing and Labeling	30	20-Feb-17	21-Mar-17	54								🔲 Cable Splicing, Testing and Labeling
🔲 A4156	6 Mobilization of kiosk equipment	20	22-Mar-17	10-Apr-17	54								Mobilization of kiosk equipment
🔲 A4160	0 AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)	15	04-Jun-17	18-Jun-17	0								AVCSS/DOH/MOM Kipsk Equipment Installation (1 no)
🔲 A4440	0 Outbd Private Car Annex Installation Complete	0	19-Jun-17		0								<ul> <li>Outbd Private Car Annex Installation Complete, 19-Jun-17</li> </ul>
Test and	d Commissioning (Phase 2 / Section II)	145	06-May-17	27-Sep-17	0								27-Sep-17, Test and Commissioning (Phase 27 Sep-17, Test and Commissioning (Phase 27 Sep-17, Test and Commissioning (Phase 27 Sep-17))
a A2290	Testing & Commissioning Documents Submission	30	06-May-17*	04-Jun-17	0								Teșting & Commișsioning Documents Submission
<b>a</b> A2291	Engineer Approval for T&C Document	14	05-Jun-17	18-Jun-17	0								Engineer Approval for T&C Document
a A2292	Initial on-site Testing & Commissioning	31	19-Jun-17	19-Jul-17	0								🛑 Initial on-site Testing & Commissioning
<b>A2300</b>	Site Acceptance Tests (SAT)	40	20-Jul-17	28-Aug-17	0								Site Acceptance Tests (\$AT)
<b>a</b> A2310	Operability Period Test (OPT)	30	29-Aug-17	27-Sep-17	0								Operability Period Test (OPT)
Complet	tion (Phase 2 / Section II)	5	28-Sep-17	02-Oct-17	0								🛡 02-Oct-17, Completion (Phase 2 / Section II)
A2320	AVCSS - Certificate of Completion (Phase 2/Section II)	5	28-Sep-17	02-Oct-17	0								AVCSS - Certificate of Completion (Phase 2/Secti
A4320	Certificate of Completion Approval by Engineer	0		02-Oct-17	0								<ul> <li>Certificate of Completion Approval by Engineer,</li> </ul>
	ering Support for Phase 2 / Section II	120	03-Oct-17	30-Jan-18	0								▼ 30-Jan-18, Engineering Support for P
A4450	Engineering Support for Phase 2/Section II		03-Oct-17	30-Jan-18	0								Engineering Support for Phase 2/Sect
			13-Aug-16	11-Nov-16	0							11	1-Nov-16, Procurement for Phase 2/ Section III
	ement for Phase2 / Section III				0								
A4000	Procurement of Lane Field Equipment for Phase 2/Section III		13-Aug-16	11-Nov-16	0								rocurement of Larie Field Equipment for Phase 2/Section III
Delivery	and Bench Acceptance Test for Phase2 / Section III		12-Nov-16	25-Nov-16	0								25-Nov-16, Delivery and Bench Acceptance Test for Phase2 / Section III
🔲 A6780	Material On-site for Phase 2/Section III		12-Nov-16	18-Nov-16	0								Vlaterial Oh-site for Phase 2/Section III
🛑 A6790	Bench Acceptance Test for Phase 2/Section III		19-Nov-16	25-Nov-16	0							I E	Bench Acceptance Test for Phase 2/Section III
占 Installati	ion - Phase 2 / Section III	223	26-Nov-16	07-Jul-17	0								▼ 07-Jul-17, Installation - Phase 2/ Section III
Location	n 10,11,12,13 (Vehicle Clearance Kiosks)	223	26-Nov-16	07-Jul-17	0							-	▼ 07-Jul-17, Location 10,11,12,13 (Vehicle Clearance Kiosks
Shutt	tle Bus Kiosks (006) - 4 nos (Phase 2)	70	14-Feb-17	25-Apr-17	0								▼ 25-Apr 17, Shuttle Bus Kiosks (006) - 4 nos (Phase 2)
A26	622 Cable Containment	20	14-Feb-17	05-Mar-17	0								Cable Containment

Programme No.: HZMB-DWP Data Date: 14-Aug-15 Actual Level of Effort Actual Work Critical Remaining Work Milestone summary Actual Level of Effort Actual Work Critical Remaining Work Summary

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

ID	No.: HY/2013/06 Activity Name	Original Start	Detail W	Total		015			20	)16			2017			20	18	r aų	ige 13 20
U	Activity Name	Duration	FILISI	Float	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q2		Q4	Q1	Q2		24 (	Q1
	A2623 Cable Laying and termination	20 06-Mar-17	25-Mar-17	0	Q2_		Q.T		Q42				le Laying			Q42		× (	<u> </u>
	A2630 AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)	30 26-Mar-17	24-Apr-17	0												uipment In	stallation (4	nos)	
	A4460 Shuttle Bus Kiosks Installation Complete	0 25-Apr-17	· ·	0													e, 25-Apr-17		
E.	Outbd Coach Kiosks (009) - 4 nos (Phase 2)	58 26-Mar-17	23-May-17	0													9) - 4 nos (F		•
	A2662 Cable Containment	15 26-Mar-17	09-Apr-17	0								+	able Conta						
	A2663 Cable Laying and termination	15 10-Apr-17	24-Apr-17	0									able Lavi		rmination				
	A2670 AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)	28 25-Apr-17	22-May-17	0										- Te - Fe			Installation	(4 nos)	
	A4470 Outbd Coach Kiosks Installation Complete	0 23-May-17		0									: : : :				nplete, 23-M		
	Inbd Private Car Kiosks (027) - 12 nos (Phase 2)	208 26-Nov-16	22-Jun-17	0							<b>—</b>						ks (027) - 12	- 1 I I	hase
	A2742 Cable Containment	40 26-Nov-16	04-Jan-17	0								Cable Cont	i+						
	<ul> <li>A2743 Cable Laying and termination</li> </ul>	40 05-Jan-17	13-Feb-17	0								Cable L		l terminat	ion				
	A2744 Cable Splicing, Testing and Labeling	8 14-Feb-17	21-Feb-17	0								Cable				a			
	A2750 AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)	84 22-Feb-17	16-May-17	0										- i i i	- i i i		Installation (	12 nos)	
	<ul> <li>A2760 Kiosk Equipment Configuration (12 nos)</li> </ul>	36 17-May-17	21-Jun-17	0												juration (1		12 1100)	
	A4490 Inbd Private Car Kiosks Installation Complete	0 22-Jun-17	21-5011-17	0													n Complete,	22- lun-	17
	Outbd Private Car Kiosks (030) - 12 nos (Phase 2)	198 06-Dec-16	22-Jun-17	0													sks (030) -		
	A2782 Cable Containment	40 06-Dec-16	14-Jan-17	0								Cable Cor					SK\$ (000) -	12,1103 (1	inpo
	A2783 Cable Laying and termination	40 15-Jan-17	23-Feb-17	0										d termina	tion				
	A2784 Cable Splicing, Testing and Labeling	35 24-Feb-17	30-Mar-17	0									ble Splicin			oling			
	A2790 AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)	83 31-Mar-17	21-Jun-17	0						+							ent Installatio	on'(12 n'	(20)
	A4500 Outbd Private Car Kiosks Installation Complete	0 22-Jun-17	21-3011-17	0													ion Complet		: :
	Inbd Goods Vehicle Kiosks (028) - 3 nos (Phase 2)	85 21-Mar-17	14-Jun-17	1													osks (028) - :		
	A2822 Cable Containment	15 21-Mar-17	04-Apr-17	0									ble Conta	- i i i	u Goous		σκο (ψ2φ) - ·		ilase
	A2823 Cable Laying and termination	10 05-Apr-17	14-Apr-17	0									able Layir	1.1.1.1	mination				
	A2825 Kiosk Equipment Configuration (3 nos)	38 15-Apr-17	22-May-17	0												ation (3 nd	) )	+	
	A2830 AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)	22 23-May-17	13-Jun-17	0													ent Installatio	n (3 noe	
	A4510 Inbd Goods Vehicle Kiosks Installation Complete	0 14-Jun-17	13-341-17	1													ion Complet	- i i i i	<u>с</u> т. –
	Outbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)	133 24-Feb-17	07-Jul-17														Kiosks (029)		: :
	A2862 Cable Containment	15 24-Feb-17	10-Mar-17	0									Contain				110365 (023)	) - 3 1103	
	A2863 Cable Laying and termination	10 11-Mar-17	20-Mar-17	0									le Laying		inbtion '			+	;
	A2865 Cable Splicing, Testing and Labeling	86 21-Mar-17	14-Jun-17	0												nd Labelir			
	A2870 AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)	22 15-Jun-17	06-Jul-17	0										i i ī	1 1 1		nent Installa	tion (3 n	
	A4520 Outbd Goods Vehicle Kiosks Installation Complete	0 07-Jul-17	00-301-17	0													allation Com	- 1 1 1	: : :
	Inbd Coach Kiosks (010) - 4 nos (Phase 2)	73 25-Apr-17	07-Jul-17	0									: : : :	1 1 1	1 1 1		10) - 4 nos (	19 <u>1</u> 1	1 1
	A2702 Cable Containment	15 25-Apr-17	07-301-17 09-May-17	0									Cable Co				10) - 4 1103 (		·/
	A2703 Cable Laying and termination	15 10-May-17	24-May-17	0									Cable L	1 1 1		tion			
	A2705 Kiosk Equipment Configuration (4 nos)	28 25-May-17	24-May-17 21-Jun-17	0												juration (4	noc)		
	A2710 AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)	15 22-Jun-17	06-Jul-17	0										i i i			nent Installa	tion (2 n	
	A2720 AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)	15 22-Jun-17	06-Jul-17	0												1 1 1 1 1	nent Installa	1 1 1	
	A4480 Inbd Coach Kiosks Installation Complete	0 07-Jul-17	00-00-17	0											+ -		omplete, 07-	+	03)
	Jnderground Ducting between CUE and Shuttle Bus Kiosk (006)	40 05-Jan-17	13-Feb-17	0								13-Feb					12 1 1 1		Kinck
		40 05-Jan-17	13-Feb-17	0								Cable L							
	Jnderground Ducting between PCB(001) and Inbd Coach Kiosks		04-Jan-17	0								04-Jan-17,						d Coach	h Kior
	A3930 Cable Laying and termination (note: Access Date by C03)	40 26-Nov-16	04-Jan-17 04-Jan-17	0								Cable Layir			17 1 1	1 1 1 1	1° 1 1 1		
Tes	st and Commissioning (Phase 2 / Section III)	203 07-Jul-17	25-Jan-18	0				- +									est and Con	nmissioni	ing (
					li i	i i		1 1 1		i i i	i i i		<u> </u>						
omm	e No.: HZMB-DWP Actual Level of F	Effort Hone	g Kong-Zh	uhai_Ma	icao Ri	ridae								Date		Revision	Ched WC	ked L	Ap

- Actual Work Remaining Work
- Critical Remaining Work
- Milestone summary



С	ontract No.: HY/2	2013/06	Detail Work Programme														
Acti	vity ID	Activity Name	Original		Finish	Total	20	)15			20	016			20	017	
			Duration			Float	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Τ
	😑 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											ļ
	😑 A2373	Initial on-site Testing & Commissioning	98	07-Jul-17	12-Oct-17	0											ė
	🔲 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							+		+             	+	-
	n Completie	on (Phase 2 / Section III)	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											1
	Operation	n (Phase 2 / Section III)	0	31-Jan-18	31-Jan-18	365											
	🔲 A2420	Site Operation (Phase 2/Section II & III)	0	31-Jan-18		365											-
	ng Defect Lia	ability Period (DLP)	365	31-Jan-18	30-Jan-19	0											
	🔲 A2430	DLP	365	31-Jan-18	30-Jan-19	0											
	n Documen	t Submission (Phase 2 / Section III)	45	31-Jan-18	16-Mar-18	320											
	🔲 A4340	As-built Drawings and O&M Manual	45	31-Jan-18	16-Mar-18	320											

Actual Level of Effort Actual Work Remaining Work Critical Remaining Work Milestone



							⊃ag			14	1
		-	18						)19		12
Q4	Q1	Q2 missionin		23	Q4		Q			)2 ///	3
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Engin	eer App	roval for	Т&(	C Þo	cume	nt					
lnitial	on-site T	Testing &	Co	mmis	sionir	ng					ł
		ceptance	⊢ − − ⊢		+ +						
		ration Ac	: :		: :					-	-
	▼ 30-	Jan-18, (	Con	npleti	on (P	has	≥2/	Sec	tion	1H)	1
	I AV	CSS - Ce	rtifi	cate	of Co	mple	etion	(Ph	ase	2/S	ėc
		tificate o			1 1						r,
	▼ 31-	Jan-18, (	Ope	rațio	h (Ph	ase	2/8	ecti	on¦II	I)	l
	🔶 Site	Operati	on (	Phas	e 2/S	Section	on¦ll	& II	), 3	1-¦Ja	a'n-
								30-	Ja'n-	19,	Þ
				;	: :	: :		₽LĘ			-
		16-Mar-	18,	Doc	umen	t Su	bmis	sion	(Pł	naise	e 2
	i i i	As-built	Dra	wing	s and	08	мм	anu	al		
				1							
Date	_	Revision			hecke	ed			orov	ed	
Nov-16	Rev	.: U		WC			LC	;			

## MATERIALAB CONSULTANTS LIMITED

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Report No.: 0165/15/ED/0696

Appendix D

**Event / Action Plan** 

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## Appendix D –

# Event / Action Plan for Air Quality and Noise Monitoring

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

Event / Action Plan for Air Quality

Event		Ac	tion	
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurement s to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedanc e continues, arrange meeting with IEC and ER;</li> <li>If exceedanc e stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementatio n of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

Event		Ac	tion	
	ET	IEC	ER	Contractor
Limit Level	·	·	·	
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance a nd propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementatio n of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

Event				
Event	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedances abated.</li> </ol>

Event Action	Action										
	ET	IEC	ER	Contractor							
Action Level	<ol> <li>Notify IEC and Contractor;</li> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Report the results of investigation to the IEC,ER and Contractor;</li> <li>Discuss with th e Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review the analysed results submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Submit noise mitigation proposals to IEC;</li> <li>Implement noise mitigation proposals.</li> </ol>							

Event		Act	tion	
210111	ET	IEC	ER	Contractor
Limit Level	<ol> <li>Inform IEC, ER, EPD and Contractor;</li> <li>Identify source;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

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Report No.: 0165/15/ED/0696

Appendix E

Waste Flow Table



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

# Monthly Summary of Waste Flow Table for <u>2017</u> (year)

Name of Person completing the Record: Marko Chan

	Actual Qu	antities of Ine	ert C&D Mater	ials Generate	d Monthly	Actual Qua	ntities of Non-	-inert C&D Wa	astes Generat	ted Monthly
Month	Total Quantity Generated	Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '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	0	0	0.580
Feb										
Mar										
Apr										
May										
Jun										
Jul										
Aug										
Sept										
Oct										
Nov										
Dec										
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.580

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 2017 (year)

Month	Total Quantity of Excavated Marine Sediment Generated	Reused in this contract	Reused in other Projects	Disposed of at CMP
	in '000m <sup>3</sup>	in '000m <sup>3</sup>	in '000m <sup>3</sup>	in '000m <sup>3</sup>
Jan	0.656	0	0	0.656
Feb				
Mar				
Apr				
Мау				
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Total	0.656	0.000	0.000	0.656



#### Monthly Summary Waste Flow Table for 2017

				disposal / 墮 (see Note 1)			disp 非墮h	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										
Month	Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填)		Reused in other Projects 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 墮性廢物 (如泥, 石矢頭, 石, 填料等)		Others (e.g. general refuse, broken formwork etc) 其他 (如垃圾, 廢板枋等)						pack	cardboard kaging 包裝紙類 化學廢物			Total Quantity Generated 總生產量	
	(t	<b>)</b>	(1	c)	(0	d)	(1	e)	(in to	nnes)	(in to	nnes)	(in to	nnes)	(in l	litre)	(a)= (b-	+c+d+e)
	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量
January	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
February																		
March																		
April																		
Мау																		
June																		
July																		
August																		
September																		
October																		
November																		
December																		
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.002	0.002

Ver: 1st Date: Jan 2017

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

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Report No.: 0165/15/ED/0696

Appendix F

**Environmental Licenses and Permits** 

# Appendix F - 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
		T crimit 140.	Work / fied			From	То	Status	
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	
	Notification								
2	Pursuant to Section 3(1) of The Air Pollution Control (Construction	Ref No. 387703	Main Site Area	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
	Dust) Regulation								
	Notification								
3	Pursuant to Section 3(1) of The Air Pollution Control (Construction	Ref No. 387735	Works Area WA3	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
	Dust) Regulation								
	Billing A/C for Construction Waste Disposal		Main Site Area,						
4	Pursuant to Section 6 & 9 of the Waste Disposal (Charges for	A/C No. 7022228	WA3 & 4	15-Apr-15	06-May-15	06-May-15	Nil	Valid	
	Disposal of Construction waste) Regulation		WA3 & +						
5	Registration as Waste Producer	5213-951-C1186-28	Main Site Area	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
	Pursuant to Waste Disposal (Chemical Waste) (General) Regulation								 
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	
	Water Discharge License								
7	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	
	Water Discharge License								
8	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	
			Portion A, G, H &						
9	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0028-16	N	15-Sep-16	29-Sep-16	03-Oct-16	02-Apr-17	Valid	
	Construction Noise Permit		1N						
10	Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1267-16	Main Site Area	02-Dec-16	16-Dec-16	19-Dec-16	18-Mar-17	Valid	
	Construction Noise Permit								
11	Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1329-16	Main Site Area	09-Dec-16	23-Dec-16	01-Jan-17	30-Apr-17	Valid	
10			East of Sha Chau		20 N 16	07 D 16	04 1 17	Valid until	
12	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-132	(CMP Vd)	03-Nov-16	30-Nov-16	05-Dec-16	04-Jan-17	04-Jan-17	
10			East of Sha Chau		04 J 47	05.1.15		<b>TT 11 1</b>	
13	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-161	(CMP Vd)	15-Dec-16	04-Jan-17	05-Jan-17	04-Feb-17	Valid	
			East of Sha Chau		• • • · -				++
14	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-170	(CMP Vd)	12-Jan-17	24-Jan-17	05-Feb-17	04-Mar-17	Valid	

# (update: 01/02/2017)

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

Itom	Permit/Licence Registration	Dommit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
Item		Permit No.		Application Date	Issue Date	From	То	Status	
1	Environmental Permit	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
	Pursuant to Environmental Impact Assessment Ordinance	LF-333/2009/K	IIIXDCI	2 <del>4</del> -10141-10	11 / 10	11-Api-10	1111		
	Billing A/C for Construction Waste Disposal		Main Site Area	07-Aug-15	20-Aug-15	20-Aug-15	Nil	Valid	
2	Pursuant to Section 6 & 9 of the Waste Disposal (Charges for	A/C No. 7023015							
	Disposal of Construction waste) Regulation								
3	Registration as Waste Producer	N.A.	N.A.	N.A.	N.A.	N.A.	ΝA	ΝA	#
3	Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	IN.A.	IN.A.	IN.A.	IN.A.	IN.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.

# (update: 01/02/2017)

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Report No.: 0165/15/ED/0696

Appendix G

Implementation Schedule for Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality	iter.		measures	
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	<ul> <li>2) Proper watering of exposed spoil should be undertaken throughout the construction phase:</li> <li>Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.</li> <li>The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;</li> <li>Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> </ul>	All construction sites	V
\$5.5.6.2	A2	<ul> <li>When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;</li> <li>The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials,</li> <li>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;</li> <li>Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> <li>Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided 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</li> </ul>	All construction sites	V
S5.5.6.2	A2	<ul> <li>top</li> <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

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul> <li>enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site r part of the construction site where the exposed earth lies</li> </ul>		
S5.5.6.3	A3	<ol> <li>The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.</li> </ol>	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 Represent- ative dust monitoring station	V
S5.5.7.1	A6	<ul> <li>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant;</li> <li>Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system;</li> <li>All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP;</li> <li>Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system;</li> <li>The materials which may generate airborne dusty emissions should be wetted by water spray system;</li> <li>All 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 Represent- ative dust monitoring station	N/A
\$5.5.2.7	A7	<ul> <li>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</li> <li>All road surface within the barging facilities will be paved;</li> <li>Dust enclosures will be provided for the loading ramp;</li> <li>Vehicles will be required to pass through designated wheels wash facilities; and</li> <li>Continuous water spray at the loading points</li> </ul>	All construction sites	V
Construction			A 11	V
S6.4.10	N1	<ol> <li>Use of good site practices to limit noise emissions by considering the following:</li> <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> </ol>	All construction sites	v

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul> <li>mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>		
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	<ul> <li>4) Select "Quiet plants" which comply with the BS 5228 Part</li> <li>1 or TM standards.</li> </ul>	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 representat- ive noise monitoring station	V
Sediment			I	L
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
		Construction Waste)		
S8.3.8	WM1	<ul> <li><u>Construction and Demolition Material</u> The following mitigation measures should be implemented in handling the waste:</li> <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		
\$8.3.9- \$8.3.11	WM2	<ul> <li>approval before implementation</li> <li><u>C&amp;D</u> Waste</li> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.</li> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;D waste should be segregated 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</li> </ul>	All construction sites	V
\$8.2.12- \$8.3.15	WM3	<ul> <li>segregation and storage.</li> <li><u>Chemical Waste</u></li> <li>Chemical waste that is produced, as defined by Schedule <ol> <li>of the Waste Disposal (Chemical Waste) (General)</li> <li>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> </ol></li></ul>	All construction sites	V
S8.3.16	WM4	<ul> <li>Sewage</li> <li>Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly.</li> </ul>	All construction sites	V
S8.3.17	WM5	<ul> <li>General Refuse</li> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by</li> </ul>	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		law.		
		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.		
		· 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.		
		Training should be provided to workers about the		
		concepts of site cleanliness and appropriate waste		
		management procedure, including reduction, reuse and		
		recycling of wastes.		
		uction Phase)		
S9.11.1.7	W2	Land Works	Land-based	V
		General construction activities on land should also be	works area	
		governed by standard good working practice. Specific measures to be written into the works contracts should		
		include:		
		wastewater from temporary site facilities should be		
		controlled to prevent direct discharge to surface or marine		
		waters;		
		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;		
		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;		
		• 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		
		<ul><li>and after each rainstorm;</li><li>temporary access roads should be surfaced with crushed</li></ul>		
		stone or gravel;		
		<ul> <li>rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via</li> </ul>		
		silt removal facilities;		
		• measures should be taken to prevent the washout of		
		construction materials, soil, silt or debris into any drainage		
		system;		
		open stockpiles of construction materials (e.g. aggregates		
		and sand) on site should be covered with tarpaulin or		
		similar fabric during rainstorms;		
		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;		
		<ul> <li>discharges of surface run-off into foul sewers must always</li> </ul>		
		be prevented in order not to unduly overload the foul		
		sewerage system;		
S9.11.1.7	W2	all vehicles and plant should be cleaned before they leave	Land-based	V
		the construction site to ensure that no earth, mud or	works area	
		debris is deposited by them on roads. A wheel washing		
		bay should be provided at every site exit;		
		· wheel wash overflow shall be directed to silt removal		
		facilities before being discharged to the storm drain;		
		• the section of construction road between the wheel		

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		washing bay and the public road should be surfaced with		
		crushed stone or coarse gravel; • wastewater generated from concreting, plastering,		
		Internal decoration, cleaning work and other similar		
		activities, shall be screened to remove large objects;		
		• 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;		
		<ul> <li>the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately;</li> </ul>		
		<ul> <li>waste oil should be collected and stored for recycling or</li> </ul>		
		disposal, in accordance with the Waste Disposal Ordinance;		
		• 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		
		• surface run-off from bunded areas should pass through		
		oil/grease traps prior to discharge to the stormwater		
Ecology (Co	onstruction	system.		
S10.7	E4	Watering to reduce dust generation; prevention of siltation	Land-based	V
		of freshwater habitats; Site runoff should be desilted, to	works areas	
		reduce the potential for suspended sediments, organics		
		and other contaminants to enter streams and standing freshwater		
S10.7	E5	Good site practices, including strictly following the	Land-based	V
01011	20	permitted works hours, using quieter machines where	works areas	•
		practicable, and avoiding excessive lightings during night		
0.40 7	50	time		
S10.7	E8	Control vessel speed     Chinese training	Marine Traffic	V
		<ul> <li>Skipper training</li> <li>Predefined and regular routes for working vessels; avoid</li> </ul>	Tranic	
		Brother Islands.		
Fisheries				
S11.7	F4	Maritime Oil Spill Response Plan (MOSRP);	HKBCF	V
		Contingency plan.		
		Detailed Design Phase)		
S14.3.3.1	LV1	General design measures include: • Roadside planting and planting along the edge of the	HKBCF	V
		HKBCF Island is proposed;		
		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;		
		<ul> <li>Protection measures for the trees to be retained during construction activities;</li> </ul>		
		Optimizing the sizes and spacing of the bridge columns;		
		· Fine-tuning the location of the bridge columns to avoid		
		visually-sensitive locations;		
		• Providing planting area around peripheral of HKBCF for		
		tree planting screening effect;		
		<ul> <li>Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline;</li> </ul>		
		• 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		l

EIA Ref.	EM&A	Recommended Mitigation Measures	Location of the	Implementation Status
	Log Ref.		measures	Status
		<ul> <li>transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and</li> <li>Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of</li> </ul>		
		building arrangement to minimise disturbance to		
Landscape	& Visual (C	surrounding vegetation in the HKBCF.		
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	HKBCF	N/A
		<ul><li>appropriate at some portions of bridge footbridge to screen bridge and traffic.</li><li>G3. Not applicable as this is for HKLR.</li><li>G4. For HKBCF, providing aesthetic architectural design on</li></ul>		
		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		
		<ul> <li>G5. Vegetation reinstatement and upgrading to disturbed areas</li> <li>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation</li> </ul>		
		removed G7. Providing planting area around peripheral of HKBCF for tree planting screening effect; G8. Plant salt-tolerant native and shrubs etc along the		
		<ul> <li>planter strip at affected seawall.</li> <li>G9. Reserve of loose natural granite rocks for re-use, Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.</li> </ul>		
S14.3.3.3	LV3	<ul> <li>Mitigate Visual Impacts</li> <li>V1. Minimize time for construction activities during construction period.</li> <li>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.</li> </ul>	HKBCF	N/A
EM&A	<b>E</b> 144	An Indexeduct Frederic Observer and the bar	A.II.	
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	<ol> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual.</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</li> <li>An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all</li> </ol>	All construction sites	V
		implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.		

Legend: V = implemented;

N/A = not applicable

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Report No.: 0165/15/ED/0696

Appendix H

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Report No.: 0165/15/ED/0696

Appendix H –

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

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

		<b>Cumulative Statistics</b>	
Reporting Period	Complaints	Notifications of	Successful
		Summons	Prosecutions
This reporting period	0	0	0
From commencement	5	0	0
date of construction to			
end of reporting month			

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

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

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

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Report No.: 0165/15/ED/0696

Appendix I

**Environmental Site Inspection Schedule** 

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Report No.: 0165/15/ED/0696

### Contract No. HY/2013/03 HZMB HKBCF – Vehicle Clearance Plazas and Ancillary Buildings and Facilities Weekly Environmental Site Inspection Schedule

### Environmental Site Inspection Schedule for January 2017

Tel

			Jan-2017			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Public Holiday	3	4	5 Environmental Site Inspection	6	7
8	9	10	11	12 Environmental Site Inspection	13	14
15	16	17	18	19	20 Environmental Site Inspection	21
22	23	24	25	26 Environmental Site Inspection	27	28 Public Holiday
29	30 Public Holiday	31 Public Holiday				

#### Tentative Environmental Site Inspection Schedule for February 2017

			Feb-2017			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 Environmental Site Inspection	3	4
5	6	7	8	9 Environmental Site Inspection	10	11
12	13	14	15	16 Environmental Site Inspection	17	18
19	20	21	22	23	24 Environmental Site Inspection	25
26	27	28				

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Report No.: 0165/15/ED/0696

### Contract No. HY/2013/06 (within Contract No. HY/2013/03 works area) HZMB HKBCF – Automatic Vehicle Clearance Support System Weekly Environmental Site Inspection Schedule

#### **Environmental Site Inspection Schedule for January 2017**

Tel

Jan-2017										
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
1	2 Public Holiday	3	4	5 Environmental Site Inspection	6	7				
8	9	10	11	12 Environmental Site Inspection	13	14				
15	16	17	18	19	20 Environmental Site Inspection	21				
22	23	24	25	26 Environmental Site Inspection	27	28 Public Holiday				
29	30 Public Holiday	31 Public Holiday								

#### Tentative Environmental Site Inspection Schedule for February 2017

Feb-2017									
Sun	Mon	Tue	Wed	Thu	Fri	Sat			
			1	2 Environmental Site Inspection	3	4			
5	6	7	8	9 Environmental Site Inspection	10	11			
12	13	14	15	16 Environmental Site Inspection	17	18			
19	20	21	22	23	24 Environmental Site Inspection	25			
26	27	28							