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Report No.: 0165/15/ED/0452

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT (Rev. 2)

May 2016

Client:

China Harbour Engineering Co., Ltd.

Project:

Contract No. HY/2013/03

Hong Kong-Zhuhai-Macao Bridge

Hong Kong Boundary Crossing Facilities -

Vehicle Clearance Plazas and **Ancillary Buildings and Facilities**

Report No.:

0165/15/ED/0452

Prepared by:

Sandra Pang

Reviewed by: Bong Yu

Certified by:

Arthur Cheng

Environmental Team Leader



Ref.: HYDHZMBEEM00_0_4292L.16

17 June 2016

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 May 2016

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for May 2016 (Rev. 2) certified by the ET Leader (ET's ref.: "MCL/ED/0341/2016/C" dated 16 June 2016) and provided to us via e-mail on 17 June 2016.

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

The Contractor and Environmental Team are reminded to pay close attention on implementation of Regular Marine Traffic Routes Plan and timely submission of required records to relevant parties in accordance with the plan.

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

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

Raymond Dai

Independent Environmental Checker

c.c. HyD Mr. Matthew Fung (By Fax: 3188 6614)
HyD Mr. Ken Woo (By Fax: 3188 6614)
MCL Mr. Arthur Cheng (By Fax: 2450 8032)
CHEC Mr. Johnason Ko (By Fax: 2887 3014)

Internal: DY, YH, ENPO Site

Q:\Projects\HYDHZMBEEM00\02 Proj Mgt\02 Corr\HYDHZMBEEM00 0 4292L.16.doc

Ramboll Environ Hong Kong Limited 英環香港有限公司

Rm 2403, 24/F., Jubilee Centre, 18 Fenwick Street, Wanchai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899



16 June 2016

Our Ref. MCL/ED/0341/2016/C

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Ramboll Environ Hong Kong Limited (formerly ENVIRON Hong Kong Limited) Room 2403, 24/F, Jubilee Centre, 18 Fenwick Street, Wan Chai,

Hong Kong

Attn.: Mr. Raymond Dai, IEC

Date

BY HAND

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 May 2016 (Rev.2) for your verification.

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

Yours faithfully, for and on behalf of MATERIALAB CONSULTANTS LIMITED

Arthur Chena

Environmental Team Leader

AC/sp

C.C.

AECOM - Mr. P.K. Lee, Mr. W.S. Ng, Mr. Ernest Wong RAMBOLL ENVIRON - Mr. Ray Yan, Mr. Andy Wong

CHEC - Mr. Marko Chan

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Report No.: 0165/15/ED/0452

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- Location of Works Areas Α
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Figure 1 Air Quality Monitoring Stations

Figure 2 Noise Monitoring Stations

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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" (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China Harbour Engineering Co. Limited (hereafter referred to as "the Contractor") and MateriaLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

The Contract 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 the Contract took place on 10 April 2015 while the construction works and the EM&A programme of this Contract commenced on 29 August 2015.

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 9th Monthly EM&A Report for the Contract which summaries findings of the EM&A programme during the reporting period from 1 May 2016 to 31 May 2016 (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 during the reporting period are listed below:

Environmental Site Inspection: 6, 13, 20 and 27 May 2016.

Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 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.

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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:

- Site Investigation at Portion G:
- Piling at Portion A1, STP, G (Bridge A1 A5, A7b, A8 & A9);
- Building at Portion A1 & G;
- CUE Construction, Drainage & Sewerage Work, Radiation Screen Wall and Sign Gantry Footing at Portion B;
- Bridge Construction, High Mast Lighting Foundation, Pumping Station & Box Culvert D at Portion G: and
- 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.

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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" ("the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR).
- The Contract 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 ninth EM&A report to document the findings of site inspection activities and EM&A programme carried out by the Contractor from 1 May 2016 to 31 May 2016 (reporting period) under Contract No. HY/2013/03 and is submitted to fulfil Condition 5.4 of the EP.

1.2 **Project Description**

- 1.2.1 The works to be executed under this Contract include the following major items:
 - a. Cargo clearance facilities including kiosks for clearance of good vehicles, customs inspection platforms, X-ray building, etc.;
 - b. 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 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.

1.3 **Project Organisation**

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1.3.1 The Project Organisation for Environmental Works 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 Contact Persons and Telephone Numbers of Key Personnel

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Michael Tovey	3985 7470	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	34652899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (China Harbour Engineering Co. Ltd)	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
	Environmental Officer	Mr. Marko Chan	9427 2879	2512 0427
Environmental Team (MateriaLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline			5236 7111	

1.3.2 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.

1.4 Construction Programme

1.4.1 The construction programme is provided in **Appendix C**.

1.5 Construction Works Undertaken during the Reporting Period

- 1.5.1 The construction works of this Contract commenced on 29 August 2015. During this reporting period, the following major site activities were commenced:
 - Site Investigation at Portion G;
 - Piling at Portion A1, STP, G (Bridge A1 A5, A7b, A8 & A9);
 - Building at Portion A1 & G:
 - CUE Construction, Drainage & Sewerage Work, Radiation Screen Wall and Sign Gantry Footing at Portion B:
 - High Mast Lighting Foundation, Pumping Station & Box Culvert D at Portion G;
 - Marine sediment excavation activities from the land-based works; and
 - Temporary stockpiles of excavated marine sediment within the Site, maintained in a stable condition, lined with impermeable sheeting, bunded and with proper leachate control measurers.

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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.

Table 2.1 Air Quality Monitoring Location

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.

Table 2.2 Action and Limit Levels for Air Quality

Monitoring Station	Action Level (µg/m³)	Limit Level (µg/m³)	
1 hour TSP			
AMS6	360	500	
AMS7	370	500	
24 hours TSP			
AMS6	173	260	
AMS7	183		

- 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 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.

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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.

3.3 Monitoring Results

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

^{*} Reduce to 70 dB(A) for schools and 65 dB(A) during school examination period

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WATER QUALITY MONITORING 4.

- 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.
- 4.3 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.

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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.
- With respect to condition 3.26A of EP-353/2009/K approved by EPD on 11 April 2016, the 5.3 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.

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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 sites allocated to this Project are the Mud Pit CMP2 of the Confined Marine Sediment Disposal Facility to the South of The Brothers (or at the East of Sha Chau). As advised by CEDD in the memo dated 19 February 2016, from 00:00 on 22 March 2016 onward, the disposal space at CMP2 of the South of The Brothers is closed and all disposal of contaminated sediment is to be carried out at CMP Vd to the East of Sha Chau (ESC).
- 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 No marine sediment extracted from bored piling from this Contract was disposed to allocated dumping site in May 2016. The summary of marine sediment disposed up to end May 2016 is shown in the following table:

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Table 6.1 Summary of Marine Sediment Disposed to Dumping Site

Month/Year	Quantity dispos	Quantity disposed (in'000m ³)			
	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	
Total	9.816	12.344	10.474	32.634	

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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 were conducted on 6, 13, 20 and 27 May 2016 by the representatives of Engineer, Contractor, ET and IEC (IEC for 20 May 2016).
- 7.1.3 Particular observations during the site inspection and corrective actions undertaken by the Contractor are described below:

29 April 2016

1. CHEC was reminded to clear the stagnant water accumulated at CUE works area. Subsequently, stagnant water was cleared at CUE works area. The observation was closed on 6 May 2016.

6 May 2016

 CHEC was reminded to remove the general refuse accumulated at CUE works area. Subsequently, the general refuse was removed at CUE works area. The observation was closed on 13 May 2016.

13 May 2016

- CHEC was reminded to remove the stagnant water accumulated at CUE works area. Followup actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
- CHEC was reminded to remove the stagnant water accumulated at Portion A1. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
- CHEC was reminded to maintain housekeeping practice at CUE works area. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

20 May 2016

- 1. CHEC was reminded to remove the stagnant water accumulated at the drip tray for chemical container at CUE works area. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
- CHEC was reminded to remove the stagnant water accumulated at the drip tray for generator at Portion G. 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 separate the excavated marine sediment properly at Portion G from other fill to avoid further contamination. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

27 May 2016

 CHEC is reminded to remove stagnant water at CUE. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

7.2 Advice on the Solid and Liquid Waste Management Status

Room 723 & 725, 7/F, Block B.

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- 7.2.1 The Contractor registered as a chemical waste producer for the Contract, Sufficient numbers of receptacles were available for general refuse collection and sorting.
- The monthly summary of waste flow table is detailed in **Appendix E**. 7.2.2
- 7.2.3 No excavated marine sediment (from Contract No. HY/2013/03) generated in this reporting period. 0.203 (in'000m³) of Inert C & D Wastes and 0.293 (in'000m³) of Non-inert C & D Wastes were generated 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 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.

7.3 **Environmental Licenses and Permits**

7.3.1 The valid environmental licenses and permits during the reporting period are summarized in Appendix F.

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. Marine traffic records which indicated the number of trips data for pelican barge, hopper barge and tug boat on the implementation of RMTRP from January to May 2016 were checked by ET. Marine traffic records of January and February 2016 were provided by Contractor to ER, IEC/ENPO for checking on 23 March 2016. Marine traffic records of March, April and May 2016 were provided by Contractor to ER, IEC/ENPO for checking on 14 June 2016.

7.5 Summary of Exceedance of the Environmental Quality Performance Limit

- Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 7.5.1 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 7.5.2 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.

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- 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

- 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.
- Statistics on environmental complaints, notifications of summons and successful prosecutions 7.6.3 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 June 2016:
 - Site Investigation at Portion G;
 - Piling at Portion A1, STP, G (Bridge A1 A5, A7b, A8 & A9);
 - Building at Portion A1 & G:
 - CUE Construction, Drainage & Sewerage Work, Radiation Screen Wall and Sign Gantry Footing at Portion B;
 - Bridge Construction, High Mast Lighting Foundation, Pumping Station & Box Culvert D at Portion G; and
 - 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.

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

The tentative schedule for weekly site inspections for June 2016 is provided in **Appendix I**.

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9. CONCLUSIONS

- 9.1 Commencement of the Contract took place on 10 April 2015. The commencement date for construction works and the EM&A programme of the Contract commenced on 29 August 2015.
- 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 6, 13, 20 and 27 May 2016. 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.

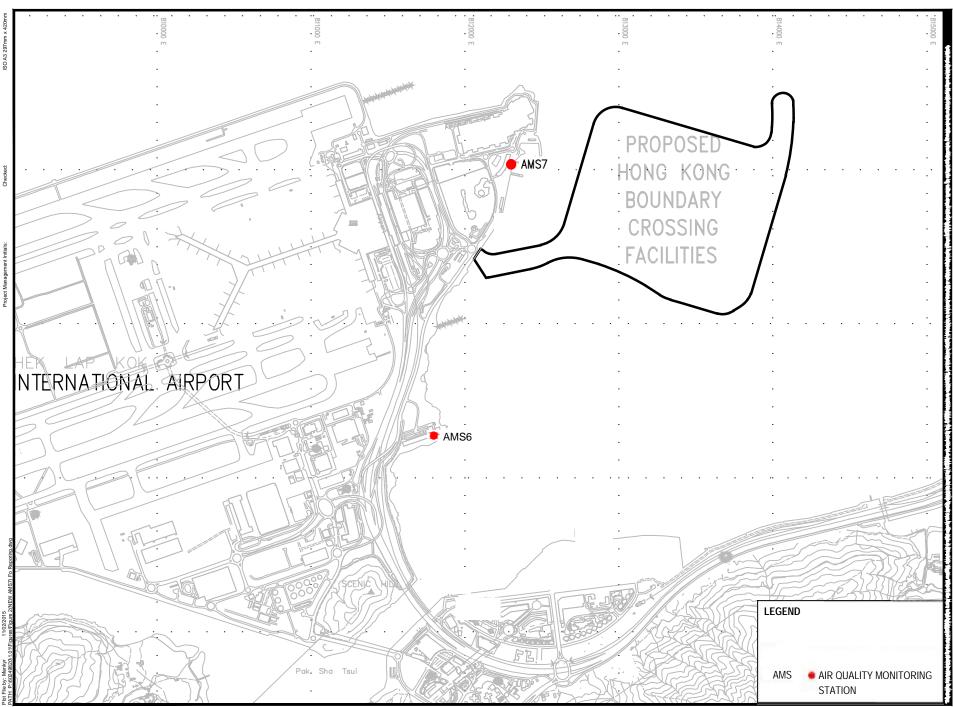
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Figure 1

Air Quality Monitoring Stations



AIR QUALITY AND NOISE MONITORING STATIONS FOR HKBCF

HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

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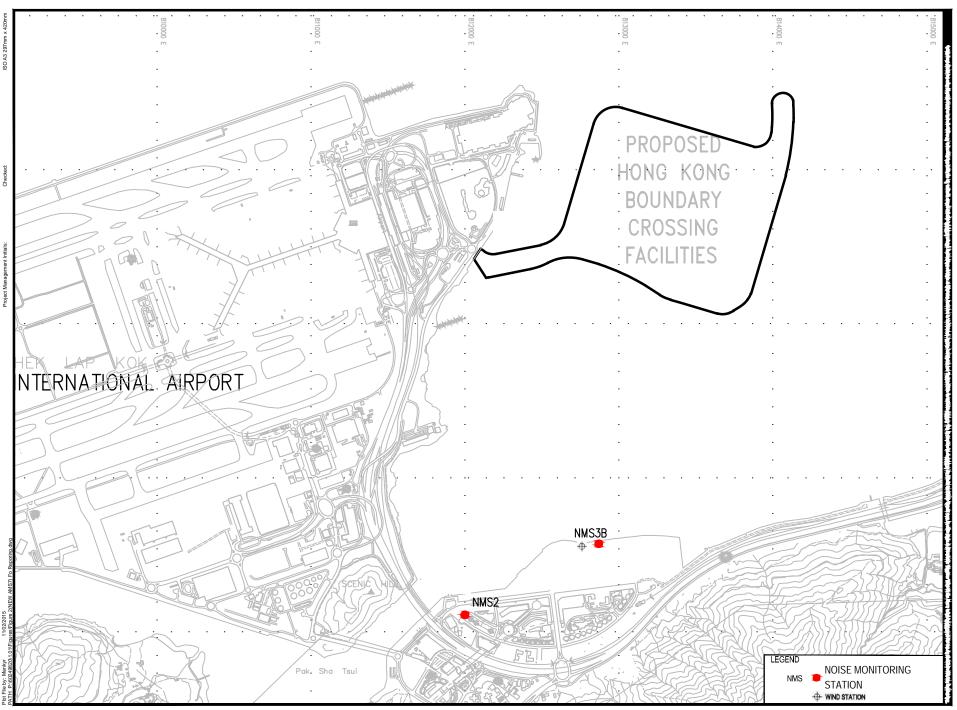
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Figure 2

Noise Monitoring Stations



AIR QUALITY AND NOISE MONITORING STATIONS FOR HKBCF

HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

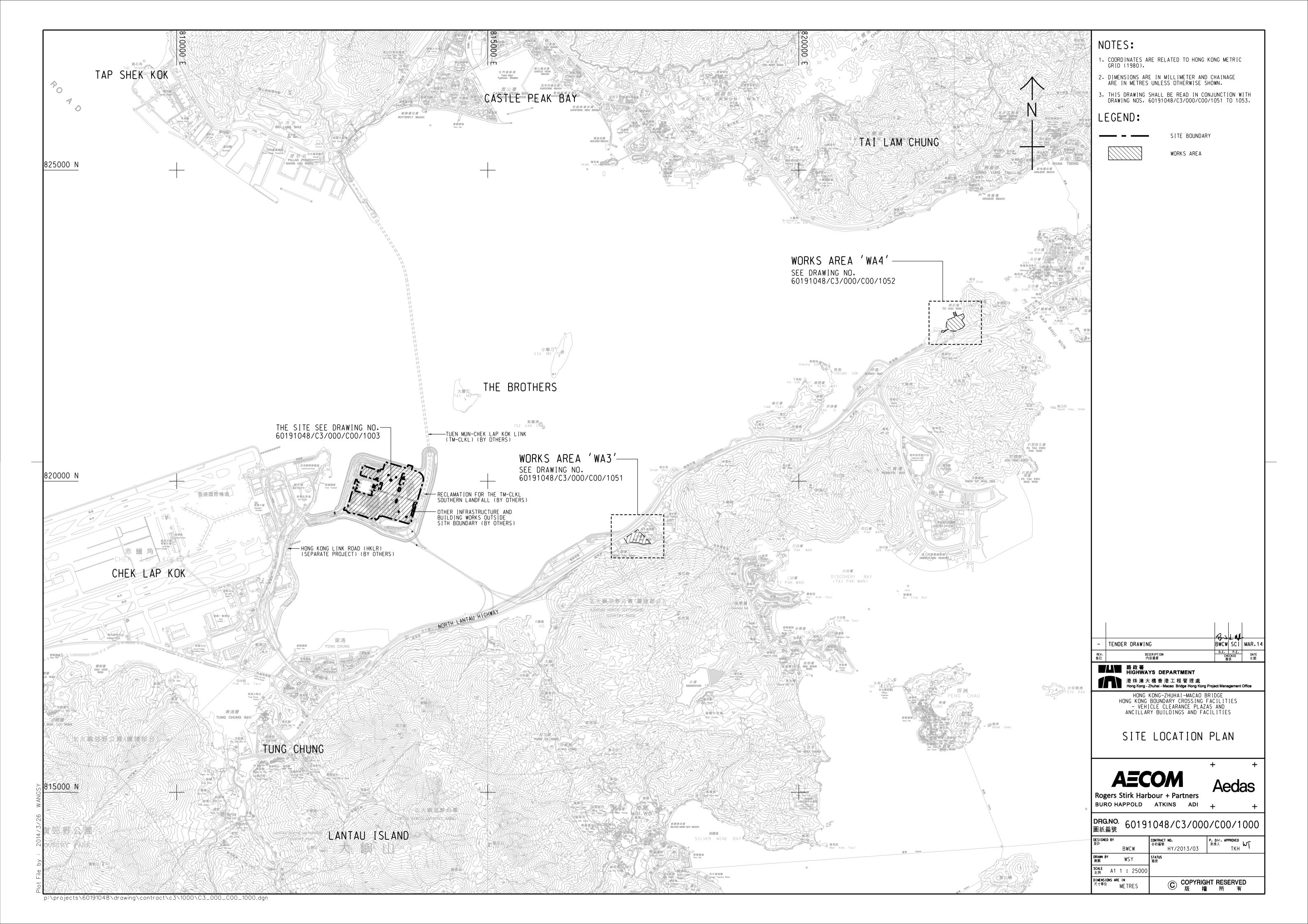
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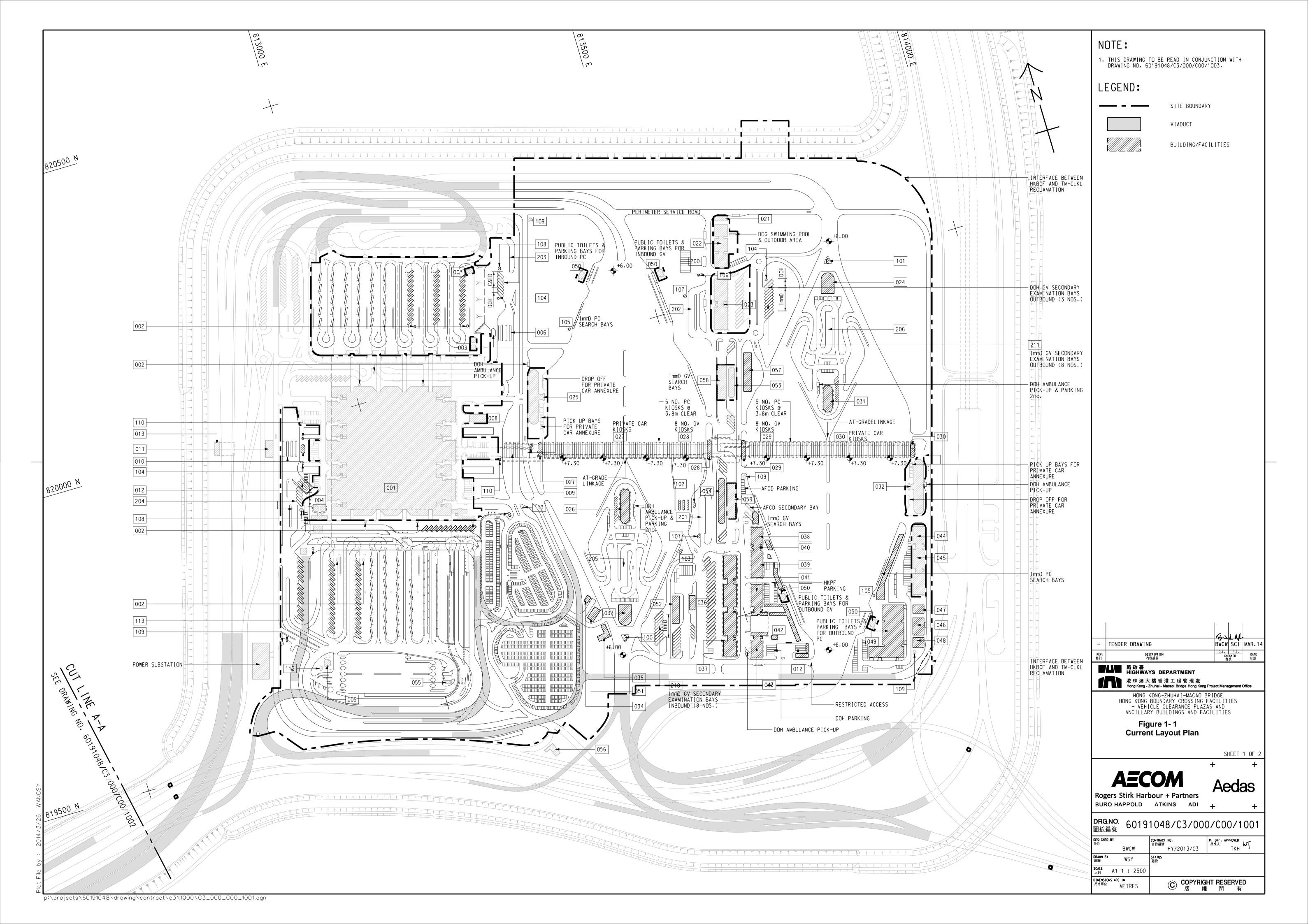


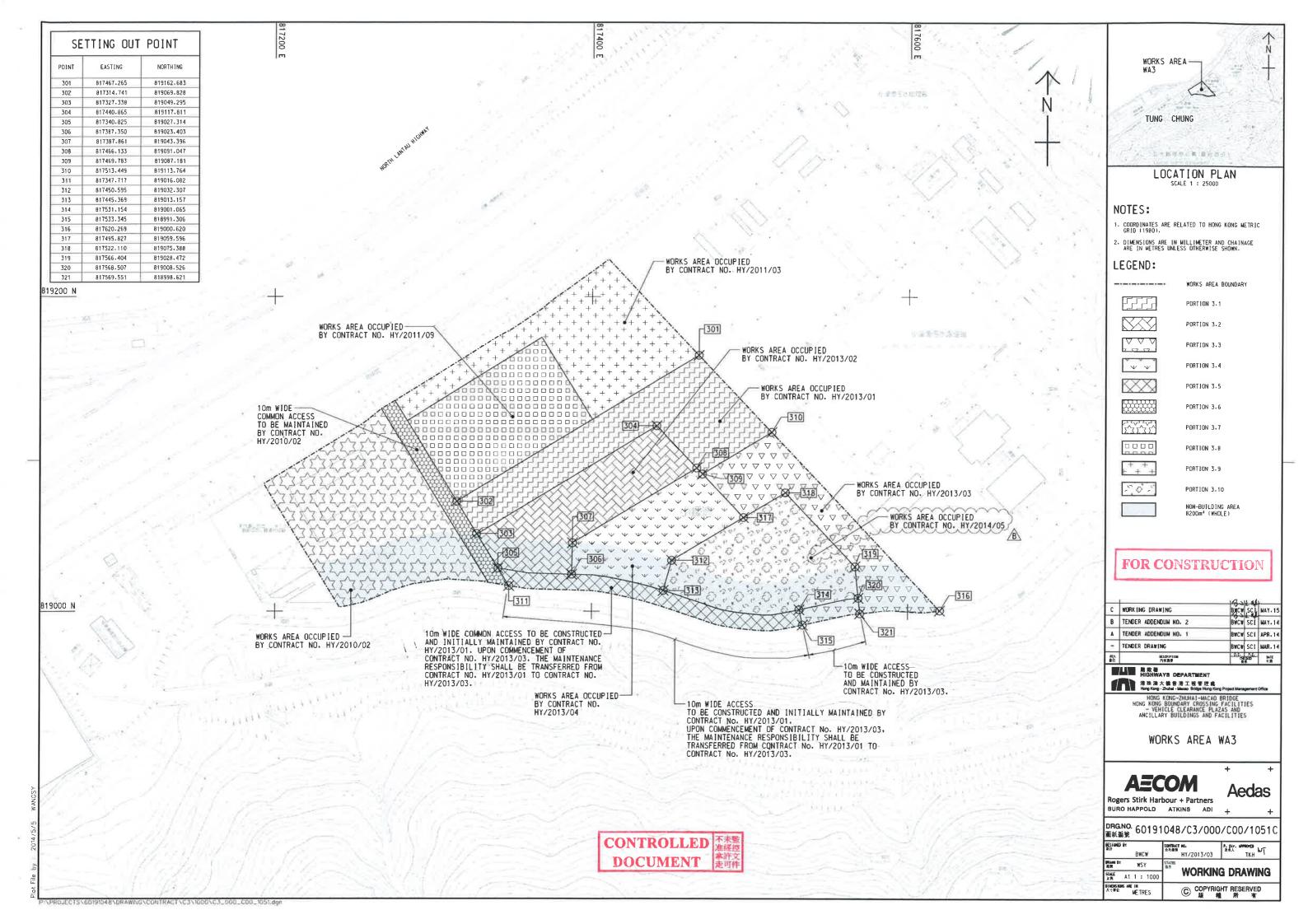
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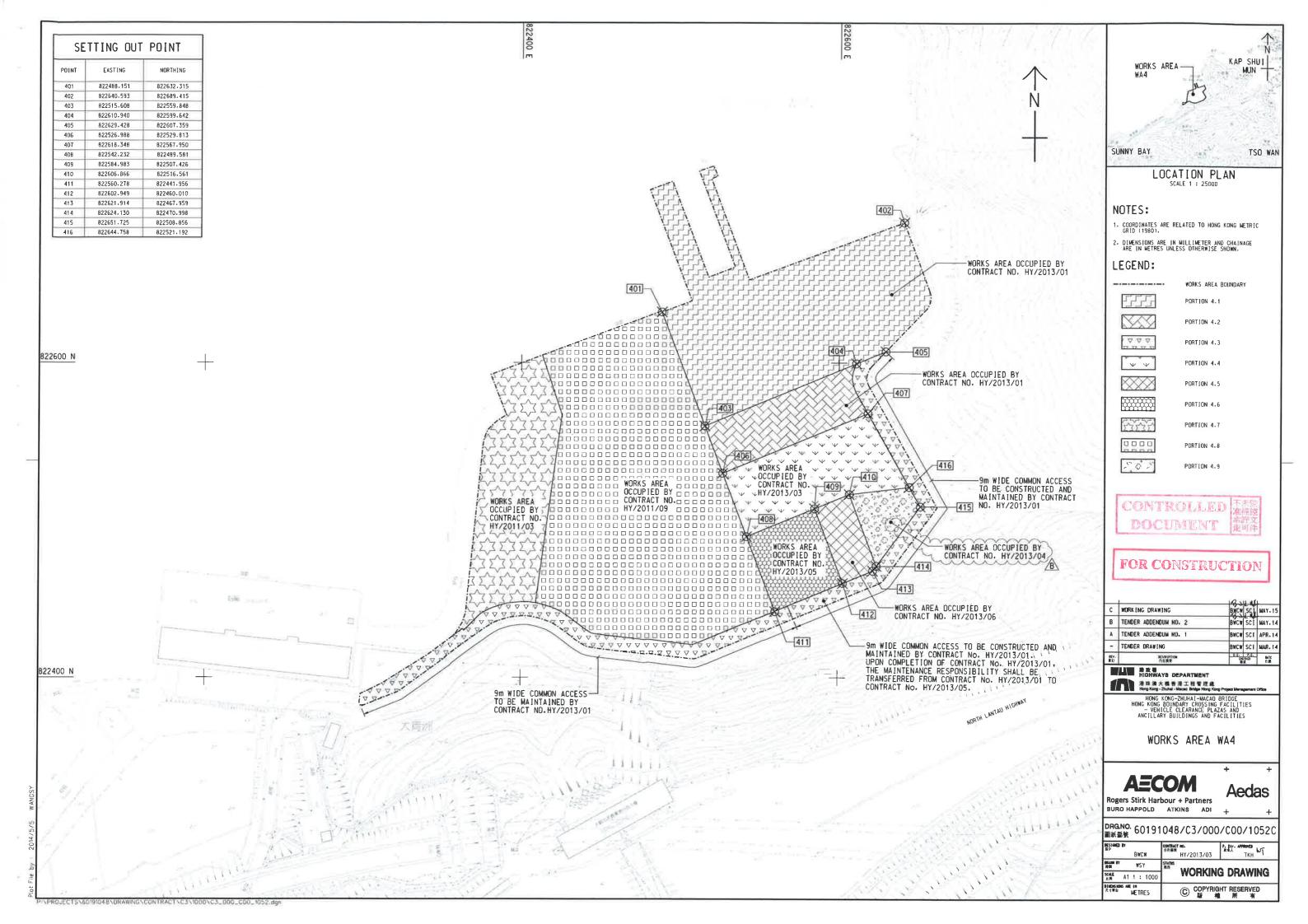
Appendix A

Location of Works Areas









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Appendix B

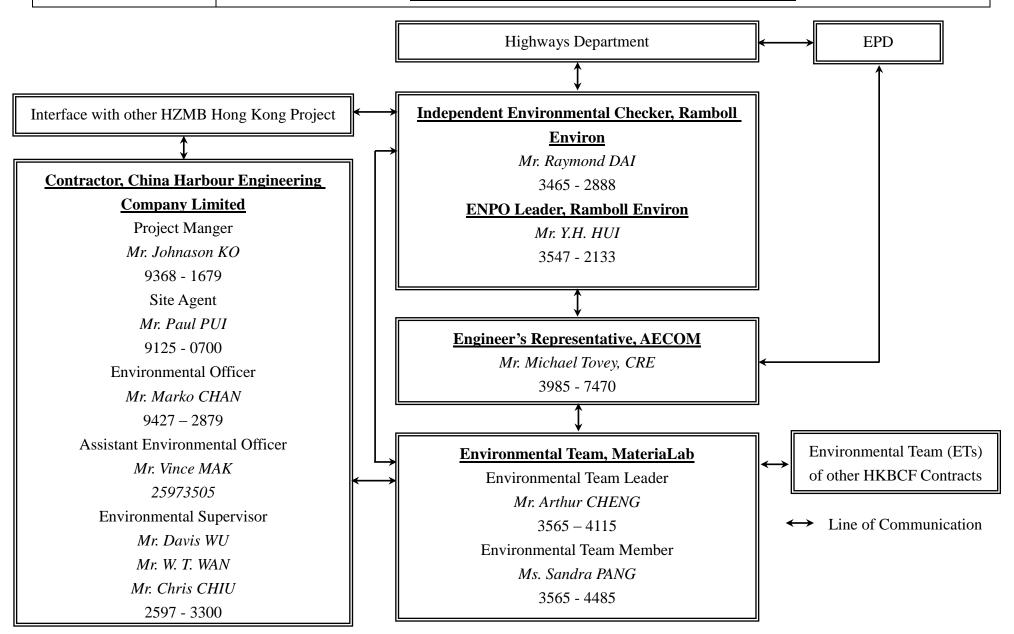
Project Organization for Environmental Works

CHINA HARBOUR ENGINEERING COMPANY LIMITED



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

Projects Organization for Environmental Works



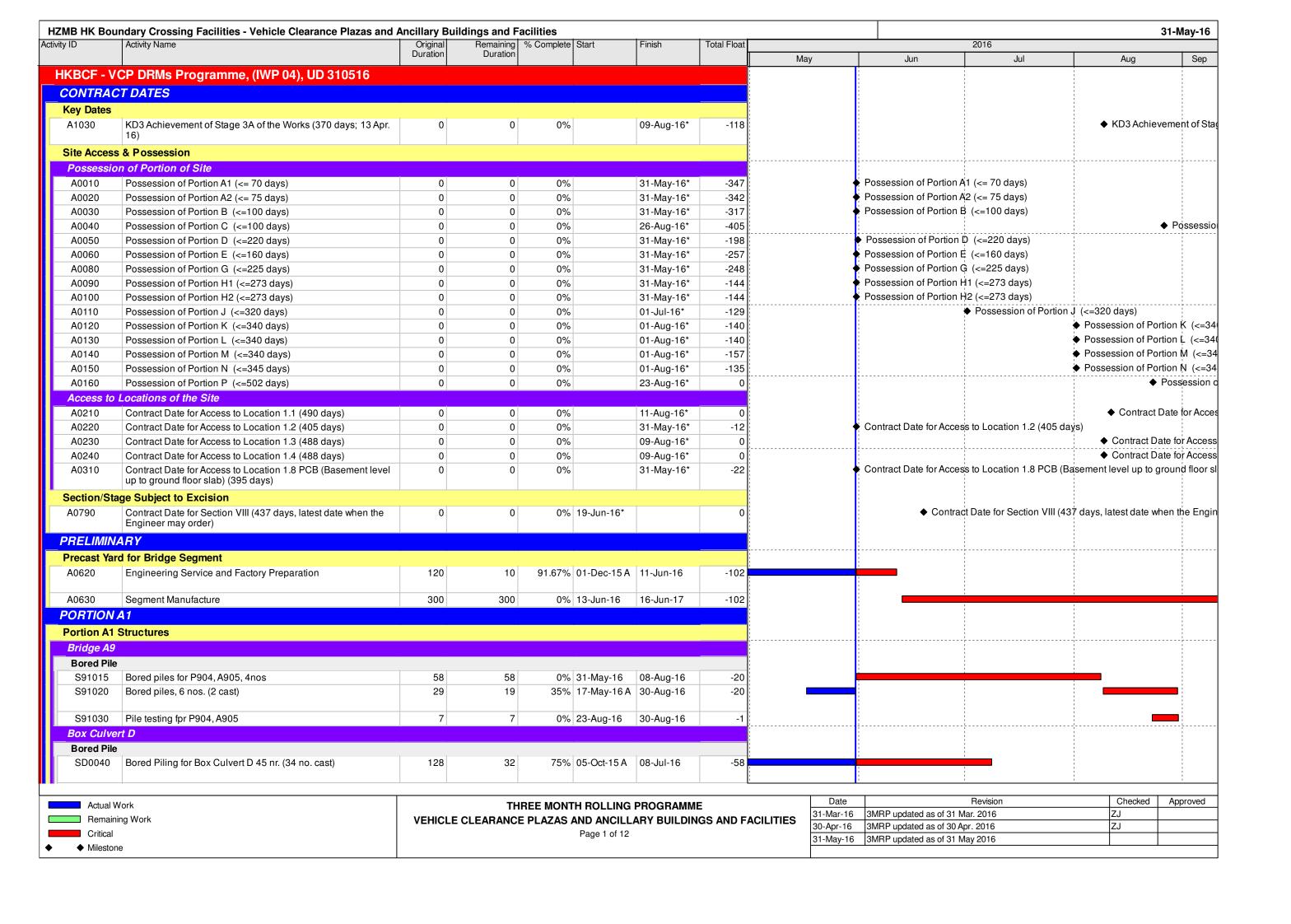
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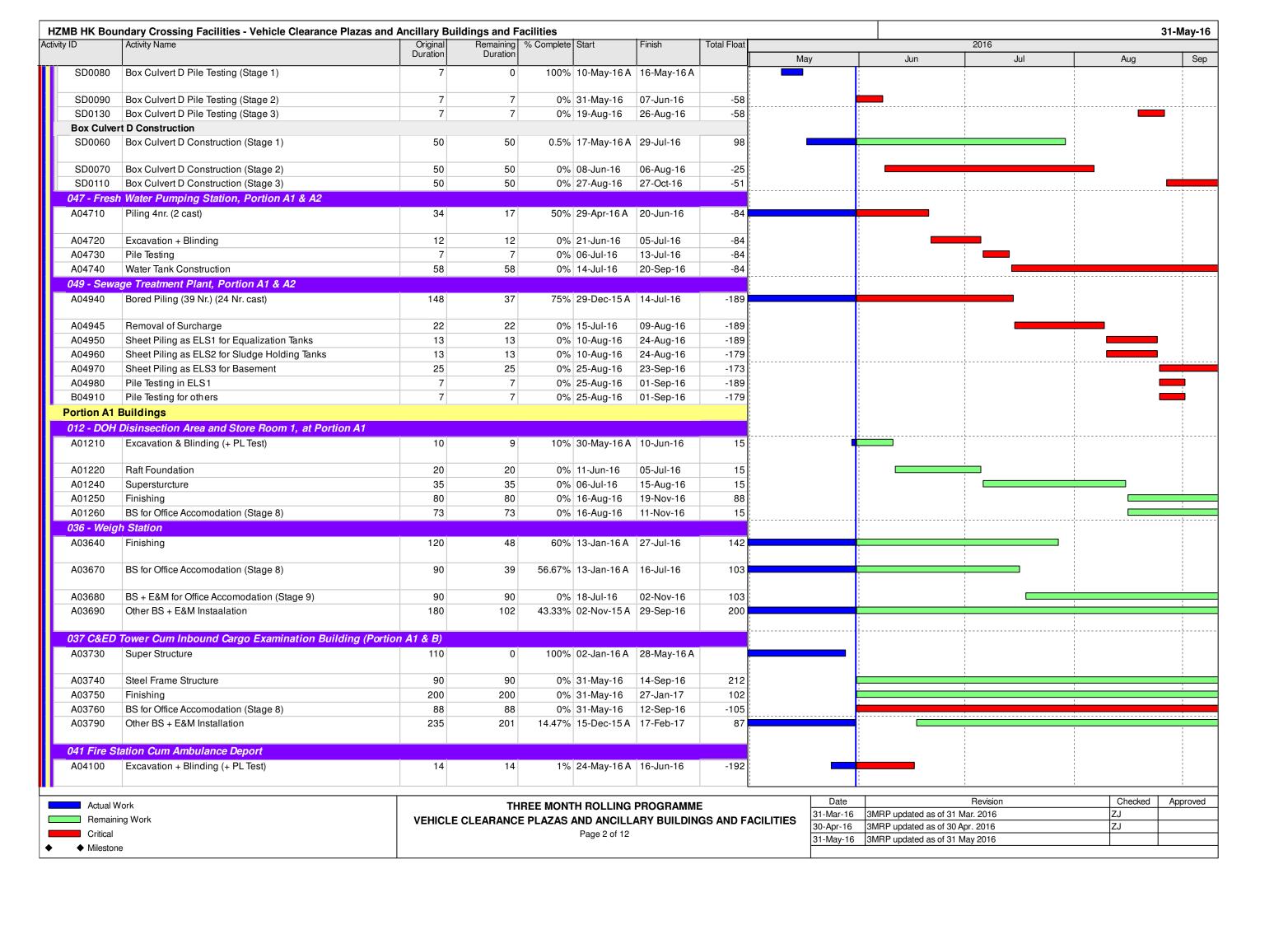


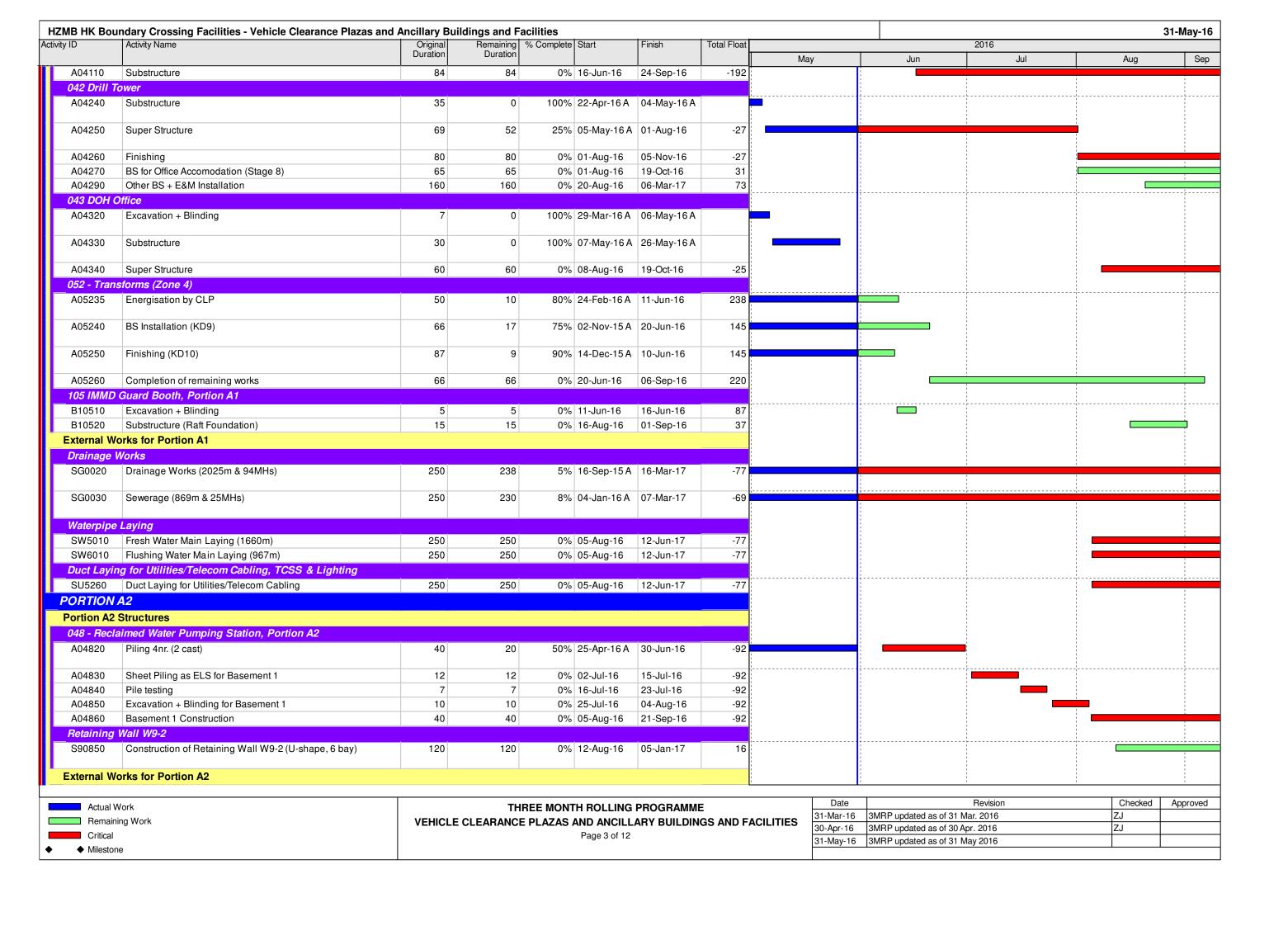
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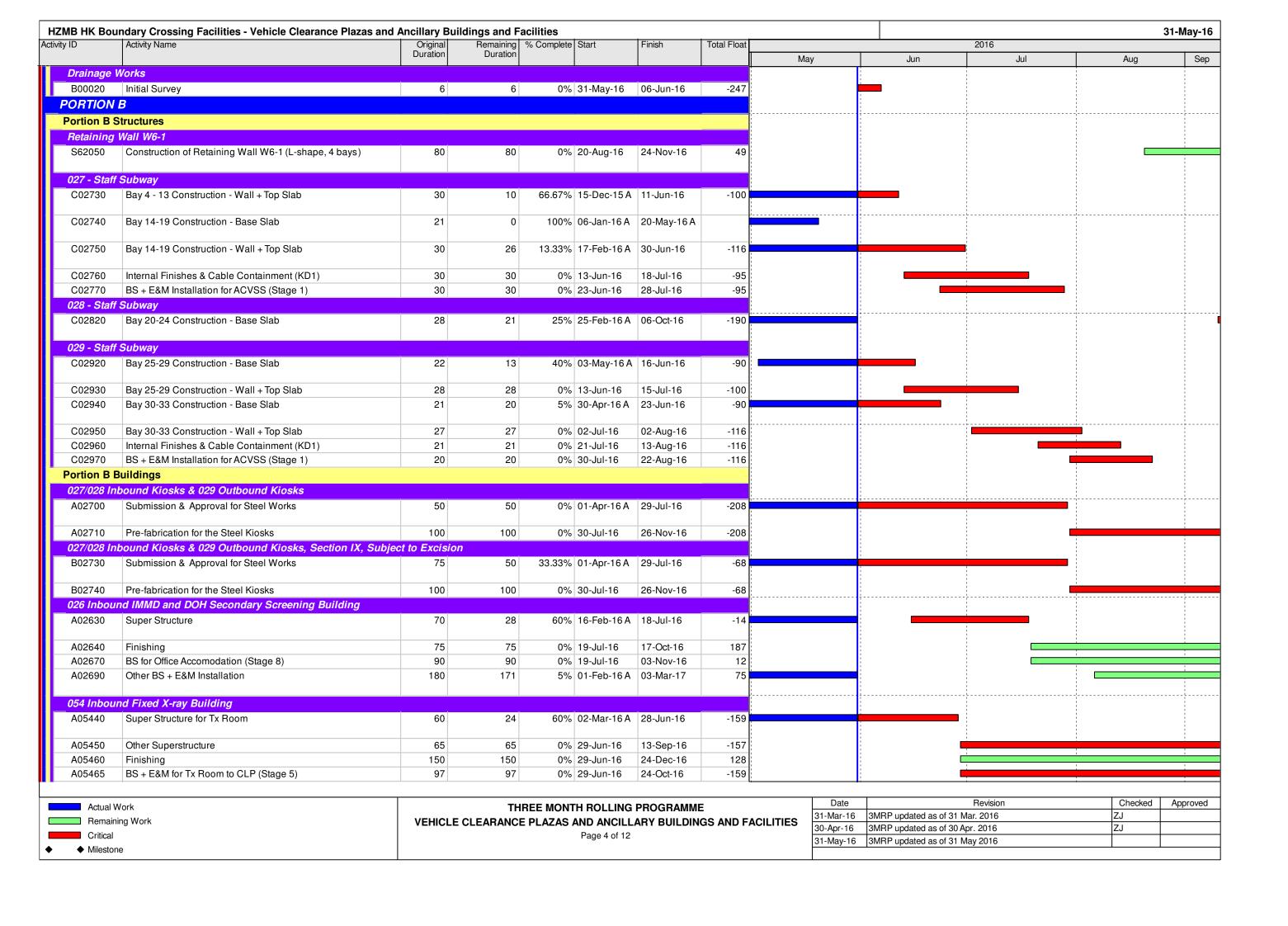
Appendix C

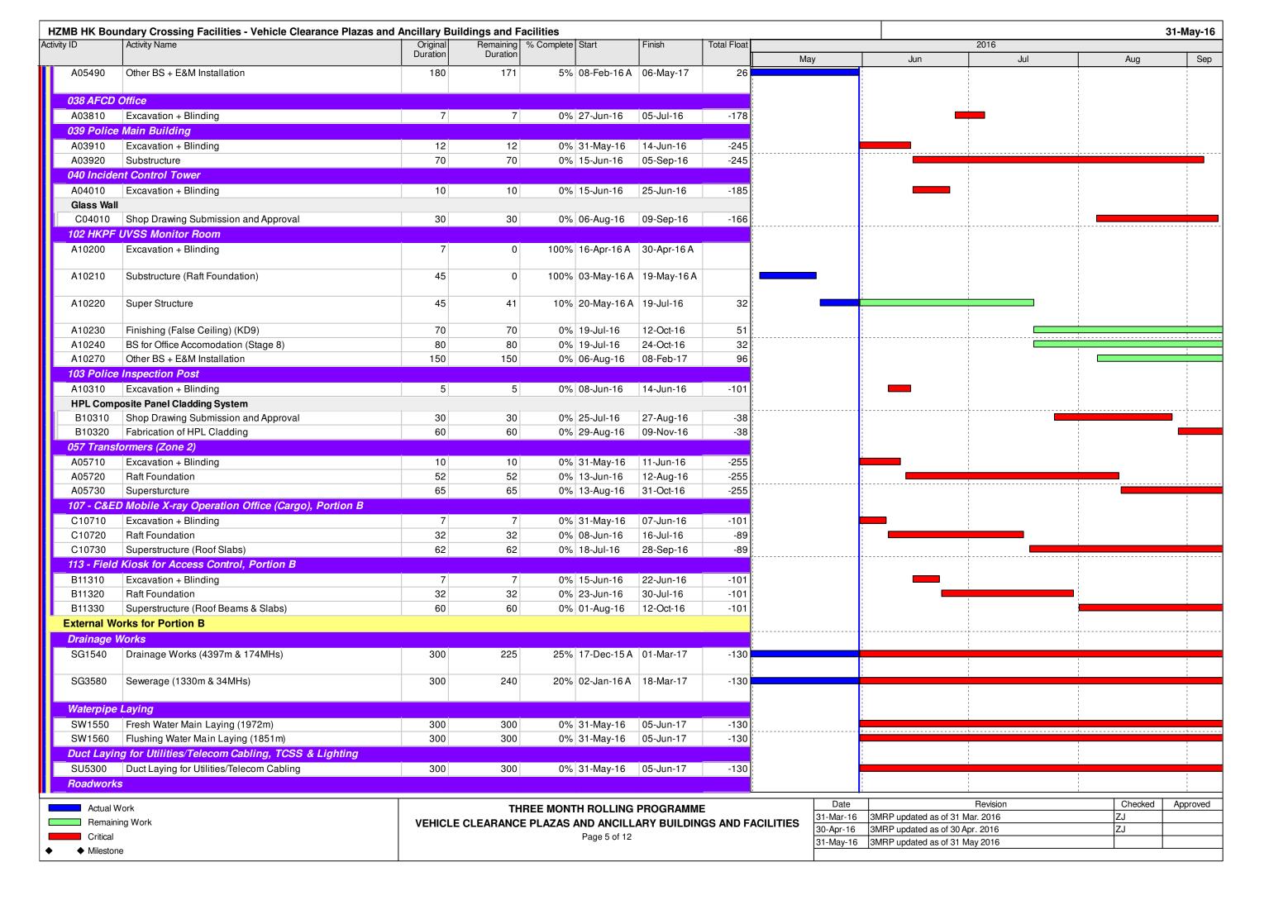
Construction Programme

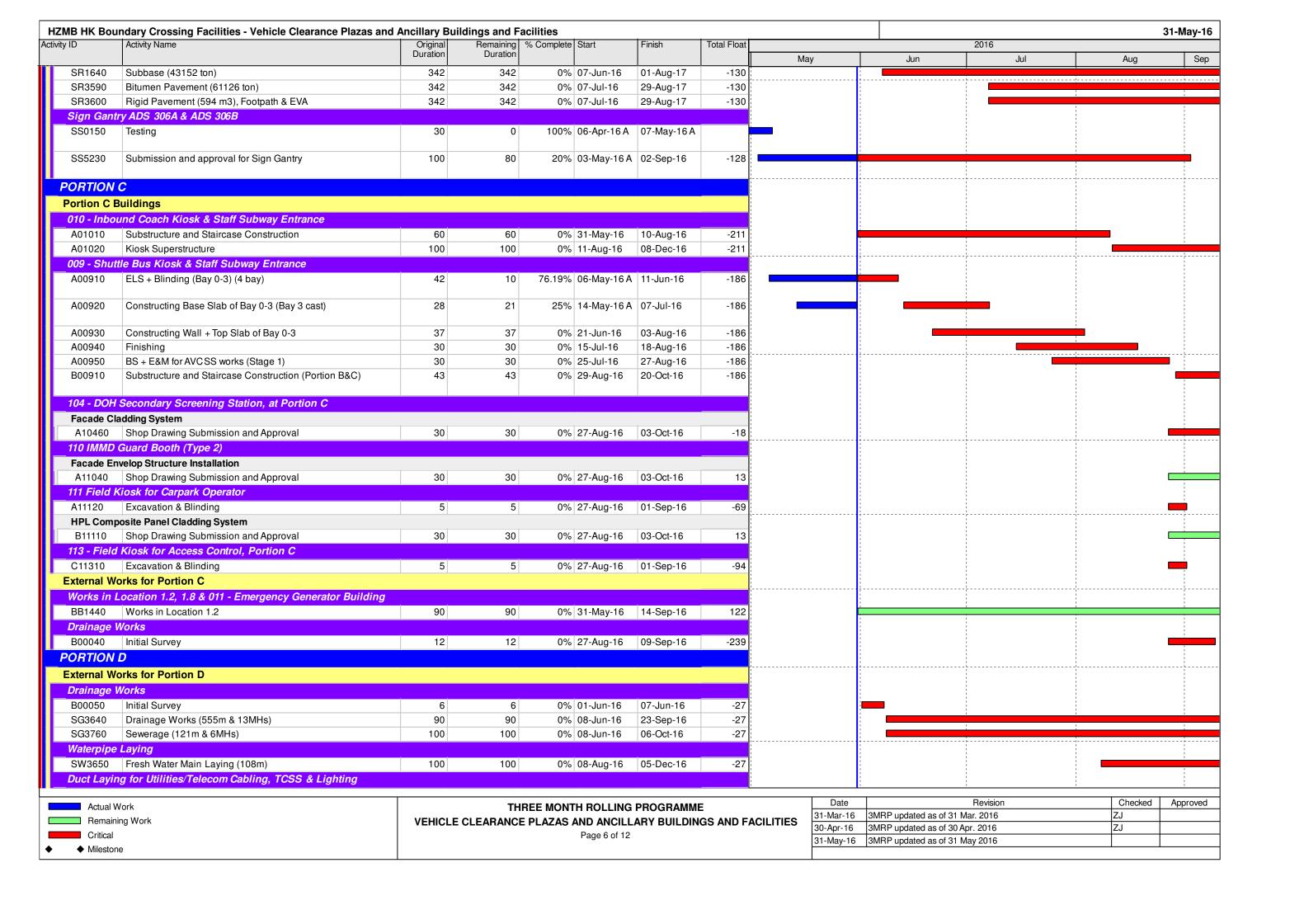


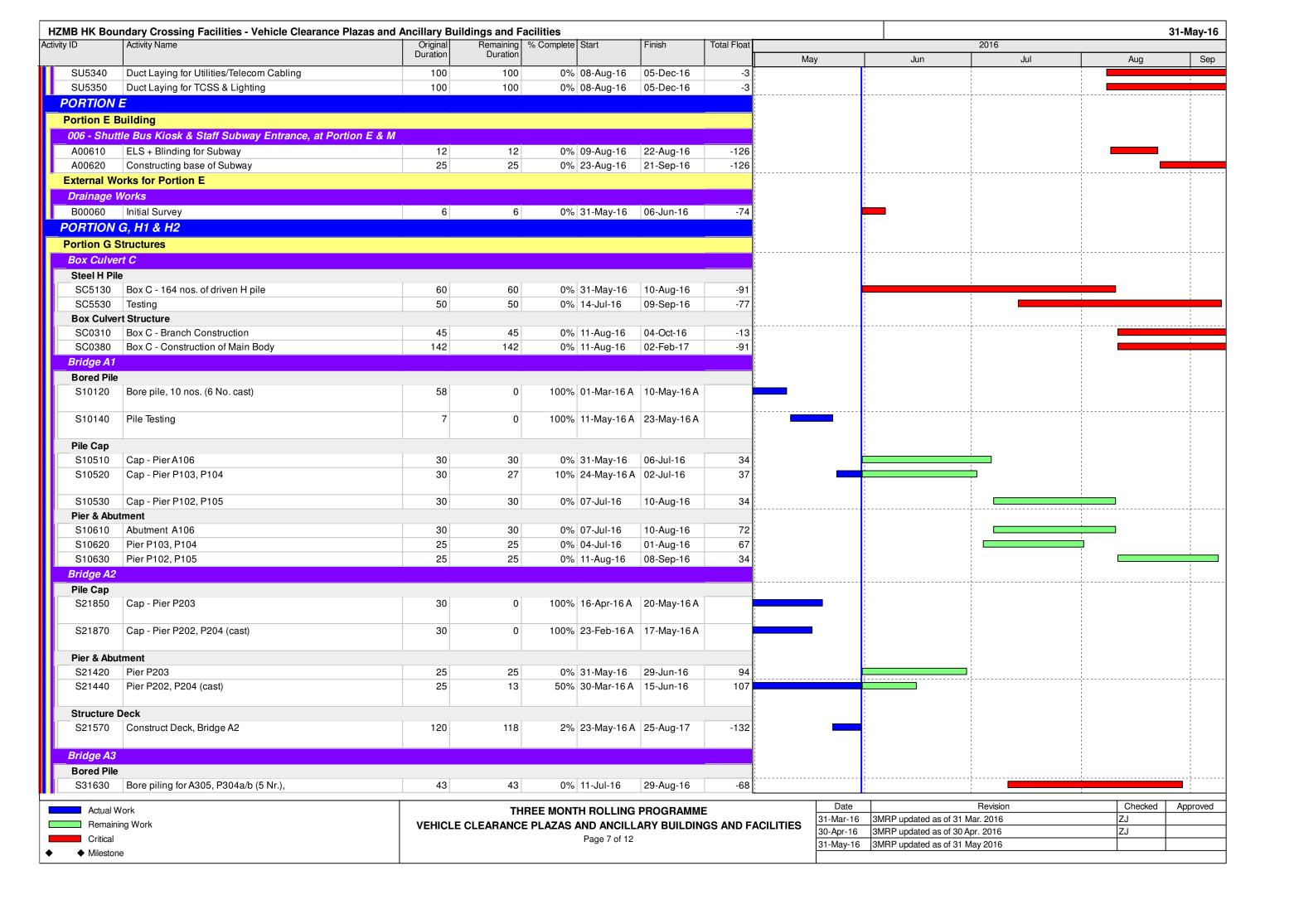


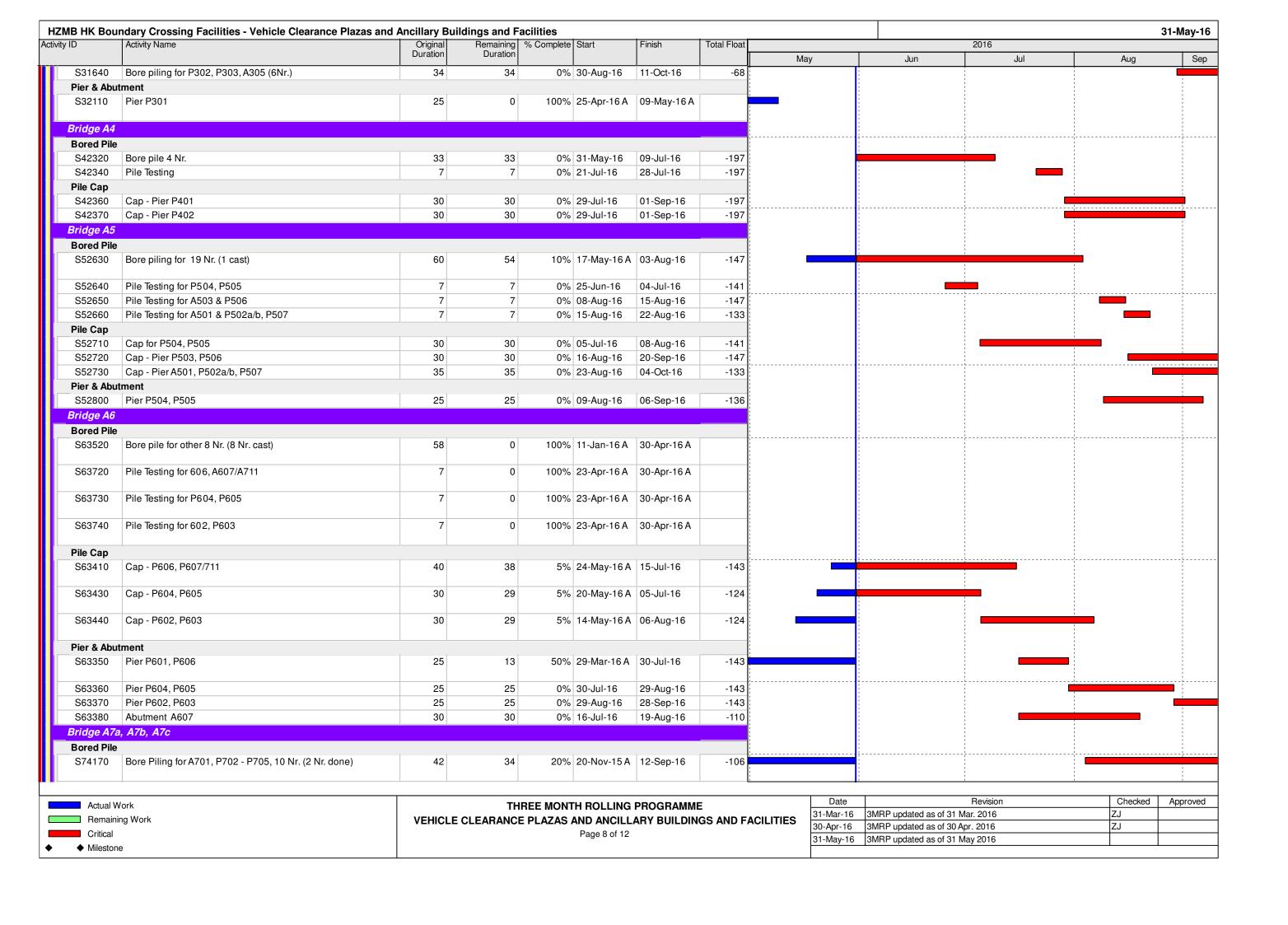


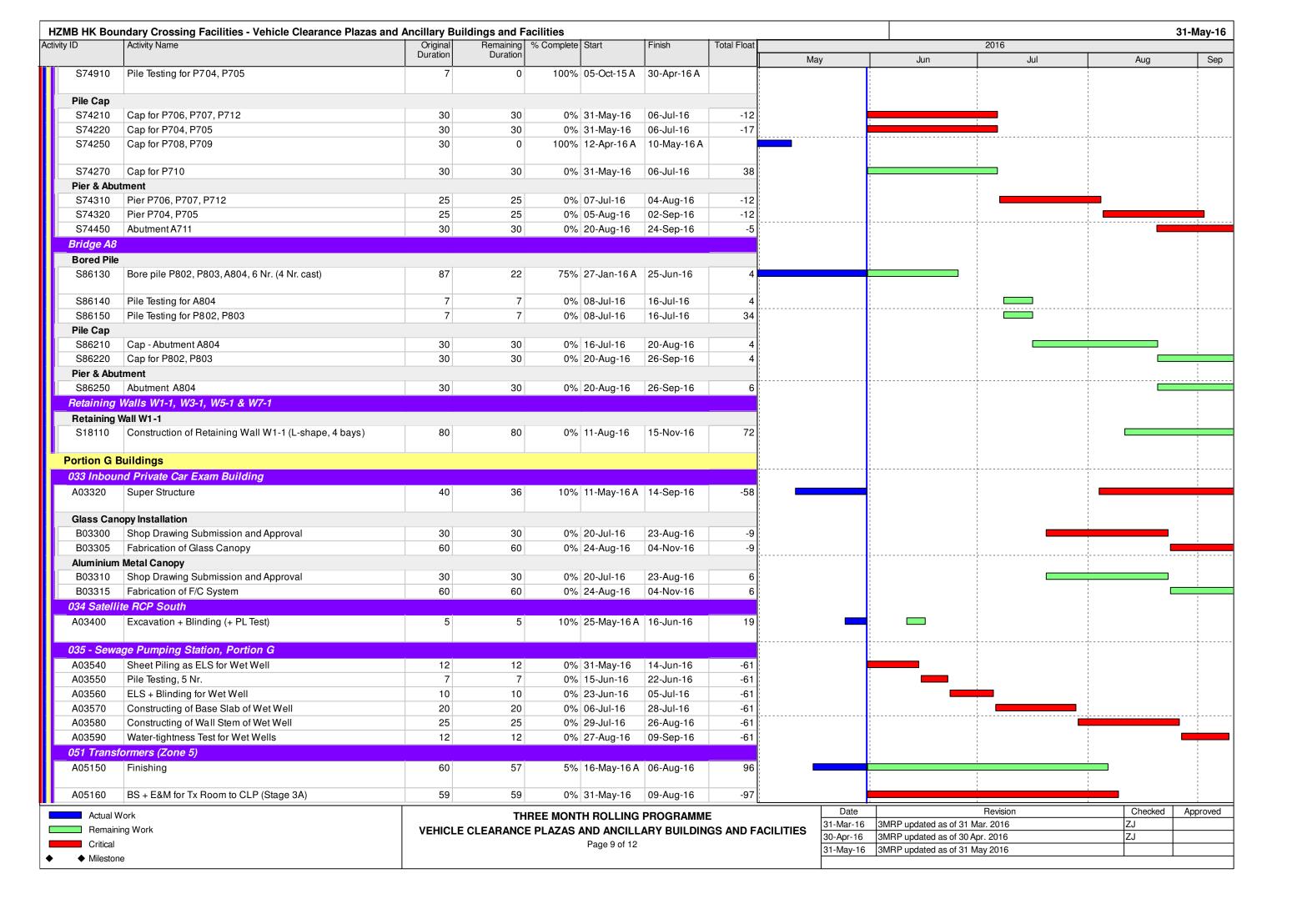


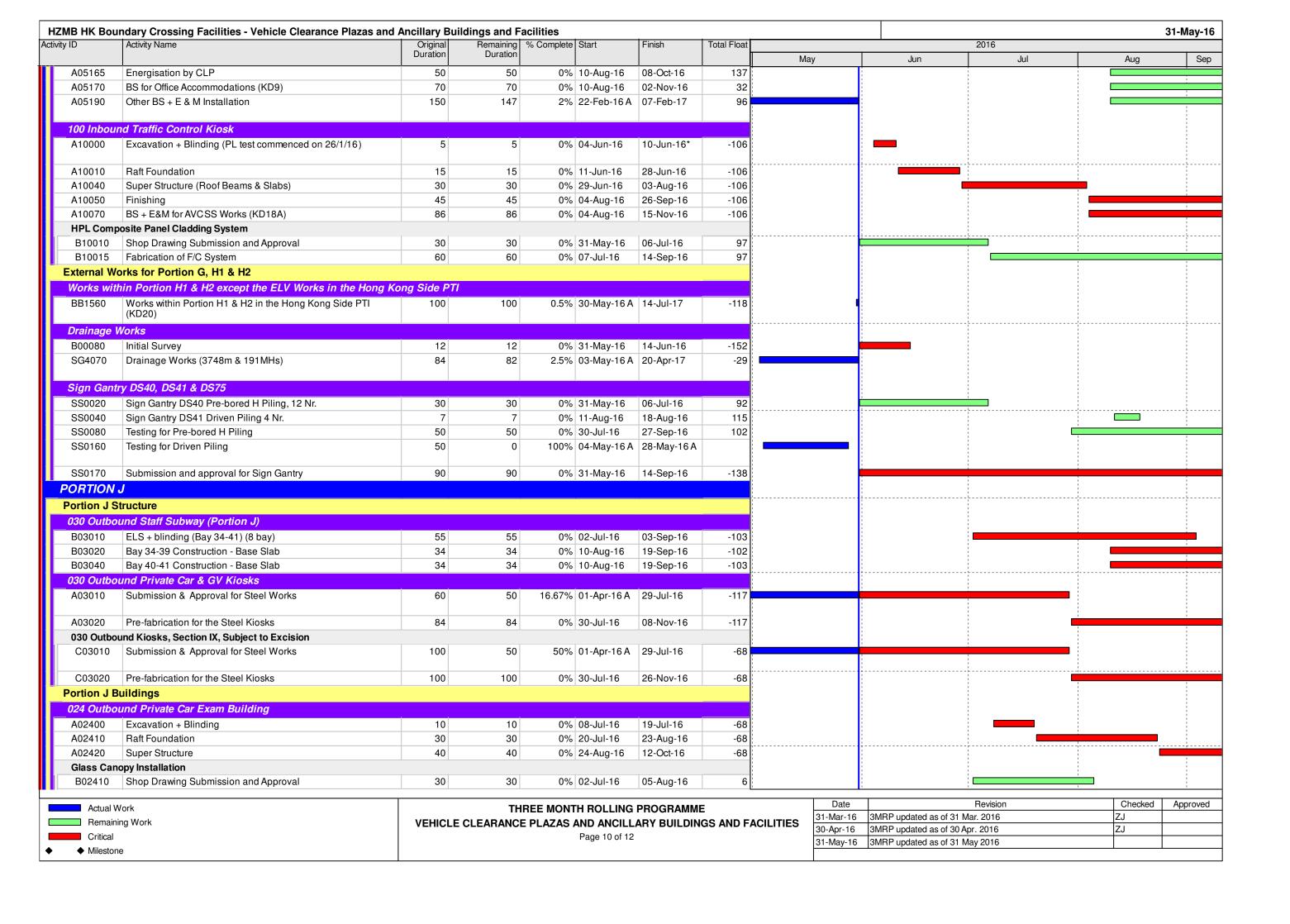


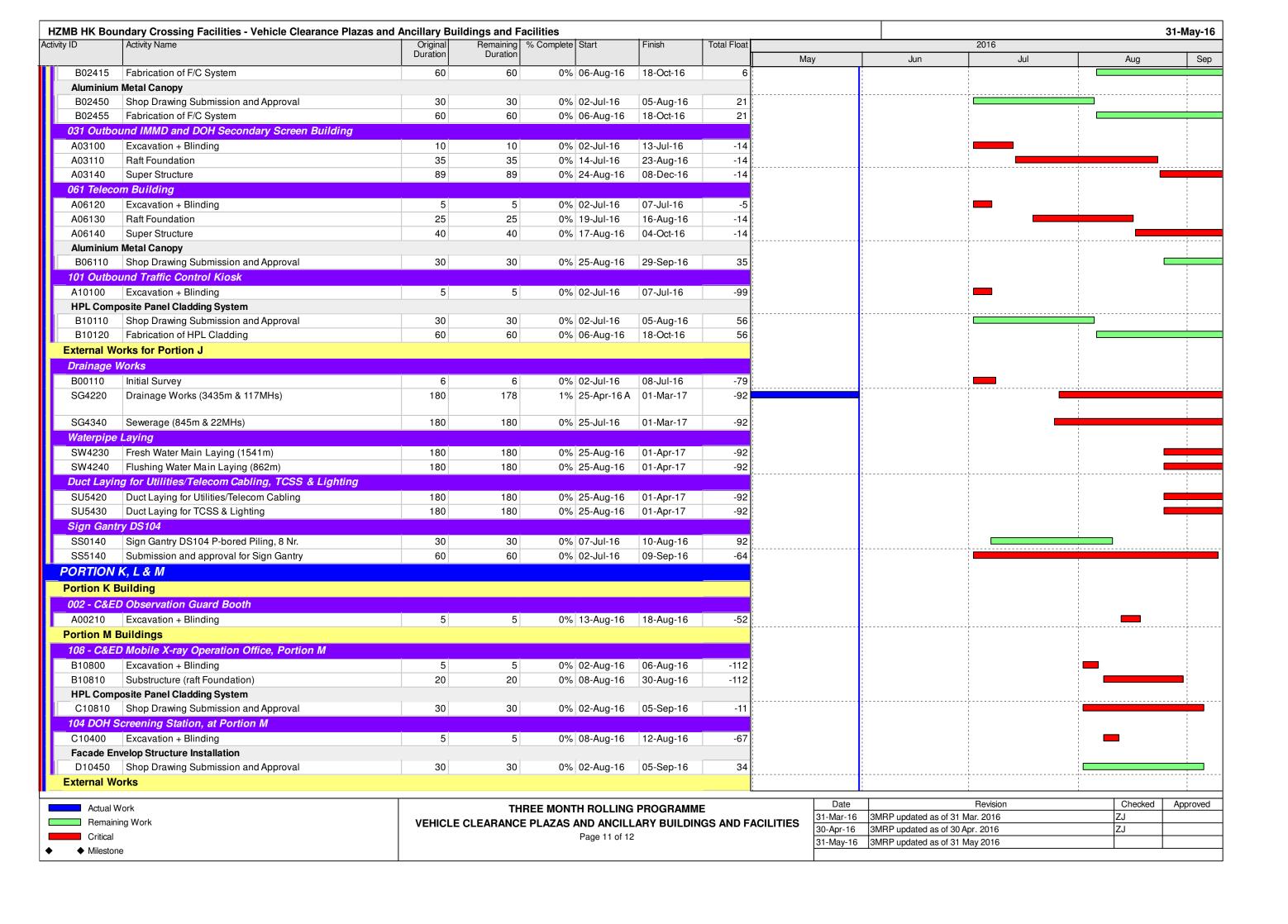


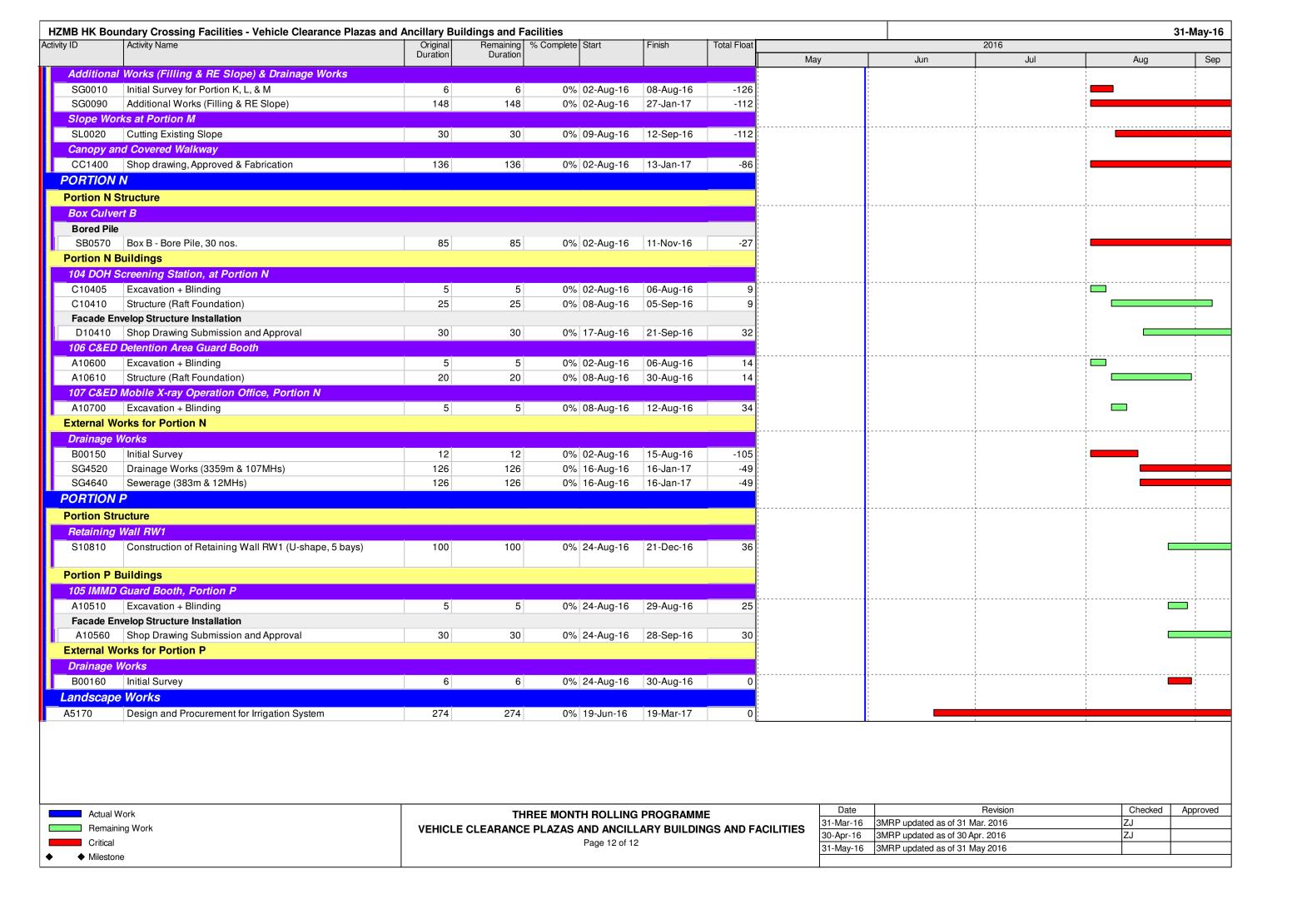












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Appendix D

Event / Action Plan

Appendix D -

Event / Action Plan for Air Quality and Noise Monitoring

Event / Action Plan for Air Quality

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

Event		Ac	tion	
	ET	IEC	ER	Contractor
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurement s to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedanc e continues, arrange meeting with IEC and ER; If exceedanc e stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementatio n of remedial measures. 	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

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

Event		Act	ion	
Event	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedances abated.

Event / Action Plan for Construction Noise Monitoring

Event	Action					
	ET	IEC	ER	Contractor		
Action Level	1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC,ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented.	1.Submit noise mitigation proposals to IEC; 2.Implement noise mitigation proposals.		

Event	Action					
	ET	IEC	ER	Contractor		
Limit Level	1.Inform IEC, ER, EPD and Contractor; 2.Identify source; 3.Repeat measurements to confirm findings; 4.Increase monitoring frequency; 5.Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6.Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7.Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8.If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1.Confirm receipt of notification of failure in writing; 2.Notify Contractor; 3.Require Contractor to propose remedial measures for the analysed noise problem; 4.Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.		

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MateriaLab

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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 2016 (year)

Name of Person completing the Record: Marko Chan

	Actual Qu	uantities of Ine	ert C&D Mater	ials Generate	d Monthly	Actual Quantities of Non-inert C&D Wastes Generated Monthl				ted Monthly
Month	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other	Disposed as Public Fill	Metals	Paper/ cardboard	Plastics	Chemical Waste	Others, e.g. general
	Contratou	(see Note 1)	ano cominaci	Projects	1 00101 111		packaging	(see Note 2)	Wasio	refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)
Jan	0.000	0	0	0	0.000	0	0.992	0	0	0.073
Feb	0.000	0	0	0	0.000	0	0	0	0	0.093
Mar	0.087	0	0	0	0.087	0	0.392	0	0	0.200
Apr	0.184	0	0	0	0.184	0	0.411	0	0	0.224
May	0.203	0	0	0	0.203	0	0	0	0	0.293
Jun										
Jul										
Aug										
Sept										
Oct										
Nov										
Dec										
Total	0.474	0.000	0.000	0.000	0.474	0.000	1.795	0.000	0.000	0.883

Notes: (1) Broken concrete for recycling into aggregates.

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

Monthly Summary of Excavated Marine Sediment for 2016 (year)

Month	Total Quantity of Excavated Marine Sediment Generated	Reused in this contract	Reused in other Projects	Disposed of at CMP
	in '000m ³	in '000m ³	in '000m ³ in '000m ³	
Jan	1.950	0	0	1.950
Feb	2.328	0	0	2.328
Mar	2.464	0	0	2.464
Apr	5.602	0	0	5.602
May	0	0	0	0
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Total	12.344	0.000	0.000	12.344

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Appendix F

Environmental Licenses and Permits

T.	D W. D W.	D 'AN	337 1 A	A 1' ' D '	I D	Valid	Date	G	Remark
Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	From	То	Status	
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	НКВСГ	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387703	Main Site Area	02-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	Ref No. 387735	Works Area WA3	02-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	14-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	24-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	24-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	28-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
8	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022391-2015	Main Site Area	05-May-15	04-Sept-15	04-Sept-15	30-Sept-20	Valid	
9	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0009-16	Portion G	02-Mar-16	16-Mar-16	21-Mar-16	20-Jul-16	Valid	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0244-16	Main Site Area	03-Mar-16	17-Mar-16	18-Mar-16	18-Jun-16	Valid	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0249-16	Main Site Area	03-Mar-16	17-Mar-16	19-Mar-16	18-Jun-16	Superseded by GW-RS0348-16	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0269-16	Floating Concrete Batching Plant	03-Mar-16	17-Mar-16	19-Mar-16	18-Jun-16	Valid	
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0348-16	Main Site Area	29-Mar-16	12-Apr-16	15-Apr-16	14-Jul-16	Valid	

Item	Parmit/Liganga Pagistration	Dormit No.	Work Area	Application Data	Icena Data	Valid Date		Status	Remark
Item	Fermit/Licence Registration	Permit/Licence Registration Permit No. Work Area Application Date Issue Date		From	То	Status			
14	Permit issued Under the Dumping at See Ordinance	EP/MD/17-007	East of Sha Chau		19-Apr-16	24-Apr-16	23-May-16	Valid until	
14	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-007	(CMP Vd)	08-Apr-16	19-Api-10	24-Apr-10	23-May-10	23-May-16	
1.5	Demait is and Hudenda Demains of Sec Onlinear	ED/MD/17 020	East of Sha Chau		10 M 16	24 Mars 16	22 I.a. 16	3 7-1: 1	
15	Permit issued Under the Dumping at Sea Ordinance	EP/MD/17-029	(CMP Vd)	06-May-16	19-May-16	24-May-16	23-Jun-16	Valid	

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Appendix G

Implementation Schedule for Environmental Mitigation Measures (EMIS)

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

S5.5.6.2 A2	A1 A2	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation 2) Proper watering of exposed spoil should be undertaken throughout the construction phase: • 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; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;	All construction sites All construction sites	V
S5.5.6.2 A2		requirements given in the Air Pollution Control (Construction Dust) Regulation 2) Proper watering of exposed spoil should be undertaken throughout the construction phase: 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; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from	construction sites All construction	·
	A2	throughout the construction phase: 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; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from	construction	V
S5.5.6.2 A2		 A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. 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; 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 		
	A2	 concrete, bituminous materials or hardcores; 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; 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, 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; 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; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top 	All construction sites	V
S5.5.6.2 A2	Δ2	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	All construction sites	N/A

EIA Ref.	EM&A	Recommended Mitigation Measures	Location of	Implementation
	Log Ref.		the measures	Status
		enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and • 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		
S5.5.6.3	A3	The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
\$5.5.6.4	A4	Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	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	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant; Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; 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; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point;	Selected Represent- ative dust monitoring station	N/A
		 All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and 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 		
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points	All construction sites	V
Construction			LAU	V
\$6.4.10	N1	1) Use of good site practices to limit noise emissions by considering the following: • only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; • 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; • plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; • silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		 mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
S6.4.11	N2	 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	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	Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1	N6	6) Implement a noise monitoring under EM&A programme.	Selected representat- ive noise monitoring station	V
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002	All	٧
		Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	construction sites	
S8.3.8	igement (C WM1	construction Waste) Construction and Demolition Material	All	V
		 The following mitigation measures should be implemented in handling the waste: Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and 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&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final 	construction sites	

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		disposal sites to the Project Proponent and get its		
S8.3.9- S8.3.11	WM2	approval before implementation C&D Waste Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&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. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	All construction sites	V
\$8.2.12- \$8.3.15	WM3	 Chemical Waste Chemical Waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 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. 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. 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. 	All construction sites	V
S8.3.16	WM4	Sewage 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.	All construction sites	V
S8.3.17	WM5	 General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. 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 	All construction sites	V

EIA Ref. EM&A Log		Recommended Mitigation Measures	Location of the	Implementation Status	
	Ref.		measures		
		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.			
Water Quali	ity (Constr	ruction Phase)	Į.	l	
S9.11.1.7	W2	Land Works	Land-based	V	
00.11.11	***	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			
		and after each rainstorm;			
		temporary access roads should be surfaced with crushed			
		stone or gravel;			
		rainwater pumped out from trenches or foundation overvitions about the discharged into ators drains via			
		excavations should be discharged into storm drains via			
		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;			
		 discharges of surface run-off into foul sewers must always 			
		be prevented in order not to unduly overload the foul			
	L	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	Recommended Mitigation Measures	res Location of		
	Log Ref.		the measures	Implementation Status	
	11011	washing bay and the public road should be surfaced with	mousures		
		crushed stone or coarse gravel;			
		wastewater generated from concreting, plastering, laternal decoration planning work and other similar.			
		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 wit the requirements of the WPCO or collected for off sit			
		disposal;			
		the contractors shall prepare an oil / chemical cleanup			
		plan and ensure that leakages or spillages are contained			
		and cleaned up immediately; • waste oil should be collected and stored for recycling or			
		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	nstruction	system. Phase)			
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	
		permitted works hours, using quieter machines where	works areas		
		practicable, and avoiding excessive lightings during night time			
S10.7	E8	Control vessel speed	Marine	V	
		Skipper training	Traffic		
		Predefined and regular routes for working vessels; avoid			
Eicharias	<u> </u>	Brother Islands.			
Fisheries S11.7	F4	Maritime Oil Spill Response Plan (MOSRP);	HKBCF	V	
		Contingency plan.			
Landscape		Detailed Design Phase)			
S14.3.3.1	LV1	General design measures include:	HKBCF	V	
		 Roadside planting and planting along the edge of the 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; • Protection measures for the trees to be retained during			
		construction activities;			
		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; 			
		 Providing salt-tolerant native trees along the planter strip 			
		at affected seawall and newly reclaimed coastline;			
		• 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			

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and • Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF.		
Landscape	& Visual (C			
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. G3. Not applicable as this is for HKLR. G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF G5. Vegetation reinstatement and upgrading to disturbed areas G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed G7. Providing planting area around peripheral of HKBCF for tree planting screening effect; G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. G9. Reserve of loose natural granite rocks for re-use, Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.	HKBCF	N/A
S14.3.3.3	LV3	Mitigate Visual Impacts V1. Minimize time for construction activities during construction period. V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.	HKBCF	N/A
EM&A	1		l .	<u> </u>
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	An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	All construction sites	V

Legend: V = implemented;

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Report No.: 0165/15/ED/0452

Appendix H

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Report No.: 0165/15/ED/0452

Appendix H -

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

		Cumulative Statistics	
Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	0	0	0
From commencement date of construction to end of reporting month	1	0	0

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Report No.: 0165/15/ED/0452

Appendix I

Environmental Site Inspection Schedule

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Report No.: 0165/15/ED/0452

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

Environmental Site Inspection Schoolule for May 2016

May-2016							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
1	2 Public Holiday	3	4	5	6 Environmental Site Inspection	7	
8	9	10	11	12	13 Environmental Site Inspection	14 Public Holiday	
15	16	17	18	19	20 Environmental Site Inspection	21	
22	23	24	25	26	27 Environmental Site Inspection	28	
29	30	31					

Tentative Environmental Site Inspection Schedule for June 2016

	Jun-2016							
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
			1	2	3 Environmental Site Inspection	4		
5	6	7	8	9 Public Holiday	10 Environmental Site Inspection	11		
12	13	14	15	16	17 Environmental Site Inspection	18		
19	20	21	22	23	24 Environmental Site Inspection	25		
26	27	28	29	30				