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Report No.: 0165/15/ED/0365

QUARTERLY ENVIRONMENTAL MONITORING & AUDIT REPORT (Rev. 1)

December 2015 to February 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/0365

Prepared by: Sandra Pang

Reviewed by: Bong Yu

Certified by:

A handwritten signature in black ink, appearing to read "Arthur Cheng". The signature is written over a horizontal line.

Arthur Cheng
Environmental Team Leader

20 April 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
Quarterly EM&A Report No.2 for December 2015 to February 2016**

Reference is made to the Environmental Team's submission of Quarterly Environmental Monitoring & Audit Report No.2 for December 2015 to February 2016 (Rev. 1) certified by the ET Leader (ET's ref.: "MCL/ED/0206/2016/C" dated 19 April 2016) and provided to us via e-mail on 19 April 2016.

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

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

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



Raymond Dai
Independent Environmental Checker

c.c.	HyD	Mr. 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, CL, ENPO Site

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Date 19 April 2016
Our Ref. MCL/ED/0206/2016/C

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

BY HAND

Attn.: Mr. Raymond Dai, IEC

Dear Sir,

**Quarterly EM&A Report for December 2015 to February 2016
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –
Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)**

Pursuant to Section 16.4 of the updated EM&A Manual for Hong Kong Boundary Crossing Facilities (Version 1.0) covering the captioned contract, we are pleased to submit the certified Quarterly EM&A Report for December 2015 to February 2016 (Rev.1) for your verification.

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

Yours faithfully,
for and on behalf of
MATERIALAB CONSULTANTS LIMITED



Arthur Cheng
Environmental Team Leader

AC/by

Encl.

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

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EXECUTIVE SUMMARY

This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities” (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 MaterialLab 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/J, was issued on 25 February 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.

MaterialLab 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 2nd Quarterly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 1 December 2015 to 29 February 2016 (the “reporting period”).

Environmental Monitoring and Audit Progress

The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 “Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works” and Contract No. HY/2011/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF”. The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO’s final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection during the reporting period are listed below:

Environmental Site Inspection:

- 3, 10, 17, 23 and 31 December 2015
- 7, 14, 20 and 28 January 2016
- 4, 12, 18 and 26 February 2016

Breaches of Action and Limit Levels

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

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7A for December 2015, AMS7 for January 2016 and February 2016 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

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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

The relocation of air monitoring station AMS7A (Chu Kong Air-Sea Union Transportation Co. Ltd.) back to the original location AMS7 (Hong Kong SkyCity Marriott Hotel) was approved by EPD. The relocation was completed in 30 December 2015 and the air monitoring at AMS7 was started from January 2016.

The application for variation of EP for the HZMB HKBCF Project was made on 18 February 2016 and granted by EPD on 25 February 2016, and the latest EP No. for the HZMB HKBCF Project is EP-353/2009/J.

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1. INTRODUCTION

1.1 Basic Project Information

1.1.1 This Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities” (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 MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

1.1.2 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/J, was issued on 25 February 2016. These documents are available through the EIA Ordinance Register. Commencement of the Contract took place on 10 April 2015 and the construction works commenced on 29 August 2015. The works areas of the contract are shown in **Appendix A**.

1.1.3 This is the 2nd Quarterly EM&A Report summarising the findings of EM&A activities conducted under the Contract from 1 December 2015 to 29 February 2016 (the “reporting period”) and is submitted to fulfil Condition 16.4 of the Updated EM&A Manual for HKBCF.

1.2 Project Organisation

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

Table 1.1 Contact Information 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 (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	5236 7111	--

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1.3 Construction Programme

1.3.1 The Construction Works Programme of the Project is provided in **Appendix C**.

1.4 Construction Works undertaken during the Reporting Period

1.4.1 A summary of the construction activities undertaken during this reporting period is shown below:

December 2015

- Site Investigation at Portion A1, A2 & G;
- Piling at Portion A1, A6, A7a;
- Building & Drainage at Portion A1; and
- CUE Construction at Portion B.

January 2016

- Site Investigation at Portion A1, J & G;
- Piling at Portion A1, STP, Pumping Station, B & G (Bridge A1, AS2, A6 & A7a);
- Building at Portion A1 & G;
- Drainage at Portion B;
- CUE Construction at Portion B; 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.

February 2016

- Site Investigation at Portion A1, J & G;
- Piling at Portion A1, STP, Pumping Station, B & G (Bridge A1, AS2, A6 & A7a);
- Building at Portion A1, B & G;
- Drainage at Portion B;
- CUE Construction at Portion B; 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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2. EM&A REQUIREMENTS

2.1 Summary of EM&A Requirements

2.1.1 The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

2.1.2 A summary of air and noise monitoring locations are presented in **Table 2.1**. The location of air quality and noise monitoring stations are shown as in **Figure 1** and **Figure 2**, respectively. The relocation of air monitoring station AMS7A (Chu Kong Air-Sea Union Transportation Co. Ltd.) back to the original location AMS7 (Hong Kong SkyCity Marriott Hotel) was approved by EPD. The relocation was completed in 30 December 2015 and the air monitoring at AMS7 was started from January 2016.

Table 2.1 Air Quality and Noise Monitoring Locations

Environmental Monitoring	Identification No.	Location Description
Air Quality	AMS6(1)	Dragonair/CNAC (Group) Building (A80)
	AMS7(1)	Hong Kong SkyCity Marriott Hotel
	AMS7A(1)	Chu Kong Air-Sea Union Transportation Co. Ltd.
Noise	NMS2(2)	Seaview Crescent
	NMS3B(2) (3)	Site Boundary of Site Office Area at WA2

Remarks:

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

2.2 Monitoring Requirements

2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02 and HY/2011/03.

2.3 Action and Limit Levels

2.3.1 The Action and Limit Levels for 1-hr TSP and 24-hr TSP are provided in **Table 2.2** and **Table 2.3** respectively.

Table 2.2 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS6	360	500
AMS7	370	
AMS7A	370	

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Table 2.3 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level (µg/m³)	Limit Level (µg/m³)
AMS6	173	260
AMS7	183	
AMS7A	183	

2.3.2 If exceedance(s) at these stations is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the quarterly EM&A Report.

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

Table 2.4 Action and Limit Level for Construction Noise

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

Notes:

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

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

2.3.4 If exceedance(s) at these stations is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the quarterly EM&A Report.

2.4 Event and Action Plans

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

2.5 Mitigation Measures

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

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3. ENVIRONMENTAL MONITORING AND AUDIT

3.1 Air Quality Monitoring Results

- 3.1.1 The monitoring results for AMS6, AMS7A for December 2015, AMS7 for January 2016 and February 2016 are reported in the monthly EM&A Reports (for December 2015, January 2016 and February 2016) prepared for Contract Nos. HY/2011/03 and HY/2010/02 respectively.
- 3.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for December 2015, January 2016 and February 2016) prepared by Contract No. HY/2011/03.
- 3.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7A for December 2015, AMS7 for January 2016 and February 2016 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

3.2 Noise Monitoring Results

- 3.2.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports (for December 2015, January 2016 and February 2016) prepared for Contract No. HY/2010/02.
- 3.2.2 No noise exceedances were recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

3.3 Water Quality Monitoring Results

- 3.3.1 There was no marine works conducted during the reporting period and therefore, no relevant monitoring result is reported. However, ET of the Contract shall closely monitor on the status of marine works, which shall conduct monitoring when marine works commence in the future.
- 3.3.2 The ET of the Contract is required to conduct impact water quality monitoring as part of EM&A programme if water quality monitoring is no longer covered by another ET of the HZMB project. The ETL shall review and obtain IEC, ENPO and EPD agreement on the contract specific water quality monitoring works at least a month before the commencement of any marine works.
- 3.3.3 With respect to condition 3.26A of EP-353/2009/J approved by EPD on 25 February 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. No floating grout production facilities and floating concrete batching plants were operated on-site during the reporting period.

3.4 Ecology Monitoring Results

- 3.4.1 There was no marine works conducted, which impacted to the ecology during the reporting period and therefore, no relevant monitoring result is reported. However, ET of the Contract shall closely monitor on the status of marine works, which shall conduct monitoring when marine works commence in the future.
- 3.4.2 The ET of the Contract is required to conduct ecology monitoring as part of EM&A programme if ecology monitoring is no longer covered by another ET of the HZMB project. The ETL shall review and obtain IEC, ENPO, AFCD and EPD agreement on the contract specific marine ecology monitoring works at least a month before the commencement of any marine works.

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3.4.3 With respect to condition 3.26A of EP-353/2009/J approved by EPD on 25 February 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. No floating grout production facilities and floating concrete batching plants were operated on-site during the reporting period.

3.5 Implementation of Environmental Measures

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

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

3.5.3 Implementation status of Regular Marine Travel Route Plan (RMTRP) was checked. 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 2016 and February 2016 were provided to ER, ETL, IEC/ENPO for checking within the month of March 2016.

3.6 Advice on the Solid and Liquid Waste Management Status

3.6.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

3.6.2 No extracted marine sediment was treated using cement solidification/stabilisation (Cement S/S) techniques under Contract No. HY/2013/03 during this reporting period. The marine sediment extracted from this Contract was disposed to the Marine Fill Committee (MFC) allocated disposal sites directly without treatment during this reporting period. As a practical means, the disposal operation is managed by one contractor who is also responsible for applying dumping permit and its subsequent extension applications from EPD. Contract No. HY/2013/03 has been assigned to coordinate and arrange for disposal of extracted marine sediment from all three Contracts (Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04).

3.6.3 The barge for disposal of marine sediment was 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.

3.6.4 During dumping, Contractor of Contract No. HY/2013/03 is responsible for transporting the marine sediment from the site area of Contract No. HY/2013/03 to the barge. The estimated quantity of marine sediment in each truck is confirmed by Resident Site Staff of Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04. The trip tickets for transportation and disposal of marine sediment are collected and checked. Contract No. HY/2013/03 as the dumping permit holder is responsible for reporting to EPD the quantity disposed of as the condition stipulated in the dumping permit. The disposal site allocated to this Project is the Mud Pit CMP2 of the

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Confined Marine Sediment Disposal Facility to the South of The Brothers during this reporting period.

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

Table 3.1 Summary of Marine Sediment Disposed to Dumping Site

Month/Year	Quantity disposed (in'000m ³)			Total
	HY/2013/02	HY/2013/03	HY/2013/04	
Dec 2015	0.000	0.000	0.000	0.000
Jan 2016	1.272	1.950	0.800	4.022
Feb 2016	2.816	2.328	0.704	5.848
Total	4.088	4.278	1.504	9.870

3.6.6 The summary of waste flow table is detailed in **Appendix G**.

3.7 Environmental Licences and Permits

3.7.1 The valid environmental licences and permits during the reporting period are summarized in **Appendix H**.

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4. SUMMARY OF EXCEEDANCES, COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

4.1 Summary of Exceedance of the Environmental Quality Performance Limit

4.1.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 is reported in the monthly EM&A Reports (for December 2015, January 2016 and February 2016) prepared by Contract No. HY/2011/03.

4.1.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7A for December 2015, AMS7 for January 2016 and February 2016 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

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

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

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

4.2 Summary of Complaints, Notification of Summons and Successful Prosecution

4.2.1 There were 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 I**.

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

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

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5. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

5.1 Comments

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

- CHEC was reminded for temporary stockpiling of untreated marine mud shall be lined with impermeable sheeting, bunded and with proper leachate control measures implemented at Portion A.
- CHEC was reminded to remove stagnant water within site boundary.
- CHEC was reminded to maintain good housekeeping practice at CUE works area.
- CHEC was reminded to replace drip tray for the generator at CUE works area.
- CHEC was reminded for temporary stockpiling of untreated marine mud shall be lined with impermeable sheeting, bunded and with proper leachate control measures implemented at CUE works area.
- CHEC was reminded to supplement the details of the CNP at CUE works area.
- CHEC was reminded to provide drip tray for chemical storage at CUE works area.
- CHEC was reminded to provide a new drip tray with adequate size for generator at CUE works area.
- CHEC was reminded to remove the construction wastes accumulated in the tray at CUE works area.
- CHEC was reminded to remove the stagnant water accumulated at CUE works area.
- CHEC was reminded to remove the stagnant water at Area 1.
- CHEC was reminded to properly store chemicals at CUE works area.
- CHEC was reminded to maintain good housekeeping practice on site.
- CHEC was reminded to clear and prevent the oil spillage from generator's drip tray at CUE works area.
- CHEC was reminded to clear and prevent the oil spillage on site at STP works area.
- CHEC was reminded to cover the excavated marine sediment properly with tarpaulin sheets at STP works area.
- CHEC was reminded to maintain housekeeping practice at Area 1.
- CHEC was reminded to remove the stagnant water accumulated at the generator's drip tray at CUE works area and the concreted area at Area 1.
- CHEC was reminded to provide drip tray for chemical containers or handle as chemical waste at Area 1.

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

5.2 Recommendations

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

5.2.2 The recommended environmental mitigation measures, as included in the EM&A programme, effectively minimize the potential environmental impacts from the contract. Also, the EM&A programme effectively monitored the environmental impacts from the construction activities and

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ensure the proper implementation of mitigation measures. No particular recommendation was advised for the improvement of the programme.

5.3 Conclusions

- 5.3.1 Commencement of the Contract took place on 10 April 2015 and the construction works of the Contract commenced on 29 August 2015. This is the 2nd Quarterly EM&A Report summarising the findings of EM&A activities conducted under the Contract from 1 December 2015 to 29 February 2016.
- 5.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Reports (for December 2015, January 2016 and February 2016) prepared by Contract No. HY/2011/03.
- 5.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7A for December 2015, AMS7 for January 2016 and February 2016 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.4 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.5 There was no marine works conducted during the reporting period and therefore, no water quality impact monitoring result is reported.
- 5.3.6 There was no marine works conducted during the reporting period and therefore, no ecology monitoring result is reported.
- 5.3.7 Environmental site inspection was carried out on 3, 10, 17, 23 and 31 December 2015, 7, 14, 20 and 28 January 2016, and 4, 12, 18 and 26 February 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 5.3.8 There were no complaints received in relation to the environmental impact during the reporting period.
- 5.3.9 There were no notifications of summons or prosecutions received during the reporting period.

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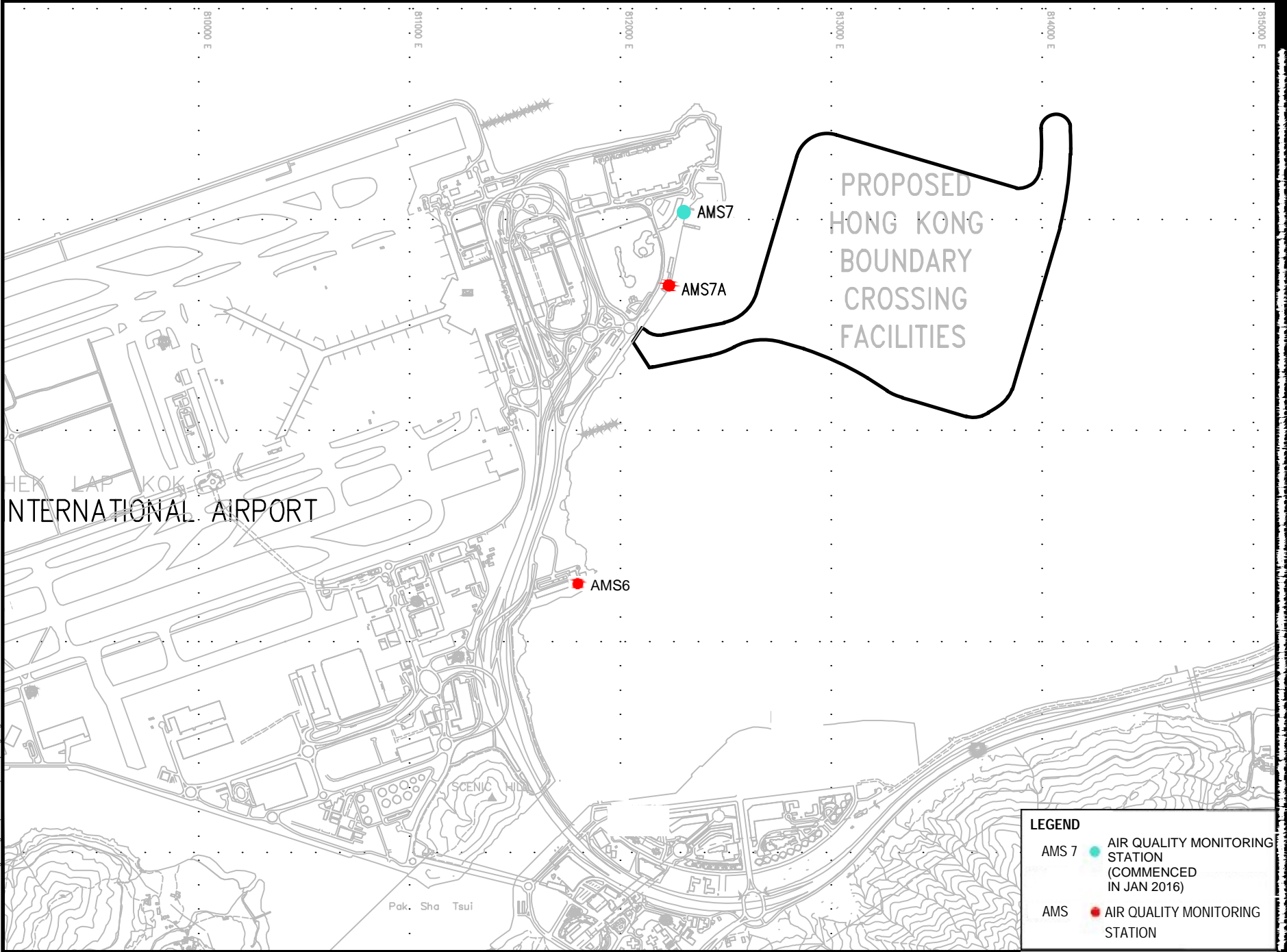
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Fax : (852)-24508032
Email : mcl@fugro.com.hk

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Figure 1

Air Quality Monitoring Stations



LEGEND

- AMS 7 ● AIR QUALITY MONITORING STATION (COMMENCED IN JAN 2016)
- AMS ● AIR QUALITY MONITORING STATION

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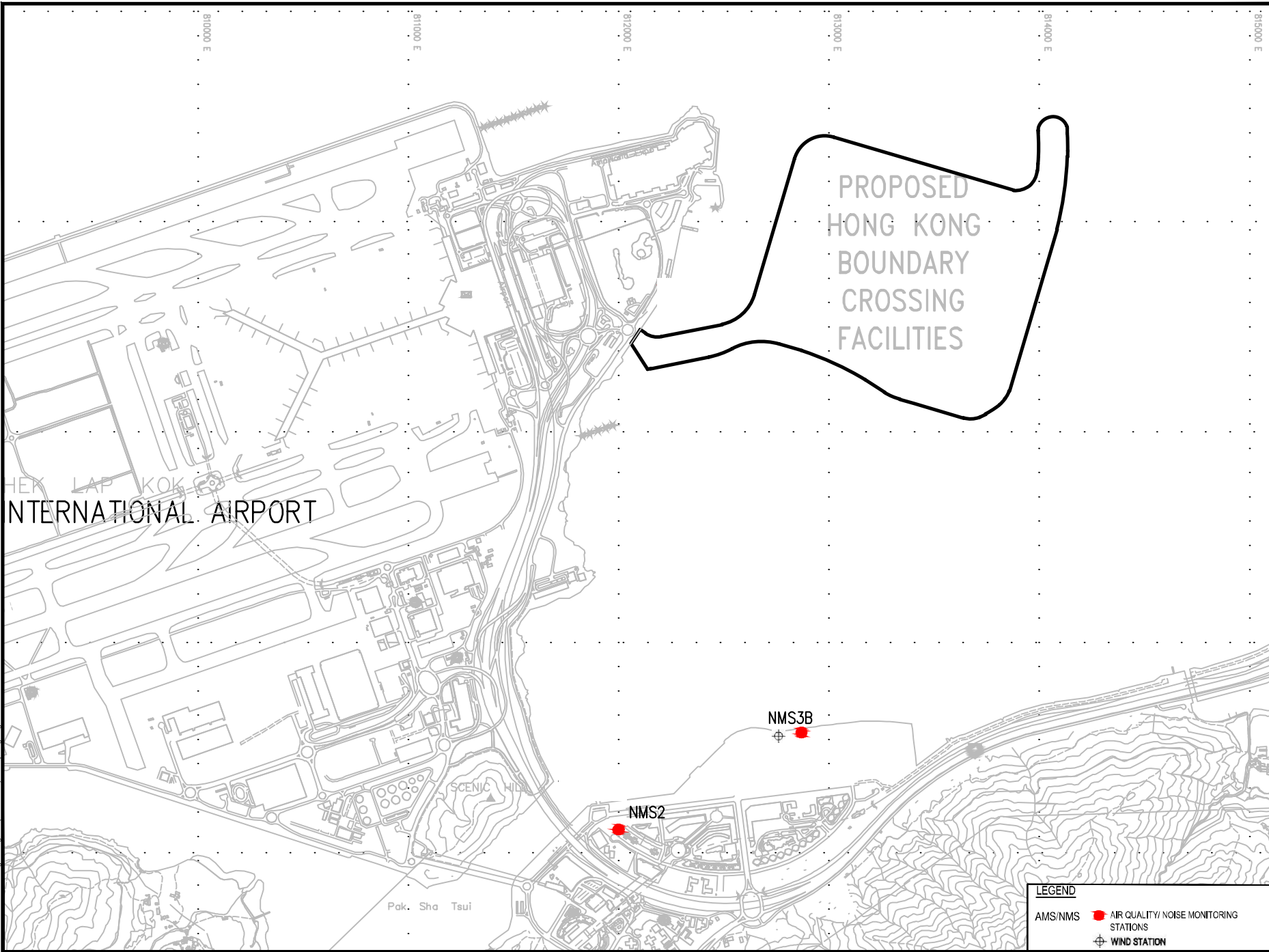
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Figure 2

Noise Monitoring Stations



LEGEND	
AMS/NMS	AIR QUALITY/ NOISE MONITORING STATIONS
	WIND STATION

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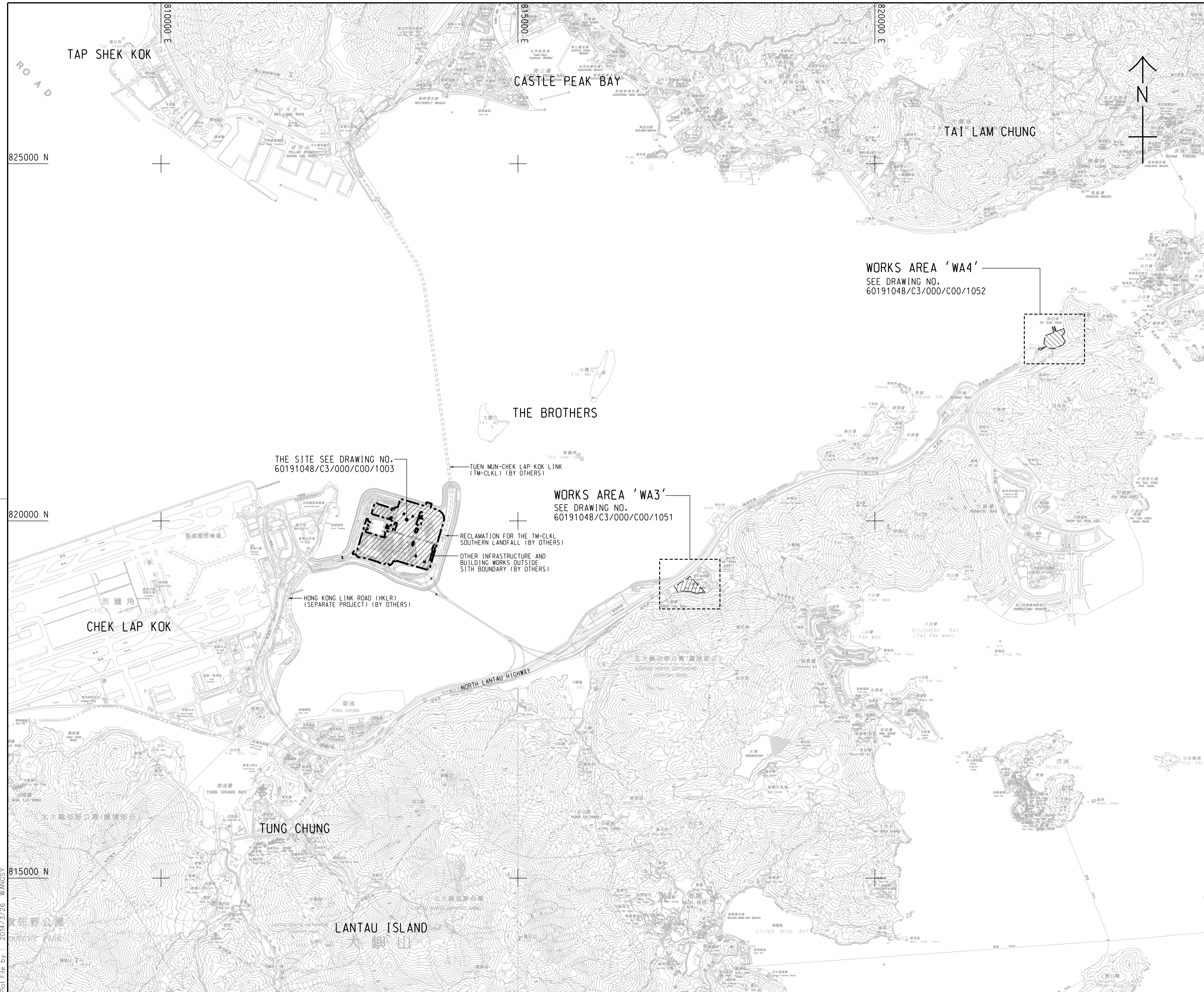
Email : mcl@fugro.com.hk

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Appendix A

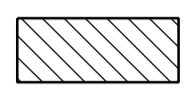
Location of Works Areas



NOTES:

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

LEGEND:

- SITE BOUNDARY
-  WORKS AREA

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

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

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

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

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

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

- TENDER DRAWING		BSC	SCI	MAR. 14
REV. 修改	DESCRIPTION 內容摘要	D.C. 審核	C.C. 校對	DATE 日期

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

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

SITE LOCATION PLAN

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

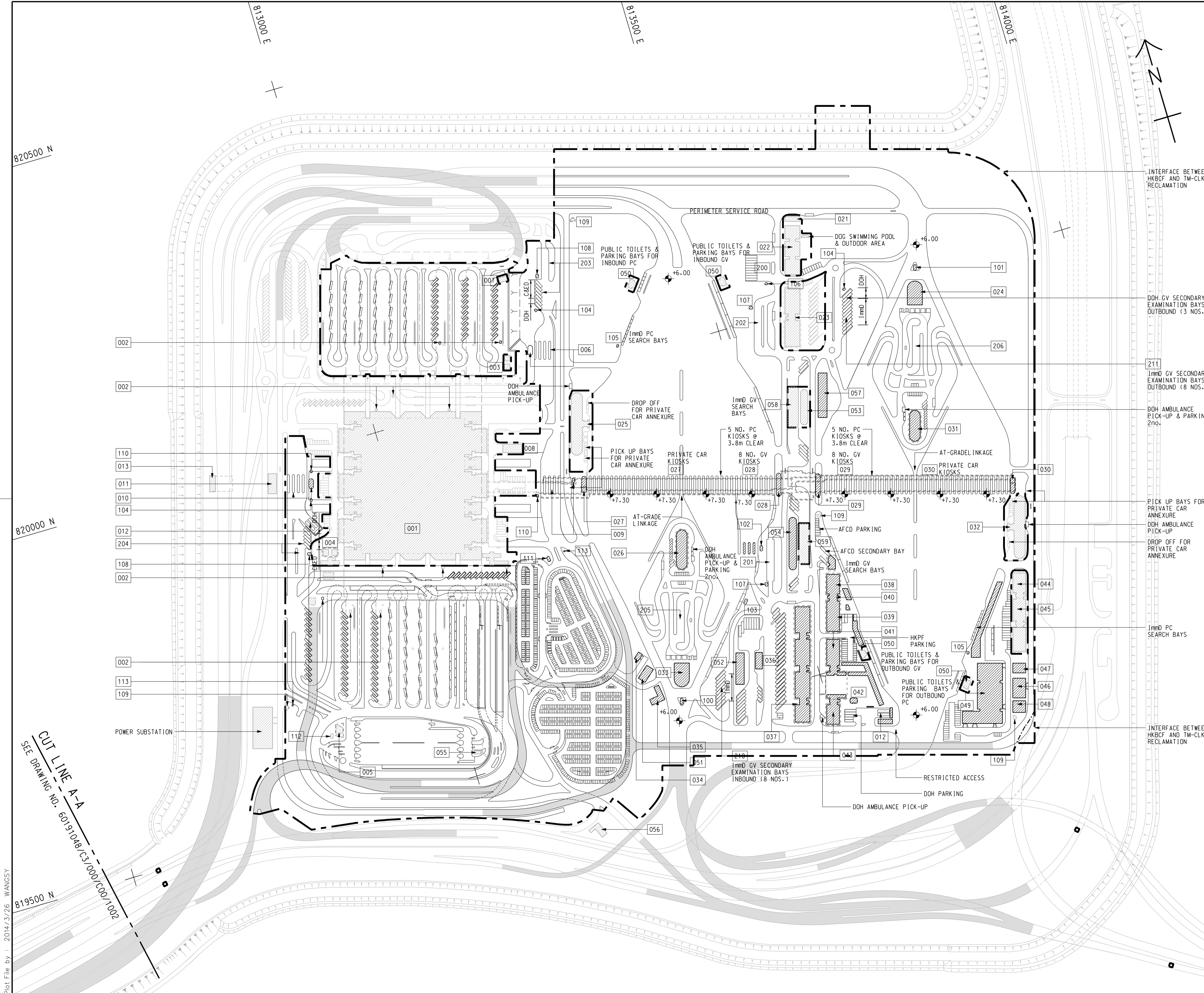
DRG. NO. 60191048/C3/000/C00/1000
 圖紙編號

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

DRAWN BY 繪圖	STATUS 階段
WSY	

SCALE 比例 A1 1 : 25000
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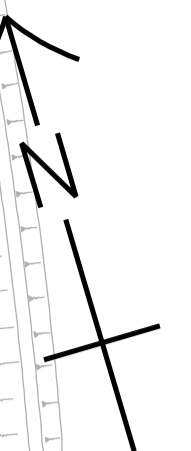


NOTE :

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

LEGEND :

- SITE BOUNDARY
- VIADUCT
- BUILDING/FACILITIES



INTERFACE BETWEEN HKBCF AND TM-CLKL RECLAMATION

DOH GV SECONDARY EXAMINATION BAYS OUTBOUND (3 NOS.)

211
1mm0 GV SECONDARY EXAMINATION BAYS OUTBOUND (8 NOS.)

DOH AMBULANCE PICK-UP & PARKING 2no.

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

1mm0 PC SEARCH BAYS

INTERFACE BETWEEN HKBCF AND TM-CLKL RECLAMATION

- TENDER DRAWING		BWCW SCI MAR. 14	
REV. 修改	DESCRIPTION 內容摘要	D.C. 校核	DATE 日期
<p>HONG KONG-ZHUHAI-MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES</p>			

Figure 1- 1
Current Layout Plan

SHEET 1 OF 2

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

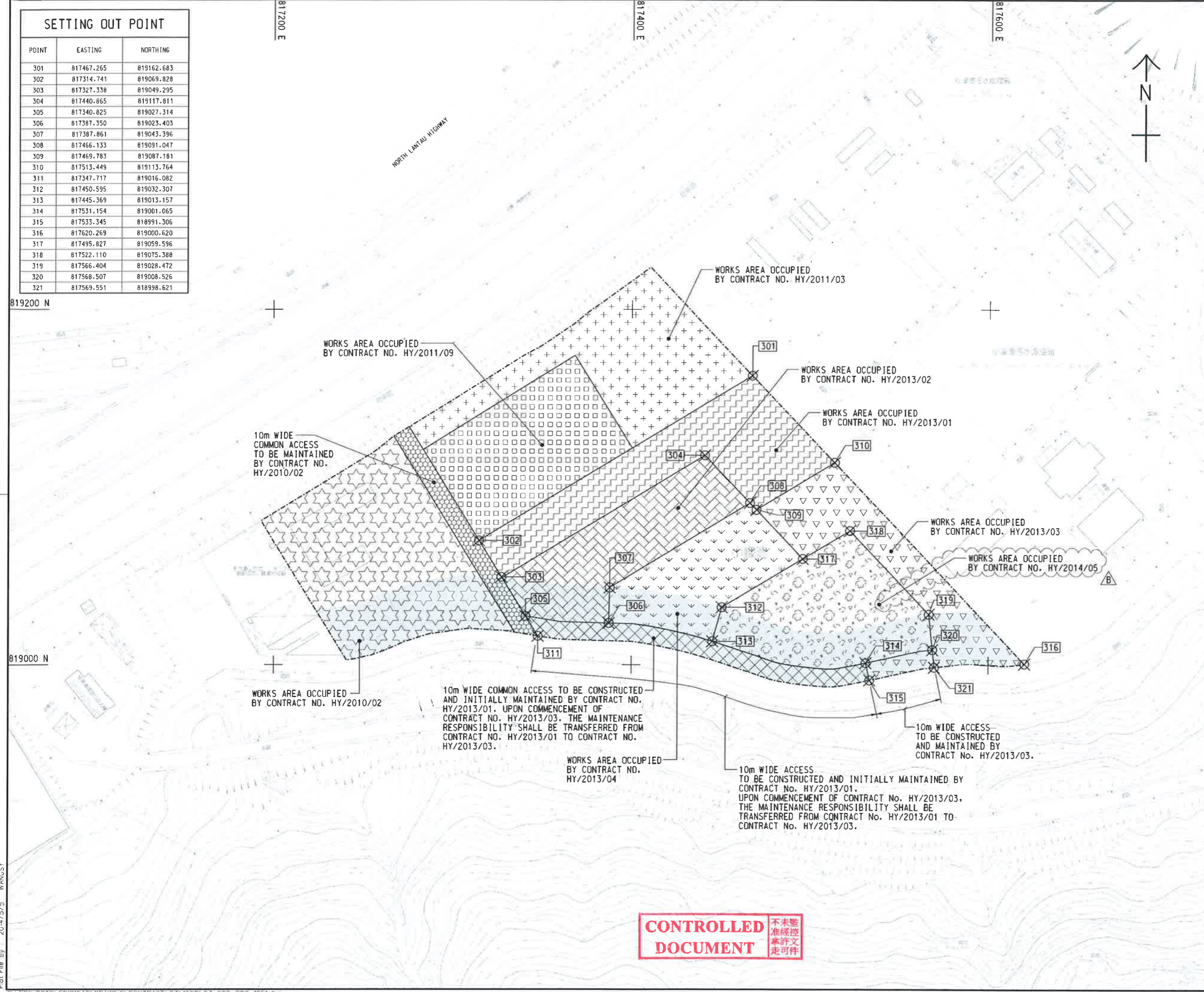
DRG.NO. 60191048/C3/000/C00/1001
圖紙編號

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. DR. APPROVED 批准人
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WSY		
SCALE 比例 A1 1 : 2500		
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CUT LINE A-A
SEE DRAWING NO. 60191048/C3/000/C00/1002

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



- NOTES:**
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LEGEND:

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

FOR CONSTRUCTION

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

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WORKS AREA WA3

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 圖紙編號

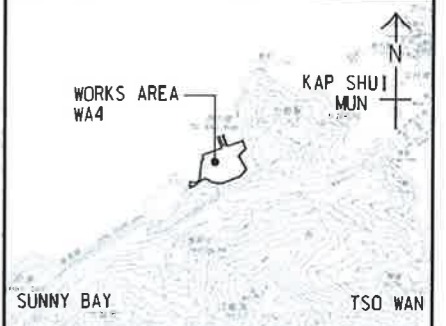
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SCALE A1 1 : 1000	© COPYRIGHT RESERVED	
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 走可伴

Plot File by 2014/5/5 WANGSY

SETTING OUT POINT

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



LOCATION PLAN
SCALE 1 : 25000

- NOTES:
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 - DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

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

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FOR CONSTRUCTION

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

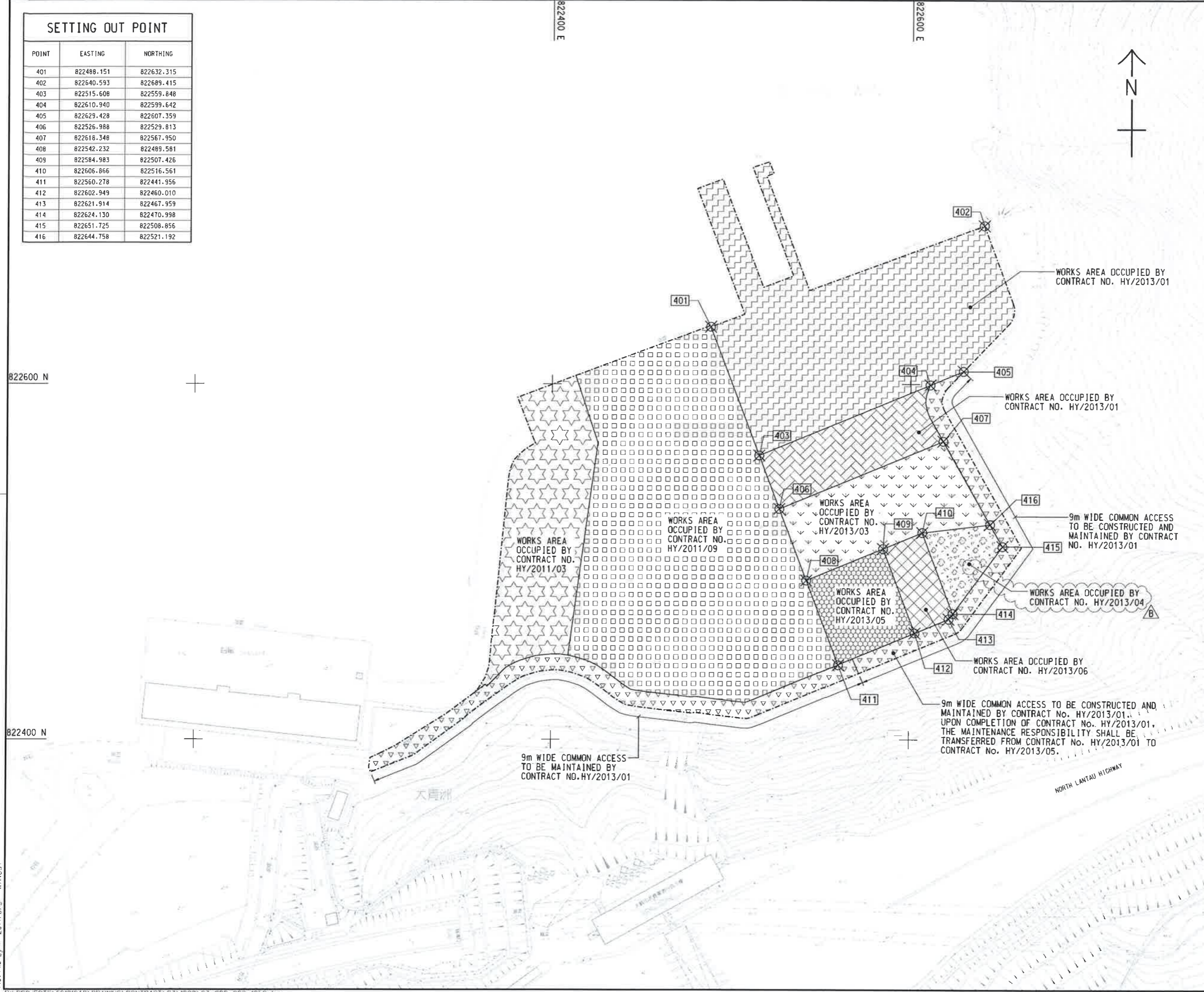
HONG KONG-HIGHWAYS DEPARTMENT
港珠澳大橋香港工程管理局
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office
HONG KONG-ZHUHAI-MACAO BRIDGE
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WORKS AREA WA4

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DRAWN BY 繪圖人	WSY	STATUS 圖則	WORKING DRAWING		
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Report No.: 0165/15/ED/0365

Appendix B

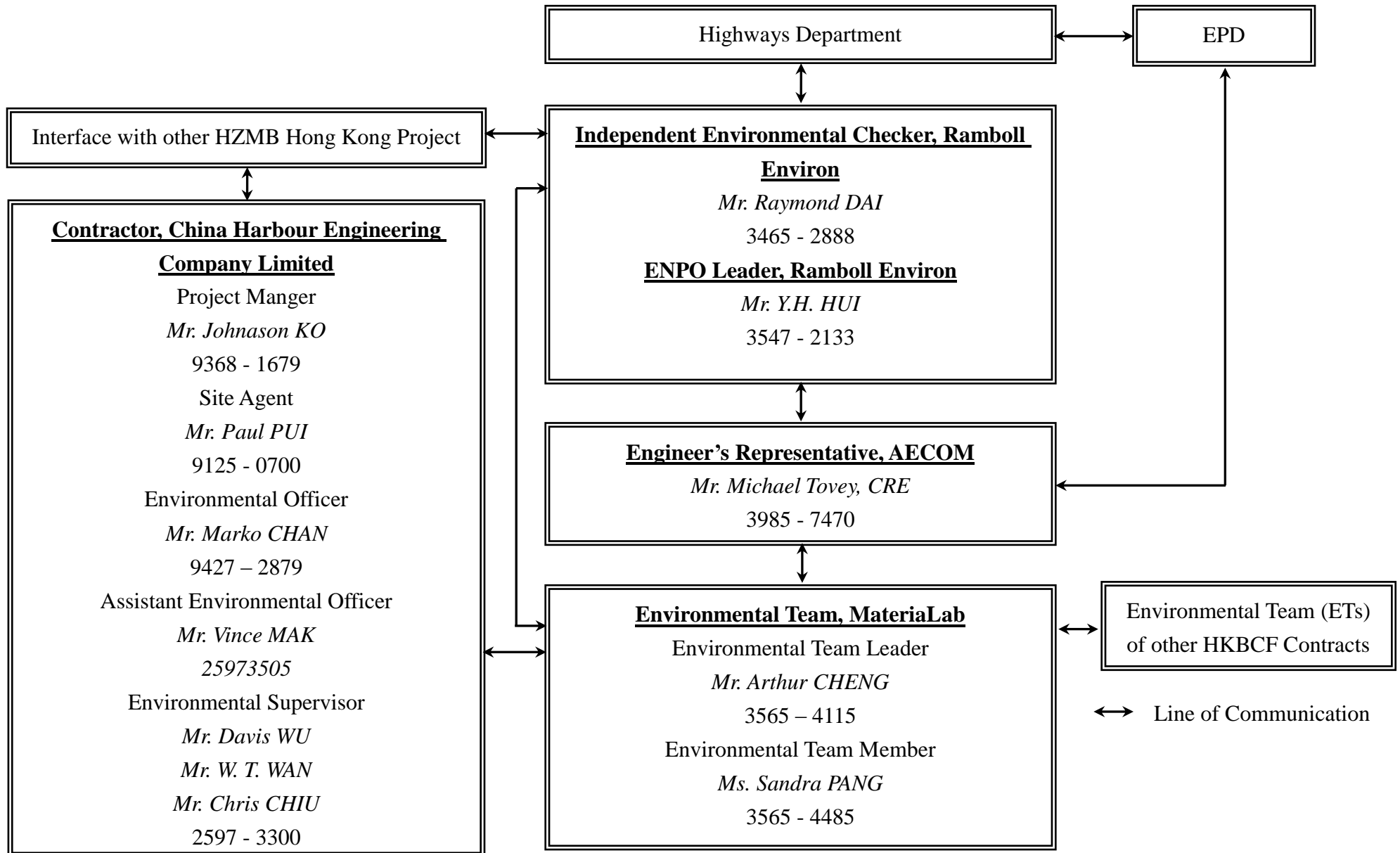
Project Organization for Environmental Works

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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Appendix C

Construction Programme

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2015		2016			
								Dec	Jan	Feb	Mar	Apr	
HKBCF - VCP DRMs Programme, (IWP 04), UD 311215													
CONTRACT DATES													
Key Dates													
A1040	KD4 Achievement of Stage 3B of the Works (250 days; 15 Dec. 15)	0	0	0%		23-Jan-16*	-39						◆ KD4 Achievement of Stage 3B of the Works (250 days; 15 Dec.
Site Access & Possession													
Possession of Portion of Site													
A0090	Possession of Portion H1 (<=273 days)	0	0	0%		15-Jan-16*	-8						◆ Possession of Portion H1 (<=273 days)
Section/Stage Subject to Excision													
A0710	Contract Date for Section IA (273 days, latest date when the Engineer may order)	0	0	0%	07-Jan-16*		0						◆ Contract Date for Section IA (273 days, latest date when the Engineer may order)
A0720	Contract Date for Section IB (273 days, latest date when the Engineer may order)	0	0	0%	07-Jan-16*		0						◆ Contract Date for Section IB (273 days, latest date when the Engineer may order)
A0730	Contract Date for Section IIA (345 days, latest date when the Engineer may order)	0	0	0%	19-Mar-16*		0						◆ Contract Date for
A0740	Contract Date for Section IIB (100 days, latest date when the Engineer may order)	0	0	0%	31-Dec-15*		-166						◆ Contract Date for Section IIB (100 days, latest date when the Engineer may order)
A0750	Contract Date for Section IIC (320 days, latest date when the Engineer may order)	0	0	0%	23-Feb-16*		0						◆ Contract Date for Section IIC (320 day
A0760	Contract Date for Section III (273 days, latest date when the Engineer may order)	0	0	0%	07-Jan-16*		0						◆ Contract Date for Section III (273 days, latest date when the Engineer may order)
A0810	Contract Date for Section IX (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0						◆ Contract Date for Section IX (270 days, latest date when the Engineer may order)
A0820	Contract Date for Section X (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0						◆ Contract Date for Section X (270 days, latest date when the Engineer may order)
A0830	Contract Date for Stage 20 (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0						◆ Contract Date for Stage 20 (270 days, latest date when the Engineer may order)
A0840	Contract Date for Stage 21 (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0						◆ Contract Date for Stage 21 (270 days, latest date when the Engineer may order)
A0850	Contract Date for Stage 22 (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0						◆ Contract Date for Stage 22 (270 days, latest date when the Engineer may order)
A0860	Contract Date for Stage 23 (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0						◆ Contract Date for Stage 23 (270 days, latest date when the Engineer may order)
A0870	Contract Date for Stage 24 (270 days, latest date when the Engineer may order)	0	0	0%	04-Jan-16*		0						◆ Contract Date for Stage 24 (270 days, latest date when the Engineer may order)
PRELIMINARY													
A0610	Mobilization of Plant	70	35	50%	10-Apr-15 A	03-Feb-16*	-230						
Precast Yard for Bridge Segment													
A0620	Engineering Service and Factory Preparation	120	96	20%	01-Dec-15 A	29-Apr-16	-137						
PORTION A1													
Portion A1 Structures													
Bridge A9													
Bored Pile													
S91010	Predrill SI, 10 nos.	30	0	100%	10-Nov-15 A	04-Dec-15 A							
Box Culvert D													
Bored Pile													
SD0040	Bored Piling for Box Culvert D 45 nr. (5 no. done)	128	109	15%	05-Oct-15 A	11-Aug-16	-34						

- Actual Work
- Remaining Work
- Critical
- ◆ Milestone

Date	Revision	Checked	Approved
31-Oct-15	Initial Works Programme Rev. 3, 3MRP	ZJ	
30-Nov-15	Initial Works Programme Rev. 3, 3MRP	ZJ	
31-Dec-15	DRMs updated as of 31 Dec. 2015, 3MRP	ZJ	

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2015		2016			
								Dec	Jan	Feb	Mar	Apr	
049 - Sewage Treatment Plant, Portion A1 & A2													
A04930	Approval of Rockhead & Foundation	7	0	100%	21-Dec-15 A	28-Dec-15 A		█					
A04940	Bored Piling (39 Nr.)	148	147	0.68%	29-Dec-15 A	02-Jul-16	-179	█	█	█	█	█	█
Portion A1 Buildings													
036 - Weigh Station													
A03630	Super Structure	90	9	90%	06-Oct-15 A	12-Apr-16	91	█					█
A03690	Other BS + E&M Installation	180	162	10%	02-Nov-15 A	14-Nov-16	163	█					
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)													
A03710	Excavation	14	0	100%	07-Oct-15 A	30-Nov-15 A							
A03720	Substructure	50	25	50%	13-Oct-15 A	30-Apr-16	-192	█					█
A03790	Other BS + E&M Installation	235	230	2%	15-Dec-15 A	15-Jul-17	-31	█					
052 - Transforms (Zone 4)													
A05220	Superstructure	64	0	100%	21-Sep-15 A	30-Nov-15 A							
A05230	Fitting out works in Tx Room to CLP (KD4)	55	20	63.64%	02-Nov-15 A	23-Jan-16	-31	█	█				
A05235	Energisation by CLP	50	50	0%	25-Jan-16	29-Mar-16	298			█	█	█	█
A05240	BS Installation (KD9)	66	53	20%	02-Nov-15 A	05-Mar-16	228	█	█	█	█	█	
A05250	Finishing (KD10)	87	78	10%	14-Dec-15 A	09-Apr-16	228	█	█	█	█	█	█
External Works for Portion A1													
Drainage Works													
SG0020	Drainage Works (4210m & 76MHs)	250	248	1%	16-Sep-15 A	21-Apr-17	-104	█					
PORTION B													
Portion B Structures													
027 - Staff Subway													
C02710	ELS + Blind (Seg. 8-19) (12 Bay)	47	38	20%	27-Oct-15 A	17-Feb-16	-42	█	█	█	█	█	█
C02720	Seg. 8-13 Construction - Base Slab	21	19	10%	03-Nov-15 A	22-Jan-16	-5	█	█				
C02730	Seg. 8-13 Construction - Wall + Top Slab	30	30	0%	15-Dec-15 A	04-Feb-16	0	█	█	█	█	█	█
C02740	Seg. 14-19 Construction - Base Slab	21	21	0%	31-Dec-15	25-Jan-16	-16		█	█	█	█	█
C02750	Seg. 14-19 Construction - Wall + Top Slab	30	30	0%	20-Jan-16	26-Feb-16	-16		█	█	█	█	█
C02760	Internal Finishes & Cable Containment (KD1)	30	30	0%	05-Feb-16	14-Mar-16	5			█	█	█	█
C02770	BS + E&M Installation for ACVSS (Stage 1)	30	30	0%	24-Feb-16	01-Apr-16	1				█	█	█
029 - Staff Subway													
C02910	ELS + Blind (Seg. 28-36) (12 Bay)	40	40	0%	17-Feb-16	08-Apr-16	-42				█	█	█
C02920	Seg. 28-32 Construction - Base Slab	22	22	0%	09-Mar-16	08-Apr-16	-42					█	█
C02940	Seg. 33-36 Construction - Base Slab	21	21	0%	09-Mar-16	07-Apr-16	-42					█	█
Portion B Buildings													
027/028 Inbound Kiosks & 029 Outbound Kiosks													

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

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31-Oct-15	Initial Works Programme Rev. 3, 3MRP	ZJ	
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Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2015		2016			
								Dec	Jan	Feb	Mar	Apr	
A02700	Submission & Approval for Steel Works	50	50	0%	31-Dec-15	02-Mar-16	-88						
A02710	Pre-fabrication for the Steel Kiosks	100	100	0%	03-Mar-16	06-Jul-16	-88						
027/028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision													
B02730	Submission & Approval for Steel Works	75	75	0%	04-Jan-16	07-Apr-16	25						
External Works for Portion B													
Drainage Works													
B00030	Initial Survey	12	0	100%	07-Dec-15 A	16-Dec-15 A							
SG1540	Drainage Works (7812m & 168MHs)	300	297	1%	17-Dec-15 A	29-Mar-17	-120						
PORTION C													
Portion C Buildings													
010 - Inbound Coach Kiosk & Staff Subway Entrance													
A01010	Substructure and Staircase Construction	60	60	0%	22-Mar-16	06-Jun-16	-157						
PORTION G, H1 & H2													
Portion G Structures													
Box Culvert C													
Steel H Pile													
SC0230	Predrill SI for Box Culvert C 9 Nr.	9	0	100%	02-Nov-15 A	04-Dec-15 A							
Bridge A1													
Bored Pile													
S10110	Predrill SI, 10 nos.	30	14	53.33%	07-Dec-15 A	16-Jan-16	65						
S10120	Bore pile, 10 nos.	58	58	0%	18-Jan-16	31-Mar-16	65						
Bridge A2													
Bored Pile													
S21410	Bore pile + P301 + P601, (6 + 4) Nr., 5 no. done	73	37	50%	26-Nov-15 A	16-Feb-16	-92						
S21820	Pile Testing	7	7	0%	26-Feb-16	05-Mar-16	100						
Pile Cap													
S21850	Cap - Pier P205	30	30	0%	05-Mar-16	14-Apr-16	100						
Bridge A5													
Bored Pile													
S52620	Predrill SI for others 4 nos.	6	0	100%	01-Dec-15 A	17-Dec-15 A							
Bridge A6													
Bored Pile													
S63510	Bore pile for P606, A607/A711, 6 Nr.	46	46	0%	31-Dec-15	26-Feb-16	-130						
S63520	Bore pile for other 8 Nr.	58	58	0%	27-Feb-16	10-May-16	-130						
S63720	Pile Testing for 606, A607/A711	7	7	0%	09-Mar-16	16-Mar-16	-99						
S63725	Pile Testing for P601	7	7	0%	29-Feb-16	08-Mar-16	-92						
Pile Cap													
S63410	Cap - P606, P607/711	40	40	0%	17-Mar-16	07-May-16	-99						
S63420	Cap - P601	30	30	0%	08-Mar-16	16-Apr-16	-92						
Bridge A7a, A7b, A7c													
Bored Pile													
S74150	Predrill SI for P701, P702 - P705, 10 Nr.	30	30	0%	31-Dec-15	04-Feb-16	34						

- Actual Work
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Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2015		2016			
								Dec	Jan	Feb	Mar	Apr	
S74160	Bore Piling for P706, P707, P712, 6 Nr.	44	40	10%	14-Dec-15 A	25-Aug-16	-128						
S74170	Bore Piling for A701, P702 - P705, 10 Nr.	42	38	10%	20-Nov-15 A	24-Sep-16	-116						
Portion G Buildings													
<i>035 - Sewage Pumping Station, Portion G</i>													
A03525	Approval of Rockhead & Founding	14	14	0%	31-Dec-15	16-Jan-16	-16						
A03530	Bored piling (5 nr.)	46	46	0%	04-Feb-16	05-Apr-16	-16						
External Works for Portion G, H1 & H2													
<i>Sign Gantry DS40, DS41 & DS75</i>													
SS0010	Sign Gantry DS40 SI Drilling, 3 Nr.	13	0	100%	08-Dec-15 A	19-Dec-15 A							
SS0030	Sign Gantry DS41 SI Drilling, 1 Nr.	13	0	100%	02-Dec-15 A	21-Dec-15 A							
SS0050	Sign Gantry DS75 SI Drilling, 2 Nr.	7	5	28.57%	08-Dec-15 A	06-Jan-16	97						
SS0170	Submission and approval for Sign Gantry	90	90	0%	31-Dec-15	22-Apr-16	-18						
PORTION J													
Portion J Structure													
<i>030 Outbound Private Car & GV Kiosks</i>													
A03010	Submission & Approval for Steel Works	60	60	0%	31-Dec-15	14-Mar-16	-7						
A03020	Pre-fabrication for the Steel Kiosks	84	84	0%	15-Mar-16	28-Jun-16	-7						
030 Outbound Kiosks, Section IX, Subject to Excision													
C03010	Submission & Approval for Steel Works	100	100	0%	04-Jan-16	07-May-16	0						
External Works for Portion J													
<i>Sign Gantry DS104</i>													
SS0130	Sign Gantry DS104 SI Drilling, 2 Nr.	12	3	75%	18-Dec-15 A	04-Jan-16	207						
PORTION N													
Portion N Structure													
<i>Box Culvert B</i>													
Bored Pile													
SB0510	Box B - Predrill SI, 30 nos.	30	14	53.33%	01-Dec-15 A	16-Jan-16	131						
SB0570	Box B - Bore Pile, 30 nos.	85	85	0%	18-Jan-16	04-May-16	131						

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Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016						
								Jan	Feb	Mar	Apr	May		
HKBCF - VCP DRMs Programme, (IWP 04), UD 310116														
CONTRACT DATES														
Key Dates														
A1040	KD4 Achievement of Stage 3B of the Works (250 days; 15 Dec. 15)	0	0	0%		31-Jan-16*	-46		◆	KD4 Achievement of Stage 3B of the Works (250 days; 15 Dec. 15)				
Site Access & Possession														
Possession of Portion of Site														
A0010	Possession of Portion A1 (<= 70 days)	0	0	0%		31-Mar-16*	-287		◆	Possession of Portion A1 (<= 70 days)				
A0020	Possession of Portion A2 (<= 75 days)	0	0	0%		31-Mar-16*	-282		◆	Possession of Portion A2 (<= 75 days)				
A0030	Possession of Portion B (<=100 days)	0	0	0%		31-Mar-16*	-257		◆	Possession of Portion B (<=100 days)				
A0060	Possession of Portion E (<=160 days)	0	0	0%		01-Apr-16*	-198		◆	Possession of Portion E (<=160 days)				
A0090	Possession of Portion H1 (<=273 days)	0	0	0%		31-Jan-16*	-23		◆	Possession of Portion H1 (<=273 days)				
A0100	Possession of Portion H2 (<=273 days)	0	0	0%		31-Mar-16*	-84		◆	Possession of Portion H2 (<=273 days)				
Section/Stage Subject to Excision														
A0710	Contract Date for Section IA (273 days, latest date when the Engineer may order)	0	0	100%	04-Jan-16 A				◆	Contract Date for Section IA (273 days, latest date when the Engineer may order)				
A0720	Contract Date for Section IB (273 days, latest date when the Engineer may order)	0	0	100%	04-Jan-16 A				◆	Contract Date for Section IB (273 days, latest date when the Engineer may order)				
A0730	Contract Date for Section IIA (345 days, latest date when the Engineer may order)	0	0	0%	19-Mar-16*		0		◆	Contract Date for Section IIA (345 days, latest date when the Engineer may order)				
A0740	Contract Date for Section IIB (100 days, latest date when the Engineer may order)	0	0	0%	31-Jan-16*		-197		◆	Contract Date for Section IIB (100 days, latest date when the Engineer may order)				
A0750	Contract Date for Section IIC (320 days, latest date when the Engineer may order)	0	0	0%	23-Feb-16*		0		◆	Contract Date for Section IIC (320 days, latest date when the Engineer may order)				
A0760	Contract Date for Section III (273 days, latest date when the Engineer may order)	0	0	0%	31-Jan-16*		-24		◆	Contract Date for Section III (273 days, latest date when the Engineer may order)				
A0810	Contract Date for Section IX (270 days, latest date when the Engineer may order)	0	0	0%	31-Jan-16*		-27		◆	Contract Date for Section IX (270 days, latest date when the Engineer may order)				
A0820	Contract Date for Section X (270 days, latest date when the Engineer may order)	0	0	100%	04-Jan-16 A				◆	Contract Date for Section X (270 days, latest date when the Engineer may order)				
A0830	Contract Date for Stage 20 (270 days, latest date when the Engineer may order)	0	0	0%	31-Jan-16*		-27		◆	Contract Date for Stage 20 (270 days, latest date when the Engineer may order)				
A0840	Contract Date for Stage 21 (270 days, latest date when the Engineer may order)	0	0	0%	31-Jan-16*		-27		◆	Contract Date for Stage 21 (270 days, latest date when the Engineer may order)				
A0850	Contract Date for Stage 22 (270 days, latest date when the Engineer may order)	0	0	0%	31-Jan-16*		-27		◆	Contract Date for Stage 22 (270 days, latest date when the Engineer may order)				
A0860	Contract Date for Stage 23 (270 days, latest date when the Engineer may order)	0	0	100%	04-Jan-16 A				◆	Contract Date for Stage 23 (270 days, latest date when the Engineer may order)				
A0870	Contract Date for Stage 24 (270 days, latest date when the Engineer may order)	0	0	100%	04-Jan-16 A				◆	Contract Date for Stage 24 (270 days, latest date when the Engineer may order)				
PRELIMINARY														
A0610	Mobilization of Plant	70	30	57.14%	10-Apr-15 A	29-Feb-16*	-256							
Precast Yard for Bridge Segment														
A0620	Engineering Service and Factory Preparation	120	71	40.83%	01-Dec-15 A	30-Apr-16	-138							
PORTION A1														
Portion A1 Structures														
Bridge A9														
Bored Pile														

█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
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Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016				
								Jan	Feb	Mar	Apr	May
S91015	Bored piles for P904, A905, 4nos	58	58	0%	01-Apr-16	11-Jun-16	18					
Box Culvert D												
Bored Pile												
SD0040	Bored Piling for Box Culvert D 45 nr. (8 no. done)	128	102	20%	05-Oct-15 A	04-Aug-16	-34					
SD0080	Box Culvert D Pile Testing (Stage 1)	7	7	0%	01-Apr-16	09-Apr-16	-34					
SD0090	Box Culvert D Pile Testing (Stage 2)	7	7	0%	26-Apr-16	04-May-16	-34					
Box Culvert D Construction												
SD0060	Box Culvert D Construction (Stage 1)	50	50	0%	11-Apr-16	10-Jun-16	139					
049 - Sewage Treatment Plant, Portion A1 & A2												
A04940	Bored Piling (39 Nr.)	148	144	2.5%	29-Dec-15 A	30-Jul-16	-202					
Portion A1 Buildings												
036 - Weigh Station												
A03630	Super Structure	90	0	100%	06-Oct-15 A	12-Jan-16 A						
A03640	Finishing	120	102	15%	13-Jan-16 A	03-Aug-16	178					
A03670	BS for Office Accomodation (Stage 8)	90	72	20%	13-Jan-16 A	28-Jun-16	118					
A03690	Other BS + E&M Instaalation	180	126	30%	02-Nov-15 A	31-Aug-16	224					
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)												
A03720	Substructure	50	13	75%	13-Oct-15 A	16-Apr-16	-158					
A03730	Super Structure	110	88	20%	02-Jan-16 A	02-Aug-16	-158					
A03790	Other BS + E&M Installation	235	212	10%	15-Dec-15 A	11-May-17	22					
041 Fire Station Cum Ambulance Deport												
A04100	Excavation + Blinding	14	14	0%	01-Apr-16	18-Apr-16	-144					
A04110	Substructure	84	84	0%	20-Apr-16	30-Jul-16	-145					
042 Drill Tower												
A04210	Driven Piles 16 Nr.	15	15	0%	01-Apr-16	19-Apr-16	-145					
A04220	Piling Test	10	10	0%	20-Apr-16	30-Apr-16	-70					
052 - Transforms (Zone 4)												
A05230	Fitting out works in Tx Room to CLP (KD4)	55	0	100%	02-Nov-15 A	27-Jan-16 A						
A05235	Energisation by CLP	50	50	0%	01-Feb-16	06-Apr-16	292					
A05240	BS Installation (KD9)	66	40	40%	02-Nov-15 A	21-Mar-16	215					
A05250	Finishing (KD10)	87	61	30%	14-Dec-15 A	19-Apr-16	215					
A05260	Completion of remaining works	66	66	0%	19-Apr-16	09-Jul-16	269					
External Works for Portion A1												
Drainage Works												
B00010	Initial Survey	6	6	0%	17-Aug-15 A	08-Apr-16	-231					
SG0020	Drainage Works (4210m & 76MHs)	250	248	1%	16-Sep-15 A	22-May-17	-127					

- █ Actual Work
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

28-Jan-16

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016					
								Jan	Feb	Mar	Apr	May	
SG0030	Sewerage (1063m & 30MHs)	250	250	0%	01-Apr-16	02-Feb-17	-41						
PORTION A2													
External Works for Portion A2													
<i>Drainage Works</i>													
B00020	Initial Survey	6	6	0%	01-Apr-16	08-Apr-16	-199						
PORTION B													
Portion B Structures													
<i>027 - Staff Subway</i>													
C02710	ELS + Blind (Bay 4 - 19) (16 Bay)	47	38	20%	27-Oct-15 A	18-Mar-16	-68						
C02720	Bay 4 - 13 Construction - Base Slab	21	15	30%	03-Nov-15 A	20-Feb-16	-27						
C02730	Bay 4 - 13 Construction - Wall + Top Slab	30	24	20%	15-Dec-15 A	02-Mar-16	-20						
C02740	Bay 14-19 Construction - Base Slab	21	19	10%	06-Jan-16 A	25-Feb-16	-31						
C02750	Bay 14-19 Construction - Wall + Top Slab	30	30	0%	01-Feb-16	09-Mar-16	-26						
C02760	Internal Finishes & Cable Containment (KD1)	30	30	0%	03-Mar-16	11-Apr-16	-15						
C02770	BS + E&M Installation for ACVSS (Stage 1)	30	30	0%	14-Mar-16	21-Apr-16	-15						
<i>029 - Staff Subway</i>													
C02910	ELS + Blind (Seg. 28-36) (9 Bay)	40	40	0%	18-Mar-16	10-May-16	-68						
C02920	Seg. 28-32 Construction - Base Slab	22	22	0%	13-Apr-16	10-May-16	-68						
C02940	Seg. 33-36 Construction - Base Slab	21	21	0%	13-Apr-16	09-May-16	-68						
Portion B Buildings													
<i>027/028 Inbound Kiosks & 029 Outbound Kiosks</i>													
A02700	Submission & Approval for Steel Works	50	50	0%	01-Feb-16	06-Apr-16	-114						
A02710	Pre-fabrication for the Steel Kiosks	100	100	0%	07-Apr-16	05-Aug-16	-114						
<i>027/028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision</i>													
B02730	Submission & Approval for Steel Works	75	75	0%	01-Feb-16	06-May-16	1						
<i>026 Inbound IMMD and DOH Secondary Screening Building</i>													
A02610	Excavation + Blinding (PL test 5-8/1/16)	10	0	100%	12-Jan-16 A	16-Jan-16 A							
A02620	Raft Foundation	40	32	20%	18-Jan-16 A	21-Nov-16	-189						
<i>054 Inbound Fixed X-ray Building</i>													
A05420	Excavation + Blinding (PL test 12- 16/1/16)	10	0	100%	20-Jan-16 A	25-Jan-16 A							
A05430	Substructure	50	50	0%	26-Jan-16 A	01-Jun-16	-197						
<i>038 AFCD Office</i>													
A03810	Excavation + Blinding	7	7	0%	28-Apr-16	06-May-16	-130						
<i>039 Police Main Building</i>													
A03910	Excavation + Blinding	12	12	0%	01-Apr-16	15-Apr-16	-197						
A03920	Substructure	70	70	0%	16-Apr-16	11-Jul-16	-197						
<i>040 Incident Control Tower</i>													
A04010	Excavation + Blinding	10	10	0%	16-Apr-16	27-Apr-16	-137						
<i>102 HKPF UVSS Monitor Room</i>													
A10200	Excavation + Blinding	7	7	0%	16-Apr-16	23-Apr-16	11						
<i>103 Police Inspection Post</i>													

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								Jan	Feb	Mar	Apr	May	
A10310	Excavation + Blinding	5	5	0%	11-Apr-16	15-Apr-16	-100						
057 Transformers (Zone 2)													
A05710	Excavation + Blinding	10	10	0%	01-Apr-16	13-Apr-16	-207						
A05720	Raft Foundation	52	52	0%	14-Apr-16	16-Jun-16	-207						
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B													
C10710	Excavation + Blinding	7	7	0%	01-Apr-16	09-Apr-16	-189						
C10720	Raft Foundation	32	32	0%	11-Apr-16	19-May-16	-189						
113 - Field Kiosk for Access Control, Portion B													
B11310	Excavation + Blinding	7	7	0%	16-Apr-16	23-Apr-16	-53						
B11320	Raft Foundation	32	32	0%	25-Apr-16	02-Jun-16	-53						
External Works for Portion B													
Drainage Works													
SG1540	Drainage Works (7812m & 168MHs)	300	291	3%	17-Dec-15 A	22-Mar-17	-94						
SG3580	Sewerage (1175m & 32MHs)	300	297	1%	02-Jan-16 A	29-Mar-17	-105						
Waterpipe Laying													
SW1550	Fresh Water Main Laying (1972m)	300	300	0%	29-Apr-16	05-May-17	-105						
SW1560	Flushing Water Main Laying (1851m)	300	300	0%	29-Apr-16	05-May-17	-105						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
SU5300	Duct Laying for Utilities/Telecom Cabling	300	300	0%	29-Apr-16	05-May-17	-105						
Sign Gantry ADS 306A & ADS 306B													
SS0070	Sign Gantry ADS 306B SI Drilling, 2 Nr.	6	0	100%	11-Jan-16 A	27-Jan-16 A							
SS0110	Sign Gantry ADS306A SI Drilling, 2 Nr.	7	0	100%	11-Jan-16 A	30-Jan-16 A							
SS5230	Submission and approval for Sign Gantry	147	147	0%	01-Apr-16	26-Sep-16	-147						
PORTION C													
Portion C Buildings													
010 - Inbound Coach Kiosk & Staff Subway Entrance													
A01010	Substructure and Staircase Construction	60	60	0%	22-Mar-16	06-Jun-16	-157						
009 - Shuttle Bus Kiosk & Staff Subway Entrance													
A00910	ELS + Blinding (Bay 0-3) (4 bay)	42	42	0%	01-Apr-16	23-May-16	-179						
PORTION E													
External Works for Portion E													
Drainage Works													
B00060	Initial Survey	6	6	0%	02-Apr-16	09-Apr-16	-27						
PORTION G, H1 & H2													
Portion G Structures													
Bridge A1													
Bored Pile													
S10110	Predrill SI, 10 nos.	30	0	100%	07-Dec-15 A	09-Jan-16 A							
S10120	Bore pile, 10 nos.	58	58	0%	01-Feb-16	15-Apr-16	53						
S10140	Pile Testing	7	7	0%	28-Apr-16	06-May-16	53						
Bridge A2													
Bored Pile													

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Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016				
								Jan	Feb	Mar	Apr	May
S21410	Bore pile + P301 + P601, (6 + 4) Nr., 6 no. done	73	29	60%	26-Nov-15 A	09-Mar-16	-110					
S21820	Pile Testing	7	7	0%	19-Mar-16	31-Mar-16	81					
Pile Cap												
S21850	Cap - Pier P205	30	30	0%	31-Mar-16	07-May-16	81					
Bridge A6												
Bored Pile												
S63510	Bore pile for P606, A607/A711, 6 Nr.	46	46	0%	01-Feb-16	31-Mar-16	-155					
S63520	Bore pile for other 8 Nr. (P602/P2)	58	57	1%	11-Jan-16 A	11-Jun-16	-155					
S63720	Pile Testing for 606, A607/A711	7	7	0%	13-Apr-16	20-Apr-16	-125					
S63725	Pile Testing for P601	7	7	0%	22-Mar-16	02-Apr-16	-110					
Pile Cap												
S63410	Cap - P606, P607/711	40	40	0%	21-Apr-16	08-Jun-16	-125					
S63420	Cap - P601	30	30	0%	02-Apr-16	10-May-16	-110					
Bridge A7a, A7b, A7c												
Bored Pile												
S74150	Predrill SI for P701, P702 - P705, 10 Nr.	30	30	0%	01-Feb-16	09-Mar-16	8					
S74160	Bore Piling for P706, P707, P712, 6 Nr. (2 Nr. done)	44	26	40%	14-Dec-15 A	06-Sep-16	-138					
S74170	Bore Piling for A701, P702 - P705, 10 Nr. (1 Nr. done)	42	38	10%	20-Nov-15 A	24-Sep-16	-116					
Bridge A8												
Bored Pile												
S86130	Bore pile P802, P803, A804, 6 Nr.	87	87	0%	13-Apr-16	27-Jul-16	-22					
Portion G Buildings												
033 Inbound Private Car Exam Building												
A03300	Excavation + Blinding (PL Test 20 - 23/1/16)	10	9	10%	25-Jan-16 A	21-Jun-16	-46					
035 - Sewage Pumping Station, Portion G												
A03525	Approval of Rockhead & Founding	14	0	100%	11-Jan-16 A	25-Jan-16 A						
A03530	Bored piling (5 nr.)	46	46	0%	26-Jan-16 A	12-Apr-16	-22					
A03540	Sheet Piling as ELS for Wet Well	12	12	0%	13-Apr-16	26-Apr-16	-22					
A03550	Pile Testing, 5 Nr.	7	7	0%	27-Apr-16	05-May-16	-22					
051 Transformers (Zone 5)												
A05100	Excavation + Blinding (PL test 20 - 23/1/16)	5	4	20%	27-Jan-16 A	03-Jun-16	-151					
External Works for Portion G, H1 & H2												
Sign Gantry DS40, DS41 & DS75												
SS0050	Sign Gantry DS75 SI Drilling, 2 Nr.	7	0	100%	08-Dec-15 A	08-Jan-16 A						
SS0170	Submission and approval for Sign Gantry	90	90	0%	01-Feb-16	25-May-16	-44					
PORTION J												
Portion J Structure												
030 Outbound Private Car & GV Kiosks												
A03010	Submission & Approval for Steel Works	60	60	0%	01-Feb-16	18-Apr-16	-33					
A03020	Pre-fabrication for the Steel Kiosks	84	84	0%	19-Apr-16	29-Jul-16	-33					

- Actual Work
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- Milestone

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30-Jan-16	DRMs updated as of 31 Jan. 2016, 3MRP	ZJ	

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

28-Jan-16

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016					
								Jan	Feb	Mar	Apr	May	
030 Outbound Kiosks, Section IX, Subject to Excision													
C03010	Submission & Approval for Steel Works	100	100	0%	01-Feb-16	06-Jun-16	-24						
External Works for Portion J													
Sign Gantry DS104													
SS0130	Sign Gantry DS104 SI Drilling, 2 Nr.	12	0	100%	18-Dec-15 A	04-Jan-16 A							
PORTION N													
Portion N Structure													
Box Culvert B													
Bored Pile													
SB0510	Box B - Predrill SI, 30 nos.	30	14	53.33%	01-Dec-15 A	19-Feb-16	105						

- Actual Work
- Remaining Work
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30-Nov-15	Initial Works Pogramme Rev. 3, 3MRP	ZJ	
31-Dec-15	DRMs updated as of 31 Dec. 2015, 3MRP	ZJ	
30-Jan-16	DRMs updated as of 31 Jan. 2016, 3MRP	ZJ	

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016										
								Feb	Mar	Apr	May	Jun						
HKBCF - VCP DRMs Programme, (IWP 04), UD 290216																		
CONTRACT DATES																		
Site Access & Possession																		
Possession of Portion of Site																		
A0010	Possession of Portion A1 (<= 70 days)	0	0	0%		31-Mar-16*	-287											◆ Possession of Portion A1 (<= 70 days)
A0020	Possession of Portion A2 (<= 75 days)	0	0	0%		31-Mar-16*	-282											◆ Possession of Portion A2 (<= 75 days)
A0030	Possession of Portion B (<=100 days)	0	0	0%		31-Mar-16*	-257											◆ Possession of Portion B (<=100 days)
A0060	Possession of Portion E (<=160 days)	0	0	0%		01-Apr-16*	-198											◆ Possession of Portion E (<=160 days)
A0090	Possession of Portion H1 (<=273 days)	0	0	0%		29-Feb-16*	-52											◆ Possession of Portion H1 (<=273 days)
A0100	Possession of Portion H2 (<=273 days)	0	0	0%		31-Mar-16*	-84											◆ Possession of Portion H2 (<=273 days)
Access to Locations of the Site																		
A0220	Contract Date for Access to Location 1.2 (405 days)	0	0	0%		18-May-16*	0											◆ Contract Date for
A0310	Contract Date for Access to Location 1.8 PCB (Basement level up to ground floor slab) (395 days)	0	0	0%		08-May-16*	0											◆ Contract Date for Access
Section/Stage Subject to Excision																		
A0730	Contract Date for Section IIA (345 days, latest date when the Engineer may order)	0	0	0%	19-Mar-16*		0											◆ Contract Date for Section IIA (345 days, latest date when the Engine
A0740	Contract Date for Section IIB (100 days, latest date when the Engineer may order)	0	0	100%	30-Jan-16 A													◆ Contract Date for Section IIB (100 days, latest date when the Engineer may order)
A0750	Contract Date for Section IIC (320 days, latest date when the Engineer may order)	0	0	100%	23-Feb-16 A													◆ Contract Date for Section IIC (320 days, latest date when the Engineer may order)
A0760	Contract Date for Section III (273 days, latest date when the Engineer may order)	0	0	100%	30-Jan-16 A													◆ Contract Date for Section III (273 days, latest date when the Engineer may order)
A0810	Contract Date for Section IX (270 days, latest date when the Engineer may order)	0	0	100%	30-Jan-16 A													◆ Contract Date for Section IX (270 days, latest date when the Engineer may order)
A0830	Contract Date for Stage 20 (270 days, latest date when the Engineer may order)	0	0	100%	30-Jan-16 A													◆ Contract Date for Stage 20 (270 days, latest date when the Engineer may order)
A0840	Contract Date for Stage 21 (270 days, latest date when the Engineer may order)	0	0	100%	30-Jan-16 A													◆ Contract Date for Stage 21 (270 days, latest date when the Engineer may order)
A0850	Contract Date for Stage 22 (270 days, latest date when the Engineer may order)	0	0	100%	30-Jan-16 A													◆ Contract Date for Stage 22 (270 days, latest date when the Engineer may order)
PRELIMINARY																		
A0610	Mobilization of Plant	70	0	100%	10-Apr-15 A	29-Feb-16 A												
Precast Yard for Bridge Segment																		
A0620	Engineering Service and Factory Preparation	120	49	59.17%	01-Dec-15 A	29-Apr-16	-137											
A0630	Segment Manufacture	300	300	0%	30-Apr-16	06-May-17	-137											
PORTION A1																		
Portion A1 Structures																		
Bridge A9																		
Bored Pile																		
S91015	Bored piles for P904, A905, 4nos	58	58	0%	01-Apr-16	11-Jun-16	18											
Box Culvert D																		
Bored Pile																		
SD0040	Bored Piling for Box Culvert D 45 nr. (11 no. cast)	128	90	30%	05-Oct-15 A	20-Jul-16	-34											
SD0080	Box Culvert D Pile Testing (Stage 1)	7	7	0%	01-Apr-16	09-Apr-16	-34											
SD0090	Box Culvert D Pile Testing (Stage 2)	7	7	0%	26-Apr-16	04-May-16	-34											

■ Actual Work
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

29-Feb-16

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016					
								Feb	Mar	Apr	May	Jun	
Box Culvert D Construction													
SD0060	Box Culvert D Construction (Stage 1)	50	50	0%	11-Apr-16	10-Jun-16	139						
SD0070	Box Culvert D Construction (Stage 2)	50	50	0%	05-May-16	05-Jul-16	-34						
049 - Sewage Treatment Plant, Portion A1 & A2													
A04940	Bored Piling (39 Nr.) (3 Nr. cast)	148	133	10%	29-Dec-15 A	11-Aug-16	-212						
Portion A1 Buildings													
036 - Weigh Station													
A03640	Finishing	120	84	30%	13-Jan-16 A	13-Jul-16	190						
A03670	BS for Office Accomodation (Stage 8)	90	68	25%	13-Jan-16 A	23-Jun-16	123						
A03690	Other BS + E&M Instaalation	180	126	30%	02-Nov-15 A	31-Aug-16	224						
037 C&ED Tower Cum Inbound Cargo Examination Building (Portion A1 & B)													
A03720	Substructure	50	5	90%	13-Oct-15 A	07-Apr-16	-106						
A03730	Super Structure	110	44	60%	02-Jan-16 A	31-May-16	-106						
A03790	Other BS + E&M Installation	235	212	10%	15-Dec-15 A	06-Mar-17	74						
041 Fire Station Cum Ambulance Depot													
A04100	Excavation + Blinding	14	14	0%	01-Apr-16	18-Apr-16	-144						
A04110	Substructure	84	84	0%	20-Apr-16	30-Jul-16	-145						
042 Drill Tower													
A04210	Driven Piles 16 Nr.	15	15	0%	01-Apr-16	19-Apr-16	-145						
A04220	Piling Test	10	10	0%	20-Apr-16	30-Apr-16	-70						
A04230	Excavation	14	14	0%	03-May-16	19-May-16	-70						
A04240	Substructure	35	35	0%	20-May-16	30-Jun-16	-70						
052 - Transforms (Zone 4)													
A05235	Energisation by CLP	50	44	12%	24-Feb-16 A	23-Apr-16	277						
A05240	BS Installation (KD9)	66	26	60%	02-Nov-15 A	02-Apr-16	208						
A05250	Finishing (KD10)	87	35	60%	14-Dec-15 A	13-Apr-16	208						
A05260	Completion of remaining works	66	66	0%	13-Apr-16	04-Jul-16	274						
External Works for Portion A1													
Drainage Works													
B00010	Initial Survey	6	6	0%	17-Aug-15 A	08-Apr-16	-231						
SG0020	Drainage Works (4210m & 76MHs)	250	248	1%	16-Sep-15 A	03-Jun-17	-137						
SG0030	Sewerage (1063m & 30MHs)	250	250	0%	01-Apr-16	02-Feb-17	-41						
PORTION A2													
External Works for Portion A2													
Drainage Works													
B00020	Initial Survey	6	6	0%	01-Apr-16	08-Apr-16	-199						
PORTION B													

- █ Actual Work
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

29-Feb-16

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016				
								Feb	Mar	Apr	May	Jun
Portion B Structures												
027 - Staff Subway												
C02710	ELS + Blind (Bay 4 - 19) (16 Bay)	47	38	20%	27-Oct-15 A	16-Apr-16	-91					
C02720	Bay 4 - 13 Construction - Base Slab	21	25	0%	03-Nov-15 A	31-Mar-16	-67					
C02730	Bay 4 - 13 Construction - Wall + Top Slab	30	50	0%	15-Dec-15 A	30-Apr-16	-67					
C02740	Bay 14-19 Construction - Base Slab	21	44	0%	06-Jan-16 A	23-Apr-16	-91					
C02750	Bay 14-19 Construction - Wall + Top Slab	30	74	0%	17-Feb-16 A	31-May-16	-91					
C02760	Internal Finishes & Cable Containment (KD1)	30	30	0%	03-May-16	07-Jun-16	-62					
C02770	BS + E&M Installation for ACVSS (Stage 1)	30	30	0%	13-May-16	18-Jun-16	-62					
028 - Staff Subway												
C02810	ELS + Blind (Bay 20-24) (5 Bay)	42	0	100%	11-Feb-16 A	29-Feb-16 A						
C02820	Bay 20-24 Construction - Base Slab	28	28	0%	25-Feb-16 A	11-Nov-16	-230					
029 - Staff Subway												
C02910	ELS + Blind (Bay 25-33) (9 Bay)	40	40	0%	16-Apr-16	04-Jun-16	-89					
C02920	Bay 25-29 Construction - Base Slab	22	22	0%	09-May-16	04-Jun-16	-89					
C02930	Bay 25-29 Construction - Wall + Top Slab	28	28	0%	28-May-16	02-Jul-16	-89					
C02940	Bay 30-33 Construction - Base Slab	21	21	0%	09-May-16	03-Jun-16	-89					
Portion B Buildings												
027/028 Inbound Kiosks & 029 Outbound Kiosks												
A02700	Submission & Approval for Steel Works	50	50	0%	29-Feb-16	30-Apr-16	-135					
A02710	Pre-fabrication for the Steel Kiosks	100	100	0%	03-May-16	30-Aug-16	-135					
027/028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Excision												
B02730	Submission & Approval for Steel Works	75	75	0%	29-Feb-16	01-Jun-16	-20					
026 Inbound IMM and DOH Secondary Screening Building												
A02620	Raft Foundation	40	0	100%	18-Jan-16 A	15-Feb-16 A						
A02630	Super Structure	70	56	20%	16-Feb-16 A	19-Dec-16	-143					
A02690	Other BS + E&M Installation	180	180	0%	01-Feb-16 A	21-Aug-17	-63					
054 Inbound Fixed X-ray Building												
A05430	Substructure	50	0	100%	26-Jan-16 A	29-Feb-16 A						
A05440	Super Structure for Tx Room	60	60	0%	01-Apr-16	14-Jun-16	-147					
A05490	Other BS + E&M Installation	180	180	0%	08-Feb-16 A	02-May-17	29					
038 AFCD Office												
A03810	Excavation + Blinding	7	7	0%	28-Apr-16	06-May-16	-130					
039 Police Main Building												
A03910	Excavation + Blinding	12	12	0%	01-Apr-16	15-Apr-16	-197					
A03920	Substructure	70	70	0%	16-Apr-16	11-Jul-16	-197					
040 Incident Control Tower												
A04010	Excavation + Blinding	10	10	0%	16-Apr-16	27-Apr-16	-137					

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

29-Feb-16

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016					
								Feb	Mar	Apr	May	Jun	
102 HKPF UVSS Monitor Room													
A10200	Excavation + Blinding	7	7	0%	16-Apr-16	23-Apr-16	11						
103 Police Inspection Post													
A10310	Excavation + Blinding	5	5	0%	11-Apr-16	15-Apr-16	-54						
HPL Composite Panel Cladding System													
B10310	Shop Drawing Submission and Approval	30	30	0%	25-May-16	29-Jun-16	12						
057 Transformers (Zone 2)													
A05710	Excavation + Blinding	10	10	0%	01-Apr-16	13-Apr-16	-207						
A05720	Raft Foundation	52	52	0%	14-Apr-16	16-Jun-16	-207						
107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B													
C10710	Excavation + Blinding	7	7	0%	01-Apr-16	09-Apr-16	-143						
C10720	Raft Foundation	32	32	0%	11-Apr-16	19-May-16	-143						
C10730	Superstructure (Roof Slabs)	62	62	0%	20-May-16	02-Aug-16	-143						
113 - Field Kiosk for Access Control, Portion B													
B11310	Excavation + Blinding	7	7	0%	16-Apr-16	23-Apr-16	-53						
B11320	Raft Foundation	32	32	0%	25-Apr-16	02-Jun-16	-53						
External Works for Portion B													
Drainage Works													
SG1540	Drainage Works (7812m & 168MHs)	300	291	3%	17-Dec-15 A	22-Mar-17	-82						
SG3580	Sewerage (1175m & 32MHs)	300	291	3%	02-Jan-16 A	22-Mar-17	-84						
Waterpipe Laying													
SW1550	Fresh Water Main Laying (1972m)	300	300	0%	05-Apr-16	05-Apr-17	-84						
SW1560	Flushing Water Main Laying (1851m)	300	300	0%	05-Apr-16	05-Apr-17	-84						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting													
SU5300	Duct Laying for Utilities/Telecom Cabling	300	300	0%	05-Apr-16	05-Apr-17	-84						
Roadworks													
SR1640	Subbase (43152 ton)	342	342	0%	12-Apr-16	07-Jun-17	-84						
SR3590	Bitumen Pavement (61126 ton)	342	342	0%	11-May-16	06-Jul-17	-84						
SR3600	Rigid Pavement (594 m3), Footpath & EVA	342	342	0%	11-May-16	06-Jul-17	-84						
Sign Gantry ADS 306A & ADS 306B													
SS0110	Sign Gantry ADS306A SI Drilling, 2 Nr.	7	0	100%	11-Jan-16 A	30-Jan-16 A							
SS0120	Sign Gantry ADS 306A Pre-bored H Piling, 8 Nr.	30	27	10%	18-Feb-16 A	04-Aug-16	7						
SS5230	Submission and approval for Sign Gantry	147	147	0%	01-Apr-16	26-Sep-16	-147						
PORTION C													
Portion C Buildings													
010 - Inbound Coach Kiosk & Staff Subway Entrance													
A01010	Substructure and Staircase Construction	60	60	0%	22-Mar-16	06-Jun-16	-157						
009 - Shuttle Bus Kiosk & Staff Subway Entrance													
A00910	ELS + Blinding (Bay 0-3) (4 bay)	42	42	0%	01-Apr-16	23-May-16	-179						
A00920	Constructing Base Slab of Bay 0-3	28	28	0%	19-May-16	21-Jun-16	-179						
External Works for Portion C													
Works in Location 1.2, 1.8 & 011 - Emergency Generator Building													
BB1440	Works in Location 1.2	90	90	0%	19-May-16	02-Sep-16	132						

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29-Feb-16

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016					
								Feb	Mar	Apr	May	Jun	
External Works for Portion E													
<i>Drainage Works</i>													
B00060	Initial Survey	6	6	0%	02-Apr-16	09-Apr-16	-27						
PORTION G, H1 & H2													
Portion G Structures													
<i>Bridge A1</i>													
Bored Pile													
S10120	Bore pile, 10 nos.	58	58	0%	29-Feb-16	11-May-16	32						
S10140	Pile Testing	7	7	0%	25-May-16	01-Jun-16	32						
<i>Bridge A2</i>													
Bored Pile													
S21410	Bore pile + P301 + P601, (6 + 4) Nr., 7 no. done	73	29	60%	26-Nov-15 A	07-Apr-16	-128						
S21820	Pile Testing	7	7	0%	18-Apr-16	26-Apr-16	61						
Pile Cap													
S21850	Cap - Pier P205	30	30	0%	26-Apr-16	02-Jun-16	61						
S21870	Cap - Pier P202, P204	30	29	5%	23-Feb-16 A	07-Jul-16	61						
<i>Bridge A6</i>													
Bored Pile													
S63510	Bore pile for P606, A607/A711, 6 Nr. (1 Nr. cast A711/P1)	46	37	20%	02-Feb-16 A	15-Apr-16	-162						
S63520	Bore pile for other 8 Nr.	58	52	10%	11-Jan-16 A	18-Jun-16	-162						
S63720	Pile Testing for 606, A607/A711	7	7	0%	26-Apr-16	05-May-16	-137						
S63725	Pile Testing for P601	7	7	0%	20-Apr-16	28-Apr-16	-128						
Pile Cap													
S63410	Cap - P606, P607/711	40	40	0%	05-May-16	23-Jun-16	-137						
S63420	Cap - P601	30	27	10%	24-Feb-16 A	01-Jun-16	-128						
<i>Bridge A7a, A7b, A7c</i>													
Bored Pile													
S74150	Predrill SI for P701, P702 - P705, 10 Nr.	30	0	100%	03-Feb-16 A	25-Feb-16 A							
S74160	Bore Piling for P706, P707, P712, 6 Nr. (3 Nr. cast)	44	26	40%	14-Dec-15 A	19-Sep-16	-132						
S74170	Bore Piling for A701, P702 - P705, 10 Nr. (1 Nr. done)	42	38	10%	20-Nov-15 A	24-Sep-16	-116						
S74180	Bore Piling for P708, P709, P710, 6 Nr. (2 Nr. cast)	44	26	40%	21-Jan-16 A	21-Oct-16	-130						
<i>Bridge A8</i>													
Bored Pile													
S86130	Bore pile P802, P803, A804, 6 Nr.	87	78	10%	27-Jan-16 A	21-Jul-16	-16						
Portion G Buildings													
<i>033 Inbound Private Car Exam Building</i>													
A03300	Excavation + Blinding (PL Test 20 - 23/1/16)	10	9	10%	25-Jan-16 A	21-Jun-16	-46						
<i>035 - Sewage Pumping Station, Portion G</i>													

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

Date	Revision	Checked	Approved
31-Dec-15	DRMs updated as of 31 Dec. 2015, 3MRP	ZJ	
30-Jan-16	DRMs updated as of 31 Jan. 2016, 3MRP	ZJ	
29-Feb-16	DRMs updated as of 31 Feb. 2016, 3MRP	ZJ	

Activity ID	Activity Name	Original Duration	Remaining Duration	% Complete	Start	Finish	Total Float	2016				
								Feb	Mar	Apr	May	Jun
A03530	Bored piling (5 nr.) (1 Nr. cast)	46	37	20%	26-Jan-16 A	15-Apr-16	-25					
A03540	Sheet Piling as ELS for Wet Well	12	12	0%	15-Apr-16	29-Apr-16	-25					
A03550	Pile Testing, 5 Nr.	7	7	0%	29-Apr-16	09-May-16	-25					
A03560	ELS + Blinding for Wet Well	10	10	0%	09-May-16	21-May-16	-25					
A03570	Constructing of Base Slab of Wet Well	20	20	0%	21-May-16	15-Jun-16	-25					
051 Transformers (Zone 5)												
A05100	Excavation + Blinding (PL test 20 - 23/1/16)	5	0	100%	27-Jan-16 A	15-Feb-16 A						
A05110	Substructure	15	0	100%	16-Feb-16 A	23-Feb-16 A						
A05140	Super Structure	35	32	10%	24-Feb-16 A	08-Jul-16	-129					
A05190	Other BS + E & M Installation	150	150	0%	22-Feb-16 A	20-Mar-17	62					
External Works for Portion G, H1 & H2												
Sign Gantry DS40, DS41 & DS75												
SS0170	Submission and approval for Sign Gantry	90	90	0%	29-Feb-16	20-Jun-16	-65					
PORTION J												
Portion J Structure												
030 Outbound Private Car & GV Kiosks												
A03010	Submission & Approval for Steel Works	60	60	0%	29-Feb-16	13-May-16	-54					
A03020	Pre-fabrication for the Steel Kiosks	84	84	0%	16-May-16	23-Aug-16	-54					
030 Outbound Kiosks, Section IX, Subject to Excision												
C03010	Submission & Approval for Steel Works	100	100	0%	29-Feb-16	02-Jul-16	-45					
PORTION N												
Portion N Structure												
Box Culvert B												
Bored Pile												
SB0510	Box B - Predrill SI, 30 nos.	30	0	100%	01-Dec-15 A	27-Feb-16 A						

- Actual Work
- Remaining Work
- Critical
- Milestone

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

Report No.: 0165/15/ED/0365

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 measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.

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

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

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 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. 	<ol style="list-style-type: none"> 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 exceedances abated.

Event / Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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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Report No.: 0165/15/ED/0365

Appendix E

Implementation Schedule for Environmental Mitigation Measures (EMIS)

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality				
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	All construction sites	V
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> 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; A stockpile of dusty material should not 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 concrete, bituminous materials or hardcores; 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally 	All construction sites	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation 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 <ul style="list-style-type: none"> 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	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	√
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	√
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Representative dust monitoring station	√
S5.5.7.1	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant; <ul style="list-style-type: none"> 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; 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 	Selected Representative dust monitoring station	N/A
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: <ul style="list-style-type: none"> 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	√
Construction Nose (Air borne)				
S6.4.10	N1	1) Use of good site practices to limit noise emissions by considering the following: <ul style="list-style-type: none"> 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	√

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	All construction sites	V
S6.4.12	N3	3) Install movable noise barriers (typically density@14kg/m acoustic mat or full enclosure close to noisy plants including compressor, generators, saw.	For plant items listed in Appendix 6D of the EIA report at all construction sites	N/A
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	V
Sediment				
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
Waste Management (Construction Waste)				
S8.3.8	WM1	<p>Construction and Demolition Material</p> <p>The following mitigation measures should be implemented in handling the waste:</p> <ul style="list-style-type: none"> 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 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		disposal sites to the Project Proponent and get its approval before implementation		
S8.3.9- S8.3.11	WM2	<u>C&D Waste</u> <ul style="list-style-type: none"> • 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
S8.2.12- S8.3.15	WM3	<u>Chemical Waste</u> <ul style="list-style-type: none"> • 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	<u>Sewage</u> <ul style="list-style-type: none"> • 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	<u>General Refuse</u> <ul style="list-style-type: none"> • 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 Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>law.</p> <ul style="list-style-type: none"> • 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 Quality (Construction Phase)				
S9.11.1.7	W2	<p><u>Land Works</u></p> <p>General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:</p> <ul style="list-style-type: none"> • 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 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 sewerage system; 	Land-based works area	V
S9.11.1.7	W2	<ul style="list-style-type: none"> • all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; • 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 	Land-based works area	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>washing bay and the public road should be surfaced with crushed stone or coarse gravel;</p> <ul style="list-style-type: none"> • 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; • 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 system. 		
Ecology (Construction Phase)				
S10.7	E4	<ul style="list-style-type: none"> • Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater 	Land-based works areas	V
S10.7	E5	<ul style="list-style-type: none"> • Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Land-based works areas	V
S10.7	E8	<ul style="list-style-type: none"> • Control vessel speed • Skipper training • Predefined and regular routes for working vessels; avoid Brother Islands. 	Marine Traffic	V
Fisheries				
S11.7	F4	<ul style="list-style-type: none"> • Maritime Oil Spill Response Plan (MOSRP); • Contingency plan. 	HKBCF	V
Landscape & Visual (Detailed Design Phase)				
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> • 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 	HKBCF	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and <ul style="list-style-type: none"> • 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 (Construction Phase)				
S14.3.3.3	LV2	Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. G3. Not applicable as this is for HKLR. G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF G5. Vegetation reinstatement and upgrading to disturbed areas G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed G7. Providing planting area around peripheral of HKBCF for tree planting screening effect; G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. G9. Reserve of loose natural granite rocks for re-use, Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.	HKBCF	N/A
S14.3.3.3	LV3	<u>Mitigate Visual Impacts</u> V1. Minimize time for construction activities during construction period. V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.	HKBCF	N/A
EM&A				
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	All construction sites	V
S15.5 – S15.6	EM2	1) An Environmental Team needs to be employed as per the EM&A Manual. 2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. 3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	All construction sites	V

Legend: V = implemented;

x = not implemented;

N/A = not applicable

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Appendix F

Site Audit Findings and Corrective Actions

Report No.: 0165/15/ED/0365

Appendix F – Site Audit Findings and Corrective Actions

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, 13 site inspections were carried out on 3, 10, 17, 23 and 31 December 2015, 7, 14, 20 and 28 January 2016, and 4, 12, 18 and 26 February 2016.

Particular observations during the site inspections are described below.

20 November 2015

1. CHEC was reminded that good housekeeping practice shall be maintained on site. Subsequently, good housekeeping practice was maintained on site. The observation was closed on 3 December 2015.
2. CHEC was reminded that stagnant water was found in manhole. Subsequently, Manhole was filled. The observation was closed on 3 December 2015.
3. CHEC was reminded that construction materials and stagnant water were found in the wells of rooftop. Subsequently, Construction Materials and stagnant water were removed in the wells of rooftop. The observation was closed on 3 December 2015.

23 November 2015

1. CHEC was reminded to fully cover the tarpaulin sheets properly for the exposed earth slope at CUE's works area. Subsequently, the exposed earth slope was fully covered with tarpaulin sheets properly at CUE's works area. The observation was closed on 3 December 2015.

3 December 2015

1. CHEC was reminded for temporary stockpiling of untreated marine mud shall be lined with impermeable sheeting, bunded and with proper leachate control measures implemented at Portion A. Subsequently, the temporary stockpiling of untreated marine mud was removed at Portion A. The observation was closed on 10 December 2015.

10 December 2015

1. CHEC was reminded to remove stagnant water within site boundary. Subsequently, stagnant water was removed properly within site boundary. The observation was closed on 17 December 2015.
2. CHEC was reminded to maintain good housekeeping practice at CUE. Subsequently, housekeeping performance was improved at CUE. The observation was closed on 17 December 2015.
3. CHEC was reminded to replace drip tray for the generator at CUE. Subsequently, the generator was removed from CUE. The observation was closed on 17 December 2015.
4. CHEC was reminded for temporary stockpiling of untreated marine mud shall be lined with impermeable sheeting, bunded and with proper leachate control measures implemented at CUE. Subsequently, the temporary stockpiling of untreated marine mud was removed and the piling works previously conducted at CUE was completed. The observation was closed on 17 December 2015.

17 December 2015

1. CHEC was reminded to supplement the details of the CNP at CUE. Subsequently, the details of the CNP were supplemented at CUE. The observation was closed on 23 December 2015.

23 December 2015

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1. CHEC was reminded to provide drip tray for chemical storage at CUE works area. Subsequently, chemical storage was removed at CUE works area. The observation was closed on 31 December 2015.
2. CHEC was reminded to provide a new drip tray with adequate size for generator at CUE works area. Subsequently, a new drip tray with adequate size was provided for generator at CUE works area. The observation was closed on 31 December 2015.

31 December 2015

1. CHEC was reminded to remove the construction wastes accumulated in the tray at CUE works area. The observation was closed on 7 January 2016.
2. CHEC was reminded to remove the stagnant water accumulated at CUE works area. The observation was closed on 7 January 2016.

7 January 2016

1. CHEC was reminded to maintain good housekeeping practice at CUE works area. Subsequently, good housekeeping practice was maintained on site. The observation was closed on 14 January 2016.
2. CHEC was reminded to remove the stagnant water at Area 1. Subsequently, stagnant water was removed on site. The observation was closed on 28 January 2016.
3. CHEC was reminded to properly store chemicals at CUE works area. Subsequently, chemicals were stored properly on site. The observation was closed on 14 January 2016.

14 January 2016

1. CHEC was reminded to remove the stagnant water at CUE works area. Subsequently, stagnant water was removed on site. The observation was closed on 28 January 2016.
2. CHEC was reminded to remove the stagnant water at Area 1. Subsequently, stagnant water was removed on site. The observation was closed on 28 January 2016.

20 January 2016

1. CHEC was reminded to maintain good housekeeping practice at CUE works area. Subsequently, good housekeeping practice was maintained on site. The observation was closed on 28 January 2016.

28 January 2016

1. CHEC was reminded to clear and prevent the oil spillage from generator's drip tray at CUE works area. Subsequently, the oil was cleared at CUE works area. The observation was closed on 4 February 2016.
2. CHEC was reminded to clear and prevent the oil spillage on site at STP works area. Subsequently, the oil was cleared on site at STP works area. The observation was closed on 4 February 2016.
3. CHEC was reminded to cover the excavated marine sediment properly with tarpaulin sheets at STP works area. Subsequently, the excavated marine sediment was removed at STP works area. The observation was closed on 4 February 2016.

4 February 2016

1. CHEC was reminded to maintain housekeeping practice at Area 1. Subsequently, housekeeping practice was maintained at Area 1. The observation was closed on 12 February 2016.
2. CHEC was reminded to remove stagnant water at Area 1. Subsequently, stagnant water was removed at Area 1. The observation was closed on 12 February 2016.

12 February 2016

1. No particular finding.

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18 February 2016

1. CHEC was reminded to maintain good housekeeping practice at CUE works area. Subsequently, housekeeping practice was maintained at CUE works area. The observation was closed on 26 February 2016.

26 February 2016

1. CHEC was reminded to remove the stagnant water accumulated at the generator's drip tray at CUE works area and the concreted area at Area 1. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
2. CHEC was reminded to provide drip tray for chemical containers or handle as chemical waste at Area 1. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

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

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Appendix G

Waste Flow Table



Monthly Summary of Waste Flow Table for 2015 (year)

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
		(see Note 1)						(see Note 2)		
	(in '000m 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										
Feb										
Mar										
Apr	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0
Jun	0.003	0	0	0	0.003	0	0	0	0	0.063
Jul	0.402	0	0	0	0.402	0	0	0	0	0.029
Aug	0.100	0	0	0	0.100	0	0	0	0	0.044
Sept	0	0	0	0	0	0	0	0	0	0.034
Oct	0	0	0	0	0	0	0	0	0	0.024
Nov	0	0	0	0	0	0	0	0	0	0.034
Dec	0	0	0	0	0	0	0	0	0	0.044
Total	0.505	0	0	0	0.505	0	0	0	0	0.272

Notes:

(1) Broken concrete for recycling into aggregates.

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



Monthly Summary of Waste Flow Table for 2016 (year)

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
		(see Note 1)						(see Note 2)		
	(in '000m 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	0.992	0	0.073
Feb	0.000	0	0	0	0.000	0	0	0	0	0.093
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	0.992	0.000	0.166

Notes:

(1) Broken concrete for recycling into aggregates.

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

Monthly Summary of Excavated Marine Sediment for 2016 (year)

Month	Total Quantity of Excavated Marine Sediment Generated in '000m ³	Reused in this contract in '000m ³	Reused in other Projects in '000m ³	Disposed of at CMP in '000m ³
Jan	1.950	0	0	1.950
Feb	2.328	0	0	2.328
Mar				
Apr				
May				
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Total	4.278	0.000	0.000	4.278

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Appendix H

Environmental Licenses and Permits

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

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/I	HKBCF	30-Jun-15	17-Jul-15	17-Jul-15	Nil	Superseded By EP-353/2009/J	
2	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/J	HKBCF	18-Feb-16	25-Feb-16	25-Feb-16	Nil	Valid	
3	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	
4	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	
5	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	
6	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	
7	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	
8	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	
9	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	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0999-15	CUE	28-Aug-15	11-Sept-15	14-Sept-15	10-Dec-15	Superseded By GW-RS1388-15	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1065-15	Portion A1	15-Sept-15	29-Sept-15	30-Sept-15	31-Dec-15	Superseded By GW-RS1388-15	
12	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1203-15	CUE	20-Oct-15	03-Nov-15	02-Nov-15	31-Jan-16	Superseded By GW-RS1388-15	

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
13	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1315-15	Portion G	12-Nov-15	26-Nov-15	28-Nov-15	28-Feb-16	Valid until 28-Feb-16	
14	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0029-15	Drill Tower	27-Nov-15	11-Dec-15	14-Dec-15	13-Apr-16	Valid	
15	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS1388-15	Main Site Area	02-Dec-15	16-Dec-15	21-Dec-15	18-Mar-16	Valid	
16	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0035-16	Main Site Area	31-Dec-15	14-Jan-16	18-Jan-16	17-Mar-16	Valid	
17	Permit issued Under the Dumping at Sea Ordinance	EP/MD/16-121	South of Brothers (CMP2)	26-Oct-15	17-Dec-15	18-Dec-15	17-Jan-16	Valid until 17-Jan-16	
18	Permit issued Under the Dumping at Sea Ordinance	EP/MD/16-161	South of Brothers (CMP2)	29-Dec-15	15-Jan-16	20-Jan-16	19-Feb-16	Valid until 19-Feb-16	
19	Permit issued Under the Dumping at Sea Ordinance	EP/MD/16-177	South of Brothers (CMP2)	27-Jan-16	11-Feb-16	20-Feb-16	19-Mar-16	Valid	

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Appendix I

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Appendix I –

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

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