

Our ref JFP/GC/bw/T355861/02/02/L049

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Your ref

Ramboll Environ Hong Kong Limited Room 2403, 24/F, Jubilee Centre 18 Fenwick Street Wanchai, Hong Kong

> 11 May 2016 **By Email**

Attn: Mr. Raymond Dai – Independent Environmental Checker

Dear Sir,

Contract No. HY/2013/04 Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Boundary Crossing Facilities – Infrastructure Works Stage II (Southern Portion) Monthly EM&A Report for April 2016

In accordance with Condition 5.4 of the Environmental Permit (EP-353/2009/K) covering the captioned contract, we are pleased to submit the certified Monthly EM&A Report for April 2016 for your verification.

Yours faithfully For MOTT MACDONALD HONG KONG LIMITED

Gary Chow Environmental Team Leader

Encl.

cc. AECOM – Mr. Alfred Cheng (By Email) China State Construction Engineering (Hong Kong) Ltd. – Mr. Gary Ng (By Email)

20/F AIA Kowloon Tower, Landmark East, 100 How Ming Street, Kwun Tong, Kowloon, Hong Kong **T** +852 2828 5757 **F** +852 2827 1823 **W** www.mottmac.com.hk Mott MacDonald Hong Kong Limited



Ref.: HYDHZMBEEM00_0_4158L.16

12 May 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. Alfred Cheng

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/2013/04 – HZMB HKBCF – Infrastructure Works Stage II (Southern Portion) Monthly Environmental Monitoring & Audit Report for April 2016

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for April 2016 certified by the ET Leader (ET's ref.: "JFP/GC/bw/T355861/02/02/L049" dated 11 May 2016) and provided to us via e-mail on 12 May 2016.

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

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

Konget

Raymond Dai Independent Environmental Checker

c.c.

, HyD MMHK CSCE

HvD

Mr. Matthew Fung Mr. Horace Hong Mr. Gary Chow Mr. Eddie Tang (By Fax: 3188 6614) (By Fax: 3188 6614) (By Fax: 2827 1823) (By Fax: 2459 4336)

Internal: DY, YH, CL, ENPO Site

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Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)

Monthly EM&A Report for April 2016

May 2016

China State Construction Engineering (Hong Kong) Limited



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Executive Summary

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/04 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Infrastructure Works Stage II (Southern Portion)" (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to China State Construction Engineering (Hong Kong) Limited (hereafter referred to as "the Contractor") and Mott MacDonald Hong Kong Limited (MMHK) was appointed as the Environmental Team (ET) by the Contractor.

The Contract is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of the Contract took place on 13 March 2015 and the construction works commenced on 13 July 2015.

Mott MacDonald Hong Kong Limited has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKBCF (Version 1.0) and will be providing environmental team services for the Contract.

This is the 10th Monthly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 1 to 30 April 2016 (the "reporting period").

Environmental Monitoring and Audit Progress

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

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

Environmental Site Inspection: 7, 14, 18 and 26 April 2016

Breaches of Action and Limit Levels

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

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

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



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

During the reporting period, an application for variation of Environmental Permit for the Project (submitted on 24 March 2016) was approved by EPD on 11 April 2016 with the issue of Environmental Permit No. EP-353/2009/K.

Future Key Issues

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

- Pre-bore, Bored Pile, Driven H Pile and Pile Cap works.
- Generation of excavated marine sediment and/or transport to HKBCF Contract No. HY/2013/03 (if required).
- No marine works are scheduled under this contract.



1 Introduction

1.1 Background

On 13 March 2015, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by China State Construction Engineering (Hong Kong) Limited (also referred to as "the Contractor") to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for Contract No. HY/2013/04 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Infrastructure Works Stage II (Southern Portion)" ("the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR).

The Contract is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Commencement of the Contract took place on 13 March 2015 and the construction works commenced on 13 July 2015. The works areas of the contract are shown in **Appendix A**.

This is the 10th Monthly EM&A Report summarising the findings of EM&A activities conducted under the Contract from 1 to 30 April 2016 (the "reporting period") and is submitted to fulfil Condition 5.4 of the EP.

1.2 Project Description

The Proposed works under this Contract comprise the following:

- Construction of vehicular bridge and at-grade roads at the southern portion of Hong Kong Boundary Crossing Facilities;
- Construction of associated street lighting, street furniture, road marking, road signage, box culverts and outfalls, drainage, sewerage, fresh water and flushing water supply, irrigation, landscape, electrical and mechanical (E&M), utilities and services works;
- Provisioning of civil engineering works and power supply for Traffic Control and Surveillance System (TCSS); and
- Other works in accordance with the Contract.

1.3 Project Organisation

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**.

Party	Position	Name	Telephone	Fax	
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Alfred Cheng	3958 7471	3468 2076	
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y H Hui	3465 2888	3465 2899	
	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899	
	Environmental Site Supervisor	Ray Yan	5181 8165	3465 2899	
Contractor	Site Agent	Eddie Tang	9863 7686	2459 4336	

Table 1.1: Contact Information of Key Personnel

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Z:\Hong Kong\ENL\PROJECTS\355861 HZMB HKBCF (Southern Portion)\03 Deliverable\07 Monthly EM&A Report\(10) Apr 2016\(10) Apr 2016.docx



Party	Position	Name	Telephone	Fax
(China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Gary Ng	9475 6832	2459 4336
Environmental Team	Environmental Team Leader	Gary Chow	2828 5874	2827 1823
(Mott MacDonald Hong Kong Limited) 24-hour Complaint Hotline		-	5236 7111	

1.4 Construction Programme

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

1.5 Construction Works undertaken during the Reporting Period

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

- Pre-bored: 13 nos. holes completed.
- Bored Pile: 18 nos. holes completed.
- Driven H Pile: 47 nos. holes in progress.
- Generation of excavated marine sediment and transport to HKBCF Contract No. HY/2013/03 for disposal.

No marine works were conducted under this contract during the reporting period.



2 Air Quality Monitoring

2.1 Monitoring Locations

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

Table 2.1: Construction Dust Monitoring Locations

Identification No.	Location Description
AMS6 ⁽¹⁾	Dragonair/CNAC (Group) Building
AMS7 (1)	Hong Kong SkyCity Marriot Hotel

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.

2.2 Monitoring Requirements

The air quality monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF".

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

Table 2.2: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, μg/m ³	Limit Level, μg/m³
AMS6 – Dragonair / SNAC (Group) Building (HKIA)	360	500
AMS7 – Hong Kong SkyCity Marriot Hotel	370	500

Table 2.3: Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, μg/m ³	Limit Level, μg/m³
AMS6 – Dragonair / SNAC (Group) Building (HKIA)	173	260
AMS7 – Hong Kong SkyCity Marriot Hotel	183	260

The event and action plan is provided in **Appendix D**.

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

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2.3 Monitoring Results

The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports prepared for Contract Nos. HY/2011/03 and HY/2010/02 respectively.

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

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



3 Noise Monitoring

3.1 Monitoring Locations

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

Table 3.1: Construction Noise Monitoring Locations

Identification No.	Location Description
NMS2 ⁽¹⁾	Seaview Crescent
NMS3B ^{(1) (2)}	Site Boundary of Site Office Area at Works Area WA2

Remarks:

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(1) The ET of this Contract should conduct impact noise monitoring at the NMS listed in the table as part of EM&A programme according to the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.

(2) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

3.2 Monitoring Requirements

The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology and monitoring schedule are detailed in the monthly EM&A Reports prepared for Contract No. HY/2010/02.

The Action and Limit Levels for construction noise are defined in Table 3.2.

able 3.2: Action and Limit Level for Construction Noise		
Parameter	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received	75 dB(A)*
07.00 – 19.00 hours on hormal weekdays	when one documented complaint is received	75 UD(A)

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

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

3.3 Monitoring Results

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



4 Environmental Site Inspection and Audit

4.1 Site Inspection

Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the project. During the reporting period, site inspections were carried out on 7, 14, 18 and 26 April 2016.

Particular observations during the site inspections and corrective actions undertaken by the Contractor are described below.

21 March 2016

a. Stockpile of exposed excavated marine sediment was observed. Subsequently, tarpaulin covering was provided for the stockpile. The observation was closed on 14 April 2016.

7 April 2016

a. No new observations were made.

14 April 2016

a. A drip tray full of stagnant water was observed. Subsequently, the stagnant water was removed. The observation was closed on 18 April 2016.

18 April 2016

a. The Contractor was reminded to ensure that all non-road mobile machinery (NRMM) subject to control under the relevant regulation are approved or exempted (as applicable) and duly labelled accordingly. Subsequently, all relevant NRMM were affixed with the relevant approval/exemption label. The observation was closed on 26 April 2016.

26 April 2016

a. No new observations were made.

4.2 Advice on the Solid and Liquid Waste Management Status

The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting. As a practical means, the disposal operation is managed by a single HKBCF 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 this Contract.

There was no generation of excavated sediment for treatment during this reporting period. Any treatment of excavated marine sediment will be conducted using cement solidification/stabilization (Cement S/S) techniques and the treated sediment will be reused onsite for either backfilling or landscaping (e.g. berm material).

The monthly summary of waste flow table is detailed in Appendix E.



The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.

4.2.1 Disposal of Marine Sediment Extracted from Bored Piling Works

4.2.1.1 Background

After the acceptance of the review of the approved Sediment Quality Report (SQR) for this Project under EPD letter dated 19 August 2015, an approval to dispose the marine sediment extracted from bored piling for this Project was then approved under memo from Secretary, Marine Fill Committee (MFC) of CEDD dated 20 August 2015 for the disposal of marine sediment extracted from bored piling works. The disposal sites allocated to this Project are the Mud Pit CMP2 of the Confined Marine Sediment Disposal Facility to the South of The Brothers (or at the East of Sha Chau). As advised by CEDD in the memo dated 19 February 2016, from 00:00 on 22 March 2016 onward, the disposal space at CMP2 of the South of The Brothers is closed and all disposal of contaminated sediment is to be carried out at CMP Vd to the East of Sha Chau (ESC).

There was no generation of excavated sediment for treatment during this reporting period. The marine sediment extracted from this Contract was disposed to the MFC allocated disposal sites directly without treatment.

4.2.1.2 Dumping Arrangements

The barge for disposal of marine sediment will 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 will be allocated to one Contract. The quantity of marine sediment disposed on each date is from one Contract.

During dumping, each Contractor is responsible for transporting the marine sediment from his site area to the barge. The estimated quantity of marine sediment in each truck is confirmed by Resident Site Staff of each Contract. 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.

4.2.1.3 Reporting

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Marine sediment extracted from bored piling in this Contract was disposed to MFC allocated dumping site via Contract No. HY/2013/03 on 11, 12, 18, 19, 20, 21, 22 and 23 April 2016. The quantities disposed up to end of April 2016 are in following table (**Table 4.1**):

Table 4.1:	Summary of Marine	Sediment disposed to	Dumping Site v	via Contract No. HY/2013/03
------------	-------------------	----------------------	----------------	-----------------------------

Month/Year	Quantity Disposed (m ³)
Up to end March 2016	5446
April 2016	5028
Total =	10474

Note: For monthly breakdown of these quantities, please refer to the waste flow table in Appendix E.



4.3 Environmental Licenses and Permits

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

4.4 Implementation Status of Environmental Mitigation Measures

In response to the site audit findings, the Contractor carried out corrective actions.

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. Most of the necessary mitigation measures were implemented properly.

4.5 Summary of Exceedance of the Environmental Quality Performance Limit

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

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

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

4.6 Summary of Complaints, Notification of Summons and Successful Prosecution

There were no complaints received in relation to the environmental impact during the reporting period. The details of cumulative statistics of Environmental Complaints are provided in **Appendix H**.

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

Statistics on notifications of summons and successful prosecutions are summarized in Appendix H.

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5 Future Key Issues

5.1 Construction Programme for the Coming Months

As informed by the Contractor, the major construction activities for May 2016 are summarized in Table 5.1.

Table 5.1:	Construction Activities for May 2016
Site Area	Description of Activities
HKBCF	 Pre-bore, Bored Pile, Driven H Pile and Pile Cap works.
	 Generation of excavated marine sediment and/or transport to HKBCF Contract No. HY/2013/03 (if required).
	 No marine works are scheduled under this contract.

5.2 Environmental Site Inspection Schedule for the Coming Month

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

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6 Conclusions

6.1 Conclusions

Commencement of the Contract took place on 13 March 2015 and the construction works of the Contract commenced on 13 July 2015.

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

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

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

Environmental site inspections were carried out on 7, 14, 18 and 26 April 2016. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.

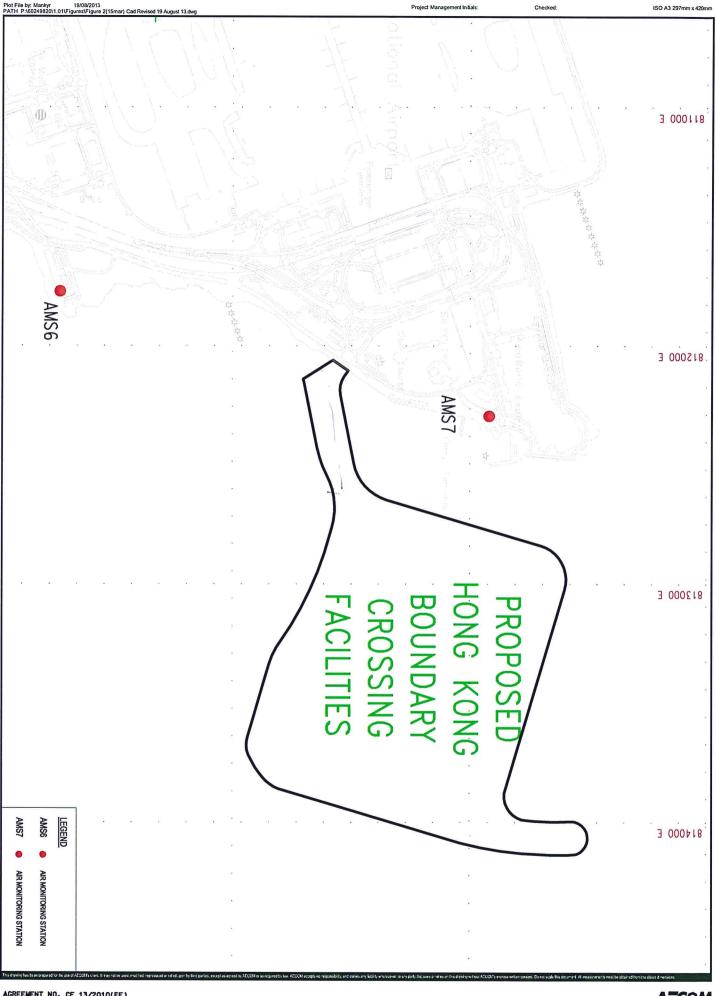
There were no complaints received in relation to the environmental impact during the reporting period.

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



Figures

Figure 1 Location of Air Quality Monitoring Stations



AGREEMENT NO. CE 13/2010(EE) HZMB HONG KONG BOUNDARY CROSSING FACILITIES (SUPERSTRUCTURE & INFRASTRUCTURE) -DESIGN AND CONSTRUCTION Project No.: - Date: Aug 2013

AIR QUALITY AND NOISE MONITORING STATIONS

AECOM Figure 4-1

Figure 2 Location of Noise Quality Monitoring Stations

Plot File by: LAMACL 15/03/2012 PATH P:#60249820#1.01#CAD#Drawing#Figure#Figure 2(15mar).dwg

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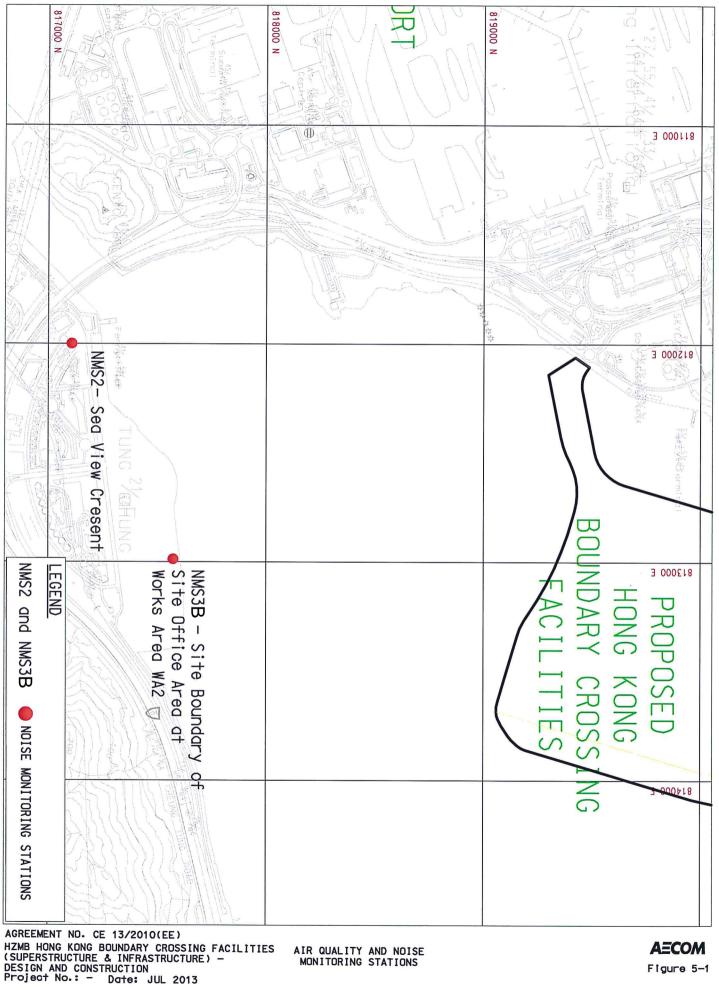
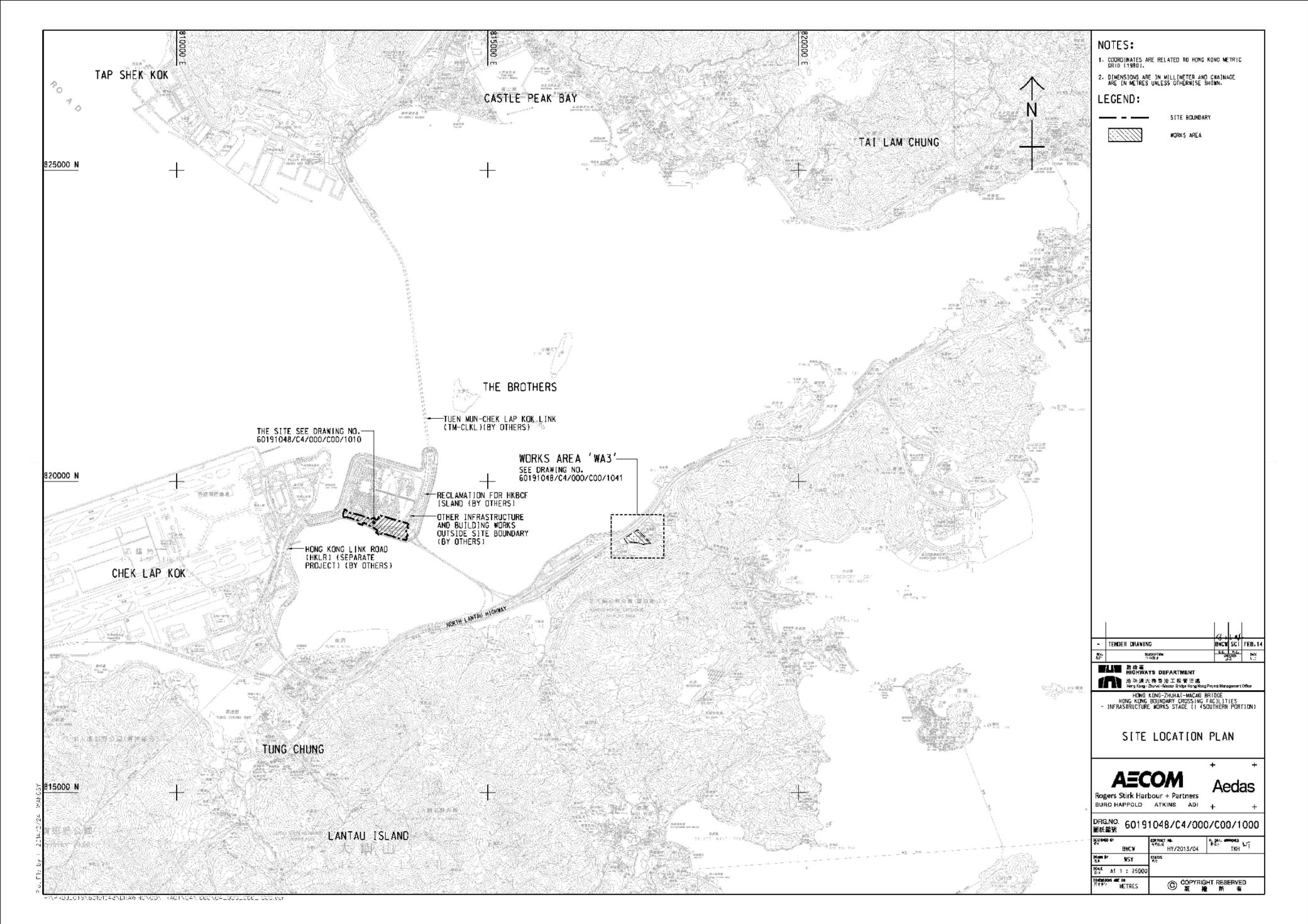


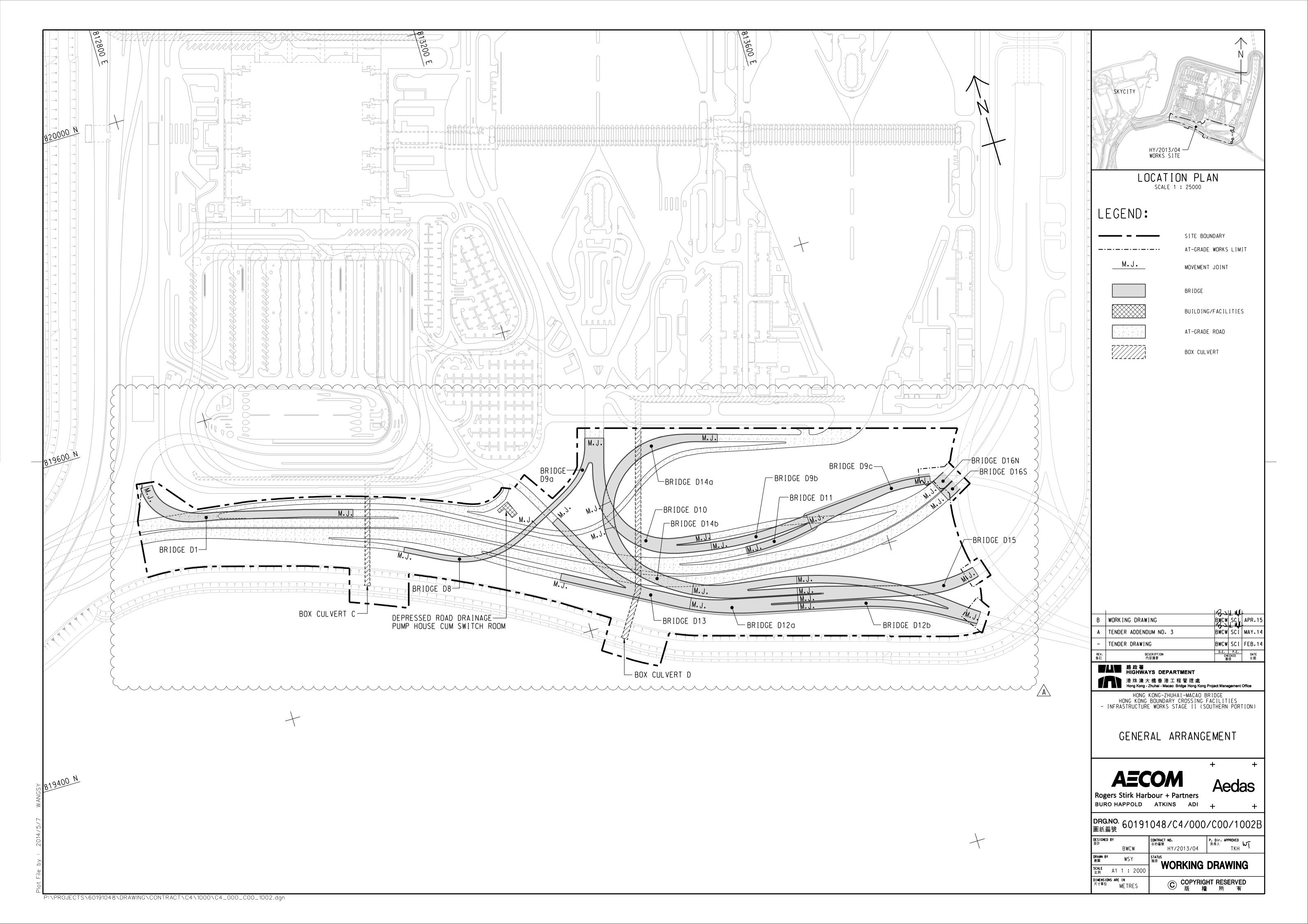
Figure 5-1

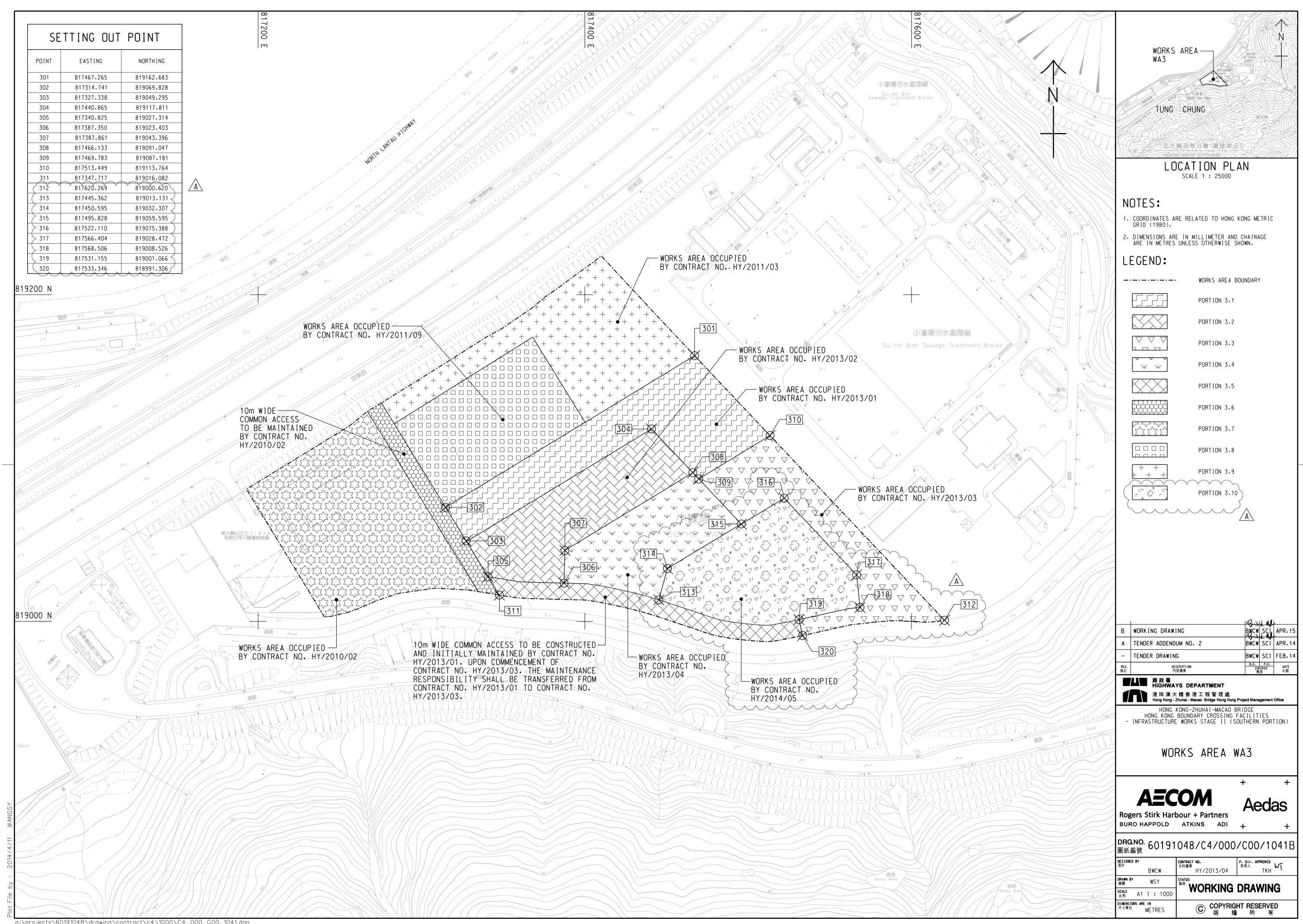
Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion) Monthly EM&A Report for April 2016



Appendix A. Location of Works Areas







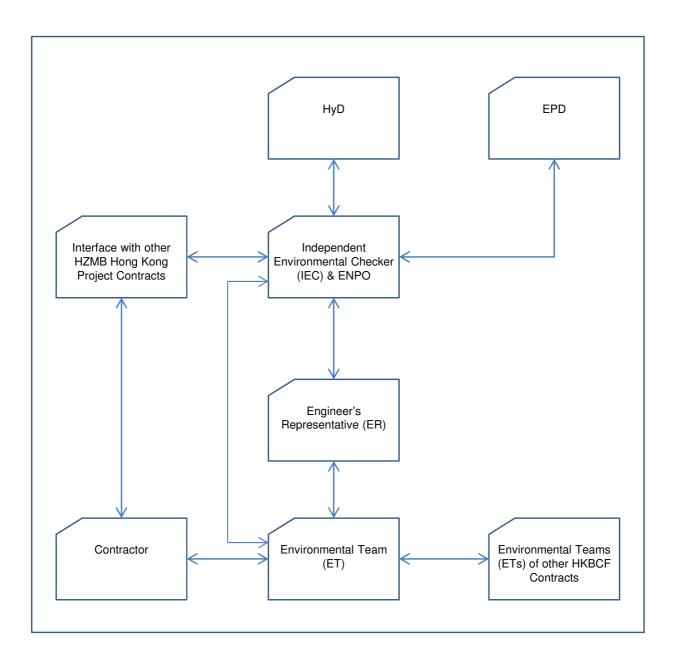
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Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion) Monthly EM&A Report for April 2016



Appendix B. Project Organization for Environmental Works

Project Organisation for Environmental Works



Line of Communication

Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion) Monthly EM&A Report for April 2016



Appendix C. Construction Programme

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

y ID	Activity Name	Orig Dur Early Start	Early Finish	Total Float	Calendar Remarks	
ong Kong Bo	undary Crossing Facilities - Infrastructure Wor	ks Stage II (Sou	uthern Port			O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D J F M A M J Jul A S O N D Jul A S O N D Jul A S Jul A S Jul A S Jul A S
Contract Key						
CON.KD.0005	Letter of Acceptance (LOA)	0 27-Feb-15*		0	CAL 1 - 7 day	27-Feb-15 💊
CON.KD.0010	Commencement Date	0 13-Mar-15		0	CAL 1 - 7 day 14 days from LOA	113-Mar-115 🔶
CON.KD.0020	Completion of the whole of the Works (1520)	0	10-May-19	0	CAL 1 - 7 day	
Possession Da	ates					
CON.PD.1010	Site Possession of Portion A1 (61)	0 13-May-15*		0	CAL 1 - 7 day	13. May 15 ♦
CON.PD.1020	Site Possession of Portion A2 (61)	0 13-May-15*		0	CAL 1 - 7 day	13 May 15 🔶
CON.PD.1030	Site Possession of Portion A3 (476)	0 01-Jul-16*		0	CAL 1 - 7 day	01-Jul-1/6 ◆
CON.PD.1040	Site Possession of Portion A4 (627)	0 29-Nov-16*		0	CAL 1 - 7 day	29-Nøv-18 🔶
ON.PD.1050	Site Possession of Portion A5 (61)	0 13-May-15*		0	CAL 1 - 7 day	
CON.PD.1060	Site Possession of Portion A6 (61)	0 13-May-15*		0	CAL 1 - 7 day	
CON.PD.1070	Site Possession of Portion B1 (92)	0 13-Jun-15*		0	CAL 1 - 7 day	13.Jun-15 ♦
ON.PD.1080	Site Possession of Portion B2 (123)	0 14-Jul-15*		0	CAL 1 - 7 day	14-Jui⊧15 ♦
CON.PD.1080				0	CAL 1 - 7 day	
	Site Possession of Portion B3 (476)	0 01-Jul-16*				
ON.PD.1100	Site Possession of Portion B4 (627)	0 29-Nov-16*		0	CAL 1 - 7 day	29-Nov-16 ◆
CON.PD.1130	Site Possession of Portion B5 (123)	0 14-Jul-15*		0	CAL 1 - 7 day	14-Juli 15 ◆
CON.PD.1140	Site Possession of Portion C1 (184)	0 13-Sep-15*		0	CAL 1 - 7 day	13-Sep-15 ◆
:ON.PD.1150	Site Possession of Portion C2 (184)	0 13-Sep-15*		0	CAL 1 - 7 day	13-Sepi15 ◆
ON.PD.1160	Site Possession of Portion D1 (183)	0 12-Sep-15*		0	CAL 1 - 7 day	12-5ep 15 ♦
CON.PD.1170	Site Possession of Portion D2 (488)	0 13-Jul-16*		0	CAL 1 - 7 day	13⊱Juli16 ♦
ON.PD.1180	Site Possession of Portion D3 (183)	0 12-Sep-15*		0	CAL 1 - 7 day	12-Sep115 🔶
ontractual K	ey Dates - Stage / Section Completion of the Work	S				
ON.FOT.KD01	KD01 - Achievement of Stage 1A (525)	0	18-Aug-16*	0	CAL 1 - 7 day	◆ 18-Aug+16
CON.FOT.KD02	KD02 - Achievement of Stage 1B (650)	0	21-Dec-16*	0	CAL 1 - 7 day	◆ 21-Dec-16
ON.FOT.KD03	KD03 - Achievement of Stage 2 (525)	0	18-Aug-16*	0	CAL 1 - 7 day	◆ 18-Aug+16
ON.FOT.KD04	KD04 - Achievement of Stage 3 (465)	0	19-Jun-16*	0	CAL 1 - 7 day	◆ 19-jun-16
ON.FOT.KD05	KD05 - Achievement of Stage 4 (615)	0	16-Nov-16*	0	CAL 1 - 7 day	◆ 16-Nov-16
ON.FOT.KD06	KD06 - Achievement of Stage 5 (615)	0	16-Nov-16*	0	CAL 1 - 7 day	◆ 16-Nov-16
CON.FOT.KD07	KD07 - Achievement of Stage 6 (270)	0	07-Dec-15*	0	CAL 1 - 7 day	◆ 07-Dệc-1/5
CON.FOT.KD08	KD08 - Completion of Section I of the Works (795)	0	15-May-17*	0	CAL 1 - 7 day	◆ 15-May:17
ON.FOT.KD09	KD09 - Completion of Section II of the Works (803)	0	23-May-17*	0	CAL 1 - 7 day	◆ 23.May-17
CON.FOT.KD10	KD10 - Completion of Section III of the Works (803)	0	23-May-17*	0	CAL 1 - 7 day	♦ 23 May-17
CON.FOT.KD11	KD11 - Completion of Section IV of the Works (565)	0	27-Sep-16*	0	CAL 1 - 7 day	◆ 27; Sep-16
CON.FOT.KD12	KD12 - Completion of Section V of the Works (803)	0	23-May-17*	0	CAL 1 - 7 day	◆ 23;May-17
CON.FOT.KD13	KD13 - Completion of Section VI of the Works (465)	0	19-Jun-16*	0	CAL 1 - 7 day	◆ 19-Jun-16
ON.FOT.KD14	KD14 - Completion of Section VII of the Works (1155)	0	10-May-18*	0	CAL 1 - 7 day	
ON.FOT.KD15	KD15 - Completion of Section VIIIA of the Works (795)	0	15-May-17*	0	CAL 1 - 7 day	♦ 15-May:17
ON.FOT.KD16	KD16 - Completion of Section VIIIB of the Works (1155)	0	10-May-18*	0	CAL 1 - 7 day	
ON.FOT.KD17	KD17 - Achievement of Stage 7 (718)	0	27-Feb-17*	0	CAL 1 - 7 day	• 27-Feb-17
ON.FOT.KD17A	KD17A - Completion of Section VIIIC of the Works (795)	0	15-May-17*	0	CAL 1 - 7 day	◆ 15-May:17
:ON.FOT.KD18	KD1% - Completion of Section VIIID of the Works (1155)	0	10-May-18*	0	CAL 1 - 7 day	
		U	10 Way-10		SALT / ddy	
	國連架工程(香港)有限公司 STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.		ent Milestone cal Remaining aining Work	g Work	R	HY/2013/04 - Initial Works Programme (Rev. 01)

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a Date: 27-Feb-15 t Date: 23-Apr-15 13	3:05	HY/	2013/04	- Hong Kong Boundary Cro	ossing Fac	cilities l	nfrastruct	ure Work	s Stage I	I (Souther	n Portion)			Page	e:2/24
ity ID	Activity Name	Orig Dur Early Start	Early Finish	Total Calendar Remarks			2015		2016 A M I W A S		2017 M A M J Jul A S O N D			NDUEN	2019
CON.FOT.KD19	KD19 - Completion of Section IXA of the Works (1160)	0	15-May-18*	0 CAL 1 - 7 day								5 F M A M 5 5			
CON.FOT.KD20	KD20 - Completion of Section IXB of the Works (1520)	0	10-May-19*	0 CAL 1 - 7 day											🔷 10-May
Contractual Ha	andover Dates to Employer														
CON.HD.1190	Handover of Portion A1 (KD8+28 days)	0	12-Jun-17*	0 CAL 1 - 7 day							♦ 12-Jun-17				
CON.HD.1200	Handover of Portion A2 (KD8+28 days)	0	12-Jun-17*	0 CAL 1 - 7 day							♦ 12-Jun-17				
CON.HD.1210	Handover of Portion A3 (KD9+28 days)	0	20-Jun-17*	0 CAL 1 - 7 day							♦ 20-Jun-17				
CON.HD.1220	Handover of Portion A4 (KD10+28 days)	0	20-Jun-17*	0 CAL 1 - 7 day							♦ 20-Jun+17				
CON.HD.1240	Handover of Portion A5 (KD13+0 days)	0	19-Jun-16*	0 CAL 1 - 7 day					♦ 19-Jun-16						
CON.HD.1250	Handover of Portion A6 (KD14+28 days)	0	07-Jun-18*	0 CAL 1 - 7 day								♦ 07	-Jun-18		
CON.HD.1260	Handover of Portion B1 (KD8+28 days)	0	12-Jun-17*	0 CAL 1 - 7 day							♦ 12-Jun-17				
CON.HD.1270	Handover of Portion B2 (KD8+28 days)	0	12-Jun-17*	0 CAL 1 - 7 day							♦ 12-Jun-17				
CON.HD.1280	Handover of Portion B3 (KD11+28 days)	0	25-Oct-16*	0 CAL 1 - 7 day						♦ 25-Oct-16					
CON.HD.1290	Handover of Portion B4 (KD12+28 days)	0	20-Jun-17*	0 CAL 1 - 7 day							♦ 20-Jun-17				
CON.HD.1300	Handover of Portion B5 (KD14+28days)	0	07-Jun-18*	0 CAL 1 - 7 day				+				♦ 07	-Jun-18		
CON.HD.1310	Handover of Portion C1 (KD8+28 days)	0	12-Jun-17*	0 CAL 1 - 7 day							♦ 12-Jun-17				
CON.HD.1320	Handover of Portion C2 (KD13+0 days)	0	19-Jun-16*	0 CAL 1 - 7 day					♦ 19-Jun-16						
CON.HD.1330	Handover of Portion D1 (KD8+28 days)	0	12-Jun-17*	0 CAL 1 - 7 day							♦ 12-Jun-17				
CON.HD.1340	Handover of Portion D2 (KD8+28 days)	0	12-Jun-17*	0 CAL 1 - 7 day							♦ 12-Jun-17				
CON.HD.1350	Handover of Portion D3 (KD8+28 days)	0	12-Jun-17*	0 CAL 1 - 7 day							♦ 12-Jun-17				
Contractor Pla	nned Completion: Key Dates - Stage / Section Cc	ompletion of the Wo	orks												
	KD01 - Achievement of Stage 1A (525)	0	18-Aug-16*	0 CAL 2 - 6 day					♦ 18	-Aug-16					
CON.SC.KD02	KD02 - Achievement of Stage 1B (650)	0	14-Dec-16*	0 CAL 2 - 6 day						♦ 14-Dec-1	6				
CON.SC.KD03	KD03 - Achievement of Stage 2 (525)	0	18-Aug-16*	0 CAL 2 - 6 day					♦ 18	-Aug-16					
CON.SC.KD04	KD04 - Achievement of Stage 3 (465)	0	11-Jun-16*	0 CAL 2 - 6 day					🔷 11-Jun-16						
CON.SC.KD05	KD05 - Achievement of Stage 4 (615)	0	09-Nov-16*	0 CAL 2 - 6 day						♦ 09-Nov-16					
	KD06 - Achievement of Stage 5 (615)	0	16-Nov-16*	0 CAL 2 - 6 day						♦ 16-Nov-16					
	KD07 - Achievement of Stage 6 (270)	0	07-Dec-15*	0 CAL 2 - 6 day				♦ 07-Dec-15							
	KD08 - Completion of Section I of the Works (795)	0	15-May-17*	0 CAL 2 - 6 day							♦ :15-May-17				
	KD09 - Completion of Section II of the Works (803)	0	23-May-17*	0 CAL 2 - 6 day							◆ 23-May-17				
	KD10 - Completion of Section III of the Works (803)	0	23-May-17*	0 CAL 2 - 6 day							♦ 23-May-17				
	KD11 - Completion of Section IV of the Works (565)	0	27-Sep-16*	0 CAL 2 - 6 day						• 27-Sep-16					
	KD12 - Completion of Section V of the Works (803)	0	16-May-17*	0 CAL 2 - 6 day							♦ 16-May-17				
	KD13 - Completion of Section VI of the Works (465)	0	18-Jun-16*	0 CAL 2 - 6 day					♦ 18-Jun-16						
	KD14 - Completion of Section VII of the Works (1155)	0	10-May-18*	0 CAL 2 - 6 day								♦ 10-Ma	y-18		
	KD15 - Completion of Section VIIIA of the Works (195)	0	15-May-17*	0 CAL 2 - 6 day							♦ 15-May-17				
	KD16 - Completion of Section VIIIB of the Works (195)	0	10-May-18*	0 CAL 2 - 6 day								♦ 10-Ma	v-18		
	KD16 - Completion of Section V118 of the works (1155) KD17 - Achievement of Stage 7 (718)	0		0 CAL 2 - 6 day							20-Feb-17	↓ 10-100a	, .		
CON.SC.KD17		0	20-Feb-17*								◆ 15-May-17				
	KD17A - Completion of Section VIIIC of the Works (795)	0	15-May-17*	0 CAL 2 - 6 day							▼ 15-10/d y 17	♦ 10-Ma	v.18		
	KD18 - Completion of Section VIIID of the Works (1155)	0	10-May-18*	0 CAL 2 - 6 day											
	KD19 - Completion of Section IXA of the Works (1160)		15-May-18*	0 CAL 2 - 6 day								♦ 15-M	ay-10		
	KD20 - Completion of Section IXB of the Works (1520)	0	10-May-19*	0 CAL 2 - 6 day											♦ 10-May
	and General Requirements														
Insurance															
	Arrange and Secure Professional Indemnity Insurances and submit copy to Engineer	60 27-Feb-15	27-Apr-15*	0 CAL 1 - 7 day within 60 days											
Programme															

Data Date: 27-Feb-15 Print Date: 23-Apr-15 1	3:05		HY/2	2013/04 -	Hong	Kong Boundary Cros	sing	Faci	litie	es Inf	frast	ructur	re Wo	rks S	tage	e II (\$	South	nern	Porti	on)						Page :	3 / 24	
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar Remarks					15				2016					17			2018			- Ind	2019	
Initial Works P	rogramme							DJF			JUIA	SONE	JJFM			50	NDJ	FM	AMJ	Jui A	SUN		JJUI	A 5 0		FM	AM	J JUI A J
CON.PR.1020.10	Prepare & Submit Initial Works Programm	ne (IWP) 7	27-Feb-15	05-Mar-15	0	CAL 1 - 7 day 7 days from LOA																						
CON.PR.1020.20	Engineer's Approval	30	06-Mar-15	04-Apr-15	0	CAL 1 - 7 day	-		_																			
Provisional Pro	gramme for Piling Works																					 						
CON.PR.1030.10	Prepare Detailed Piling Schedule (refer to	1WP) 14	13-Mar-15	26-Mar-15	9	CAL 1 - 7 day																						
CON.PR.1030.20	Engineer's Approval	24	27-Mar-15	19-Apr-15	9	CAL 1 - 7 day	_			1																		
3 Months Rollin																												
	Prepare 3 Months Rolling Programme	14	27-Feb-15	12-Mar-15	0	CAL 1 - 7 day 14 days from LOA																						
	Engineer's Approval		13-Mar-15	05-Apr-15	0	CAL 1 - 7 day																 						
Detailed Works																												
	Prepare Detailed Works Programme (DW	(9)	05-Apr-15	03-Jun-15	0	CAL 1 - 7 day																						
					0		_																					
	Engineer's Approval	30	04-Jun-15	03-Jul-15*	U	CAL 1 - 7 day																						
Safety & Heal									L_													 						
CON.PR.1060.10	Draft Safety Plan		09-Mar-15		0	CAL 1 - 7 day 14 days from LOA																						
CON.PR.1060.20	Finalized Safety Plan	21	23-Mar-15	12-Apr-15	30	CAL 1 - 7 day 35 days from LOA																						
Environmenta	al Management Plan																											
CON.PR.1080.10	Draft Envirionmental Management Plan	21	27-Feb-15	19-Mar-15	30	CAL 1 - 7 day 21 days from LOA																						
CON.PR.1080.20	Finalized EMP	24	20-Mar-15	12-Apr-15	30	CAL 1 - 7 day 45 days from LOA																						
Sub-Contract	or Management Plan																					 						
CON.PR.1080.50	Prepare Sub-Contractor Management Pla	an 30	27-Feb-15	28-Mar-15	0	CAL 1 - 7 day 30 days from LOA			-																			
CON.PR.1080.60	Engineer's Approval	24	29-Mar-15	21-Apr-15*	0	CAL1-7 day			-	•																		
Temporary Fa	cilities																											
CON.PR.0130	Site Possession / Access to Works Area V	VA3 0	13-Mar-15		10	CAL 2 - 6 day		13-Mar-15	٥																			
CON.PR.0140	Survey / Setting Out	6	13-Mar-15	19-Mar-15	10	CAL 2 - 6 day			0													 						
CON.PR.0150	Engineer's Principal Site Office	45	20-Mar-15	16-May-15	11	CAL 2 - 6 day				-																		
CON.PR.0150.10	Site Formation	3	20-Mar-15	23-Mar-15	10	CAL 2 - 6 day	-		0																			
CON.PR.0150.20	Foundation	5	24-Mar-15	28-Mar-15	10	CAL 2 - 6 day	_		D																			
CON.PR.0150.30	Base Slab	5	30-Mar-15	08-Apr-15	10	CAL 2 - 6 day	_																					
CON.PR.0150.40	Structural Steel Erection	10	09-Apr-15	20-Apr-15	10	CAL 2 - 6 day				,												 						
CON.PR.0150.50	Roof and Wall Cladding		21-Apr-15	28-Apr-15	10	CAL 2 - 6 day	_																					
CON.PR.0150.60	Internal Partition		29-Apr-15	06-May-15	10	CAL 2 - 6 day	_																					
CON.PR.0150.70	Building Services		07-May-15		10	CAL 2 - 6 day																						
CON.PR.0150.80	Fit-Out and Office Furnitures		07-May-15	15-May-15	10	CAL 2 - 6 day																						
CON.PR.0150.80	T&C		-		10				.													 						
			16-May-15			CAL 2 - 6 day					101 15																	
CON.PR.0150.95	Handover to Engineer	0	00 1	18-May-15*	10	CAL 2 - 6 day				▼ 18-1	May-15																	
CON.PR.0160	Contractor's Site Office		08-Apr-15		11	CAL 2 - 6 day																						
CON.PR.0170	External Works - Paving, Drainage and Fe	24	18-May-15	15-Jun-15*	11	CAL 2 - 6 day				-																		
Procurement									_													 						
Bridge Bearin																												
PROC.MA.1610	Detailed Design / Shop Drawings and Mat	terials Submission 60	08-Apr-15	18-Jun-15	31	CAL 2 - 6 day																						
PROC.MA.1615	Engineer's Review / Approval	24	19-Jun-15	18-Jul-15	31	CAL 2 - 6 day																						
PROC.MA.1650	Production / Manufacturing / Facbrication	90	20-Jul-15	04-Nov-15	31	CAL 2 - 6 day																						
PROC.MA.1670	Materials Delivery (first delivery)	0	05-Nov-15		31	CAL 2 - 6 day					05-No	v-15 🔶																
Precast Concr	rete - Segments																					 						
PROC.MA.1760	Moulds Detailed Design Preparation / Sub	omission 48	08-Apr-15	04-Jun-15	11	CAL 2 - 6 day				-																		
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Data Date: 27-Feb-15 Print Date: 23-Apr-15 1	3:05		HY/	2013/04	4 - Hong	g Kong B	oundary Cros	sing	g Faci	litie	s Inf	rastr	uctu	re V	Nor	'ks (Stage	e II (Sou	ther	n Po	ortic	on)								Pag	e : 4 /	24	
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks			-	201						2016					201						2018					19	
PROC.MA.1765	Engineer's Review / Approval	24	05-Jun-15	04-Jul-15	11	CAL 2 - 6 day		0 N	NDJF	MA	M J .	ul A S	ON	DJ	FM	AM	JJul	ASC		JF	MA	MJJ	ulAS	5 0 N	DJ	FM	A M .	J Jul A	A S O	ND	JF	MA	M J Jul	AS
PROC.MA.1770	Mould Fabrication	48	06-Jul-15	29-Aug-15	11	CAL 2 - 6 day																												
PROC.MA.1780	Cast Prototype / Inspection and Approval	24	31-Aug-15	26-Sep-15	11	CAL 2 - 6 day		_																										
PROC.MA.2570	Production of Precast Segments (1101 nos @ 4 segments/ day)	276	29-Sep-15	02-Sep-16	11	CAL 2 - 6 day	1101 nos @ 4 segments / day	,										_								+					(
PROC.MA.2590	Materials Delivery (First Delivery)		10-Nov-15		11	CAL 2 - 6 day		_				10-Nov	-15 🔶																					
PROC.MA.2650	Materials Delivery (Last Delivery)		03-Sep-16		25	CAL 2 - 6 day		_									03-Sep-16																	
						CAL 2 - 0 day											00-3ep-10	Ĭ																
	nd Building Services for Pump House and Switch I																																	
PROC.SC.1285	Detailed Design and Material/ Equipment Submisison & Statutory Approval (FSD/EMSD)	200	08-Apr-15	04-Dec-15	83	CAL 2 - 6 day																												
PROC.SC.1287	Engineer's Review / Approval	24	05-Dec-15	05-Jan-16	83	CAL 2 - 6 day																												
PROC.SC.1290	Procurement and Manufacturing of Materials	180	06-Jan-16	15-Aug-16	83	CAL 2 - 6 day												1																
PROC.SC.1300	Materials Delivery (first delivery)	0	16-Aug-16		83	CAL 2 - 6 day										16	Aug-16	•																
Steel Structur	es for Sign Gantry / High Mast Structure & Other	r Signage	s																															
PROC.MA.1990	Detailed Design / Material Submission	90	08-Apr-15	25-Jul-15	23	CAL 2 - 6 day																												
PROC.MA.1995	Engineer's Review / Approval	24	27-Jul-15	22-Aug-15	23	CAL 2 - 6 day						-	++																					
PROC.MA.2010	Manufacture of Steel Structures	180	24-Aug-15	02-Apr-16	23	CAL 2 - 6 day		_				-																						
PROC.MA.2020	Material Delivery (first delivery)		05-Apr-16		23	CAL 2 - 6 day		_						05-AI	pr-16	•																		
Roads and Bri)																												
		70	00 Apr 15	04 Jul 15	120																													
PROC.MA.2840	Lighting Arrangement Detailed Design / Material Submission and Approval (within 12 weeks)		08-Apr-15	04-Jul-15	139	CAL 2 - 6 day																				ļ								·
PROC.MA.2845	Engineer's Review / Approval		06-Jul-15	01-Aug-15	139	CAL 2 - 6 day																												
PROC.MA.2850	Manufacture of Road and Bridge Lighting	220	03-Aug-15	29-Apr-16	139	CAL 2 - 6 day																												
PROC.MA.2860	Material Delivery (first delivery)	0	30-Apr-16		139	CAL 2 - 6 day								30	0-Apr-1	6 💠																		
Irrigation Sys	tem					· · · · · · · · ·																												
PROC.SC.1180	Detailed Design / Material Submission	160	08-Apr-15	17-Oct-15	98	CAL 2 - 6 day																												
PROC.SC.1185	Engineer's Review / Approval	24	19-Oct-15	16-Nov-15	98	CAL 2 - 6 day																				++-								
PROC.SC.1190	Procurement and Shipment of Irrigation Materials/Equipment	72	17-Nov-15	15-Feb-16	98	CAL 2 - 6 day																												
Soft Landscap	ing																																	
PROC.SC.2760	Propose Nursery for Landscape Materials	48	08-Apr-15	04-Jun-15	166	CAL 2 - 6 day																												
PROC.SC.2780	Joint Inspection and Engineer's approval	24	05-Jun-15	04-Jul-15	166	CAL 2 - 6 day		_																										
PROC.SC.2790	Landscape Materials Growing	224	06-Jul-15	06-Apr-16	166	CAL 2 - 6 day																												·
PROC.SC.2810	Materials Delivery (first delivery)		07-Apr-16		166	CAL 2 - 6 day		_						07-A	Apr-16	•																		
		0	67 Apr 10		100	onez olday								0, 1	.p. 10																			
Construction																																		
	/ Site Establishment & Maintenance Works																																	
	d Site Establlishment																									ļ								
CONS.A1.0100	Site Possession / Access to Portion A1, A2, A5 & A6	0	13-May-15		0	CAL 2 - 6 day			13	3 May-15	•																							
CONS.A1.0110	Mobilisation, Site Clearing and Site Set-up	15	13-May-15	30-May-15	0	CAL 2 - 6 day					-																							
CONS.A1.0120	Install Temporary Facilities / Hygiene Facilities	36	01-Jun-15	14-Jul-15*	0	CAL 2 - 6 day																												
Gates and Hau	Road Construction																																	
CONS.A1.1010	Site Possession / Access to Portion A1	0	13-May-15		18	CAL 2 - 6 day			13	3-May-15	♦																							
CONS.A1.1020	Survey/ Setting Out	6	13-May-15	19-May-15	18	CAL 2 - 6 day				 	0															+								
CONS.A1.1030	Construct Gate 1 at Haul Road	14	20-May-15	05-Jun-15	18	CAL 2 - 6 day																												
CONS.B1.1010	Site Possession / Access to Portion B1	0	13-Jun-15		12	CAL 2 - 6 day		_		13 ₊ Jun	n-15 🔷																							
CONS.B1.1020	Mobilisation, Site Survey and Setting Out		13-Jun-15	19-Jun-15	12	CAL 2 - 6 day		_																										
CONS.B1.1030	Construct Gate 3 and Temporary Haul Road		16-Jun-15	13-Jul-15	12	CAL 2 - 6 day		_																										
				.5 Jui-13	12 2						L														ļ	÷								
CONS.B2.1010	Site Possession / Access to Portion B2 & B5		14-Jul-15	00.1.1.1	0	CAL 2 - 6 day				14	4-Jul+15																							
CONS.B2.1020	Site Survey / Setting out	6	14-Jul-15	20-Jul-15	6	CAL 2 - 6 day						U																						

Data Date: 27-Feb-15 Print Date: 23-Apr-15 13	:05		HY/	2013/04	l - Hong	j Kong B	Soundary Cros	ssing Fac	ilitie	es Inf	irast	tructu	ıre V	Vork	s St	age	II (\$	Sou	ther	rn P	orti	on)									Pag	e : 5 /	/ 24	
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks		- 14 4		15)16						17)18			JEL		019	
CONS.B2.1030	Construct Temporary Haul Road	41	21-Jul-15	05-Sep-15	6	CAL 2 - 6 day	,	ONDJI	F M A	A M J	Jul A		DJ	FMA	. M J	Jul A	IS O	ND	JF	MA	MJ	Jul A	S O	ND	JF	MA	MJ	Jul A	50	ND	JF	MA	M J.	Jul A J
Preliminary Bor	ed Pile and Load Testing at Abutment A11	01																																
CONS.A1.0180	Commence Preliminary Bored Pile at Abutment A1101	C	13-May-15		2	CAL 1 - 7 day	,	1:	3-May-15	5 🔶																								
CONS.A1.0190	Mobilise Plant & Set-up Support	12	13-May-15	24-May-15	2	CAL 1 - 7 day	,			•																								
CONS.A1.0195.10	Predrilling to Preliminary Bored Pile	5	20-May-15	24-May-15	2	CAL 1 - 7 day	,			•																								
CONS.A1.0195.20	GI Report and Verification / Agreement to Founding Lev	rel 8	25-May-15	01-Jun-15	2	CAL 1 - 7 day	,			•																								
CONS.A1.0200	Preliminary Bored Piling - Abutment A1101 (1 no. 2000n	nm dia x 42m) 14	02-Jun-15	15-Jun-15	2	CAL 1 - 7 day	1 no. x 14 days / 1 rig	_		•																								
CONS.A1.0210	Pile Curing	28	16-Jun-15	13-Jul-15	2	CAL 1 - 7 day	,	_		-																								
CONS.A1.0220	Pile Load Testing & Submit Report	28	14-Jul-15	10-Aug-15	2	CAL 1 - 7 day	,				-																							
Preliminary Bor	ed Pile and Load Testing at Abutment A10	6																																
CONS.A1.0400	Commence Preliminary Bored Pile at Abutment A106	C	13-Sep-15		0	CAL 1 - 7 day	•			13-	Sep-15	♦																						
CONS.A1.0410	Mobilise Plant & Set-up Support	12	13-Sep-15	24-Sep-15	0	CAL 1 - 7 day																												
CONS.A1.0415.10	Predrilling to Preliminary Bored Pile	5	25-Sep-15	29-Sep-15	0	CAL 1 - 7 day																												
CONS.A1.0415.20	GI Report and Verification / Agreement to Founding Lev		30-Sep-15	07-Oct-15	0	CAL 1 - 7 day	,																											
CONS.A1.0420	Preliminary Bored Piling - Abutment A106 (1 no. 2000mr		08-Oct-15	21-Oct-15	0	CAL 1 - 7 day	1 no. x 14 days / 1 rig																											
CONS.A1.0430	Pile Curing	28	22-Oct-15	18-Nov-15	0	CAL 1 - 7 day	 					-																						
CONS.A1.0440	Pile Load Testing and Submit Report	28	19-Nov-15	16-Dec-15	0	CAL 1 - 7 day	,	_				_																						
Treatment for B	ored Piling Excavated Materials																																	
CONS.EX.1010	Set-up Stockpile for Excavated Marine Mud	24	26-May-15	23-Jun-15	63	CAL 2 - 6 day	,			-																								
CONS.EX.1020	Pilot Test for Marine Mud Treatment		24-Jun-15	29-Jul-15	63	CAL 2 - 6 day																												
CONS.EX.1030	Solidification / Stabilisation / Approval Method		30-Jul-15	14-Nov-15	63	CAL 2 - 6 day		_																										
CONS.EX.1040	Set-up Treatment Facilities and Storage Yard		17-Oct-15	12-Dec-15	63	CAL 2 - 6 day		_																										
CONS.EX.1050	Full Scale Solidification / Stabilization Treatment and Ver		14-Dec-15	10-Sep-16	63	CAL 2 - 6 day		_																										
CONS.EX.1060	Decommissioning of Treatment Facilities		12-Sep-16		63	CAL 2 - 6 day																												
Site Set Up at Po	-					-																												
CONS.C1.1010	Site Possession / Access to Portion C1 and C2	c	14-Sep-15		15	CAL 2 - 6 day				14-	Sep-15	♦																						
CONS.C1.1020	Site Possession / Access to Portion D1 and D3		12-Sep-15		16	CAL 2 - 6 day		_			Sep-15																							
CONS.C1.1030	Site Set-Up		14-Sep-15	20-Oct-15	15	CAL 2 - 6 day		_				—																						
	r Materials / Segments Delivery																																	
CONS.BP.5010	Prepare Design and Submit Proposal for an Alternative E	Barging Point 24	02-May-15	30-May-15	7	CAL 2 - 6 day	•																											
CONS.BP.5020	Engineer's Review and Approval (AIP)		01-Jun-15	13-Jun-15	7	CAL 2 - 6 day		_																										
CONS.BP.5040	Statutory Approval - MD Vetting, Site Inspection and Ap		15-Jun-15	25-Aug-15	7	CAL 2 - 6 day		_																										
CONS.BP.5050	Marine Department Issues Permit / Consent			25-Aug-15	7	CAL 2 - 6 day					•	25-Aug-15																						
CONS.BP.5060	Construct Barging Point		26-Aug-15		7	CAL 2 - 6 day																												
CONS.BP.5070	Test and Commission		07-Nov-15		7	CAL 2 - 6 day		_																										
				20 107 10		0/122 0 000						_																						
Box Culverts	x Culvert Outfall Construction																																	
CONS.OF.1010	Prepare Documents for Statutory Submission to Marine	Department 40	20-Oct-15	31-Dec-15	33	CAL 2 - 6 day																												
CONS.OF.1020	MD Vetting, Site Inspection and Approval		02-Jan-16	15-Mar-16	33	CAL 2 - 6 day																												
CONS.OF.1020	Marine Department Issues Permit / Consent			15-Mar-16	33	CAL 2 - 6 day								♦ 15-1	Mar-16																			
	Portion A1 & B1)					5.122 U udy																												
Box Culvert D - CONS.A1.1040	(15 bays) Access to Portion A1 (Interface with Contract 03)		12 May 15		0	CAL 2 - 6 day			3-May-15	5																								
CONS.A1.1040	Survey / Setting Out		13-May-15	19-May-15	0	CAL 2 - 6 day											ļ						ļ	ļ			 							
			13-May-15		0																													
CONS.A1.1050	Mobilisation and Plant Set Up	30	13-May-15	17-Jun-15	U	CAL 2 - 6 day																												

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks		=		15				2016					2017						018				2019	
CONS.A1.1055.10	Predrilling at Portion A1 (30 nos)	40	20-May-15	08-Jul-15	0	CAL 2 - 6 day	30 nos x 5d / 4 rigs	O N D J	FM		Jul A	SON	DJF	MA	M J Jul	AS	OND	JF		JJU	AS	ON	DJ	FMA	A M J	Jul A	sor	N D J	FM	AM	J Jul A 3
CONS.A1.1055.20	GI Report and Verification / Agreement to Founding	g Level 38	06-Jun-15	22-Jul-15	0	CAL 2 - 6 day	/			-	-																				
CONS.A1.1060	Box Culvert D - Bored Piling Works (30 nos. 1200-1	800mm dia x 63m + 90	18-Jun-15	05-Oct-15	0	CAL 2 - 6 day	30 nos x 18d / 6 rigs					-																			
CONS.A1.1065	0.65m Rock Socket) Pile Testing / Interface Coring Test	90	23-Jul-15	07-Nov-15	0	CAL 2 - 6 day	/																								
CONS.A1.1070	Install Dewatering Wells + Pump Test + Open Cut	Excavation to formation 76	25-Aug-15	24-Nov-15	0	CAL 2 - 6 day	,																								
CONS.A1.1090	Pile Trimming and Pile Caps (15 nos)		17-Oct-15	13-Jan-16	0	CAL 2 - 6 day	15 Pilecaps x 8 days / 2 WF					_																			
	Box Culvert - Base Slab, Wall & Top Slab - Part 1 (8		06-Nov-15	20-Feb-16	0		8 bays (Base Slab 8d,Walls10d																								
	Box Culvert - Base Slab, Wall & Top Slab - Part 2 (7		25-Nov-15	27-Feb-16	1		& Top Slab 12 days) 7 bays (Base Slab 8d,Walls10d																								
CONS.A1.1100	Backfill / Reinstate and Connect UU and Road Work		07-Jan-16	12-Apr-16	1		& Top Slab 12 days)							<u></u>																	
			07-3411-10	12-Api-10	· ·	CAL 2 - 0 day																									
	- (3 bays and Outfall)	10	0/ 0 1 45	40.0 + 45		041.0 ()						_																			
CONS.B1.1150	Divert / Shift Haul Road to North		06-Oct-15	19-Oct-15	0	CAL 2 - 6 day																									
CONS.B1.1160	Remove Rock Armour		20-Oct-15	05-Nov-15	0	CAL 2 - 6 day																									
CONS.B1.1170	Construct Piling Platform	12	06-Nov-15	19-Nov-15	0	CAL 2 - 6 day																									
CONS.B1.1180.10	Predrilling (6 nos)	15	20-Nov-15	07-Dec-15	0	CAL 2 - 6 day	6 nos x 5 days / 2 rigs					-																			
CONS.B1.1180.20	GI Report and Verification / Agreement to Founding	g Level 15	04-Dec-15	21-Dec-15	0	CAL 2 - 6 day	/																								
CONS.B1.1190	Box Culvert D - Bored Piling (6 nos 1200-1800mm d Socket)	ia x 63m +0.65m Rock 54	21-Dec-15	27-Feb-16	0	CAL 2 - 6 day	6 nos x 18 days / 2 rigs																								
CONS.B1.1200	Pile Testing / Interface Coring Test	54	03-Feb-16	13-Apr-16	0	CAL 2 - 6 day	/																								
CONS.B1.2110	Commence Works on Box Culvert Outfall	0	14-Apr-16		0	CAL 2 - 6 day	/						14-Ap	or-16 🔷																	
CONS.B1.2115	Divert/Shift Haul Road (on top of completed box co	ulvert) 12	14-Apr-16	27-Apr-16	0	CAL 2 - 6 day	/																								
CONS.B1.2130	Remove Piling Platform	14	28-Apr-16	16-May-16	0	CAL 2 - 6 day	/																								
CONS.B1.2140	Install Seawall Block & Rockfill near Seawall	20	17-May-16	08-Jun-16	0	CAL 2 - 6 day	/								•																
CONS.B1.2150	General Fill	14	10-Jun-16	25-Jun-16	0	CAL 2 - 6 day	/																								
CONS.B1.2180	Sheet Piling Works	20	27-Jun-16	20-Jul-16	0	CAL 2 - 6 day	/								-																
CONS.B1.2190	Install Dewatering Wells and Carry Out Pumping Te	st 24	21-Jul-16	17-Aug-16	0	CAL 2 - 6 day	/																								
CONS.B1.2200	ELS Works (2 levels of Strut)	36	18-Aug-16	30-Sep-16	0	CAL 2 - 6 day	Soft Excavation 600m3 /100m3									-															
CONS.B1.2210	Pile Trimming and Construction of Pile Caps	30	03-Oct-16	07-Nov-16	0	CAL 2 - 6 day	/ day + 2 levels of struts at 12 3 pilecaps x 8 days										_														
CONS.B1.2220	Construct Box Culvert Outfall & Connect Drainage	90	08-Nov-16	27-Feb-17	0	CAL 2 - 6 day	3 bays (Base Slab 8d,Walls10d																								
CONS.B1.2230	Backfill, Remove Seawall Blocks & Reinstate Rock A		28-Feb-17	15-May-17	0	CAL 2 - 6 day	& Top Slab 12 days)																								
CONS.B1.2240	Complete Box Culvert D	0		15-May-17	0	CAL 2 - 6 day													•	15-May	-17										
Box Culvert C (F																															
	ven Piles and Load Testing																														
	Commence Preliminary Driven H Pile at Box Culvert	C	13-Sep-15		0	CAL 1 - 7 day				12.	Sep-15																				
CONS.C1.0450	Mobilise Plant & Set-up Support		13-Sep-15	24-Sep-15	0	CAL 1 - 7 day				13.	200.10	-																			
	· · · ·		•		0							-									÷										
CONS.C1.0470.10	-		25-Sep-15	14-Oct-15	U		4 nos x 5 days / Pile - 1 rig					TI																			
	GI Report and Verification / Agreement to Founding		15-Oct-15	22-Oct-15	U	CAL 1 - 7 day						•																			
CONS.C1.0480	Preliminary Driven H Pile (4 nos)		23-Oct-15	01-Nov-15	0		4 nos x 2.5 days / Pile - 1 rig																								
CONS.C1.0500	Pile Load Testing and Submit Report	28	02-Nov-15	29-Nov-15	0	CAL 1 - 7 day																									
Box Culvert C -																					ļ										
CONS.C1.1040	Commence Box Culvert C at Portion C1		06-Nov-15		0	CAL 2 - 6 day					D6-N	ov-15 🔶																			
	Survey / Setting Out		06-Nov-15	12-Nov-15	0	CAL 2 - 6 day																									
CONS.C1.1055.10	Predrilling (56 nos)	47	13-Nov-15	09-Jan-16	0	CAL 2 - 6 day	56 nos x 5 days / 6 Rig					-																			
CONS.C1.1055.20	GI Report and Verification / Agreement to Founding	g Level 47	27-Nov-15	23-Jan-16	0	CAL 2 - 6 day	/																								
CONS.C1.1060	Driven H Piling Works (56 nos x 2.5 days per Pile / 3	B rigs) 47	11-Dec-15	06-Feb-16	0	CAL 2 - 6 day	56 nos x 2.5 Days / 3 Driving Rig																								
CONS.C1.1070	Excavate and Install Dewatering Wells+ Pump Test	47	28-Dec-15	24-Feb-16	0	CAL 2 - 6 day																									
CONS.C1.1090	Pile Trimming and Construction of Pile Caps	72	04-Feb-16	06-May-16	0	CAL 2 - 6 day	14 Pile Caps x 8 days / 2 Work fronts																								
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Activity ID	Activity Name	Orig Dur Ea	rly Start	Early Finish	Total Float	Calendar Remarks		EM	2015 A M J Jul A S O N D		2016				017	SON		E M A	2018			2019	
CONS.C1.1100	Construct Box Culvert & Drainage Connection (5 bays)	72 07	-Mar-16	04-Jun-16	0	CAL 2 - 6 day 76m or 5 Bays		I IVI					JJFN		Jui A	<u> </u>		IVI A	w J Jul		J T IVI		
CONS.C1.1110	Backfill	72 08	-Apr-16	05-Jul-16	0	CAL 2 - 6 day																	
Box Culvert C	- Bay 1-3 and Outfall																						
CONS.C1.1120	Divert / Shift Haul Road to North	14 11	-Feb-16	26-Feb-16	2	CAL 2 - 6 day									++					+	 		
CONS.C1.1150	Remove Rock Armour	18 27	-Feb-16	18-Mar-16	2	CAL 2 - 6 day				-													
CONS.C1.1160	Construct Piling Plaform	14 19	-Mar-16	08-Apr-16	2	CAL 2 - 6 day				-													
CONS.C1.1170.10	Predrilling (36 nos)	45 09	-Apr-16	02-Jun-16	2	CAL 2 - 6 day 36 nos x 5 days / 4 rigs																	
CONS.C1.1170.20	GI Report and Verification / Agreement to Founding Level	45 23	-Apr-16	17-Jun-16	2	CAL 2 - 6 day					-												
CONS.C1.1180	Piling Driving Works - Driven H-Pile (36 nos)	30 27-	-May-16	02-Jul-16	2	CAL 2 - 6 day 36 nos x 2.5 days / 3 rigs					-				+					+	 		
CONS.C1.8480	Commence Box Culvert C Outfall	0 06	-		0	CAL 2 - 6 day				06-Ju	ıl-16 💠												
CONS.C1.8485	Divert /Shift Haul Road to North (on top of completed box culvert)	10 06		16-Jul-16	0	CAL 2 - 6 day																	
CONS.C1.8490	Remove Piling Platform	12 18		30-Jul-16	0	CAL 2 - 6 day																	
	-				0																		
CONS.C1.8500	Seawall Block Installation near Seawall	18 01-		20-Aug-16	0	CAL 2 - 6 day									+++					.	 		
CONS.C1.8510	General Fill	12 22-		03-Sep-16	0	CAL 2 - 6 day																	
CONS.C1.8530	Sheet Piling	14 05		22-Sep-16	0	CAL 2 - 6 day						-											
CONS.C1.8540	Dewatering Wells + Pump Test	24 23	-Sep-16	22-Oct-16	0	CAL 2 - 6 day																	
CONS.C1.8550	ELS Works (2 layers of Strut)	36 24	-Oct-16	03-Dec-16	0	CAL 2 - 6 day																	
CONS.C1.8560	Pile Trimming and Construction of Pile Caps (9 Pilecaps)	32 05	-Dec-16	13-Jan-17	0	CAL 2 - 6 day 9 Pile caps x 8 days / 2 WF							-										
CONS.C1.8570	Construct Box Culvert + Outfall & Drainage Connection (38m or 3 bays)	60 14	-Jan-17	28-Mar-17	0	CAL 2 - 6 day 3 bays																	
CONS.C1.8580	Backfill & Remove Sea Wall Blocks and Reinstate Rock Armour	35 29	-Mar-17	15-May-17	0	CAL 2 - 6 day								-									
CONS.C1.8590	Complete Box Culvert C	0		15-May-17	0	CAL 2 - 6 day								\$ 15	-May-17								
Bridge Works				· · · · · · · · · · · · · · · · · · ·																			
Bridge D1 in Po	rtion C1, D1 and D3 (Interface with Contract HY/2013/03	3)																					
CONS.C1.1130	Access to Portion C1, D1 & D3	0 14	-Sep-15		9	CAL 2 - 6 day			14-Sep-15 🔷												 		
CONS.C1.1140	Survey / Setting Out	6 14	-Sep-15	19-Sep-15	9	CAL 2 - 6 day			D														
CONS.C1.2200.10	Predrilling (17 nos)	30 26	-Sep-15	03-Nov-15	4	CAL 2 - 6 day 17 nos x 5 days / 3 rigs																	
CONS.C1.2200.20	GI Report and Verification / Agreement to Founding Level	8 04	-Nov-15	12-Nov-15	16	CAL 2 - 6 day			D														
CONS.C1.2210	D1 Bored Piling (17 nos. 1800-2000mm dia x 52m) (2 nos + 0.8m Rock Socket)	62 02	-Dec-15	18-Feb-16	0	CAL 2 - 6 day 2 x 18 days and 15 nos x 14																	
CONS.C1.2215	Pile Testing	62 05	-Jan-16	19-Mar-16	0	days / 4 rigs CAL 2 - 6 day															 		
CONS.C1.2220	Pile Trimming + Pile Caps (6 nos)	58 02	-Feb-16	16-Apr-16	0	CAL 2 - 6 day 2 nos x 12 days + 4 nos x 8																	
CONS.C1.2225.10	Construct Pier 508 (Column + Pier head & Bearings) (KD4)	24 23	-Feb-16	21-Mar-16	0	days + 1 x 10 days + trimming CAL 2 - 6 day 1 nos x 12 days				-													
CONS.C1.2225.20	Pier P508 Curing	24 22	-Mar-16	22-Apr-16	0	CAL 2 - 6 day																	
CONS.C1.2225.30	Bearing Installation, Final Inspection and Handover	40 23	-Apr-16	11-Jun-16	0	CAL 2 - 6 day					-												
CONS.C1.2226	Achievement of KD4 (465)	0		11-Jun-16	0	CAL 2 - 6 day					♦ 11-Jun	-1:6					+				 		
CONS.C1.2230	Construct Abutment A106	30 09	-Mar-16	16-Apr-16	0	CAL 2 - 6 day 1 no				_													
CONS.C1.2240	Pier Columns + Pier Head & Bearings P101-P105	60 22		06-May-16	0	CAL 2 - 6 day 5 nos x 12 days																	
CONS.C1.2250	Bridge D1 - Erect Precast Segments + Stitching + Stressing (6 spans)	48 23		21-Jun-16	0	CAL 2 - 6 day 96 segments, 6 spans x 8 days																	
CONS.C1.2250		48 22		17-Aug-16	1	cAL 2 - 6 day 96 segments, 6 spans x 8 days / span CAL 2 - 6 day 288m / 3 moulds @ 5 days cycle																	
	D1 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage & Bridge Lighting					/ 10m bay			ļ						+					ļ	 		
CONS.C1.2265	D1 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, Signages	48 11		05-Dec-16	21	CAL 2 - 6 day 288m / 4 moulds @ 5 days cycle / 10m bay																	
CONS.C1.2270	D1 Final Asphalt Paving + Road Markings	12 13	-Apr-17	29-Apr-17	0	CAL 2 - 6 day																	
CONS.C1.2280	Completion of Bridge D1	0		29-Apr-17	11	CAL 2 - 6 day								♦ 29-A	pr-17								
Bridge D8																							
CONS.C1.2285	Site Possession / Access to Portion C1	0 14	-Sep-15		26	CAL 2 - 6 day			14-Sep-15 🔶														
CONS.C1.2288	Survey / Setting Out	12 14	-Sep-15	26-Sep-15	26	CAL 2 - 6 day																	
CONS.C1.2290.10	Predrilling (10 nos)	25 29	-Sep-15	29-Oct-15	26	CAL 2 - 6 day 10 nos x 5 days / 2 rigs																	

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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks				2015			- 1 - 1	201						2017					20 ⁻					2019	
CONS.C1.2290.20	GI Report and Verification / Agreement to Founding Level	8	30-Oct-15	07-Nov-15	26	CAL 2 - 6 day	/	O N D J	FM	AM	J Jul		N D J	FMA	MJJ	lul A S	S O N	DJ	FM.	<u>а м</u> ,	I Jul A	SO	N D	JF	MA	MJ	Jul A	SON	1 D J	FM	AM	J Jul A S
CONS.C1.2300	D8 Bored Piling (10 nos.2000mm dia x 52m)	70	09-Dec-15	05-Mar-16	0	CAL 2 - 6 day	/ 10 nos x 14 days / 2 rigs																									
	Pile Testing		14-Jan-16	12-Apr-16	0	CAL 2 - 6 day		-																								
	Pile Trimming + Pile Caps (5 nos)		19-Feb-16	28-Apr-16	0		/ 5 nos x 8 days + 6 days																									
					0		trimming																									
	Pier Columns + Pier Head & Bearings		31-Mar-16	28-May-16	U		/ 4 nos x 12 days																									
CONS.C1.2320	Construct Abutment A801	30	16-May-16	20-Jun-16	0	CAL 2 - 6 day	/ 1 no																									
CONS.C1.2340	Bridge D8 - Erect Precast Segments + Stitching + Stressing (4 spans)	32	21-Jun-16	28-Jul-16	0	CAL 2 - 6 day	/ 62 Segments, 4 spans x 8 days / span																									
CONS.C1.2350	D8 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage & Bridge Lighting	32	13-Jul-16	18-Aug-16	0	CAL 2 - 6 day	/ 186m / 3 moulds @ 5 days cycl / 10m bay									-																
	D8 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, Signages	46	18-Jan-17	15-Mar-17	11	CAL 2 - 6 day	/ 186m / 2 moulds @ 5 days cycl / 10m bay												-													
	D8 Final Asphalt Paving + Road Markings	12	29-Mar-17	12-Apr-17	0	CAL 2 - 6 day													•													
CONS.C1.2370	Completion of Bridge D8	0		12-Apr-17	23	CAL 2 - 6 day	/												<	12-Api	-17											
Bridge D9a in Po	rtion A1 & A5																															
CONS.A5.2010	Site Possession / Access to Portion A1 & A5 (61 days)	0	13-May-15		16	CAL 2 - 6 day	/		13-May	/-15 🔷																						
CONS.A5.2015	Suvey / Setting out	6	13-May-15	19-May-15	16	CAL 2 - 6 day	/			0																						
	Predrilling - Portion A1 & A5 (12 nos)		20-May-15	25-Jun-15	16		/ 12 nos x 5d / 2 rigs																									
	GI Report and Verification / Agreement to Founding Level		26-Jun-15	06-Jul-15	16	CAL 2 - 6 day		-																								
	D9a Bored Piling (12 nos.1800-2200mm dia x 47m)		14-Jul-15	16-Sep-15	10		/ 12 nos x 14 d / 3 rigs																									
CONS.A5.2035	Pile Testing	56	15-Aug-15	22-Oct-15	15	CAL 2 - 6 day	/																									
CONS.A5.2040	Pile Trimming + Pile Caps (2 nos)	48	17-Sep-15	14-Nov-15	15	CAL 2 - 6 day	/ 2 pile caps																									
CONS.A5.2050	Pier Columns + Pier Head & Bearings (4 nos. P904-P907)	48	02-Nov-15	29-Dec-15	15	CAL 2 - 6 day	/ 4 nos x 12 days					-																				
CONS.A5.2065	Bridge D9a - Erect Precast Segments + Stitching + Stressing (4 spans)	32	01-Mar-16	11-Apr-16	0	CAL 2 - 6 day	/ 58 Segments, 4 Spans x 8 days / span							-																		
	D9a Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting & Sign Gantry	, 25	12-Apr-16	11-May-16	44	CAL 2 - 6 day	/ 85m / 2 moulds @ 5 days cycle 10m bay	7																								
CONS.A5.2080	D9a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, Signages	25	12-Dec-16	12-Jan-17	49	CAL 2 - 6 day	 85m / 2 moulds @ 5 days cycle 10m bay 	/										-														
Bridge D9a in P							Tombay																									
CONS.C2.3010	Site Possession / Access to Portion C1 & C2 (184 days)	0	14-Sep-15		0	CAL 2 - 6 day	/				14-Sep-1	15 🔶																				
CONS.C2.3015	Survey / Setting Out	6	14-Sep-15	19-Sep-15	0	CAL 2 - 6 day	/	-																								
CONS.C2.3020.10	Predrilling - Portion C1 & C2 (8 nos)	20	16-Sep-15	10-Oct-15	0	CAL 2 - 6 day	/ 8 nos x 5d / 2 rigs	-				-																				
CONS.C2.3020.20	GI Report and Verification / Agreement to Founding Level	20	02-Oct-15	26-Oct-15	0	CAL 2 - 6 day	-	-				_																				
	D9a in Portion C1 & C2 Bored Piling (8 nos.1800-2200mm dia x 47m)		05-Oct-15	09-Dec-15	0		/ 8 nos x 14 d / 2 rigs																									
	•••••••••••••••••••••••••••••••••••••••				0	CAL 2 - 6 day	•																									
	Pile Testing		07-Nov-15	14-Jan-16	0																											
	Pile Trimming + Pile Caps (3 nos)		10-Dec-15	23-Jan-16	0	CAL 2 - 6 day																										
	Pier Columns + Pier Head & Bearings (3 nos P902, P903 +P805)	36	24-Dec-15	06-Feb-16	0	CAL 2 - 6 day																										
	Construct Abutment A901		04-Jan-16	06-Feb-16	0	CAL 2 - 6 day	/ 1 no							I																		
	Bridge D9a (C1 & C2) - Erect Precast Segments + Stitching + Stressing (spans)	2 16	11-Feb-16	29-Feb-16	0	CAL 2 - 6 day	/ 30 segments, 2 spans, A901-P903 x 8 days / span																									
	D9a (C1 & C2) Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Brid Lighting, & Sign Gantry	ge 48	01-Mar-16	29-Apr-16	15	CAL 2 - 6 day	/ 87.5m / 2 Steel Mould @ 5 day: cycle / 10m bay								I I																	
	Completion of Works in Section VI (KD13)	0		31-May-16	15	CAL 2 - 6 day		1							\$ 31-	May-16																
	Bridge D9a (C1 & C2) - Erect Precast Segments + Stitching + Stressing (span)	1 8	12-Apr-16	20-Apr-16	2	CAL 2 - 6 day	/ 16 segments, 1 span, P903-P805 x 8 days	1						•																		
CONS.C2.3110	D9a Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting	, 25	30-Apr-16	31-May-16	15	CAL 2 - 6 day	/ 46m / 1 Steel Moulds @ 5 days																									
CONS.C2.3115	& Sign Gantry D9a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting,	25	12-Dec-16	12-Jan-17	49	CAL 2 - 6 day	cylce / 10m bay / 46m / 1 Steel Moulds @ 5 days											-														
	Signages D9a Final Asphalt Paving + Road Markings	12	15-Mar-17	28-Mar-17	0	CAL 2 - 6 day	cylce / 10m bay																									
	Completion of Bridge D9a	0		28-Mar-17	35	CAL 2 - 6 day													•	28-Mar-	7											
Bridge D9b	Access to Portion A1	0	12 May 15		43	CV1.2 (- 1			12 400	a 15 🔺																						
	Access to Portion A1		13-May-15		63	CAL 2 - 6 day		ļ	i 3-way	/-15 🔷																						
	Survey / Setting Out		13-May-15	19-May-15	63	CAL 2 - 6 day				D																						
CONS.A1.1110.10	Predrilling (8 nos incl. 4 nos for P910)	20	26-Jun-15	20-Jul-15	33	CAL 2 - 6 day	/ 8 nos x 5 days / 2 rig																									

Data Date: 27-Feb-15 Print Date: 23-Apr-15 13	:05		HY/2	2013/04	4 - Hon <u>(</u>	g Kong E	Boundary Cross	sing	Faci	lities	s Infr	astru	ıctur	re Wo	orks	Stage	e II (Sou	ther	n Pc	ortio	n)								Pag	e:9/	24
Activity ID	Activity Name O	Drig Dur Ea	arly Start	Early Finish	Total Float	Calenda	r Remarks				2015					2016					2017						2018				20	
CONS.A1.1110.20	GI Report and Verification / Agreement to Founding Level	8 2	1-Jul-15	29-Jul-15	33	CAL 2 - 6 day	y	0 N I	D J F	MA	M J Ju	IIAS	ONC	JFI	MAM	J Jul /	A S C	N D	JF	MAN	1 J Ju	I A S	S O N	DJ	FM	AM	J Jul A	s o	ND	JF	MA	M J Jul A
CONS.A1.1120	D9b Bored Piling (8 nos. 2000mm dia x 49m) including 4 for P910	56 11	-Aug-15	16-Oct-15	23	CAL 2 - 6 day	y 8 nos x 14 days / 2 rig																									
CONS.A1.1125	Pile Testing	56 22	2-Sep-15	28-Nov-15	77	CAL 2 - 6 da	y																									
CONS.A1.1130	Pile Trimming + Pile Caps	38 30)-Nov-15	15-Jan-16	77	CAL 2 - 6 day	y 4 nos x 8d + 6d Trimming																									
CONS.A1.1140	Pier Columns + Pier Head & Bearings (4 nos. P908 & P909 + P910 x2)	48 16	5-Jan-16	15-Mar-16	77	CAL 2 - 6 day	y 4 nos x 12 days																									
CONS.A1.1160	Bridge D9b - Erect Precast Segments + Stitching + Stressing (3 spans)	24 22		20-Jul-16	0		y 44 Segments, 3 spans x 8 days									_																
CONS.A1.1170	D9b Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage & Bridge Lighting	33 1		18-Aug-16	0		/ span y 132m / 2 steel moulds @ 5 days																									
CONS.A1.1175	D9b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting,		3-Nov-16	10-Dec-16	19		cycle / 10m bay y 132m / 2 steel moulds @ 5 days																									
	Signages				17		cycle / 10m bay	`																								
CONS.A1.1180	D9b Final Asphalt Paving + Road Markings	12 13	3-FeD-17	25-Feb-17	0	CAL 2 - 6 day																										
CONS.A1.1190	Bridge D9b complete	0		25-Feb-17	61	CAL 2 - 6 day	y												•	25-Feb-1	/											
Bridge D9c																																
CONS.A1.1192	Site Possession / Access to Portion A1 & A2	0 13	8-May-15		26	CAL 2 - 6 day	У		13-	May-15	•																					
CONS.A1.1194	Survey / Setting Out	6 13	8-May-15	19-May-15	26	CAL 2 - 6 day	У																									
CONS.A1.1200.10	Predrilling (8 nos)	20 20)-May-15	12-Jun-15	26	CAL 2 - 6 day	y 8 nos x 5 days / 2 rigs				-																					
CONS.A1.1200.20	GI Report and Verification / Agreement to Founding Level	8 13	3-Jun-15	23-Jun-15	26	CAL 2 - 6 day	у																									
CONS.A1.1210	D9c Bored Piling (8 nos. 2000mm dia x 62m)	56 1	4-Jul-15	16-Sep-15	10	CAL 2 - 6 day	y 8 nos x 14 days / 2 rigs				C																					
CONS.A1.1215	Pile Testing	56 20)-Aug-15	27-Oct-15	10	CAL 2 - 6 day	y																									
CONS.A1.1220	Pile Trimming + Pile Caps (3 nos)	36 13	3-Oct-15	24-Nov-15	26	CAL 2 - 6 day	y 3 nos x 8 days + 6 days for																									
CONS.A1.1230	Pier Columns + Pier Head & Bearings	36 1	I-Nov-15	22-Dec-15	26	CAL 2 - 6 day	Trimming y 3 nos x 12 days							.							·								·			
CONS.A1.1240	Bridge D9c - Construct Deck (Cast in Situ) (1 span, P910 to P911)	36 23	3-Dec-15	05-Feb-16	26	CAL 2 - 6 day	y 1 span (cast in-situ)																									
CONS.A1.1250	Bridge D9c - Erect Precast Segments Pier P911 to Pier P913 + Stitching +	16 11	I-Mar-16	01-Apr-16	0	CAL 2 - 6 day	y 28 segments, 2 spans x 8 days																									
CONS.A1.1260	Stressing (2 spans) D9c Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage & Bridge Lighting		2-May-16	20-Jun-16	44		/ span y 126m / 2 Steel moulds @ 7 day																									
CONS.A1.1270	D9c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting,		1-Sep-16	02-Nov-16	19		cycle/ 10m bay y 126m / 2 Steel moulds @ 7 day																									
	Signages	02 2	1 000 10			0/122 0 00	cycle/ 10m bay																									
	ortion A3 (Interface with Contract HY/2012/07)	0 0	2-Jul-16		11										02-Jul-	6 A																
	Site Possession / Access to Portion A3			15 1-1-1/	11	CAL 2 - 6 day									02-50-																	
CONS.A3.1020	Mob/ Survey / Setting Out	12 0		15-Jul-16	11	CAL 2 - 6 day										_																
CONS.A3.1030	Bridge D9c (A3) - Erect Precast Segments Pier P913 to Contract Interface + Stitching + Stressing (1 span)	12 2		11-Aug-16	0		y 14 segments, 1 span x 8 days									-																
CONS.A3.1040	D9c Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage & Bridge Lighting	35 12	-Aug-16	23-Sep-16	0	CAL 2 - 6 day	y 41m 1 Steel Moulds @ 5 days cycle / 10m bay									I																
CONS.A3.1045	D9c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, Signages	35 24	1-Sep-16	05-Nov-16	0	CAL 2 - 6 day	y 41m 1 Steel Moulds @ 5 days cycle / 10m bay																									
CONS.A3.1050	Final Asphalt Paving + Road Markings	15 28	3-Nov-16	14-Dec-16	0	CAL 2 - 6 day	у																									
CONS.A3.1060	Completion of Works in Stage 1B (KD2)	0		14-Dec-16	0	CAL 2 - 6 day	у												14-Dec-	6												
Bridge D10																																
CONS.A1.1284	Site Possession / Access to Portion A1	0 13	8-May-15		64	CAL 2 - 6 day	У		13-	May-15	◇																					
CONS.A1.1286	Survey / Setting Out	6 13	8-May-15	19-May-15	64	CAL 2 - 6 day	y				•																					
CONS.A1.1290.10	Predrilling (16 nos)	25 0	9-Jul-15	06-Aug-15	24	CAL 2 - 6 day	y 14 nos x 5d / 2 rigs					•																				
CONS.A1.1290.20	GI Report and Verification / Agreement to Founding Level	8 07	-Aug-15	15-Aug-15	24	CAL 2 - 6 day	y																									
CONS.A1.1300	D10 Bored Piling (14 nos 1800-2200mm dia x 57m) (42m for Abutment)	66 14	1-Sep-15	02-Dec-15	0	CAL 2 - 6 day	y 14 nos x 14 days / 3 rigs					-																				
CONS.A1.1305	Pile Testing	66 22	2-Oct-15	09-Jan-16	0	CAL 2 - 6 day	y							-																		
CONS.A1.1310	Pile Trimming + Pile Caps	70 24	1-Nov-15	19-Feb-16	0	CAL 2 - 6 day	y 8 nos x 8 days + 6 days																									
CONS.A1.1315	Abutment A1004	36 30)-Jan-16	15-Mar-16	0	CAL 2 - 6 da	trimming y																									
CONS.A1.1320	Pier Columns + Pier Head & Bearings)-Jan-16	01-Apr-16	0		y 8 nos x 12 days / 2 Teams																									
CONS.A1.1340	Bridge D10 - Erect Precast Segments + Stitching + Stressing (8 spans)		2-Apr-16	20-Jun-16	0		y 109 segments, 8 spans x 8 days	3																								
	D10 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting,		3-Jun-16	02-Aug-16	14		/ span y 195m / 2 Steel Moulds @ 5 days																									
	& Sign Gantry			-			cycle / 10m bay																									
	D10 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, Signages		I-Dec-16	03-Feb-17	19		y 195m / 2 Steel Moulds @ 5 days cycle / 10m bay + median													_												
CONS.A1.1360	D10 Final Asphalt Paving + Road Markings	14 27	7-Feb-17	14-Mar-17	0	CAL 2 - 6 day	y																									
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ctivity ID	Activity Name	Orig Dur Early St	art Early Finish	Total Float	Calendar Remarks		-		201			-		2016					2017			201				2019	
CONS.A1.1370	Bridge D10 complete	0	14-Mar-17	47	CAL 2 - 6 day	O N	DJF	F M A	A M J J		SON	DJF		A J Jul	AS	OND		14-Mar-1		SON	FMA	M J	Jul A S	DJ	F M F	<u>IMJ</u>	Jul A
Bridge D11																											
CONS.A1.1375	Site Possession / Access to Portion A1 (61d)	0 13-May	15	118	CAL 2 - 6 day		13	3 May-15	•																		
CONS.A1.1378	Survey / Setting Out	6 19-Sep	15 25-Sep-15	10	CAL 2 - 6 day						0										 			 			
CONS.A1.1380.10		20 26-Sep		10	CAL 2 - 6 day 7 nos x 5 days / 2 rigs																						
CONS.A1.1380.20	GI Report and Verification / Agreement to Founding Level	8 23-Oct-		10	CAL 2 - 6 day							_															
CONS.A1.1390	D11 Bored Piling (3 nos. 2000mm dia x 65) (52m for abutment)	42 02-Nov	15 19-Dec-15	10	CAL 2 - 6 day 3 nos x 14 days / 1 rig																						
CONS.A1.1395	Pile Testing	42 04-Dec-	15 25-Jan-16	72	CAL 2 - 6 day																						
CONS.A1.1400	Pile Trimming + Pile Caps (4 nos)	38 09-Jan-	16 25-Feb-16	72	CAL 2 - 6 day 4 nos x 8 days + 6 days for Trimming																						
CONS.A1.1405	Abutment A1101	36 02-Feb	16 17-Mar-16	90	CAL 2 - 6 day								-														
CONS.A1.1410	Pier Columns + Pier Head & Bearings (3 nos, P1102 & P910 x 2)	36 26-Feb	16 12-Apr-16	72	CAL 2 - 6 day 3 nos x 12 days																						
CONS.A1.1430	Bridge D11 - Erect Precast Segments + Stitching + Stressing (2 spans)	16 11-Jul-	16 28-Jul-16	0	CAL 2 - 6 day 31 Segements, 2 spans x 8 day	s																					
CONS.A1.1440	D11 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting,	25 21-Jul-	16 18-Aug-16	0	/span CAL 2 - 6 day 93m / 2 steel moulds @ 5 days	/								-	-												
CONS.A1.1445	& Sign Gantry D11 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting,	25 19-Aug		23	CAL 2 - 6 day 93m / 2 steel moulds @ 5 days										_						 			 			
CONS.A1.1450	Signages D11 Final Asphalt Paving + Road Markings	12 11-Nov		0	CAL 2 - 6 day	_																					
CONS.A1.1450	Bridge D11 complete	0	24-Nov-16	135	CAL 2 - 6 day											A 24	Nov-16										
	Bridge DTT complete	0	24-INOV-16	135	CAL 2 - 6 day											▼ 24	1101-10										
Bridge D12a																											
CONS.B1.1835	Site Possession / Access to Portion B1	0 13-Jun-	15	0	CAL 2 - 6 day			13-Ju	in-15 🔶																		
CONS.B1.1837	Site Survey and Setting Out	6 13-Jun-	15 19-Jun-15	0	CAL 2 - 6 day																						
CONS.B1.1840.10	Predrilling (17 nos)	30 18-Jun-	15 24-Jul-15	0	CAL 2 - 6 day 17 nos x 5 days / 3 rigs				-	•																	
CONS.B1.1840.20	GI Report and Verification / Agreement to Founding Level	30 04-Jul-	15 07-Aug-15	0	CAL 2 - 6 day					•																	
CONS.B1.1850	D12a Bored Piling (17 nos. 2000mm dia x 60m + 1.0m Rock Socket)	77 18-Jul-	15 17-Oct-15	0	CAL 2 - 6 day 17 nos x 18 days / 4 rigs						-																
CONS.B1.1855	Pile Testing	77 20-Aug	15 20-Nov-15	0	CAL 2 - 6 day					-																	
CONS.B1.1860	Pile Trimming + Pile Caps	60 23-Sep-	15 04-Dec-15	0	CAL 2 - 6 day 3 nos x 14 days + 1 x 8 days +			-				1									 			 			
CONS.B1.1880	Pier Columns + Pier Head & Bearings	48 24-Oct-	15 18-Dec-15	0	10 days trimming CAL 2 - 6 day 7 nos x 12 days / 2 Teams	_																					
CONS.B1.1890	Bridge D12a - Erect Precast Segments + Stitching + Stressing (6 spans)	48 30-Nov		0	CAL 2 - 6 day 95 Segments, 6 spans x 8 days																						
				0	/ span																						
CONS.B1.1900	D12a Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting, & Sign Gantry	45 26-Jan-		0	CAL 2 - 6 day 171m / 2 steel moulds @ 5 days cycle / 10m bay																						
CONS.B1.1905	D12a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting, Signages	45 15-Aug	16 08-Oct-16	3	CAL 2 - 6 day 171m / 2 steel moulds @ 5 days cycle / 10m bay	s									-												
CONS.B1.1910	D12a Final Asphalt Paving + Road Markings	12 14-Oct-	16 27-Oct-16	0	CAL 2 - 6 day																						
CONS.B1.1920	Bridge D12a complete	0	27-Oct-16	159	CAL 2 - 6 day											🔶 27-Oct	-16										
Bridge D12b																											
CONS.B2.2015	Site Possession / Access to Portion B2 & B5	0 14-Jul-	15	31	CAL 2 - 6 day			1	14-Jul+15 🗸																		
CONS.B2.2018	Site Survey / Setting out	6 14-Jul-	15 20-Jul-15	31	CAL 2 - 6 day																						
CONS.B2.2020.10	Predrilling (18 nos)	30 22-Aug	15 25-Sep-15	0	CAL 2 - 6 day 18 nos x 5 days / 3 rigs						-										 			 			
CONS.B2.2020.20	GI Report and Verification / Agreement to Founding Level	30 05-Sep-	15 12-Oct-15	0	CAL 2 - 6 day						-																
CONS.B2.2030	D12b Bored Piling (18 nos. 2000mm dia x 64m + 3.3m Rock Socket)	65 19-Sep		0	CAL 2 - 6 day 18 nos x 18 days / 5 rigs																						
CONS.B2.2030	Pile Testing	65 26-Oct-			CAL 2 - 6 day																						
	-			U C	-																						
CONS.B2.2040	Pile Trimming + Pile Caps	72 23-Nov		0	CAL 2 - 6 day 9 nos x 8 days + 6 days trimming								<u> </u>											 			
CONS.B2.2060	Pier Columns + Pier Head & Bearings	60 30-Dec-	15 12-Mar-16	0	CAL 2 - 6 day 9 nos x 12 days / 2 teams																						
CONS.B2.2070	Bridge D12b - Erect Precast Segments + Stitching + Stressing (8 spans)	64 28-Jan-	16 19-Apr-16	0	CAL 2 - 6 day 127 Segments, 8 spans x 8 days/ span																						
CONS.B2.2080	D12b Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Lighting, & Sign Gantry	45 22-Mar	16 19-May-16	0	CAL 2 - 6 day 182m / 2 steel moulds @ 5 days cycle / 10m bay	s							-														
CONS.B2.2085	D12b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Lighting,	72 20-May	16 13-Aug-16	0	CAL 2 - 6 day 566m / 4 steel moulds @ 5 days	s																					
CONS.B2.2090	Signages Final Paving, Road Markings and Signages	12 28-Sep-	16 13-Oct-16	0	cycle / 10m bay CAL 2 - 6 day										•												
Bridge D12b (o	ast in-situ) in Portion B3 (Interface with Contract HY/20	12/07)																			 			 			
CONS.B3.2110	Site Possession/Access to Portion B3	0 02-Jul-	16	0	CAL 2 - 6 day								02-Jul	-16 💠													
					-																						

Data Date: 27-Feb-15 Print Date: 23-Apr-15 1	3:05		HY/	2013/04	- Hong I	Kong Boundary Cross	ing Fac	cilitie	es Infr	astru	icture	Works	s Stag	ge II	(Soutl	nern	Portio	ו)				Page	11/24	
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar Remarks			2015				2016				2017			2018			2019	
CONS.B3.2120	Survey / Setting Out	6	02-Jul-16	08-Jul-16	0	CAL 2 - 6 day	O N D J		A M J J	JAS	OND	J F M A		AS	JND		A M J Jui	ASON			A S O N	DJFM	AM	Jul A J
CONS.B3.2130	Bridge D12b (Portion B3) - Construct Deck (cast-in-situ) Pier	P1210/P1214 36	05-Jul-16	15-Aug-16	0	CAL 2 - 6 day 1 span (cast in-situ)							-	-										
CONS.B3.2140	interface with Other Contract D12b Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage,	Bridge Lighting, 21	18-Aug-16	10-Sep-16	0	CAL 2 - 6 day 41m / 1 steel mould @ 5 days								-										
CONS.B3.2145	& Sign Gantry D12b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridg	ge Lighting, 21	24-Aug-16	19-Sep-16	0	cycle / 10m bay CAL 2 - 6 day 41m / 1 steel mould @ 5 days													 					
CONS.B3.2150	Signages D12b Final Paving, Road Markings and Signages		20-Sep-16	27-Sep-16	0	CAL 2 - 6 day																		
CONS.B3.2160	Completion of Section IV (KD11) Works within Portion B3 incl			27-Sep-16	0	CAL 2 - 6 day									27-Sep-16									
	D12b			27 360 10	Ū	one z o day									21 000 10									
	Portion B1 and Portion C1		40 1 45		52			12 1	15 6															
CONS.B1.1925	Site Possession / Access to Portion B1		13-Jun-15		27	CAL 2 - 6 day		13-10	un-15 🔶															
CONS.B1.1926	Site Possession / Access to Portion C1	0	14-Sep-15		0	CAL 2 - 6 day			14-Se	p⊦15 �														
CONS.B1.1928	Site Survey / Setting out Portion B1	6	13-Jun-15	19-Jun-15	27	CAL 2 - 6 day			0															
CONS.B1.1929	Site Survey / Setting out Portion C1	6	14-Sep-15	19-Sep-15	0	CAL 2 - 6 day				•														
CONS.B1.1930.10	Predrilling (15 nos) in Portion B1	25	24-Jul-15	21-Aug-15	0	CAL 2 - 6 day 15 nos x 5 days / 3 rigs				-														
CONS.B1.1930.20	GI Report and Verification / Agreement to Founding Level - E	31 8	22-Aug-15	31-Aug-15	37	CAL 2 - 6 day																		
CONS.B1.1932.10	Predrilling (6 nos) in Portion C1	15	21-Sep-15	09-Oct-15	0	CAL 2 - 6 day 6 nos x 5 days / 2 rigs				-									 					
CONS.B1.1932.20	GI Report and Verification / Agreement to Founding Level - C	21 8	10-Oct-15	19-Oct-15	0	CAL 2 - 6 day																		
CONS.B1.1940	D13 Bored Piling (15 nos. 1800-2000mm dia x 52m) 4nos + 0	0.8m Rock 57	26-Sep-15	04-Dec-15	15	CAL 2 - 6 day 4 nos x 18 days and 11 nos x 14																		
CONS.B1.1942	Socket - Portion B1 Pile Testing B1	57	02-Nov-15	09-Jan-16	15	days / 4 rigs CAL 2 - 6 day																		
CONS.B1.1946	D13 Bored Piling (6 nos. 1800-2000mm dia x 47m-52m) - Por	rtion C1 42	20-Oct-15	08-Dec-15	0	CAL 2 - 6 day 6 nos x 14 days / 2 rigs																		
CONS.B1.1948	Pile Testing C1		23-Nov-15	13-Jan-16	28	CAL 2 - 6 day													 					
CONS.B1.1950	Pile Trimming + Pile Caps - Portion B1		05-Dec-15	15-Feb-16	15	CAL 2 - 6 day 5 nos x 10 days +6 days																		
			14-Jan-16			trimming																		
CONS.B1.1952	Pile Trimming + Pile Caps - Portion C1			27-Feb-16	28	CAL 2 - 6 day 3 nos x 10 days +6 days trimming																		
CONS.B1.1954	Pier Columns + Pier Head & Bearings		20-Jan-16	31-Mar-16	15	CAL 2 - 6 day 9 nos x 12 days / 2 teams																		
CONS.B1.1960	Construct Abutment A1301 + A1307 - Portion C1		25-Feb-16	11-Apr-16	7	CAL 2 - 6 day 2 nos x 2 work fronts																		
CONS.B1.1980	Bridge D13 - Erect Precast Segments + Stitching + Stressing		20-Apr-16	09-Jul-16	0	CAL 2 - 6 day 129 Segments, 9 spans x 8 days /span																		
CONS.B1.1990	D13 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, B & Sign Gantry	ridge Lighting, 50	21-Jun-16	18-Aug-16	0	CAL 2 - 6 day 293m / 3 steel moulds @ 5 days cycle / 10m bay								-										
CONS.B1.1995	D13 Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Signages	e Lighting, 50	19-Aug-16	20-Oct-16	6	CAL 2 - 6 day 293m / 3 steel moulds @ 5 days cycle / 10m bay																		
CONS.B1.2000	D13 Final Asphalt Paving, Road Markings & Signages	12	28-Oct-16	10-Nov-16	0	CAL 2 - 6 day																		
CONS.B1.2010	Completion of Bridge D13	0		10-Nov-16	147	CAL 2 - 6 day									♦ 10-Nov	-16								
Bridge D14a			1																 					
CONS.A1.1464	Commence Bridge D14a / Portion A1	0	13-May-15		9	CAL 2 - 6 day		13 May-1	5 🔶															
CONS.A1.1466	Survey / Setting Out	6	13-May-15	19-May-15	9	CAL 2 - 6 day			0															
CONS.A1.1470.10	Predrilling (12 nos)	30	19-May-15	24-Jun-15	9	CAL 2 - 6 day 12 nos x 5 days / 2 rigs			_															
CONS.A1.1470.20	GI Report and Verification / Agreement to Founding Level	8	25-Jun-15	04-Jul-15	9	CAL 2 - 6 day			¢															
CONS.A1.1480	D14a Bored Piling (12 nos. 2000mm dia x 62m) 47m for Abu	tment 56	14-Jul-15	16-Sep-15	2	CAL 2 - 6 day 12 nos x 14 days / 3 rigs													 					
CONS.A1.1485	Pile Testing		15-Aug-15	22-Oct-15	24	CAL 2 - 6 day																		
CONS.A1.1490	Pile Trimming + Pile Caps		17-Sep-15		24	CAL 2 - 6 day 6 nos x 8 days + 6 days																		
CONS.A1.1510	Pier Columns + Pier Head & Bearings		26-Oct-15	05-Dec-15	24	CAL 2 - 6 day 6 nos x 12 / 2 WF																		
	-																							
CONS.A1.1515	Construct Abutment A1401		01-Dec-15	07-Jan-16	11	CAL 2 - 6 day													 					
CONS.A1.1520	Bridge D14a - Erect Precast Segments + Stitching + Stressin		21-Jan-16	10-Mar-16	0	CAL 2 - 6 day 75 Segments / 5 spans x 8 days / span																		
CONS.A1.1530	D14a Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridg Signages		21-Oct-16	23-Dec-16	63	CAL 2 - 6 day 428m / 4 steel moulds @ 5 days / cycle / 10m bay																		
CONS.A1.1540	D14a Final Asphalt Paving + Road Markings	12	15-Mar-17	28-Mar-17	0	CAL 2 - 6 day										•								
CONS.A1.1550	Bridge D14a complete	0		28-Mar-17	35	CAL 2 - 6 day										•	▶ 28-Mar-17							
Bridge D14b in	Portion A1 and Portion B1	<u></u>																						
CONS.B1.1654	Access to Portion B1	0	13-Jun-15		57	CAL 2 - 6 day		13+Ju	uni-15 🔷															
CONS.B1.1656	Survey / Setting Out	6	13-Jun-15	19-Jun-15	57	CAL 2 - 6 day			0															
			1						; ; ; ;	; ; ;	; ;			. : :	; ;]	; ;			 . : :	; ; ;	. : : :			<u> </u>

Data Date: 27-Feb-15 Print Date: 23-Apr-15 1	3:05		HY/	2013/0	4 - Hong	j Kong E	Boundary Cross	ing Fa	cili	ties	Infra	struc	cture	e Wor	'ks S	tage	e II (Sout	herr	n Por	tion)								Page : 1	2/24	
Activity ID	Activity Name	Orig Du	Early Start	Early Finish	Total Float	Calendar	r Remarks				2015					2016		1			2017			=		2018				2019	
CONS.B1.1660.10	Predrilling (6 nos)	1	5 09-Jul-15	25-Jul-15	43	CAL 2 - 6 day	y 6 nos x 5 days / 2 rigs	O N D J				ASU	ND	JFM	АМ	J JUI A		ND	JFN		J JUI A	SUN	DJ	F M	AM	J Jul A	4 5 0	ND			
CONS.B1.1660.20	GI Report and Verification / Agreement to Founding Level		8 27-Jul-15	04-Aug-15	127	CAL 2 - 6 day	y					1																			
CONS.B1.1670	D14b Bored Piling (6 nos. 2000-2200mm dia x 62m) (2nos +2.3m Ro	ock 4	6 23-Dec-15	20-Feb-16	10	CAL 2 - 6 day	y 2 nos x 18 days + 4 nos x 14							-																	
CONS.B1.1675	Socket) Pile Testing / Coring Test for Socket Bored Pile	4	6 28-Jan-16	24-Mar-16	10	CAL 2 - 6 day	days / 2 rigs																								
CONS.B1.1680	Pile Trimming + Pile Caps	3	0 29-Mar-16	04-May-16	10	CAL 2 - 6 day	y 3 nos x 8 days + 6 days																								
CONS.B1.1690	Pier Columns + Pier Head & Bearings	7	2 05-May-16	30-Jul-16	10	CAL 2 - 6 day	trimming y 6 nos x 12																								
CONS.B1.1710	Bridge D14b - Erect Precast Segments + Stitching + Stressing (3 sp	ans) 2	4 29-Jul-16	25-Aug-16	0	CAL 2 - 6 day	y 49 Segments @ 3 spans x 8									_															
CONS.B1.1720	D14b Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Light	ing & 3	6 26-Aug-16	11-Oct-16	21	CAL 2 - 6 day	days / span y 284m / 4 steel moulds @ 5 days																								
CONS.B1.1730	Signages D14b Final Asphalt Paving + Road Markings	-	2 26-Jan-17	11-Feb-17	0	CAL 2 - 6 day	/ cycle / 10m bay																								
CONS.B1.1740	Bridge D14b complete		0	11-Feb-17	73	CAL 2 - 6 day													♦ 11	-Feb-17											
Bridge D14c			-				,																								
CONS.B1.1744	Site Possession / Access to Portion B1		0 13-Jun-15		72	CAL 2 - 6 day			1	13+Jun-1	5 🔥																				
				10 hr= 15			·			. J. Julie I	~ *																				
CONS.B1.1746	Survey / Setting Out		6 13-Jun-15	19-Jun-15	72	CAL 2 - 6 day	-																								
CONS.B1.1750.10	Predrilling (11 nos)		0 22-Aug-15		20		y 11 nos x 5 days / 3 rigs																								
CONS.B1.1750.20	GI Report and Verification / Agreement to Founding Level		8 15-Sep-15	23-Sep-15	41	CAL 2 - 6 day	y					٥																			
CONS.B1.1760	D14c Bored Piling (11 nos. 2000-2200mm dia x 67m + 2.3m Rock S	ocket) 6	6 17-Oct-15	06-Jan-16	23	CAL 2 - 6 day	y 11 nos x 18 days / 3 rigs							I																	
CONS.B1.1765	Pile Testing	6	6 30-Nov-15	20-Feb-16	23	CAL 2 - 6 day	У							-																	
CONS.B1.1770	Pile Trimming + Pile Caps	4	8 21-Jan-16	19-Mar-16	23	CAL 2 - 6 day	y 3 nos x 12 days + 6 days trimming																								
CONS.B1.1790	Pier Columns + Pier Head & Bearings	4	8 22-Feb-16	21-Apr-16	23	CAL 2 - 6 day	y 4 nos x 12 days																								
CONS.B1.1795	Bridge D14c - Construct Deck (cast in-situ) Pier P1409 to P1410	3	6 22-Apr-16	04-Jun-16	23	CAL 2 - 6 day	y 1 span (cast in-situ)								-																
CONS.B1.1800	Bridge D14c - Erect Precast Segments + Stitching + Stressing (4 sp	ans) 3	2 26-Aug-16	05-Oct-16	0	CAL 2 - 6 day	y 60 Segments, 4 spans x 8 days										—														
CONS.B1.1810	D14c Bridge Ancillary - Parapet + Railing, MJ, Drainage, Bridge Light	ng & 5	4 07-Nov-16	11-Jan-17	0	CAL 2 - 6 day	y 428m / 4 steel moulds @ 5 days												•												
CONS.B1.1820	Signages D14c Final Asphalt Paving + Road Markings	1	2 12-Jan-17	25-Jan-17	0	CAL 2 - 6 day	/ cycle / 10m bay												•												
CONS.B1.1830	Bridge D14c complete		0	25-Jan-17	85	CAL 2 - 6 day	у												♦ 25-J	nl-17											
Bridge D15																															
CONS.B5.2104	Site Possession/Access to Portion B5		0 14-Jul-15		68	CAL 2 - 6 day	y			14-J	ul : 15 🔶																				
CONS.B5.2106	Survey/ Site Setting Out		6 14-Jul-15	20-Jul-15	68	CAL 2 - 6 day	y				0																				
CONS.B5.2110.10	Predrilling (11 nos)	3	0 10-Oct-15	14-Nov-15	0	CAL 2 - 6 day	y 11 nos x 5 days / 2 rigs					_																			
CONS.B5.2110.20	GI Report and Verification / Agreement to Founding Level		2 16-Nov-15		8	CAL 2 - 6 day																									
CONS.B5.2120	D15 Bored Piling (11 nos. 2000mm dia x 65m + 3.3m Rock Socket)		0 09-Dec-15		0		y 11 nos x 18 days / 4 rigs																								
	Pile Testing		0 25-Jan-16	29-Mar-16	0																										
CONS.B5.2125	-				0	CAL 2 - 6 day																									
CONS.B5.2130	Pile Trimming + Pile Caps		4 30-Mar-16	03-Jun-16	0		y 4 nos x 12 days + 6 days for trimming																								
CONS.B5.2140	Pier Columns + Pier Head & Bearings		8 04-Jun-16	01-Aug-16	0		y 4 nos x 12 days										<u> </u>														
CONS.B5.2150	Bridge D15 - Construct Deck (cast in-situ) Pier P1501/P1502-1503		6 16-Aug-16		0		y 1 span x 36 days (cast in-situ)																								
CONS.B5.2160	Bridge D15 - Erect Precast Segments + Stictching + Stressing (4 sp		2 06-Oct-16	12-Nov-16	0		y 64 Segments, 4 Spans x 8 days / span										-														
CONS.B5.2170	D15 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Li & Sign Gantry	ghting, 6	0 05-Nov-16	17-Jan-17	0	CAL 2 - 6 day	y 450m / 4 steel moulds @ 5 days cycle / 10m bay																								
CONS.B5.2180	D15 Final Asphalt Paving, Road Markings and Signages	1	2 17-May-17	31-May-17	280	CAL 2 - 6 day	У																								
Bridge D15 in	Portion B4 (Interface with Contract HY/2012/07)																														
CONS.B4.2170	Site Possession/Access to Portion B4		0 29-Nov-16		25	CAL 2 - 6 day	у										29-Nov-	16 🔶		T											
CONS.B4.2180	Survey / Site Setting Out		6 29-Nov-16	05-Dec-16	25	CAL 2 - 6 day	y											Þ													
CONS.B4.2190	Bridge D15 - Erect Precast Segments on Falseworks at Portion B4 Ir (1 span)	iterface	8 06-Dec-16	14-Dec-16	25	CAL 2 - 6 day	y 14 segments, 1 Span x 8 days																								
CONS.B4.2200	D15 Bridge Ancillary - Parapet/TCSS, Railing, MJ, Drainage, Bridge Li	ghting, 3	0 20-Jan-17	27-Feb-17	25	CAL 2 - 6 day	y 84m / 2 steel moulds @ 5 days cycle / 10m bay																								
CONS.B4.2210	& Sign Gantry D15 Final Asphalt Paving, Road Markings and Signages	1	2 29-Mar-17	12-Apr-17	0	CAL 2 - 6 day														•											
CONS.B4.2220	Inspection and Handover	2	4 13-Apr-17	16-May-17	0	CAL 2 - 6 day	y													-											
CONS.B4.2230	Completion of Section V (KD12) Works within Portion B4 including Br	idge	0	16-May-17	0	CAL 2 - 6 day	y													♦ 1	6-May-17										
	D15																		: :				:								<u> </u>

Data Date: 27-Feb-15 Print Date: 23-Apr-15 1	3:05	And And And And And And And And And And And And And And And And And And And And And And And And And																								
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks		EM				EMIA													
Bridge D16S an	d D16N and Abutment A1601 in Portion A6			1	<u> </u>										Jui A J		JFW	A W J	Jui	3 0 1			A 3 0		F M A M	JUIA
CONS.A4.2230	Commence Works for Abutment A1601	0	04-Nov-15		4	CAL 2 - 6 day					04-Nov	-15 🔶														
CONS.A4.2240	Survey / Site Setting Out	6	04-Nov-15	10-Nov-15	4	CAL 2 - 6 day	,					D														
CONS.A4.2250.10	Predrilling (4 nos)	20	16-Nov-15	08-Dec-15	0	CAL 2 - 6 day	4 nos x 5 d / 1 rig						 	+							+		 			
CONS.A4.2250.20	GI Report and Verification / Agreement to Founding Level	8	09-Dec-15	17-Dec-15	0	CAL 2 - 6 day		-																		
CONS.A4.2260	D16N&S Bored Piling (4 nos x 1800mm dia)	56	18-Dec-15	27-Feb-16	0	CAL 2 - 6 day	4 nos x 14 davs / 1 rig	_																		
CONS.A4.2265					0			_																		
CONS.A4.2270					0																					
					0								 										 			
CONS.A4.2280		36	03-Jun-16	16-Jul-16	0	CAL 2 - 6 day																				
Bridge D16S a																										
CONS.A4.2285	Site Possession / Site Access to Portion A4	0	29-Nov-16		0	CAL 2 - 6 day									2,9-Nov	v-16 💠										
CONS.A4.2290	Bridge D16S & D16N - Construct Deck (cast in-stu)	36	29-Nov-16	12-Jan-17	0	CAL 2 - 6 day	1 span cast in-situ 36 days																			
CONS.A4.2300	D16N & D16S Bridge Ancillary - Parapet, MJ, Drainage, Bridge Lighting, TCSS & Signages	26	18-Jan-17	20-Feb-17	0	CAL 2 - 6 day																				
CONS.A4.2310	Final Asphalt Paving, Road Markings and Signages	12	02-May-17	16-May-17	0	CAL 2 - 6 day							 					-	1							
CONS.A4.2320	Inspection and Handover of Bridge D16	6	17-May-17	23-May-17	0	CAL 2 - 6 day	,																			
CONS.A4.2330	Completion of Bridge D16N and D16S	0		23-May-17	0	CAL 2 - 6 day	,											\$ 23	3-May-17							
Road Works.	Drainage and U/G Utilities																									
		No. N																								
		. 1			_		[_																
					0																					
	-				7								 													
CONS.RW.1030	Excavate to invert level and install Drainage System (Drain Pipes & Catchpit/Manholes) + Testing & Interface Connection	150	06-Jun-15	03-Dec-15	12	CAL 2 - 6 day																				
Installation of	Underground Utilities																									
CONS.RW.1060		150	21-Jul-15	18-Jan-16	0	CAL 2 - 6 day	1																			
CONS.RW.1070	Excavate and Install Common Telecom Ducting and Telecom Ducting by	150	28-Jul-15	25-Jan-16	0	CAL 2 - 6 day	,				-															
CONS.RW.1080	Excavate and Install ELV/ LV Ducting and Pillar Box for TCSS and Road	150	04-Aug-15	01-Feb-16	0	CAL 2 - 6 day	,				-															
Kerbing and F				I			1						 										 			
CONS.RW.1090	Excavate and Construct Footings for Road Lightings / Railing / Fencing and	120	08-Oct-15	03-Mar-16	0	CAL 2 - 6 day	,					_	-													
CONS.RW.1100		90	20-Nov-15	10-Mar-16	0	CAL 2 - 6 day	,	-					-													
CONS.RW.1110	Construct Precast Road Kerbings	90	27-Nov-15	17-Mar-16	0	CAL 2 - 6 day	,						-													
								-																		
		90	26-Jan-16	19-Mav-16	0	CAL 2 - 6 day							 										 			
				-																						
		12	i J-IVIdI - 10	i / -Juli-16	2	CAL Z - 6 day																				
				1	1																					
		75	12-May-16		2																					
CONS.RW.2830	Install Road Ligting and Signages	75	11-Jun-16	07-Sep-16	7	CAL 2 - 6 day																				
Final Paving a	nd Road Markings																									
CONS.RW.2690	Final Road Paving (Wearing Course)	24	25-Nov-16	22-Dec-16	1	CAL 2 - 6 day										-										
CONS.RW.2720	Road Markings and Road Signages	22	23-Dec-16	20-Jan-17	13	CAL 2 - 6 day	1																			
Portion A6 - I	inal Paving and Road Markings						1																			
CONS.RW.2930	Road Clearing	6	17-Jan-18	23-Jan-18	0	CAL 2 - 6 day	,																			
CONS.RW.2970	Final Road Paving (Wearing Course)	24	24-Jan-18	23-Feb-18	0	CAL 2 - 6 day							 						+			•	 			
CONS.RW.2980	Road Markings and Road Signages	Normal Matrix Normal Matrix<																								

Data Date: 27-Feb-15 Print Date: 23-Apr-15 13:05		HY/2	2013/04 -	Hong Ko	ong Boundary Cros	ssing I	Facili	ties In	frastru	cture	Work	ks Stage	ll (Sou	thern F	ortion)	 			Pa	ge : 14	/ 24
Activity ID Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar Remarks				015		EM	2016 A M J Jul A	SOND		2017			2018			20)19 M I I I I I A I S
Road SOL 102									Jui A 3				3010	JFWF	IVI 5 JUI	<u> </u>			- 30			M J Jul A -
Road Formation and Drainage System																						
CONS.RW.1970 Survey/ Road Setting Out	6	20-May-15	27-May-15	0 C	CAL 2 - 6 day																	
CONS.RW.1980 Road Formation to Sub-grade (Cut & F	ill) 60	28-May-15	07-Aug-15	0 C.	CAL 2 - 6 day												 					
CONS.RW.1990 Excavate to invert level and install Drain		13-Jun-15	10-Dec-15	0 C.	CAL 2 - 6 day																	
Catchpit/Manholes) + Testing & Interfa	ace Connection																					
CONS.RW.2890 Excavate and Install Fresh WM / Valves	s & fittings + Testing, Cleaning & 150	14-Jul-15	11-Jan-16	0 C	CAL 2 - 6 day																	
Flushing and Interface Connection CONS.RW.2900 Excavate and Install Common Telecom		25-Jul-15	22-Jan-16		CAL 2 - 6 day																	
Others CONS.RW.2910 Excavate and Install ELV/ LV Ducting an		08-Aug-15	05-Feb-16		CAL 2 - 6 day						.						 					
Kerbing and Footings for Railing, Fencing, Sig		00 //09 13	0310510			_																
CONS.RW.2080 Excavate and Construct Footings for Re		13-Oct-15	08-Mar-16	0	CAL 2 - 6 day																	
Signages																						
CONS.RW.2090 Road Formation to Sub-base		25-Nov-15	15-Mar-16		CAL 2 - 6 day																	
CONS.RW.2100 Construct Precast Road Kerbings	90	02-Dec-15	22-Mar-16	0 C.	CAL 2 - 6 day																	
Road Works to Road Base and Base Course																						
CONS.RW.2170 Road Formation to Road Base	90	26-Jan-16	19-May-16	0 C.	CAL 2 - 6 day							-										
CONS.RW.2180 Road Formation to Base Course	75	31-Mar-16	30-Jun-16	0 C.	CAL 2 - 6 day						-											
Installation of Railing and Fencing + Road Lig	ghting and Signages				,																	
CONS.RW.2240 Install Road Railing and Fencing	75	16-May-16	12-Aug-16	0 C.	CAL 2 - 6 day																	
CONS.RW.2840 Install Road Ligting and Signages	75	25-Jun-16	23-Sep-16	7 C.	CAL 2 - 6 day																	
Final Paving and Road Markings																						
CONS.RW.2700 Final Road Paving (Wearing Course)	22	23-Dec-16	20-Jan-17	1 C.	CAL 2 - 6 day								•	-								
CONS.RW.2730 Road Markings and Road Signages	18	21-Jan-17	14-Feb-17	13 C	CAL 2 - 6 day									-								
Portion A6 - Final Paving and Road Markings																						
CONS.RW.2790 Road Clearing	6	15-Mar-18	21-Mar-18	0 C.	CAL 2 - 6 day												 •					
CONS.RW.2920 Final Road Paving (Wearing Course)	24	22-Mar-18	23-Apr-18	0 C	CAL 2 - 6 day Note: Late Final Paving due t	0											-					
CONS.RW.2990 Road Markings and Road Signages	14	24-Apr-18	10-May-18	0 C	Site Logistics related to CAL 2 - 6 day																	
Road SOL 107 / 113																						
Road Formation and Drainage System																						
CONS.RW.2000 Survey/ Road Setting Out	6	08-Aug-15	14-Aug-15	0 0	CAL 2 - 6 day												 					
CONS.RW.2010 Road Formation to Sub-grade (Cut & F		15-Aug-15	-		CAL 2 - 6 day				_													
					-																	
CONS.RW.2020 Excavate to invert level and install Drair Catchpit/Manholes) + Testing & Interfa		26-Sep-15	ðl -nst-ci	0 C.	CAL 2 - 6 day																	
		45.5.1																				
CONS.RW.2040 Excavate and Install Fresh WM / Valves Flushing and Interface Connection (3 lin	nes)	15-Oct-15	16-Feb-16		CAL 2 - 6 day												 					
CONS.RW.2050 Excavate and Install Flush WM / Valves Flushing and Interface Connection (1 lin	ne)	04-Nov-15			CAL 2 - 6 day																	
CONS.RW.2060 Excavate and Install ELV/ LV Ducting an		11-Nov-15	01-Mar-16	0 C.	CAL 2 - 6 day																	
Kerbing and Footings for Railing, Fencing, Sig	gnages and Road Lighting		·																			
CONS.RW.2110 Excavate and Construct Footings for Re Signages	oad Lightings / Railing / Fencing and 75	12-Dec-15	15-Mar-16	0 C.	CAL 2 - 6 day																	
CONS.RW.2120 Road Formation to Sub-base	75	19-Dec-15	22-Mar-16	0 C.	CAL 2 - 6 day																	
CONS.RW.2130 Construct Precast Road Kerbings	75	29-Dec-15	01-Apr-16	0 C.	CAL 2 - 6 day																	
Road Works to Road Base and Base Course			ı		1																	
CONS.RW.2200 Road Formation to Road Base	75	16-Feb-16	19-May-16	14 C.	CAL 2 - 6 day							-										
CONS.RW.2210 Road Formation to Base Course	75	13-Apr-16	13-Jul-16	14 C	CAL 2 - 6 day						1											
Installation of Railing and Fencing + Road Lig	ghting and Signages																					
CONS.RW.2260 Install Road Railing and Fencing	60	17-Jun-16	26-Aug-16	0 C.	CAL 2 - 6 day						+										+	
CONS.RW.2850 Install Road Ligting and Signages	60	28-Jul-16	08-Oct-16	7 C.	CAL 2 - 6 day																	
																					<u> </u>	

		Page :	15 / 24	4																		
Activity ID Activity Name	Image: proving the provin																					
	J Jul A																					
CONS.RW.2710 Final Road Paving (Wearing Course)	20	21-Jan-17	16-Feb-17	1	CAL 2 - 6 day																	
	16	17-Feb-17	07-Mar-17	11																		
					one z o day		 		+			-++	 			 	·		 			
	Norm																					
	53	12-Apr-16	15-Jun-16	0	CAL 2 - 6 day																	
CONS.RW.2160 Road Formation to subgrade + Drainage System	10	12-Apr-16	22-Apr-16	0	CAL 2 - 6 day																	
CONS.RW.2190 Install TCSS/LV/ELV Ducting	NB No.																					
CONS.RW.2230 Excavate and Construct footing for Railing and Road lighting																						
CONS.RW.2250 Road formation to Subbase																						
CONS.RW.2370 Construct Precast Road Kerbings	6	24-May-16	30-May-16	Na Na <th< td=""></th<>																		
CONS.RW.2380 Road formation to Road base and Base course	8	31-May-16	08-Jun-16	0	CAL 2 - 6 day											2018 2019						
CONS.RW.2390 Install Road Lighting, Railing and Signages	4	10-Jun-16	14-Jun-16	0	CAL 2 - 6 day																	
CONS.RW.2400 Final Road Paving and Road markings (KD13 - Completion of Section VI)				0			 						 			 2018 2019						
	Important No. 1000 No. 10000 No. 1000 No. 1000																					
Marting Note: Second Se																						
CONS.RW.2270 Survey/ Road Setting Out	6	14-Sep-15	19-Sep-15	0	CAL 2 - 6 day																	
CONS.RW.2280 Road Formation to Sub-grade (Cut & Fill)	75	21-Sep-15	19-Dec-15	2	CAL 2 - 6 day																	
	Norm																					
Installation of Underground Utilities																						
CONS.RW.2295 Excavate and Install HV Cable Ducting on Carriageway	66	18-Sep-15	07-Dec-15	0	CAL 2 - 6 day			•											2019			
CONS.RW.2300 Handover area to CLP for HV Cable Laying	0		07-Dec-15	0	CAL 2 - 6 day				٠	07-Dec-15	5							2018 2019				
CONS.RW.2310 Excavate and Install Fresh WM / Valves & fittings + Testing, Cleaning & Elushing and Interface Connection	150	17-Nov-15	23-May-16	0	CAL 2 - 6 day				-						2017 2018 2019							
CONS.RW.2320 Excavate and Install Common Telecom Ducting and Telecom Ducting by	150	24-Nov-15	30-May-16	0	CAL 2 - 6 day												2018 2019					
	150	01-Dec-15	06-Jun-16	0	CAL 2 - 6 day				-			-								2019		
Kerbing and Footings for Railing, Fencing, Signages and Road Lighting	1 10100 1010 1010 <																					
CONS.RW.2340 Excavate and Construct Footings for Road Lightings / Railing / Fencing an																						
	90	22-Mar-16	13-Jul-16	0	CAL 2 - 6 day											2018 2019						
				0																		
	SRV220 Decade to need to serve the well well minited Durange System (Dari Hypes & 1) 0 0 0.0.0.2 0 0.0.0.2 0 0.0.0.2 0 0 0.0.0.2 0 0.0.0.2 0 0 0.0.0.2 0 0.0.0.2 0 <td></td> <td></td> <td></td>																					
	00	31-May-14	14-Sen-16	2	CAL 2 - 6 day																	
		-		-			 						 			 			 			
	/5	10-Jul-10	17-001-10	2	UNE 2 Udy																	
		07.4	14.0																			
	75	19-Oct-16	1/-Jan-17	0	CAL 2 - 6 day																	
CONS.RW.2660 Final Road Paving (Wearing Course)	24	18-Feb-17	17-Mar-17	0	CAL 2 - 6 day																	
CONS.RW.2750 Road Markings and Road Signages	18	18-Mar-17	08-Apr-17	2	CAL 2 - 6 day									-								
CONS.RW.2780 Cleaning and Rectification Works	National Active A value A value A value A value National Active </td																					
Road SOL 102 /106/111																						
Road Formation and Drainage System																						
CONS.RW.2410 Survey/ Road Setting Out	400000 6000000000000000000000000000000000000																					
CONS.RW.2420 Road Formation to Sub-grade (Cut & Fill)	48	29-Sep-15	25-Nov-15	0	CAL 2 - 6 day																	
									<u> </u>			<u> </u>			<u> </u>	 				<u> </u>		

Data Date: 27-Feb-15 Print Date: 23-Apr-15 1	3:05		HY/2	013/04	- Hong	g Kong Boundar	rossing Facilities	Infrastruct	ure Works \$	Stage II ((Souther	rn Porti	on)					Pa	ge : 16	/ 24
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar Remarks		2015		2016)17			2018				19 AAL LLLLA IS
	Excavate to invert level and install Drainage Sys Catchpit/Manholes) + Testing & Interface Conn f Underground Utilities		19-Oct-15	22-Apr-16	0	CAL 2 - 6 day	O N D J F M A I		D J F M A M	JJUIASC	JNDJF	MAMJ	Jul A S	ONDJ	FMA	M J Jul	ASO	NDJF	MA	M J Jul A 3
	Excavate and Install Fresh WM / Valves & fitting Flushing and Interface Connection	gs + Testing, Cleaning & 150	17-Nov-15	23-May-16	0	CAL 2 - 6 day		•												
CONS.RW.2950	Excavate and Install Common Telecom Ducting Others	and Telecom Ducting by 150	03-Dec-15	08-Jun-16	0	CAL 2 - 6 day														
CONS.RW.2960	Excavate and Install ELV/ LV Ducting and Pillar I	Box for TCSS 150	19-Dec-15	25-Jun-16	0	CAL 2 - 6 day														
Kerbing and F	ootings for Railing, Fencing, Signages	and Road Lighting																		
CONS.RW.2510	Excavate and Construct Footings for Road Light	tings / Railing / Fencing and 120	27-Feb-16	25-Jul-16	0	CAL 2 - 6 day														
CONS.RW.2520	Signages Road Formation to Sub-base	90	21-Apr-16	08-Aug-16	0	CAL 2 - 6 day														
CONS.RW.2530	Construct Precast Road Kerbings	90	06-May-16	22-Aug-16	0	CAL 2 - 6 day														
Road Works to	D Road Base and Base Course																			
	Road Formation to Road Base	90	05-Jul-16	21-Oct-16	0	CAL 2 - 6 day														
	Road Formation to Base Course				0															
			02-Sep-16	02-Dec-16	U	CAL 2 - 6 day														
	f Railing and Fencing + Road Lighting																			
CONS.RW.2640	Install Road Railing and Fencing	90	13-Sep-16	03-Jan-17	0	CAL 2 - 6 day														
CONS.RW.2870	Install Road Lighting and Signages	75	02-Nov-16	03-Feb-17	0	CAL 2 - 6 day														
Final Paving a	and Road Markings]]																	
CONS.RW.2670	Final Road Paving (Wearing Course)	20	18-Mar-17	11-Apr-17	0	CAL 2 - 6 day						-								
CONS.RW.2760	Road Markings and Road Signages	14	12-Apr-17	02-May-17	0	CAL 2 - 6 day						-								
Road SOL 104																				
Road Formatio	on and Drainage System																			
_	Survey/ Road Setting Out	6	19-Nov-15	25-Nov-15	11	CAL 2 - 6 day														
	Road Formation to Sub-grade (Cut & Fill)	40	26-Nov-15	23-Jan-16	11	CAL 2 - 6 day														
	-																			
	Excavate to invert level and install Drainage Sys Catchpit/Manholes) + Testing & Interface Conn		25-Jan-16	23-Jun-16	11	CAL 2 - 6 day			·····											
	f Underground Utilities																			
CONS.RW.2470	Excavate and Install Fresh WM / Valves & fitting Flushing and Interface Connection (3 lines)	gs + Testing, Cleaning & 120	25-Feb-16	22-Jul-16	11	CAL 2 - 6 day														
CONS.RW.2480	Excavate and Install Flush WM / Valves & fitting Flushing and Interface Connection (1 line)	ys + Testing, Cleaning & 90	12-Apr-16	29-Jul-16	11	CAL 2 - 6 day														
CONS.RW.2490	Excavate and Install ELV/ LV Ducting and Pillar I	Box for TCSS 90	19-Apr-16	05-Aug-16	11	CAL 2 - 6 day														
Kerbing and F	ootings for Railing, Fencing, Signages	and Road Lighting																		
CONS.RW.2540	Excavate and Construct Footings for Road Light	tings / Railing / Fencing and 90	21-May-16	05-Sep-16	24	CAL 2 - 6 day			····											
CONS.RW.2550	Signages Road Formation to Sub-base	60	05-Jul-16	12-Sep-16	48	CAL 2 - 6 day														
CONS.RW.2560	Construct Precast Road Kerbings	60	12-Jul-16	21-Sep-16	48	CAL 2 - 6 day														
	D Road Base and Base Course																			
	Road Formation to Road Base	60	23-Aug-16	04-Nov-16	24	CAL 2 - 6 day														
	Road Formation to Base Course		07-Oct-16		24	CAL 2 - 6 day														
			U7-UCI-10	02-DEC-10	24	UAL 2 - 0 Udy														
_	f Railing and Fencing + Road Lighting																			
CONS.RW.2650	Install Road Railing and Fencing	48	19-Nov-16	17-Jan-17	0	CAL 2 - 6 day														
CONS.RW.2880	Install Road Lighting and Signages	48	17-Dec-16	17-Feb-17	0	CAL 2 - 6 day														
Final Paving a	and Road Markings		I																	
CONS.RW.2680	Final Road Paving (Wearing Course)	14	12-Apr-17	02-May-17	0	CAL 2 - 6 day														
CONS.RW.2770	Road Markings and Road Signages	10	04-May-17	15-May-17	0	CAL 2 - 6 day						•								
Road SOL 107	(Depressed Road)																			
Stage 1- Depr	ressed Road Works (West Side 1st Half))																		
	Commence Works on Depressed Road (1st half		21-Sep-15		0	CAL 2 - 6 day		21-Sep-15 ♦												
	Survey / Setting out		21-Sep-15	26-Sen-15	0	CAL 2 - 6 day														
CONS.CT.5030	Excavate to formation level	45	29-Sep-15	∠ I-INOV-15	U	CAL 2 - 6 day														

	Date: 27-Feb-15 Date: 23-Apr-15 13	3:05		HY/2	2013/04	l - Hong	I Kong B	oundary Cros	sing Fac	ciliti	es Infra	astructu	ire Woi	rks S	tage	ll (So	uther	n Por	tion)					Page	: 17 / 24	ţ
Activity	ID	Activity Name		Orig Dur Early Start	Early Finish	Total Float	Calendar	Remarks			2015				2016				2017			2018			2019	
	CONS.C1.5040	Excavate and install Drainage Pipes and Constr	ruct Manholes & Backfill	45 27-Oct-15	17-Dec-15	0	CAL 2 - 6 day		ONDJ	FM	A M J Ju	I A S O N		ΙΑΜ	J Jul A	SON	DJF	MAM	J Jul A	SON	DJF	M J Jul /	ASON	DJFN		J Jul A 3
	CONS.C1.5050	Excavate and Install Fresh Water Mains & Flush	h Water Main + Hydrotest,	54 18-Nov-15	22-Jan-16	0	CAL 2 - 6 day																			
	CONS.C1.5060	Clean & Flushing and Connection Construct U-Structure - Base Slab and Walls	-	72 04-Dec-15	03-Mar-16	0	CAL 2 - 6 day																			
		Construct Plain ad Ribbed Finishes to Walls		60 19-Jan-16	05-Apr-16	0	CAL 2 - 6 day							_								 				
		Backfill and Compaction		36 06-Apr-16	19-May-16	0	CAL 2 - 6 day																			
		-				0																				
		Construct Footing for Road Lighting and Signa		24 20-May-16	17-Jun-16	0	CAL 2 - 6 day																			
		Install Ducting and Drawpits for Road Lighting		12 18-Jun-16	02-Jul-16	0	CAL 2 - 6 day																			
	Stage 2 - Depr	ressed Road (East Side 2nd Half) Inte	erface with Bridge D14a	i, D9a & D10																						
	CONS.C1.8670	Commence Works on Depressed Road (2nd Ha	alf on the East Side)	0 04-Jul-16		0	CAL 2 - 6 day							04-Jul-16	۰											
	CONS.C1.8680	Survey / Setting out		6 04-Jul-16	09-Jul-16	0	CAL 2 - 6 day								•											
	CONS.C1.8690	Excavate to formation level		45 09-Jul-16	30-Aug-16	0	CAL 2 - 6 day	interface with erection of segments at D14a and D10							-											
	CONS.C1.8700	Excavate and install Drainage Pipes and Constr	ruct Manholes & Backfill	45 06-Aug-16	29-Sep-16	0	CAL 2 - 6 day								-	-										
	CONS.C1.8710	Excavate and Install Fresh Water Mains & Flush Clean & Flushing and Connection	sh Water Main + Hydrotest,	60 27-Aug-16	09-Nov-16	0	CAL 2 - 6 day																			
	CONS.C1.8720	Construct U-Structure - Base Slab and Walls		72 23-Sep-16	17-Dec-16	0	CAL 2 - 6 day															 				
	CONS.C1.8730	Construct Plain ad Ribbed Finishes to Walls		60 07-Nov-16	18-Jan-17	0	CAL 2 - 6 day									-	-									
	CONS.C1.8740	Backfill and Compaction		36 19-Jan-17	04-Mar-17	0	CAL 2 - 6 day																			
	CONS.C1.8750	Construct Footing for Road Lighting and Signa	ges	24 06-Mar-17	01-Apr-17	0	CAL 2 - 6 day		-									-								
	CONS.C1.8760	Install Ducting and Drawpits for Road Lighting		12 03-Apr-17	20-Apr-17	0	CAL 2 - 6 day		_									_								
		Install Road Lighting and Signages + Cabling a		12 21-Apr-17	06-May-17	0	CAL 2 - 6 day															 				
		Road Paving and Road Markings			15-May-17	0	CAL 2 - 6 day																			
				7 00-Way-17	15-Way-17	0	CAL 2 - 0 day											-								
		Utilties (Power, Water & Telecom)																								
	Work in Portion																									
	Sewage Rising																					 				
		Commence Works on Rising Main		0 21-Dec-15		36	CAL 2 - 6 day					21-Dec-15	•													
	CONS.RM.1020	Site Survey / Setting Out Sewerage Alignment		6 21-Dec-15	29-Dec-15	36	CAL 2 - 6 day																			
	CONS.RM.1030	Excavate to Invert Level & Install 2 Sewage Ris	sing Main DN100 CHC & CHD	60 30-Dec-15	12-Mar-16	36	CAL 2 - 6 day																			
	CONS.RM.1040	Construct Thrust Block		18 14-Mar-16	07-Apr-16	36	CAL 2 - 6 day																			
	CONS.RM.1050	Gravity Flow Testing		12 08-Apr-16	21-Apr-16	36	CAL 2 - 6 day																			
	CONS.RM.1060	Backfill		30 22-Apr-16	28-May-16	36	CAL 2 - 6 day															 				
	CLP Cables and	d Telecom Crossing at Portion D2 and	D1																							
	CONS.RW.2800	Excavate and Install Common Telecom Ducting	g and Telecom Ducting by	60 13-Jul-16	22-Sep-16	0	CAL 2 - 6 day									-										
	CONS.RW.2810	Telecom Companies Excavate and Install CLP 11kv Cables		36 22-Sep-16	04-Nov-16	0	CAL 2 - 6 day									-										
	CONS.RW.2820	Backfill and reinstate ground		18 05-Nov-16	25-Nov-16	0	CAL 2 - 6 day									-										
	Portion A1 and	A2 - Sub-Base Area																				 				
-		Demobilisation of Temporary Facilities on Site		24 13-Jan-17	13-Feb-17	0	CAL 2 - 6 day										-									
	CONS.A1.4440	Site Survey / Site Clearing			27-Feb-17	0	CAL 2 - 6 day																			
	CONS.A1.4450	Area to Formation Level		20 28-Feb-17	22-Mar-17	0	CAL 2 - 6 day																			
	CONS.A1.4450	Sub-Base Material Topping (Area 29,963 m2 x	(100mm the Subbase)			0	CAL 2 - 6 day																			
				40 23-Mar-17	13-IVIA Y-17	U	CAL 2 - 6 UAY							·								 				
		um Switch Room				0							A Mor d' h													
	CONS.C1.5110	Commence Pump House Cum Switch Room (2)	в+ GF)	0 04-Mar-16		0	CAL 2 - 6 day)4-Mar-1¦6 ♦													
	CONS.C1.5120	Mobilisation / Survey/ Setting Out		6 04-Mar-16	10-Mar-16	0	CAL 2 - 6 day																			
	CONS.C1.5125	Sheet Piling		20 10-Mar-16	06-Apr-16	0	CAL 2 - 6 day																			
	CONS.C1.5130	Install Dewatering Wells + Pump Test		24 07-Apr-16	05-May-16	0	CAL 2 - 6 day							-												
	CONS.C1.5140	ELS Works to Formation level (Basement 2)		54 06-May-16	11-Jul-16	0	CAL 2 - 6 day								-											
	CONS.C1.5150	Blinding, Waterproofing and Base Slab		20 12-Jul-16	03-Aug-16	0	CAL 2 - 6 day								-											
				I	1																	 				

Data Date: 27-Feb-15 Print Date: 23-Apr-15 1	3:05																												
Activity ID	Activity Name	Ori	g Dur	Early Start	Early Finish		Calendar Remarks											- .											
CONS.C1.5160	Construct Walls and Slab to Upper Base	ement	24 (04-Aug-16	31-Aug-16	0	CAL 2 - 6 day) J F	MA	M J Jul A	SONI	DJF	MAM	J Jul A	SON		- M A	M J J	I A S	JFI		MJJJL		ON	DJ	- M /	<u>а м</u>	J Jul A
CONS.C1.5170	Construct Walls and Slab to Ground Le	vel	24	01-Sep-16	30-Sep-16	0	CAL 2 - 6 day									-													
CONS.C1.5200	Construct Walls and Roof Slab		24	03-Oct-16	31-Oct-16	0	CAL 2 - 6 day Linked to KD6									-													
CONS.C1.5205	ABWF & Building Services Works to Pur	mp House / Switch Room	14 (01-Nov-16	16-Nov-16	0	CAL 2 - 6 day														 								
CONS.C1.5210	Achievement of Stage 5 (KD6) / Interfa	ace with C3	0		16-Nov-16	0	CAL 2 - 6 day									•	▶ 16-Nov-16	5											
CONS.C1.5215	Building Services Installation		75	17-Nov-16	18-Feb-17	7	CAL 2 - 6 day																						
CONS.C1.5220	MEP Installation for Pump House/Switc	h Room (By C3)	75	17-Nov-16	18-Feb-17	7	CAL 2 - 6 day																						
CONS.C1.5235	ABWF Works + External Works		75	17-Nov-16	18-Feb-17	7	CAL 2 - 6 day																						
CONS.C1.5240	T&C and Statutory Permits/Certifcation	n (FS, BD)				7															 								
	· · · · · · · · · · · · · · · · · ·																												
Sign Gantry	on U Dilos and Load Tasting																												
	en H Piles and Load Testing	r Sign Contru	0	12 Cop 15		0	CALL 1 - 7 day				12 Sop 15																		
CONS.C1.0510	Commence Preliminary Driven H Pile for	r Sign Gantry		•		0					13-3ep-13	`																	
CONS.C1.0520	Mobilise Plant & Set-up Support					0						•									 				ļļ				
CONS.C1.0530.10	Pre-drilling (2 nos)					0																							
CONS.C1.0530.20	GI Report and Verification / Agreemen	t to Founding Level	8	09-Oct-15	17-Oct-15	0																							
CONS.C1.0540	Preliminary Driven H Pile (2 nos)		5	18-Oct-15	22-Oct-15	0	CAL 1 - 7 day 2 nos x 2.5 days / Pile - 1 rig					I																	
CONS.C1.0550	Pile Load Testing and Submit Report		28	23-Oct-15	19-Nov-15	0	CAL 1 - 7 day					-																	
Sign Gantry Foo	tings at Grade in Portion A1																												
DS303 (Driven	H Pile)																				 					2019			
CONS.A1.4360	Commence Foundation / Footing for Si	ign Gantry	0	20-Nov-15		10	CAL 2 - 6 day				20	-Nov-15 ♦																	
CONS.A1.4370	Mobilise Plant + Survey / Setting Out		6	20-Nov-15	26-Nov-15	10	CAL 2 - 6 day					0																	
CONS.A1.4380.10	Predrilling (12 nos)		30	27-Nov-15	04-Jan-16	10	CAL 2 - 6 day 12 nos x 5 days / 2 rigs					-																	
CONS.A1.4380.20	GI Report and Verification / Agreement	t to Founding Level	30	11-Dec-15	18-Jan-16	10	CAL 2 - 6 day																						
CONS.A1.4390	Piling Works - Driven H Pile (12 nos)		30	07-Jan-16	13-Feb-16	2	CAL 2 - 6 day 12 nos x 2.5 d / Driven H-Pile						-								 								
CONS.A1.4410	Excavation, Pile Trimming + Cast Pile C	Caps (3 nos)	30	15-Feb-16	19-Mar-16	20	CAL 2 - 6 day							-															
CONS.A1.4420	Backfill Foundation		12 :	21-Mar-16	07-Apr-16	20	CAL 2 - 6 day																						
Sign Gantry Foo	ting at Grade in Portion C1 &	Portion D1																											
DS302 (610mr	n dia. Prebored H Pile)																												
CONS.D1.3380	Commence Foundation / Footing for Si	ign Gantry	0	12-Sep-15		14	CAL 2 - 6 day				12-Sep+15	♦									 								
CONS.D1.3390	Mobilisation/ Survey / Setting Out				23-Sep-15	14	CAL 2 - 6 day																						
	Predrilling for Prebored H Pile (8 nos)			•		14																							
	GI Report and Verification / Agreemen	t to Founding Level																											
CONS.D1.3410	Pre-bored Socket H-Pile (8 nos)																												
CONS.D1.3410	Pile Testing																				 								
CONS.D1.3420 CONS.D1.3430		(2 pos)																											
	Excavation, Pile Trimming + Pile Caps	(2 1103)																											
CONS.D1.3440	Backfill Foundation		12	uz-iviar-16	15-Mar-16	36	CAL Z - 6 004Y																						
GT408 (Driven																													
CONS.C1.4010	Commence Foundation / Footing for Si	ign Gantry				0					ρ6-N	iov-15 🔶									 								
CONS.C1.4020	Survey / Setting Out		2	06-Nov-15	07-Nov-15	0						1																	
CONS.C1.4030.10	Predrilling (8 nos)		20	09-Nov-15	01-Dec-15	0	CAL 2 - 6 day 8 nos x 5 days / 2 rigs																						
CONS.C1.4030.20	GI Report and Verification / Agreemen	t to Founding Level	8	02-Dec-15	10-Dec-15	0	CAL 2 - 6 day																						
CONS.C1.4040	Piling Works - Driven H Pile (8 nos)		20	11-Dec-15	06-Jan-16	0	CAL 2 - 6 day 8 nos x 2.5 days						-																
CONS.C1.4060	Excavation, Pile Trimming + Cast Pile C	Caps (2 nos)	20	07-Jan-16	29-Jan-16	66	CAL 2 - 6 day																						
CONS.C1.4070	Backfill Foundation		6	30-Jan-16	05-Feb-16	66	CAL 2 - 6 day														 						11		
DS44 (Driven	l Pile)																												
															1 1 1	1 1 1			1 1			1 1		1 1	: :		1 1	1 1	

Number of the 2000 state NUMBE Control Market NUMBE Control Markt NUMBE Control Markt NUMBE C		Page	e : 19	/ 24																									
ctivity ID	Activity Name	Orig Dur Early Start	Early Finish	Total Float	Calendar	Remarks																							019
CONS.C1.4080	Commence Foundation / Footing for Sign Gantry	0 07-Jan-16			CAL 2 - 6 day	/	ONDJ	IF M		Jul A S			MAN		ASO	D N D	JF	MAN	I J Jul	ASO	ND	JFM	AM	JJul	AS	OND	JF	MA	M J Jul
CONS.C1.4090	Survey / Setting Out	2 07-Jan-16	08-Jan-16	0	CAL 2 - 6 day	/																							
CONS.C1.4100.10	Predrilling (8 nos)	20 09-Jan-16	01-Feb-16	0	CAL 2 - 6 day	/ 8 nos x 5 days / 2 rigs																							
CONS.C1.4100.20	GI Report and Verification / Agreement to Founding Level	8 02-Feb-16	13-Feb-16	2	CAL 2 - 6 day	,	+																						
CONS.C1.4110	Pilling Works - Driven H Pile (8 nos)	20 15-Feb-16	08-Mar-16	2	CAL 2 - 6 day	8 nos x 2.5 days	-																						
CONS.C1.4130	Excavation, Pile Trimming + Cast Pile Caps (2 nos)	20 09-Mar-16	05-Apr-16	16	CAL 2 - 6 day	-																							
	-			16									٥																
					-																								
		0 02-Feb-16		0	CAL 2 - 6 day	,					02-Feb	16 🔷																	
			03-Feb-16	0			_																						
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				0																									
		6 03-May-16	09-May-16	0	CAL 2 - 6 day																								
		0 02-Mar-16		0	CAL 2 - 6 day	/					02-1	Vlar-1/6 <																	
CONS.C1.4230	Survey / Setting Out	2 02-Mar-16	03-Mar-16	0	CAL 2 - 6 day	/																							
CONS.C1.4240.10	Predrilling (12 nos)	20 04-Mar-16	30-Mar-16	0	CAL 2 - 6 day	12 nos x 5 days / 3 rigs																							
CONS.C1.4240.20	GI Report and Verification / Agreement to Founding Level	8 31-Mar-16	09-Apr-16	0	CAL 2 - 6 day	/							•																
CONS.C1.4250	Piling Works - Driven H Pile (12 nos)	30 11-Apr-16	17-May-16	0	CAL 2 - 6 day	12 nos x 2.5 days / Driven H-Pi	e						-																
CONS.C1.4270	Excavation, Pile Trimming + Cast Pile Caps (3 nos)	30 18-May-16	22-Jun-16	8	CAL 2 - 6 day	/																							
CONS.C1.4280	Backfill Foundation	8 23-Jun-16	02-Jul-16	8	CAL 2 - 6 day	/																							
FADS303 (Drive	en H Pile)																												
CONS.C1.4290	Commence Foundation / Footing for Sign Gantry	0 31-Mar-16		8	CAL 2 - 6 day	/						31-Mar-1	6 💠																
CONS.C1.4300	Survey / Setting Out	2 31-Mar-16	01-Apr-16	8	CAL 2 - 6 day	1																							
CONS.C1.4310.10	Predrilling (8 nos)	20 02-Apr-16	26-Apr-16	8	CAL 2 - 6 day	8 nos x 5 days / 2 rigs																							
CONS.C1.4310.20	GI Report and Verification / Agreement to Founding Level	8 27-Apr-16	06-May-16	8	CAL 2 - 6 day	/							Þ																
CONS.C1.4320	Piling Works - Driven H Pile (8 nos)	16 18-May-16	04-Jun-16	0	CAL 2 - 6 day	8 nos x 2.5 days																							
CONS.C1.4340	Excavation, Pile Trimming + Cast Pile Caps (2 nos)	20 06-Jun-16	29-Jun-16	0	CAL 2 - 6 day	/								-															
CONS.C1.4350	Backfill Foundation	12 30-Jun-16	14-Jul-16	0	CAL 2 - 6 day	/																							
Erection of Sign	Gantry and High Mast for TCSS Works																												
	Erection of Sign Gantry & High Mast Structure and Associated Conduits for TCSS Works	90 03-May-16	18-Aug-16	0	CAL 2 - 6 day	KD1 and KD3							-																
-		 Nove in the second se																											
Retaining Walls	Carbon Segment																												
RW11 (42m / 3	bays)	Shiph Shiph <th< td=""></th<>																											
CONS.A1.3320	Commence RW11 Retaining Wall (42m / 3 bays)	0 22-Jul-15		7	CAL 2 - 6 day	/			22-Jul-1	٩																			
CONS.A1.3330	Survey / Setting Out	6 22-Jul-15	28-Jul-15	7	CAL 2 - 6 day	/				0																			
CONS.A1.3340	Excavate to formation level (open cut / slope)	18 29-Jul-15	18-Aug-15	7	CAL 2 - 6 day	/																							
CONS.A1.3350	Cast Base & Wall Stem 3 bays (ribbed finish to 1m below F.G.L)	36 19-Aug-15	30-Sep-15	7	CAL 2 - 6 day	3 bays x 12 days				-																			
CONS.A1.3360	Backfill to final ground level	24 16-Sep-15	15-Oct-15	7	CAL 2 - 6 day	/	+			1																			
RW14A (29m /	2 bays)																												
		0 02-Oct-15		11	CAL 2 - 6 day	/				02-Oct-15	•																		
			07-Oct-15	11			+				0																		
				11			+																						

Data Date: 27-Feb-15 Print Date: 23-Apr-15 13	8:05		HY/2	2013/04	4 - Hong	g Kong B	Soundary Cro	ssing Fa	cilit	ies Infr	astruc	ture \	Works	Stag	je II	(Sout	hern	Portio	on)					Page : 20 / 24	/ 24	
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar	Remarks		ILEIM	2015				2016				20'				2018				
CONS.A1.3410	Cast Base & Wall Stem 2 bays (ribbed finish to 1m below F.G.L)	24	19-Oct-15	16-Nov-15	11	CAL 2 - 6 day	2 bays x 12 days						FMA	IM J JUI	AS		<u>J F M</u>	A WI J	Jui	5 U N	MAI	/ 3 34			MA	
CONS.A1.3420	Backfill to final ground level	12	17-Nov-15	30-Nov-15	11	CAL 2 - 6 day	, ,																			
RW16N (15m /	1 bay)																									
CONS.A1.3440	Commence RW16n Retaining Wall (29m / 2 bays)	0	18-Jul-16		0	CAL 2 - 6 day							18-	Jul-16 🔶							 		 			
CONS.A1.3450	Survey / Setting Out	4	18-Jul-16	21-Jul-16	0	CAL 2 - 6 day	,																			
CONS.A1.3460	Excavate to formation level (open cut / slope)	12	22-Jul-16	04-Aug-16	0	CAL 2 - 6 day	,																			
CONS.A1.3470	Cast Base & Wall Stem 1 bay (ribbed finish to 1m below F.G.L)	20	05-Aug-16	27-Aug-16	0	CAL 2 - 6 day	1 bay x 18 days	_							-											
CONS.A1.3480	Install U/G Utilities - TCSS, ELV & LV Ducting	14	29-Aug-16	13-Sep-16	0	CAL 2 - 6 day	,	_							•											
CONS.A1.3490	Backfill to final ground level	12	14-Sep-16	29-Sep-16	0	CAL 2 - 6 day	,			+											 		 			
RW16S (15m /	1 bav)																									
CONS.A1.3500	Commence RW16s Retaining Wall (29m / 2 bays)	0	14-Sep-16		0	CAL 2 - 6 day								14-Sep	-16 🔶											
CONS.A1.3510	Survey / Setting Out		14-Sep-16	20-Sep-16	0	CAL 2 - 6 day		_																		
CONS.A1.3510	Excavate to formation level (open cut / slope)		20-Sep-16	04-Oct-16	0	CAL 2 - 6 day									-											
CONS.A1.3520 CONS.A1.3530	Cast Base & Wall Stem 1 bay (ribbed finish to 1m below F.G.L)		05-Oct-16	28-Oct-16	0		1 bay x 12 days														 		 			
			29-Oct-16	14-Nov-16	0	CAL 2 - 6 day										_										
CONS.A1.3540	Install U/G Utilities - TCSS, ELV & LV Ducting & Draw Pits				0																					
CONS.A1.3550	Backfill to final ground level	12	15-Nov-16	28-Nov-16	0	CAL 2 - 6 day																				
Retaining Walls																										
RW1 (51m / 4										<u></u>											 					
CONS.C2.3140	Commence RW1 Retaining Wall	0	17-Jun-16		32	CAL 2 - 6 day							17-Jun-	16 🔶												
CONS.C2.3150	Survey / Setting Out	6	17-Jun-16	23-Jun-16	32	CAL 2 - 6 day	r							٥												
CONS.C2.3160	Excavate to formation level (open cut / slope)	20	24-Jun-16	18-Jul-16	80	CAL 2 - 6 day	r																			
CONS.C2.3170	Cast Base & Wall Stem 4 bays (ribbed finish to 1m below F.G.L)	48	09-Jul-16	02-Sep-16	80	CAL 2 - 6 day	4 bays x 12 days																			
CONS.C2.3180	Backfill to final ground level and Reinstate Roads	30	03-Sep-16	12-Oct-16	80	CAL 2 - 6 day																				
RW1a (176m /	11 bays)																									
CONS.C2.3200	Commence RW1a Retaining Wall	0	06-Jul-16		23	CAL 2 - 6 day							06-J	ul-16 💠												
CONS.C2.3210	Survey / Setting Out	6	06-Jul-16	12-Jul-16	23	CAL 2 - 6 day	,							۵												
CONS.C2.3220	Excavate to formation level (open cut / slope)	60	13-Jul-16	22-Sep-16	23	CAL 2 - 6 day	,																			
CONS.C2.3230	Cast Base & Wall Stem (ribbed finish to 1m below F.G.L)	72	10-Aug-16	05-Nov-16	23	CAL 2 - 6 day	11 bays x 12 days / 2 WF								-											
CONS.C2.3240	Backfill to final ground level and Reinstate Roads	72	23-Sep-16	17-Dec-16	23	CAL 2 - 6 day	r														 		 			
CONS.C2.3250	Install Railing for RW1 and RW1a	24	19-Dec-16	18-Jan-17	23	CAL 2 - 6 day	,									-										
RW8 (35m / 3	bays)			1	· · · · ·																					
CONS.C2.3320	Commence RW8 Retaining Wall	0	16-Oct-15		7	CAL 2 - 6 day					16-Oct-15 🔷															
CONS.C2.3330	Survey / Setting Out	5	16-Oct-15	22-Oct-15	7	CAL 2 - 6 day	,				0															
CONS.C2.3340	Excavate to formation level (open cut / slope)	12	23-Oct-15	05-Nov-15	7	CAL 2 - 6 day	,														 		 			
CONS.C2.3350	Cast Base & Wall Stem 3 bays (ribbed finish to 1m below F.G.L)	36	06-Nov-15	17-Dec-15	7	CAL 2 - 6 day	3 bays x 12 days																			
CONS.C2.3360	Backfill to final ground level & Reinstate Road	16	18-Dec-15	08-Jan-16	40	CAL 2 - 6 day	,																			
RW13 (40m / 3	bays)																									
CONS.C2.3260	Commence RW13 Retaining Wall	0	18-Dec-15		7	CAL 2 - 6 day					18-Dec	-15 🔶														
CONS.C2.3270	Survey / Setting Out	3	18-Dec-15	21-Dec-15	7	CAL 2 - 6 day	,					D									 		 			
CONS.C2.3280	Excavate to formation level (open cut / slope)	10	22-Dec-15	05-Jan-16	7	CAL 2 - 6 day	,																			
CONS.C2.3290	Cast Base & Wall Stem 3 bays (ribbed finish to 1m below F.G.L)	36	06-Jan-16	19-Feb-16	7	CAL 2 - 6 day	3 bays x 12 days																			
CONS.C2.3300	Backfill to final ground level and Reinstate Road		20-Feb-16	04-Mar-16	7	CAL 2 - 6 day																				
	nd Irrigation System																									
	Vater Meter W04																				 		 			
Zone AC4																										

ata Date: 27-Feb-15 int Date: 23-Apr-15 1	3:05		HY/2	2013/04	4 - Hong	g Kong Boundary Cros	ing Fac	ilities	s Infra	structu	ire Wo	orks Sta	age II (S	Southe	ern Po	rtion)						Pa	ige : 21	/ 24	
tivity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	Calendar Remarks	O N D J	EMA	2015			20 [.]		ND	EMIAL	2017	SON		MAM	2018				2019	
CONS.A1.8120	Commence Landscape Works in Zone AC4	0	22-Mar-16		0	CAL 2 - 6 day Area 32,410 m2			IVI J JUI	A 5 0 N	22-Mar-16		Jui A S O	NDJ		JJUI	3 U N	DJF	MAM	J Jul P	130			IVI J J	
CONS.A1.8130	Top Soil to Landscaped Areas (600mm)	98	22-Mar-16	22-Jul-16	0	CAL 2 - 6 day 19,446 m3 / 200 m3 / day							-												
CONS.A1.8140	Install Irrigation System Main Lines (900mm dia)	60	17-Jun-16	26-Aug-16	0	CAL 2 - 6 day						-													
CONS.A1.8150	Install Lateral Irrigation Pipes & Sprinklers	60	23-Jul-16	04-Oct-16	0	CAL 2 - 6 day																			
CONS.A1.8160	Irrigation Coverage Test	18	05-Oct-16	26-Oct-16	0	CAL 2 - 6 day							-												
CONS.A1.8170	Soft Landscaping - Shrubs Planting / Ground Cover	81	27-Oct-16	04-Feb-17	0	CAL 2 - 6 day Area 32,410 m2 / 10 m2 /																			
CONS.A1.8180	Complete Landscape Works Zone AC4	0		04-Feb-17	0	manday / 40 workers CAL 2 - 6 day KD8								•	04-Feb-17										
Landscape Sof	tworks in Portion A6 and B5																								
CONS.A1.8590	Commence Landscape Works in Zone AC4 in Portion A6 & B5	0	13-Mar-17*		0	CAL 2 - 6 day Area 13,890 m2								13-Mar-1	7 🔷						-+				
CONS.A1.8595	Clearing of unsuitable materials		13-Mar-17	27-Apr-17	0	CAL 2 - 6 day																			
CONS.A1.8600	Top Soil to Landscaped Areas		28-Apr-17	27-Jul-17	0	CAL 2 - 6 day 8,334 m3 / 100 m3 / day																			
CONS.A1.8610	Install Irrigation System Main Lines (900mm dia)		28-Jul-17	19-Oct-17	0	CAL 2 - 6 day																			
					0																				
CONS.A1.8620 CONS.A1.8630	Install Lateral Irrigation Pipes & Sprinklers Irrigation Coverage Test		20-Oct-17 03-Jan-18	02-Jan-18	0	CAL 2 - 6 day CAL 2 - 6 day										+									
				16-Jan-18	0	CAL 2 - 6 day CAL 2 - 6 day Area 13,890 m2 / 10 m2 /																			
CONS.A1.8640	Soft Landscaping - Shrubs Planting / Ground Cover	90	17-Jan-18	10-May-18	0	manday / 20 workers														0.0410					
CONS.A1.8650	Complete Landscape Works Zone AC4 (KD16)	0		10-May-18	0	CAL 2 - 6 day KD14													-	10-May-18					
CONS.A1.8660	Establishment Works for Landscape Softworks in Portion A6 and B5	365	11-May-18	10-May-19	0	CAL 1 - 7 day KD16																		•	
Zone BC4																									
CONS.A1.8200	Commence Landscape Works in Zone BC4	0	23-Jul-16		1	CAL 2 - 6 day Area 22,400 m2						23-Jul-16	•												
CONS.A1.8210	Top Soil to Landscaped Areas	90	23-Jul-16	09-Nov-16	1	CAL 2 - 6 day 13,440 m3 / 150m3 / day																			
CONS.A1.8220	Install Irrigation System Main Lines (900mm dia)	60	03-Oct-16	12-Dec-16	1	CAL 2 - 6 day							_												
CONS.A1.8230	Install Lateral Irrigation Pipes & Sprinklers	60	05-Nov-16	17-Jan-17	1	CAL 2 - 6 day																			
CONS.A1.8240	Irrigation Coverage Test	12	18-Jan-17	03-Feb-17	1	CAL 2 - 6 day								•											
CONS.A1.8250	Soft Landscaping - Shrubs Planting / Ground Cover	56	06-Feb-17	12-Apr-17	0	CAL 2 - 6 day Area 22,400 m2 / 10 m2 / manday / 40 workers								I											
CONS.A1.8260	Complete Landscape Works in Zone BC4	0		12-Apr-17	0	CAL 2 - 6 day									♦ 12	Apr-17									
Zone CC4																									
CONS.A1.8280	Commence Landscape Works in Zone CC4	0	10-Nov-16		17	CAL 2 - 6 day Area 7000 m2							10-Nov-16	•											
CONS.A1.8290	Top Soil to Landscaped Areas	42	10-Nov-16	30-Dec-16	17	CAL 2 - 6 day 4200 m3 / 100 m2 / day								-											
CONS.A1.8300	Install Irrigation System Main Lines (900mm dia)	30	31-Dec-16	08-Feb-17	17	CAL 2 - 6 day																			
CONS.A1.8310	Install Lateral Irrigation Pipes & Sprinklers	30	09-Feb-17	15-Mar-17	17	CAL 2 - 6 day									-										
CONS.A1.8320	Irrigation Coverage Test	6	16-Mar-17	22-Mar-17	17	CAL 2 - 6 day									0										
CONS.A1.8330	Soft Landscaping - Shrubs Planting / Ground Cover	20	13-Apr-17	11-May-17	0	CAL 2 - 6 day 7000 m2 / 10 m2 / 30 Workers									-										
CONS.A1.8340	Complete Landscape Works in Zone CC4	0		11-May-17	0	CAL 2 - 6 day									•	11-May-17									
Zone DC4																									
CONS.A1.8360	Commence Landscape Works in DC4	0	31-Dec-16		37	CAL 2 - 6 day Area 130 m2							31-De	ec-16 🔶											
CONS.A1.8370	Top Soil to Landscaped Areas	2	31-Dec-16	03-Jan-17	37	CAL 2 - 6 day 78 m3								0											
CONS.A1.8380	Install Irrigation System Main Lines (900mm dia)	12	04-Jan-17	17-Jan-17	75	CAL 2 - 6 day																			
CONS.A1.8390	Install Lateral Irrigation Pipes & Sprinklers	12	18-Jan-17	03-Feb-17	75	CAL 2 - 6 day																			
CONS.A1.8400	Irrigation Coverage Test		04-Feb-17	06-Feb-17	75	CAL 2 - 6 day																			
CONS.A1.8410	Soft Landscaping - Shrubs Planting / Ground Cover		12-May-17	15-May-17	0	CAL 2 - 6 day 130 m2 / 10 m2 / 5 workers																			
CONS.A1.8420	Complete Landscape Works in Portion C1 (West Section)	0	may 17	15-May-17	0	CAL 2 - 6 day										15-May-17									
	Source Landscape works in Forther of (WEST SECIDITY	0		13-1via y-17	0																				
Zone EC4	Commonico Landscono Wertic in Zono FC4		04 log 17		77	CAL 2 6 day Area 2200 == 2							64	an 17 🔺											
CONS.A1.8440	Commence Landscape Works in Zone EC4		04-Jan-17	10 :	37	CAL 2 - 6 day Area 2300 m2							U4-J	an-17 🔶											
CONS.A1.8450	Top Soil to Landscaped Areas		04-Jan-17	19-Jan-17	37	CAL 2 - 6 day 1380 m3 / 100 m3 / day																			
CONS.A1.8460	Install Irrigation System Main Lines	12	20-Jan-17	06-Feb-17	37	CAL 2 - 6 day																			

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Activity ID	Activity Name	Orig Dur Early Start	Early Finish	Total Float	Calendar Remarks		201				2016			20				2018			2019		
CONS.A1.8470	Install Lateral Irrigation Pipes & Sprinklers	12 07-Feb-17	20-Feb-17	37	CAL 2 - 6 day	ONDJF	MAMJJ		NDJ	FMA	M J Jul A S	OND		AMJ	Jul A S O	NDJ	FMA	M J Ju	<u>SINIC</u>	JF	MAN	JJul	<u>A</u>] ³
CONS.A1.8480	Irrigation Coverage Test	6 21-Feb-17	27-Feb-17	37	CAL 2 - 6 day								D										
CONS.A1.8490	Soft Landscaping - Shrubs Planting / Ground	d Cover 12 13-Apr-17	29-Apr-17	0	CAL 2 - 6 day 2300 m2 / 10 m2 / manday / 20									-									
CONS.A1.8500	Complete Landscape Works in Portion C1 (West Section) 0	29-Apr-17	0	workers CAL 2 - 6 day									\$ 29-Ap	r-17				 				
Zone FC4																							
CONS.A1.8520	Commence Landscape Works in Zone FC4	0 20-Jan-17		41	CAL 2 - 6 day Area 1800 m2							20-Jan-17	•										
CONS.A1.8530	Top Soil to Landscaped Areas	11 20-Jan-17	04-Feb-17	41	CAL 2 - 6 day 1080 m3 / 100 m3 /day																		
CONS.A1.8540	Install Irrigation System Main Lines (900mn	n dia) 12 06-Feb-17	18-Feb-17	41	CAL 2 - 6 day																		
CONS.A1.8550	Install Lateral Irrigation Pipes & Sprinklers	12 20-Feb-17	04-Mar-17	41	CAL 2 - 6 day														 				
CONS.A1.8560	Irrigation Coverage Test	3 06-Mar-17	08-Mar-17	41	CAL 2 - 6 day								0										
CONS.A1.8570	Soft Landscaping - Shrubs Planting / Ground		15-May-17	0	CAL 2 - 6 day 1800 m2 / 10 m2 / manday / 20																		
CONS.A1.8580	Complete Landscape Works in Zone FC4		15-May-17	0	CAL 2 - 6 day									♦ 15-1	/av-17								
			13-Way-17	0										v is i									
	Vater Meter W02																		 				
Zone BC4	Commonoo Londaaaa Wali				CAL 2 6 day Arrs 15 470 0					2"	Jul-16 🔷												
CONS.C1.8200	Commence Landscape Works	0 21-Jul-16		0	CAL 2 - 6 day Area 15,470 m2					21.	- 10 - IUC												
CONS.C1.8210	Top Soil to Landscaped Areas	55 21-Jul-16	24-Sep-16	0	CAL 2 - 6 day 9,282 m3 / 200 m3 / day																		
CONS.C1.8220	Install Irrigation Main Line + Construct Sw		25-Oct-16	0	CAL 2 - 6 day																		
CONS.C1.8230	Install Lateral Irrigation Pipes / Sprinklers	60 06-Sep-16	18-Nov-16	0	CAL 2 - 6 day																		
CONS.C1.8240	Irrigation Coverage Test	14 19-Nov-16	05-Dec-16	0	CAL 2 - 6 day																		
CONS.C1.8250	Soft Landscaping - Shrubs Planting / Ground	d Cover 60 06-Dec-16	20-Feb-17	0	CAL 2 - 6 day 15,470 m2 / 10m2 / day / 26 workers																		
CONS.C1.8260	Complete Landscape Works in Zone BC4 W	02 0	20-Feb-17	0	CAL 2 - 6 day								\$ 20	Feb-17									
Zone BC4 in Po	rtion D1																						
CONS.C1.8600	Commence Landscape Works in Portion D1	0 26-Nov-16		0	CAL 2 - 6 day Area 2,730 m2						26-No	ov-16 🔶											
CONS.C1.8610	Top Soil to Landscaped Areas	24 26-Nov-16	23-Dec-16	0	CAL 2 - 6 day 1638 m3 / 100 m3 / day																		
CONS.C1.8620	Install Irrigation Main Line + Construct Sw	ale 44 24-Dec-16	20-Feb-17	0	CAL 2 - 6 day							•	-										
CONS.C1.8630	Install Lateral Irrigation Pipes / Sprinklers	30 14-Feb-17	20-Mar-17	0	CAL 2 - 6 day								-										
CONS.C1.8640	Irrigation Coverage Test	6 21-Mar-17	27-Mar-17	0	CAL 2 - 6 day								•										
CONS.C1.8650	Soft Landscaping - Shrubs Planting / Ground	d Cover 36 28-Mar-17	15-May-17	0	CAL 2 - 6 day 2730 m2 / 10m2 / day / 10 workers								1	-									
CONS.C1.8660	Complete Landscape Works in Portion D1 of	f Zone BC4 W02 0	15-May-17	0	CAL 2 - 6 day									♦ 15-1	Лау-17				 				
Zone CC4																							
CONS.C1.8270	Commence Landscape Works in Zone CC4	0 26-Sep-16		33	CAL 2 - 6 day Area 4,200 m2						26-Sep-16 🔇	•											
CONS.C1.8280	Top Soil to Landscaped Areas	26 26-Sep-16	27-Oct-16	33	CAL 2 - 6 day 2,520 m3 / 100 m3 / day																		
CONS.C1.8290	Install Irrigation Main Line	36 28-Oct-16	08-Dec-16	33	CAL 2 - 6 day							-											
CONS.C1.8300	Install Lateral Irrigation Pipes / Sprinklers	36 18-Nov-16	31-Dec-16	33	CAL 2 - 6 day														 				
CONS.C1.8310	Irrigation Coverage Test	6 03-Jan-17	09-Jan-17	33	CAL 2 - 6 day																		
CONS.C1.8320	Soft Landscaping - Shrubs Planting / Ground	d Cover 28 21-Feb-17	24-Mar-17	0	CAL 2 - 6 day 4,200 m2 /10 m2 / 15 workers								-										
CONS.C1.8330	Complete Landscape Works in Zone	0	24-Mar-17	0	CAL 2 - 6 day								•	24-Mar-17									
Zone EC4																							
CONS.C1.8340	Commence Landscape Works	0 28-Oct-16		64	CAL 2 - 6 day Area 2,400 m2	l					28-Oct-1	б 🔷							 				
CONS.C1.8350	Top Soil to Landscaped Areas	15 28-Oct-16	14-Nov-16	64	CAL 2 - 6 day 1,440 m3 / 100 m3 / day																		
CONS.C1.8360	Install Irrigation Main Line	24 15-Nov-16	12-Dec-16	64	CAL 2 - 6 day	$\left\{ \begin{array}{c} \\ \end{array} \right\}$																	
CONS.C1.8370	Install Lateral Irrigation Pipes / Sprinklers	15 13-Dec-16	31-Dec-16	64	CAL 2 - 6 day																		
CONS.C1.8370		3 03-Jan-17	05-Jan-17	64	CAL 2 - 6 day																		
	Irrigation Coverage Test			04		 													 				
CONS.C1.8390	Soft Landscaping - Shrubs Planting / Ground		21-Apr-17	0	CAL 2 - 6 day 2400 m2 / 10 m2 / 12 workers									• 21 Apr	17								
CONS.C1.8400	Complete Landscape Works in Zone EC4 W	02 0	21-Apr-17	0	CAL 2 - 6 day									◆ 21-Apr	-17								

ata Date: 27-Feb-15 rint Date: 23-Apr-15 1	3:05	HY/	2013/04	l - Hong	y Kong B	oundary Cros	sing l	Faci	ilities	s Infra	astruc	cture	Wor	ks S	Stage II	(Sout	hern	Porti	on)						Page	: 23 / 2	24
ctivity ID	Activity Name	Orig Dur Early Start	Early Finish	Total Float	Calendar	Remarks				2015					2016			20				2018		I		2019	
Zone FC4				Fillat				D J F	F M A	M J Jul	ASO	ND	JFM	AM	J Jul A S	O N D	JFM	A M J	Jul A S	DJF	MA	M J Jul	AS	OND	JFN	<u>/ A M</u>	J Jul
CONS.C1.8410	Commence Landscape Works	0 15-Nov-16		76	CAL 2 - 6 day	Area 1,800 m2									15-Nov	-16 🔷											
CONS.C1.8420	Top Soil to Landscaped Areas	12 15-Nov-16	28-Nov-16	76		1080 m3 / 100 m3 / day	_																				
CONS.C1.8430	Install Irrigation Main Line	24 29-Nov-16	28-Dec-16	76	CAL 2 - 6 day															 							
CONS.C1.8440	Install Lateral Irrigation Pipes / Sprinklers	12 29-Dec-16	12-Jan-17	76	CAL 2 - 6 day		_										,										
CONS.C1.8450	Irrigation Coverage Test	2 13-Jan-17	14-Jan-17	76	CAL 2 - 6 day		_																				
CONS.C1.8460	Soft Landscaping - Shrubs Planting / Ground Cover	18 22-Apr-17	15-May-17	,,,		1800 m2 / 10 m2 / 10 workers	_																				
CONS.C1.8480	Complete Landscape Works in Zone FC4 W02	10 22-Api-17		0	CAL 2 - 6 day	1000 m2 / 10 m2 / 10 workers	_											♦ 15-1	101/17								
		0	15-May-17	0	CAL 2 - 0 day													• 13-1	iay-17	 							
	er Tanks and Booster Pumps		00.4 1/																								
CONS.C1.8790	Identify and Agree location with Engineer	12 21-Jul-16	03-Aug-16	4	CAL 2 - 6 day		_																				
CONS.C1.8800	Construct Irrigation Water Tanks and Booster Pump Chamber	48 04-Aug-16	30-Sep-16	4	CAL 2 - 6 day		_																				
CONS.C1.8810	MEP Works - Electrical and Mechanical Installation + T&C	36 03-Oct-16	14-Nov-16	4	CAL 2 - 6 day																						
	Period (1 year)																			 							
CONS.C1.8190	Establishment of Landscape Works	365 16-May-17	15-May-18	0	CAL 1 - 7 day																						
Executive Su	nmary																										
Box Culverts																											
Box Culvert D																											
BCD.ES.1010	Box Cullvert D - Bored Piling, Testing + Pile caps (Bay 1-15)	172 18-Jun-15	13-Jan-16	0	CAL 2 - 6 day																						
BCD.ES.1020	Box Cullvert D - RC Box Structure + Backfilling (Bay 1-15)	126 06-Nov-15	12-Apr-16	1	CAL 2 - 6 day									•													
BCD.ES.1030	Box Cullvert D - Bored Piling + Pile Testing (Bay 1-3)	89 21-Dec-15	13-Apr-16	0	CAL 2 - 6 day							-		-													
BCD.ES.1040	Box Cullvert D - Cofferdam + ELS (Bay 1-3 + Outflow)	140 14-Apr-16	30-Sep-16	0	CAL 2 - 6 day																						
BCD.ES.1050	Box Cullvert D - Pile Caps+ RC Box Structure (Bay 1-3 + Outflow)	180 03-Oct-16	15-May-17	0	CAL 2 - 6 day													-									
Box Culvert C																											
BCC.ES.2010	Box Culvert C - Driven H Pile + Pile caps (Bay 4-9)	146 06-Nov-15	06-May-16	0	CAL 2 - 6 day																						
BCC.ES.2020	Box Culvert C - Construct RC Box Structure (Bay 4-9)	96 07-Mar-16	05-Jul-16	0	CAL 2 - 6 day								-		-												
BCC.ES.2030	Box Culvert C - Driven H Pile + Load Testing (Bay 1-3)	69 09-Apr-16	02-Jul-16	2	CAL 2 - 6 day									+	-												
BCC.ES.2040	Box Cullvert C - Cofferdam + ELS (Bay 1-3 + Outflow)	126 06-Jul-16	03-Dec-16	0	CAL 2 - 6 day																						
BCC.ES.2050	Box Cullvert C - Pilecaps + RC Box Structure (Bay 1-3 + Outflow)	127 05-Dec-16	15-May-17	0	CAL 2 - 6 day													-									
Bridge Works		J I																		 							
Bridges in Por	tion A & B																										
BRG.ES.1010	Bridges in Portion A & B - Bored Piling + Pilecaps	309 20-May-15	03-Jun-16	0	CAL 2 - 6 day																						
BRG.ES.1020	Bridges in Portion A & B - Column / Pier Head + Bearings	227 24-Oct-15	30-Jul-16	10	CAL 2 - 6 day		_				1																
BRG.ES.1030	Bridges in Portion A & B - Decking / Segments Erection + Stitching	309 30-Nov-15	14-Dec-16	25	CAL 2 - 6 day		_					-			-												
BRG.ES.1040	Bridges in Portion A & B - Parapet + Ancillary Works	274 01-Mar-16	03-Feb-17	19	CAL 2 - 6 day									····			-			 							
Bridges in Por	tion C & D																										
BRG.ES.2010	Bridges in Portion C & D - Bored Piling + Pilecaps	172 26-Sep-15	28-Apr-16	0	CAL 2 - 6 day						-			-													
BRG.ES.2020	Bridges in Portion C & D - Column, Pier Head + Bearings	77 23-Feb-16	28-May-16	0	CAL 2 - 6 day		_						-														
BRG.ES.2030	Bridges in Portion C & D - Decking / Segments Erection + Stitching	79 23-Apr-16	28-Jul-16	0	CAL 2 - 6 day									-													
BRG.ES.2040	Bridges in Portion C & D - Parapet + Ancillary Works	218 22-Jun-16	15-Mar-17	11	CAL 2 - 6 day															 							
Road Works																											
	East of Box Culvert D																										
RDE.ES.1010	Road Works East of Box Culvert D - Road Formation + Drainage	275 20-May-15	22-Apr-16	0	CAL 2 - 6 day									-													
RDE.ES.1020	Road Works East of Box Culvert D - U/G Utilities	235 21-Jul-15	05-May-16	0	CAL 2 - 6 day		-			=			_	-													
RDE.ES.1030	Road Works East of Box Culvert D - Road Formation to Sub-base + Kerbing	147 20-Nov-15	23-May-16	0	CAL 2 - 6 day															 							
RDE.ES.1040	Road Works East of Box Culvert D - Road Formation to Base Course	107 26-Jan-16	08-Jun-16	0	CAL 2 - 6 day																						
					0 001																<u>. </u>						
																											-

HY/2013/04 - Hong Kong Boundary Crossing Facilities Infrastructure Works Stage II (Southern Portion)

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total	Calendar	Remarks		_			2015	5				0	2016					2	2017	
/ Colvity 1D		Ong Dul	Lany Start	Lany Finish	Float	Caleriual	i tonarto	0	N D	JF	MA			0 N I	JJF	MA			ASO		DJ	F M			sc
RDE.ES.1050	Road Works East of Box Culvert D - Final Paving + Road Marking & Signages	428	25-Nov-16	10-May-18	0	CAL 2 - 6 day	/																		
Road Works -	West of Box Culvert D																								
RDW.ES.2010	Road Works West of Box Culvert D - Road Formation + Drainage	228	14-Sep-15	23-Jun-16	11	CAL 2 - 6 day	/						-												
RDW.ES.2020	Road Works West of Box Culvert D - U/G Utilities	212	17-Nov-15	05-Aug-16	11	CAL 2 - 6 day	/																		
RDW.ES.2030	Road Works West of Box Culvert D - Road Formation to Sub-base + Kerbing	148	22-Mar-16	21-Sep-16	48	CAL 2 - 6 day	/									-			-						
RDW.ES.2040	Road Works West of Box Culvert D - Road Formation to Base Course	154	31-May-16	02-Dec-16	24	CAL 2 - 6 day	/										-								
RDW.ES.2050	Road Works West of Box Culvert D - Final Paving + Road Marking & Signages	68	18-Feb-17	15-May-17	0	CAL 2 - 6 day	/																-		
Sign Gantry																									
SGW.ES.1010	Sign Gantry - Driven H-Pile	213	14-Sep-15	04-Jun-16	0	CAL 2 - 6 day	/							<u> </u>		<u> </u>									
SGW.ES.1020	Sign Gantry - Pile caps	140	07-Jan-16	29-Jun-16	0	CAL 2 - 6 day	/	_																	
SGW.ES.1030	Sign Gantry - Erection of Sign Gantry	90	03-May-16	18-Aug-16	0	CAL 2 - 6 day	/	_									-		•						
Retaining Wa	lls																								
Retaining Wa	IIs in Portion A (East)																								
RWW.ES.1040	Retaining Walls in Portion A - Excavation	358	22-Jul-15	04-Oct-16	0	CAL 2 - 6 day	/									<u></u>									
RWW.ES.1050	Retaining Walls in Portion A - Construct Base + Wall Stem	354	19-Aug-15	28-Oct-16	0	CAL 2 - 6 day	/						-						_	-					
RWW.ES.1060	Retaining Walls in Portion A - Backfill and Reinstate Road	356	16-Sep-15	28-Nov-16	0	CAL 2 - 6 day	/						-							_					
Retaining Wa	IIs in Portion C (West)]]																				
RWW.ES.1010	Retaining Walls in Portion C - Excavation	81	17-Jun-16	22-Sep-16	23	CAL 2 - 6 day	/										•		-						
RWW.ES.1020	Retaining Walls in Portion C - Construct Base + Wall Stem	99	09-Jul-16	05-Nov-16	23	CAL 2 - 6 day	/											-							
RWW.ES.1030	Retaining Walls in Portion C - Backfill and Reinstate Road	87	03-Sep-16	17-Dec-16	23	CAL 2 - 6 day	/												+		•				
Irrigation and	Landscape																								
Landscape W	orks - Water Meter O4																								
LSW.ES.1010	Irrigation & Landscape Works WM04 - Top Soil	397	22-Mar-16	27-Jul-17	0	CAL 2 - 6 day	/									-								+	
LSW.ES.1020	Irrigation & Landscape Works WM04 - Install Irrigation Lines (Main & Lateral)	459	17-Jun-16	02-Jan-18	0	CAL 2 - 6 day	/										•							<u></u>	1
LSW.ES.1030	Irrigation & Landscape Works WM04 - Soft Landscaping Works (AC4 to FC4)	453	27-Oct-16	10-May-18	0	CAL 2 - 6 day	/																	Ħ	Ħ
Landscape W	orks - Water Meter 02						·																		
LSW.ES.2010	Irrigation & Landscape Works WM02 - Top Soil	130	21-Jul-16	23-Dec-16	0	CAL 2 - 6 day	/											+			-				
LSW.ES.2020	Irrigation & Landscape Works WM02 - Install Irrigation Lines (Main & Lateral)	179	12-Aug-16	20-Mar-17	0	CAL 2 - 6 day	/											-				-			
LSW.ES.2030	Irrigation & Landscape Works WM02 - Soft Landscaping Works (BC4 to FC4)	126	06-Dec-16	15-May-17	0	CAL 2 - 6 day	/													•			-		
								- · ·																	

															F	Pag	e:		12	24			
0	Ν	D	J	F	М	A	М	20 J	18 Jul	A	S	0	N	D	J	F	М	2 A	019 M	J	Jul	A	3
			¦																				



Appendix D. Event and Action Plan

Event/Action Plan for Air Quality

	EVENT		ACTI	ON	
		ET	IEC	ER	CONTRACTOR
	CTION LEVEL			1	
1.	Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
2.	Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurement s to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

	EVENT		ACTIO	ON	
		ET	IEC	ER	CONTRACTOR
LI	MIT LEVEL				
1.	Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
2.	Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

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



Appendix E. Waste Flow Table

Monthly Summary Waste Flow Table for 2016

		Actual Qua	Intities of Inert C&D	Materials Generate	ed Monthly			Actual Quantitie	s of C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Transported to other Projects (Note 2)	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (Note 1)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.8	0	0	0.8	0	0	0	0	0	0	0.04
Feb	0.704	0	0	0.704	0	0	0	0	0	0	0.04
Mar	3.942	0	0	3.942	0	0	0	0	0	0	0.033
Apr	5.028	0	0	5.028	0	0	0	0	0	0	0.0186
May											
Jun											
Sub-total	10.474	0	0	10.474	0	0	0	0	0	0	0.1316
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	10.474	0	0	10.474	0	0	0	0	0	0	0.1316

Note: (1) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

(2) "Other Projects" refers to HKBCF Contract No. HY/2013/03

Monthly Summary of Excavated Marine Sediment for 2016

Month	a. Estimated Volume of Excavated Marine Sediment Generated	b. Estimate Volume of Accumulated Excavated Marine Sediment Treated	c. Reused in the Contract	d. Estimated Volume of Excavated Marine Sediment Transported to Other Projects (Note 1)	e. Estimated Volume of Treated Excavated Marine Sediment Stored on Site (Unused)
	(in m ³)	(in m ³)	(in m ³)	(in m ³)	(in m ³)
Jan	800	0	0	800	0
Feb	704	0	0	704	0
Mar	3942	0	0	3942	0
Apr	5028	0	0	5028	0
Total	10474	0	0	10474	0

Note: (1) "Other Projects" refers to HKBCF Contract No. HY/2013/03



Appendix F. Environmental Licenses and Permits

Environmental Licenses and Permits

ltem No.	Type of Permit / Licence	Reference No.	Application Date	Date of Issue	Date of Expiry	Remark
1	Environmental Permit under EIAO	EP-353/2009/K	24 Mar 2016	11 Apr 2016	N/A	Issued
2	Construction Dust Notification (HKBCF Southern Portion)	387156	26 Mar 2015	1 Apr 2015	N/A	Notified
3	Construction Waste Disposal Account	7022038	16 Mar 2015	1 Apr 2015	N/A	Account approved
4	Registration as a Chemical Waste Producer (HKBCF Southern Portion)	Waste Producer Number (WPN): 5213-951-C3952-01	27 Mar 2015	27 Apr 2015	N/A	Registration completed
5	Discharge Licence under WPCO (Works Area WA3)	WT00022316-2015	1 Jun 2015	14 Aug 2015	31 Aug 2020	Issued
6	Construction Noise Permit	PP-RS0030-15	7 Dec 2015	21 Dec 2015	27 Jun 2016	Issued
7	Construction Noise Permit	GW-RS0062-16	12 Jan 2016	22 Jan 2016	30 Apr 2016	Issued
8	Construction Noise Permit	PP-RS0008-16	16 Feb 2016	1 Mar 2016	31 Aug 2016	Issued



Appendix G. Implementation Schedule for Environmental Mitigation Measures (EMIS)

	EM&A Log		Location of the	Implementatio
EIA Ref.	Ref.	Recommended Mitigation Measures	measures	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	 Proper watering of exposed spoil should be undertaken throughout the construction phase: 	All construction sites	V
		 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 be extend beyond the pedestrian barriers, fencing or traffic cones. 		
		 The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; 		
		 Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 		
S5.5.6.2	A2	• 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;	All construction sites	V
		 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 and the 3 sides 		
S5.5.6.2	A2	 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; 	All construction sites	V
		 Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and 		

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

	EM&A			
EIA Ref.	Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all All construction sites exposed spoil (with at least 8 times per day) throughout the construction phase.		V
S5.5.6.4	A4	4) Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the Contractor's attention to the relevant latest Practice Notes issued by EPD.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected representative dust monitoring station	V (covered by Contract No. HY/2010/02 & HY/2011/03)
S5.5.7.1	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:	Selected representative dust	N/A
		 Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; 	monitoring station	
		 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. 		
S5.5.2.7	A7	The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:	All construction sites	N/A
		 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.		
Constructio		· · · · · ·		
S6.4.10	N1	 Use of good site practices to limit noise emissions by considering the following: 	All construction sites	V
		 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; 		

EIA Ref.	EM&A Log Ref.	Decommanded Mitigation Measures	Location of the	Implementatior Status
EIA Kei.	Kel.	Recommended Mitigation Measures mobile plant should be sited as far away from NSRs as possible 	measures	Status
		 and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
S6.4.11	N2	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	N/A
S6.4.12	N3			N/A
S6.4.13	 A.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 sites	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	All construction sites where practicable	V
	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	V (covered by Contract No. HY/2010/02)
Sediment				,
S7.3	S1	1) The requirements as recommended in ETWB TC(W) 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	All construction sites	V
Waste Mana	agement (C	construction Noise)		
S8.3.8	WM1	Construction and Demolition Material	All construction sites	V
		The following mitigation measures should be implemented in handling the waste:		
		 Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; 		
		 Carry out on-site sorting; 		
		 Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; 		
		 Adopt 'Selective Demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; 		
		 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 W aste Management Plan similar to ETWB TC(W) 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 disposal sites to the Project Proponent and get its approval before implementation. 		
S8.3.9-	WM2	C&D Waste	All construction sites	V
S8.3.11		 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 		

	EM&A		Location of the	Implomentation
EIA Ref.	Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		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.		
S8.2.12-	WM3	Chemical Waste	All construction sites	V
S8.3.15		• 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 labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated.		
		• Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD.		
S8.3.16	WM4	 <u>Sewage</u> 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. 	All construction sites	V
		Night soil should be collected by licensed collectors regularly.		
S8.3.17	WM5	General Refuse • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All construction sites	V
		• A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.		
		 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. In addition, waste separation facilities for paper, aluminium cans, plastic bottles etc., should be provided. 		

	EM&A			
EIA Ref.	Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		• 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 Qual	ity (Constr	uction Phase)		
S9.11.1.7	W2	Land Works 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:	Land-based works areas	V
		 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 W PCO 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; 		
		 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 washing bay and the public road should be surfaced with crushed stone or coarse gravel; 		
		 wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; 		
		 vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the W PCO or collected for off site disposal; 		
		• the Contractors shall prepare an oil / chemical cleanup plan and		

	EM&A Log		Location of the	Implementatio
EIA Ref.	Ref.	Recommended Mitigation Measures	measures	Status
		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 (C	onstructior	n Phase)		
S10.7	E4	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	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	Control vessel speed	Marine Traffic	N/A
		Skipper training		
		 Predefined and regular routes for working vessels; avoid Brother Islands. 		
Fisheries				
S11.7	F4	Maritime Oil Spill Response Plan (MOSRP); Contingency plan.	HKBCF	V
Londoono	9 Mierrel /F			
	-	Detailed Design Phase)		
S14.3.3.1	LV1	General design measures include: • Roadside planting and planting along the edge of the HKBCF Island is proposed;	HKBCF	V
		Transplanting of mature trees in good health and amenity value		
		where appropriate and reinstatement of areas disturbed during		
		 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 		
		 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- 		
		 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; Maximizing new tree, shrub and other vegetation planting to 		
		 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; Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; Providing planting area around peripheral of HKBCF for tree 		
		 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; Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; Providing planting area around peripheral of HKBCF for tree planting screening effect; Providing salt-tolerant native trees along the planter strip at 		
		 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; Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; 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 and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to 		
landecare	& Vieual //	 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; Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; 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 and so on), and the related infrastructure (e.g. parapet planting and strong and subtle materials for other facilities buildings atmosphere of the HKBCF; and Fine-tuning the sizes of the structural members to minimize the 		

	EM&A Log		Location of the	Implementation
EIA Ref.	Ref.	Recommended Mitigation Measures	measures	Status
		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.		
S14.3.3.3	LV3	Mitigate Visual Impacts		N/A
		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.		
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.	All construction sites	V
		 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.		

Legend: V = implemented;

x = not implemented; N/A = not applicable



Appendix H. Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

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



Appendix I. Environmental Site Inspection Schedule Environmental Site Inspection Schedule for April 2016

	Apr-16							
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
					1	2		
		-		-				
3	4 Public Holiday	5	6	7	8	9		
	Fublic Holiday			Weekly Audit				
10	11	12	13	14	15	16		
			-	Weekly Audit		-		
				2				
17	18	19	20	21	22	23		
	Weekly Audit							
0.4	05	00	07	00	00	00		
24	25	26 Weekly Audit	27	28	29	30		
		Weekly Audit						

Tentative Environmental Site Inspection Schedule for May 2016

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