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11 August 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. Darrel Kingan

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/2013/01 – HZMB HKBCF – Passenger Clearance Building Monthly Environmental Monitoring & Audit Report for July 2016

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report No. 22 for July 2016 (Rev. 0) certified by the ET Leader (ET's ref.: "5126871/19.10/OC070/SO/RC" dated 10 August 2016) and provided to us via e-mail on 10 August 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

angut

Raymond Dai Independent Environmental Checker Hong Kong Link Road

c.c.

HyD	Mr. Vico Cheung
HyD	Ms. Lowell Chiu
Atkins	Ms. Sharifah Or
LCWJV	Mr. Gary Wong

(By Fax: 3188 6614) (By Fax: 3188 6614) (By Fax: 2890 6343) (By Fax: 3621 0180)

Internal: DY, YH, ENPO Site

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Your ref. 5126871/19.10/OC070/SO/RC

Date: 10 August 2016

By Post and e-mail (Donald.lp@lcwjv.com)

Leighton – Chun Wo Joint Venture 39/F Sun Hung Kai Centre 30 Harbour Road Hong Kong

Attn: Mr. Donald Ip

Dear Mr. Ip,

Contract No. HY/2013/01 Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building Certification of Monthly EM&A Report No. 22

Atkins China Limited certifies, in the capacity of Environmental Team Leader, that the Monthly EM&A Report No. 22 for July 2016 (Revision 0) conforms the requirements provided in Condition 5.4 of the Environmental Permit No. EP-353/2009/K.

Yours faithfully, for and on behalf of Atkins China Limited

Apit

Sharifah OR Environmental Team Leader

cc.

- 1. AECOM Mr. Darrel Kingan (By Fax.: 3468 2076)
- 2. ENPO/IEC Mr. Raymond Dai & Mr. Y.H. Hui (By Fax.: 3465 2899)



Contract No. HY/2013/01

Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building

Monthly EM&A Report No. 22 (Covering the Period from 1 July 2016 to 31 July 2016)

5 Aug 2016

Revision 0

Main Contractor



Leighton - Chun Wo Joint Venture **Environmental Team**





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

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Executive Summary

This monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) – Passenger Clearance Building (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). The Contract was awarded to Leighton – Chun Wo Joint Venture (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.

The Contract is part of Hong Kong – Zhuhai – Macao Bridge HKBCF which is a "Designated Project", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499) and Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) was prepared for the Project. The current Environmental Permit (EP) No. EP-353/2009/K for HKBCF was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Site preparation works of the Contract started on 26 September 2014 and the construction works of the Contract commenced on 6 October 2014.

Atkins China 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 to the Contract.

This is the twenty-second monthly EM&A Report for the Contract which summarizes findings of the EM&A works during the reporting period from 1 to 31 July 2016.

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: 6, 13, 20 and 27 July 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 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 NMS2 and 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 Change

There was no reporting change during the reporting period.





Future Key Issues

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

- Piling Test (WA1);
- Bulk Excavation (Box Culvert);
- Pile Cropping(WA1);
- Tie Beams (WA1);
- Pile Capping (WA1);
- Service Troughs construction(WA1);
- Waterproofing (WA1);
- Tower Crane Erection(WA1);
- Southern Drop off Area Pile Capping & Column (WA1);
- Suspended Slab Construction (WA1);
- Backfilling (WA1);
- Mega Column Construction (WA1);
- RC works at CUE (WA1);
- Formwork and falsework stripping (WA1);
- Column and Wall Construction (WA1);
- Blockwork walls (WA1);
- Pipework and ductwork (WA1);
- Seawater Pump House Jet Grouting (WA1);
- Footings for roof erection (WA1);
- Hanger rods for cable container (WA1);
- Wet trade works (WA1);
- Launch Rail Installation (WA1);
- Façade Bracket for Cabins (WA1);
- Segment Travelling Works (WA1); and
- MEP High Level Containment (WA1).-



Introduction

1.1 Basic Project Information

- 1.1.1 This monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract HY/2013/01 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities Passenger Clearance Building (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region. The Contract was awarded to Leighton Chun Wo Joint Venture (hereafter referred to as "the Contractor") and Atkins China Limited was appointed as the Environmental Team (ET) by the Contractor.
- 1.1.2 The Contract is part of Hong Kong Zhuhai Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) which is a "Designated Project", under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499). An Environmental Impact Assessment (EIA) Report (Register No. AEIAR-145/2009) was prepared for the Project. The current Environmental Permit (EP) No. EP-353/2009/K for HKBCF was issued on 11 April 2016. These documents are available through the EIA Ordinance Register. Site preparation work of the Contract started on 26 September 2014 and the construction works of the Contract Appendix A.
- 1.1.3 The proposed works under this Contract comprise the following:
 - Construction of Passenger Clearance Building (PCB) including architectural and builders works, structural steel roof and reinforced concrete frames, basement, piled foundations, aluminium roof, curtain wall facades, building services and electrical and mechanical works;
 - Installation of district cooling system including seawater cooling intake pumping station, seawater intake and discharge water pipelines work; Installation of Chilled water cooling pipelines system, heat exchanger and chilled pumping system;
 - Construction of transport and associated facilities connecting to the PCB entailing the Emergency Vehicular Access, an at-grade mainland side drop-off area, an Hong Kong side elevated drop-off deck and 8 numbers of footbridge links;
 - Construction of a public toilet, 6 numbers of C&ED observation booths, a generator set building and a refuse storage & material recovery chamber;
 - Construction of a section of 70m common utilities enclosure and staff subway and civil provisions for associated electrical and mechanical works;
 - Construction of drainage, sewerage, fresh water & flushing water supply and utilities & service works;
 - Construction of civil provisions, including draw pits & ducting for Traffic Control and Surveillance System (TCSS) and Extra Low Voltage System (ELV);
 - Construction of box culvert A;
 - Construction of 2 numbers of vehicular bridge abutments at mainland side pickup area earthmound;
 - Construction of geotechnical works including top up the existing earth mound from +11.5mPD to the finished level as stated in the Contract, reinforced earth slope and fill slopes and special backdrop manhole at mainland side pick up area earthmound;
 - Landscape hardworks and softworks; and
 - Other works which are shown on the Drawings or specified in the Specification or which may be ordered in accordance with the Contract.
- 1.1.4 This is the twenty-second Monthly EM&A Report for the Contract which summarizes the audit findings of the EM&A programme during the reporting period from 1 to 31 July 2016.





1.2 **Project Organisation**

1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix B**. The key personnel contact names and numbers are summarized in **Table 1-1**.

Table 1-1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Darrel Kingan	3958 7339	3468 2076
Environmental Project Office / Independent Environmental Checker (Ramboll Environ	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
Hong Kong Limited)	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
Contractor	Project Manager	Gary Wong	3973 0488	3621 0180
(Leighton – Chun Wo Joint Venture)	Environmental Officer	Michael Lee	9502 5887	3621 0180
Environmental Team (Atkins China Limited)	Environmental Team Leader	Sharifah Or	2972 1802	2890 6343
24 hours complaint hotline			3958 7300	

1.3 Construction Programme

1.3.1 A copy of the Contractor's construction programme is provided in **Appendix C**.

1.4 Construction Works Undertaken During the Reporting Period

- 1.4.1 A summary of the construction activities undertaken during this reporting period is shown below:
 - Piling Test (WA1);
 - Bulk Excavation (Box Culvert);
 - Pile Cropping(WA1);
 - Tie Beams (WA1);
 - Pile Capping (WA1);
 - Service Troughs construction(WA1);
 - Waterproofing (WA1);
 - Tower Crane Erection(WA1);
 - Southern Drop off Area Pile Capping & Column (WA1);
 - Suspended Slab Construction (WA1);
 - Marine Mud Treatment (WA1);
 - Backfilling (WA1);
 - Mega Column Construction (WA1);
 - RC works at CUE (WA1);
 - Bored Pilling Works at NFB (WA1);
 - Formwork and falsework stripping (WA1);





- Column and Wall Construction (WA1);
- Blockwork walls (WA1);
- Pipework and ductwork (WA1);
- Seawater Pump House Jet Grouting (WA1);
- Footings for roof erection (WA1);
- Hanger rods for cable container (WA1);
- Wet trade works (WA1);
- Sheet Piling (WA1 SWP & Box Culvert);
- Temporary Launch Tower (WA1); and
- Launch Rail Installation (WA1)
- 1.4.2 No marine works were undertaken under the Contract during the reporting period from 1 to 31 July 2016.



2 Air Quality Monitoring

2.1 Monitoring Locations

- 2.1.1 The air quality monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF.
- 2.1.2 The permission to carry out impact air quality monitoring work at AMS7 (Hong Kong SkyCity Marriott Hotel) was not granted after 31 January 2015. The air quality monitoring location (AMS7) was relocated to a nearby air sensitive receiver, Chu Kong Air-Sea Union Transportation Co. Ltd, from 5 February 2015. The alternative location was approved by EPD on 5 February 2015. However, AMS7A was relocated back to its original location (AMS7-Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The relocation of air quality monitoring location, AMS7A, back to AMS7 was approved by EPD on 21 December 2015. The baseline and action/limit level for air quality as derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel (AMS7) was adopted for the air quality monitoring location.
- 2.1.3 The ET of the Contract or another ET of the HZMB project is required to conduct 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 Nos. HY/2010/02 and HY/2011/03. **Figure 2.1** shows the locations of the air monitoring stations.

ID	Location Description
AMS 6 ⁽¹⁾	Dragonair/CNAC (Group) Building
AMS 7 ^{(1), (2)}	Hong Kong SkyCity Marriott Hotel

Table 2-1 Construction Dust Monitoring Locations

Remark:

- (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 the latest notification from ENPO when the monitoring station(s) is/are no longer covered by another ET of the HZMB project.
- (2) The original monitoring location was at Hong Kong SkyCity Marriott Hotel (AMS7). As the permission to carry out air quality monitoring at Hong Kong SkyCity Marriott Hotel was not granted after 31 January 2015, the monitoring location was relocated to Chu Kong Air-Sea Union Transportation Co. Ltd. (AMS7A) from 5 February 2015 to 30 December 2015. The alternative monitoring location at Chu Kong Air-Sea Union Transportation Co. Ltd. was approved by EPD on 5 February 2015. However, AMS7A was relocated back to its original location (AMS7-Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The relocation of air quality monitoring location, AMS7A, back to AMS7 was approved by EPD on 21 December 2015.

2.2 Monitoring Requirements

- 2.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared for Contract Nos. HY/2010/02 and HY/2011/03.
- 2.2.2 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	
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	- 500	
AMS 7 - Hong Kong SkyCity Marriott Hotel	370		

Table 2-3 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m³	
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	360	
AMS 7 - Hong Kong SkyCity Marriott Hotel	183	- 260	

- 2.2.3 The event and action plan is provided in **Appendix D**.
- 2.2.4 If exceedance(s) at these station(s) is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the monthly EM&A Report.

2.3 Monitoring Results

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



3 Noise Monitoring

3.1 Monitoring Locations

3.1.1 The noise monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works. The ET of the Contract or another ET of the HZMB project is required to conduct impact noise monitoring at NMS2 and NMS3B as part of EM&A programme if these noise monitoring stations are no longer covered under Contract No. HY/2010/02. **Figure 3.1** shows the locations of noise monitoring stations.

Table 3-1	Construction	Noise	Monitoring	Locations
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ID	Location Description
NMS2 ⁽¹⁾	Seaview Crescent
NMS3B ⁽¹⁾⁽²⁾	Site Boundary of Site Office Area at Works Area WA2

Remarks:

- (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

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

Table 3-2 Action and Limit Level for Construction Noise

Parameter	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received	75 dB(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.

* Limit level is 70 dB(Å) for schools and 65 dB(Å) during school examination period.

- 3.2.3 The event and action plan is provided in **Appendix D**.
- 3.2.4 If exceedance(s) at these station(s) 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.

3.3 Monitoring Results

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





Environmental Site Inspection and Audit

4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, site inspections were carried out on 6, 13, 20 and 27 July 2016.
- 4.1.2 Particular observations during the site inspections and corrective actions undertaken by the Contractor are described in **Table 4.1**.

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
29 June 2016	1.Rubbish was found on the basement floor at Common Utilities Enclosure (CUE).	1. The rubbish was cleared on the basement floor at CUE.	6 July 2016
6 July 2016	1.Chemical drums were placed on the ground near the site office of sub-contractor.	 Drip trays were provided for the chemical drums near the site office of sub-contractor. 	13 July 2016
13 July 2016	1. General refuse was found on the ground at WA1	1. The general refuse was cleared on the ground at WA1.	20 July 2016
	2. The doors of power room were opened when a crawler crane was in operation	 The doors of power room were closed when a crawler crane was in operation. 	20 July 2016
20 July 2016	No particular environmental issue was recorded during the site inspection.	NIL	NIL
27 July 2016	1.A haul road at eastern side of site area was observed dry.	 The Contractor is recommended to provide water spraying for the haul road regularly. 	Follow-up actions undertaken by the Contractor will be
	2.A chemical drum was found on the ground without drip tray near seawater pump house.	 The Contractor is recommended to provide a drip tray for the chemical drum. 	inspected during the site inspection to be undertaken in August 2016.
	3.Construction waste was accumulated on the ground near seawater pump house.	3. The Contractor is recommended to remove the construction waste regularly.	2010.

 Table 4-1
 Summary of Environmental Site Inspections

- 4.1.3 The Contractor has rectified most of observations as identified during environmental site inspections within this reporting month. The follow-up actions for observation issued for the last site inspection will be checked in the upcoming site inspection and reported in the next reporting period.
- 4.2 Advice on the Solid and Liquid Waste Management Status
- 4.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 4.2.2 Excavated marine sediment was generated and treated using cement solidification/stabilization (Cement S/S) techniques during the reporting period. The treated marine sediment was reused within the Contract site during reporting period. Remaining treated marine sediment was stored on site to be reused later. As informed by the Contractor in March 2016, the transfer of treated marine sediment to Contract no. HY/2010/02 has been discontinued since July 2015.





- 4.2.3 The monthly summary of waste flow table is detailed in **Appendix E**.
- 4.2.4 The Contractor was reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage areas on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.
- 4.3 Environmental Licenses and Permits
- 4.3.1 The valid environmental licenses and permits during the reporting period are summarized in **Appendix F**.

4.4 Implementation Status of Environmental Mitigation Measures

- 4.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 4.4.2 The Contractor conducts watering on all exposed soil within the Contract site and associated works areas 8 times per day when construction activities are being undertaken.
- 4.4.3 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
- 4.5.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 4.5.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 4.5.3 There was no Action and Limit Level exceedance for noise recorded at NMS2 and 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
- 4.6.1 There were no complaints received in relation to the environmental impact during the reporting period. No notification of summons and prosecution was received during the reporting period.
- 4.6.2 Statistics on environmental complaints, notifications of summons and successful prosecutions are summarized in **Appendix H**.



5 Future Key Issues

5.1 Construction Programme for the Coming Months

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

Site Area	Description of Activities
WA1	Piling Test
Box culvert	Bulk Excavation
WA1	Pile Cropping
WA1	Tie Beams
WA1	Pile Capping
WA1	Service Troughs construction
WA1	Waterproofing
WA1	Tower Crane Erection
WA1	Southern Drop off Area Pile Capping & Column
WA1	Suspended Slab Construction
WA1	Backfilling
WA1	Mega Column Construction
WA1	RC works at CUE
WA1	Formwork and falsework stripping
WA1	Column and Wall Construction
WA1	Blockwork walls
WA1	Pipework and ductwork
WA1	Seawater Pump House Jet Grouting
WA1	Footings for roof erection
WA1	Hanger rods for cable container
WA1	Wet trade works
WA1	Launch Rail Installation
WA1	Façade Bracket for Cabins
WA1	Segment Travelling Works
WA1	MEP High Level Containment

5.2 Environmental Site Inspection Schedule for the Coming Month

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





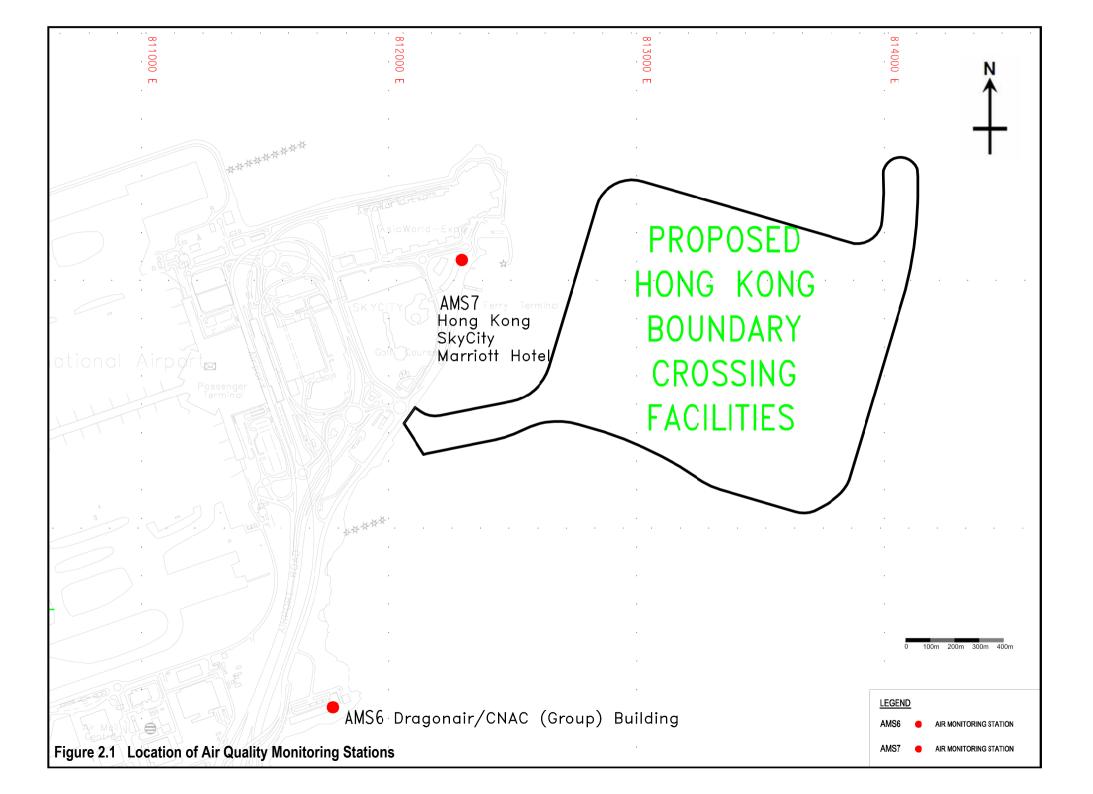
Conclusions

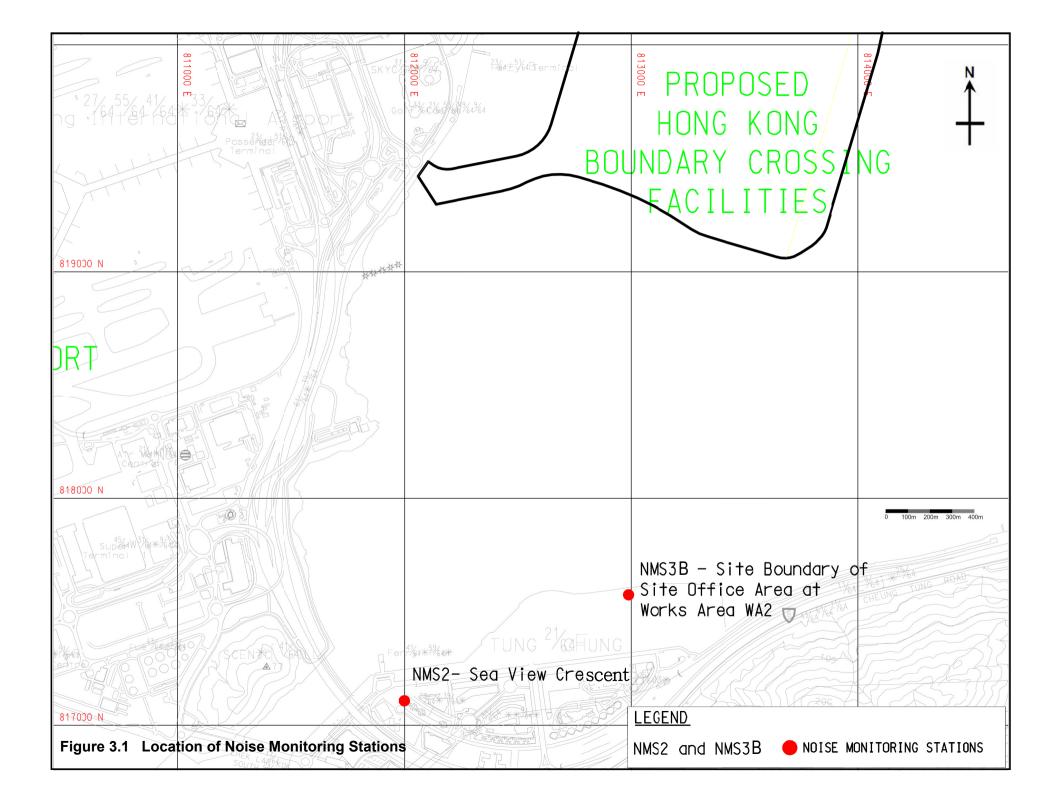
6.1 Conclusions

- 6.1.1 The site preparation work of the Contract started on 26 September 2014 and the construction works of the Contract commenced on 6 October 2014. The twenty-second Monthly EM&A Report summarizes findings of the EM&A works during the reporting period from 1 to 31 July 2016.
- 6.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 6.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 6.1.4 There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 6.1.5 Environmental site inspections were carried out on 6, 13, 20 and 27 July 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 6.1.6 There were no complaints received in relation to the environmental impact during the reporting period.
- 6.1.7 No notification of summons and successful prosecution was received during the reporting period.



FIGURES

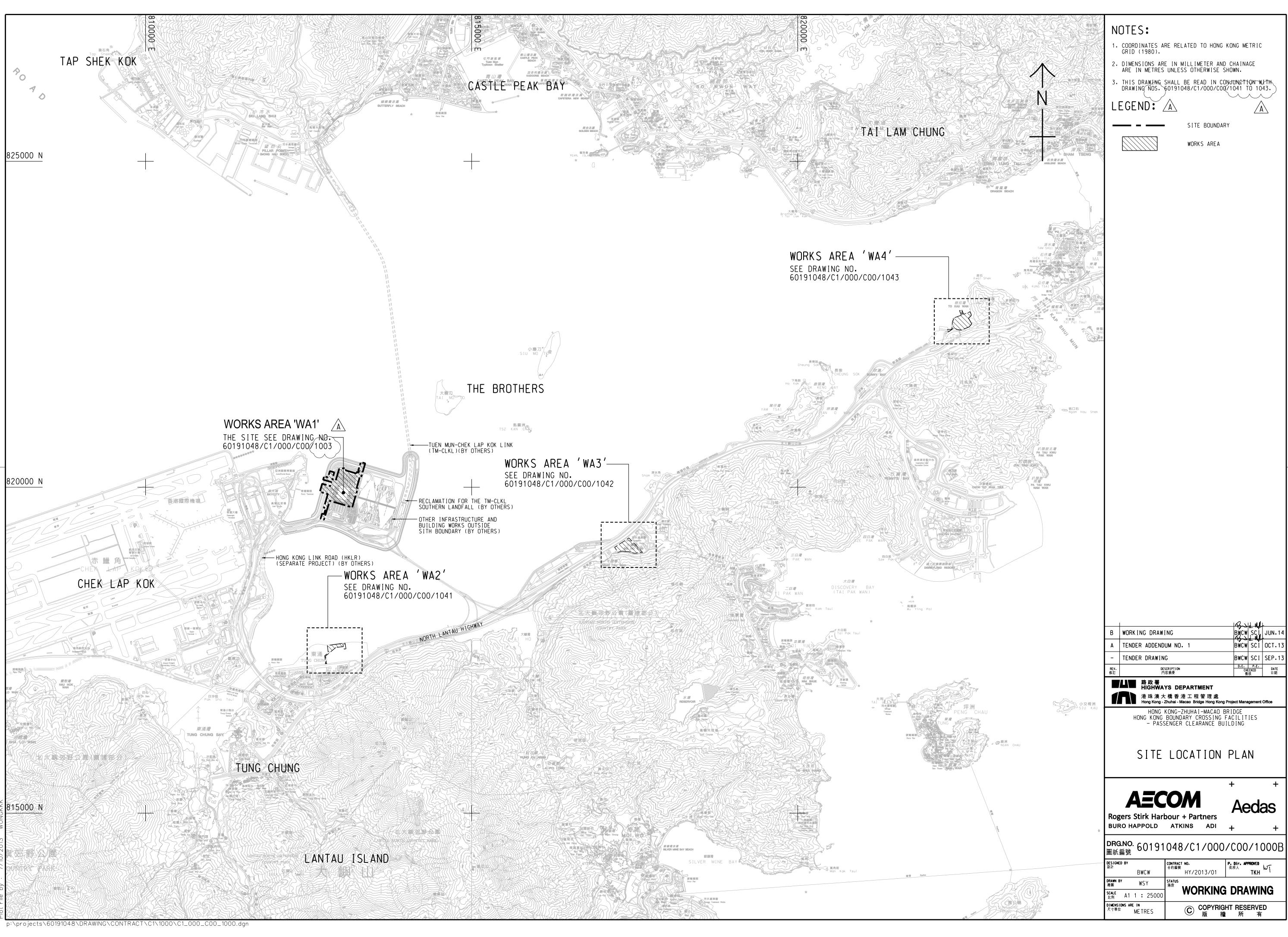


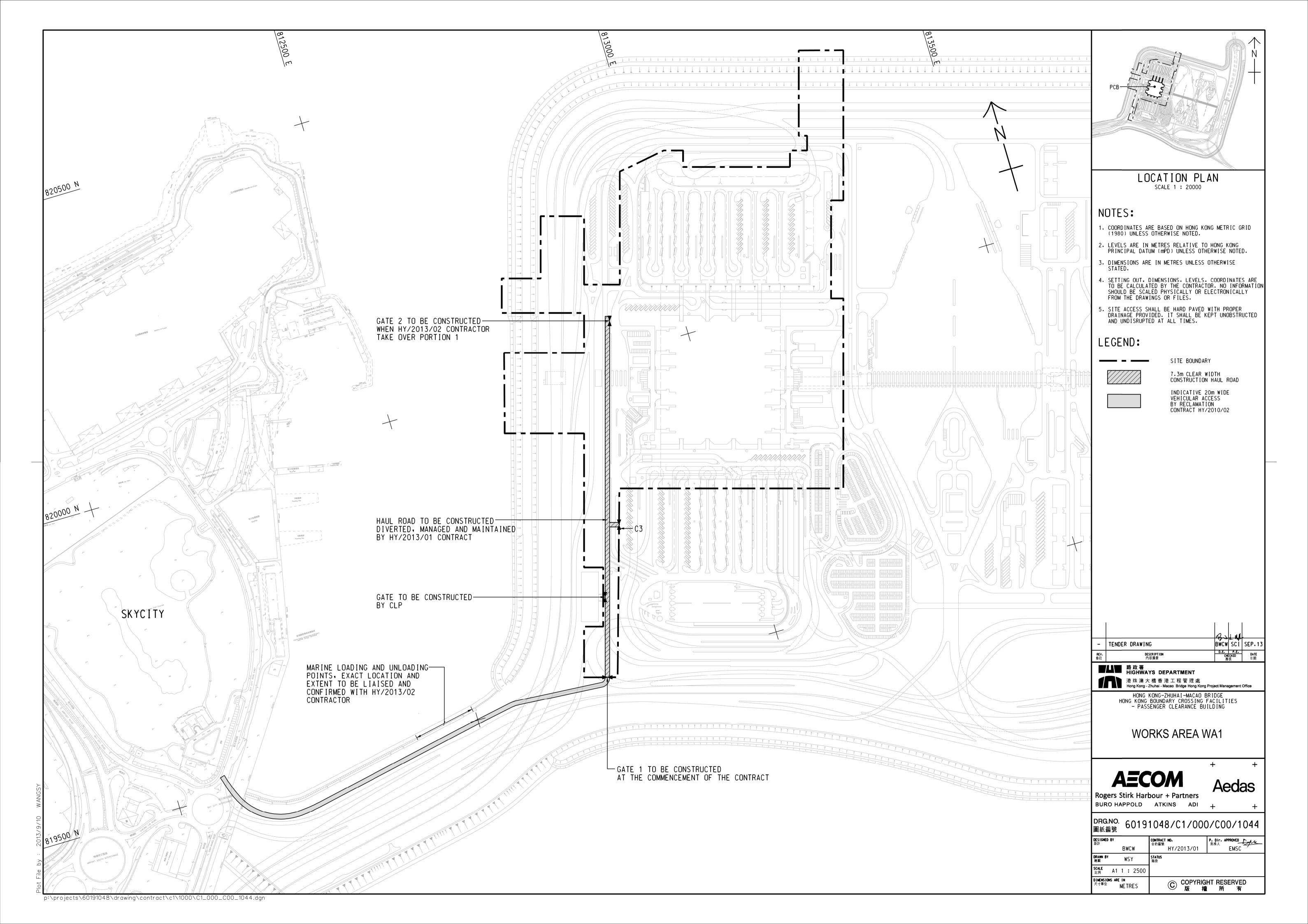


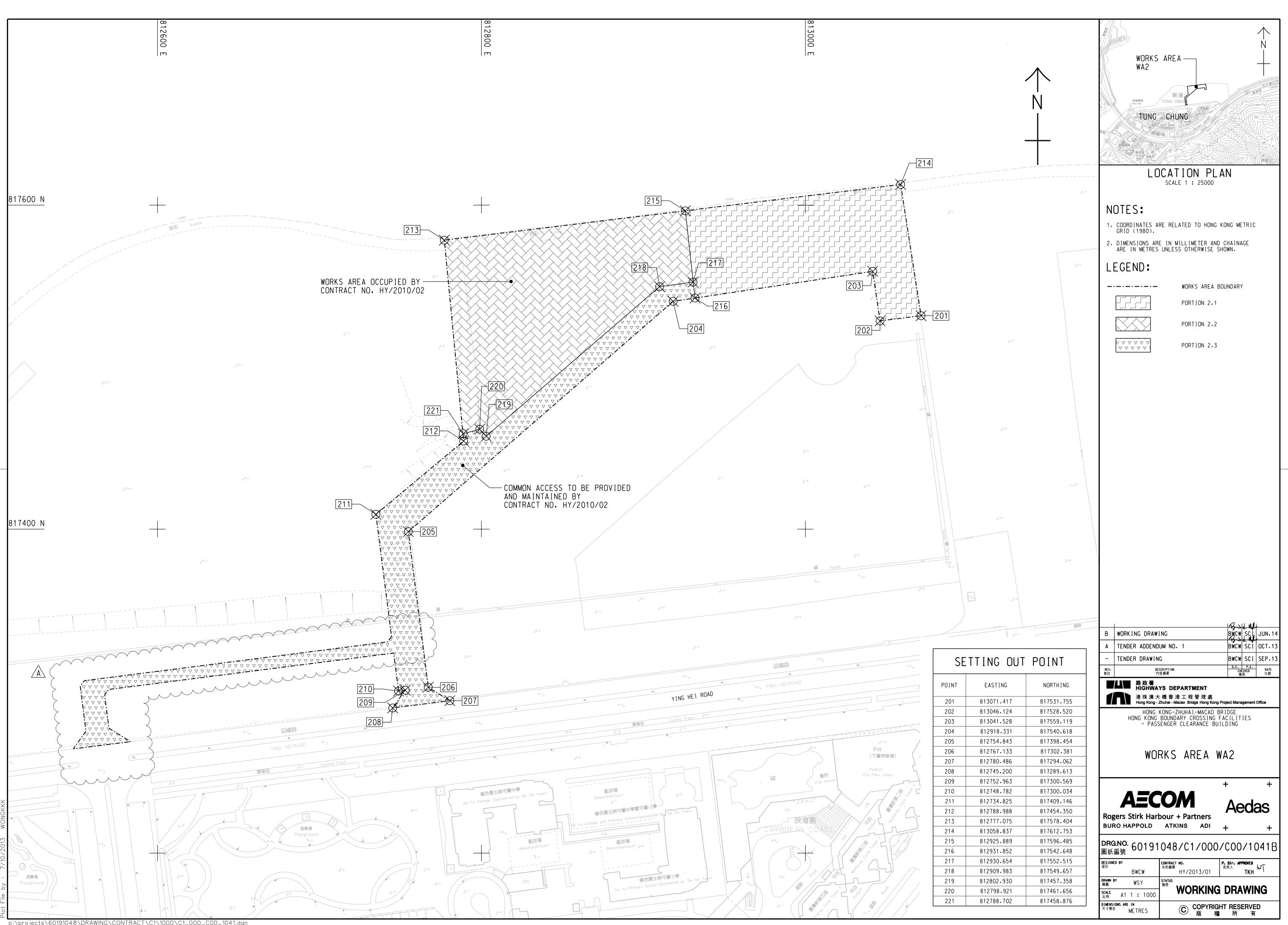




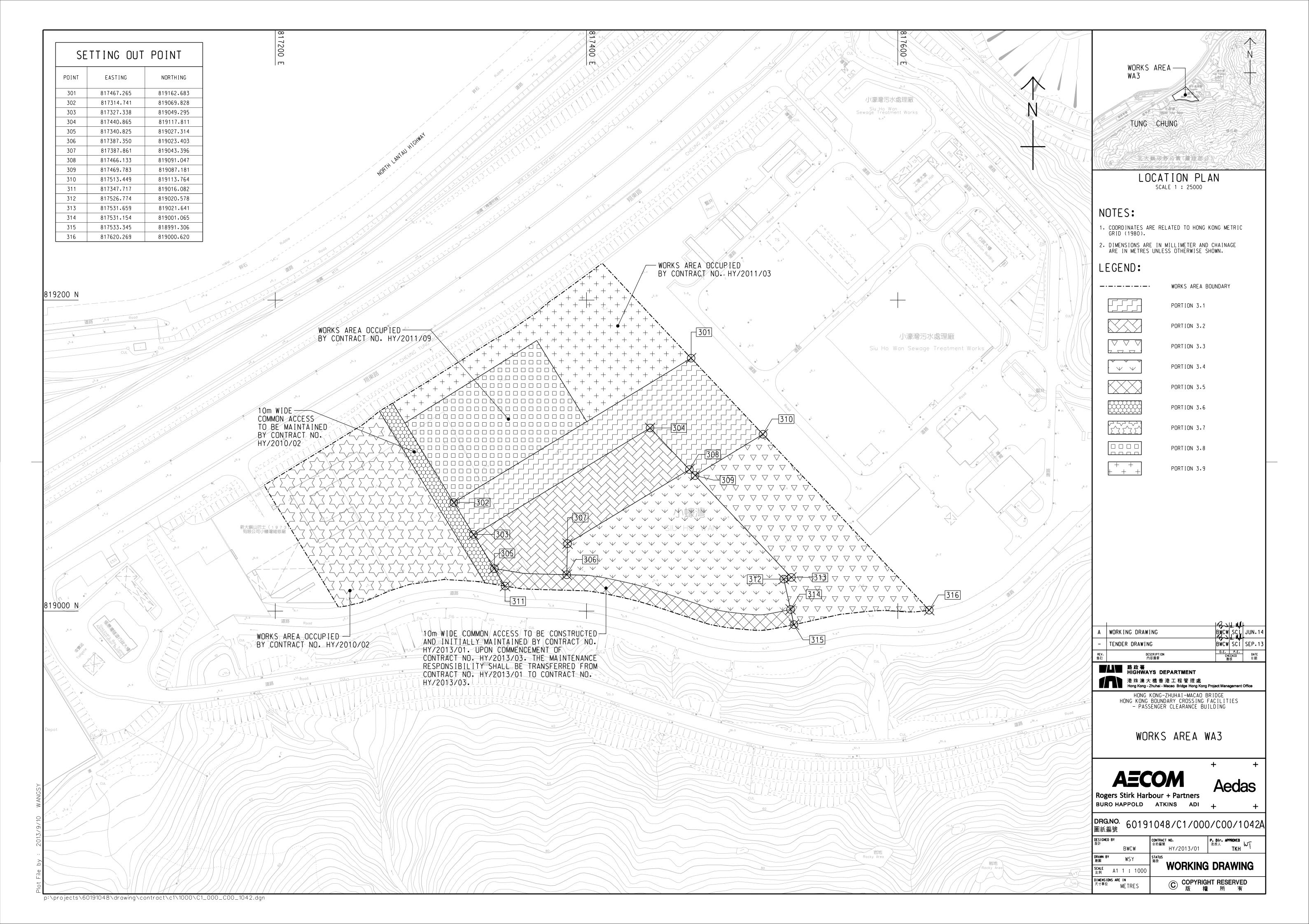
Location of Works Areas

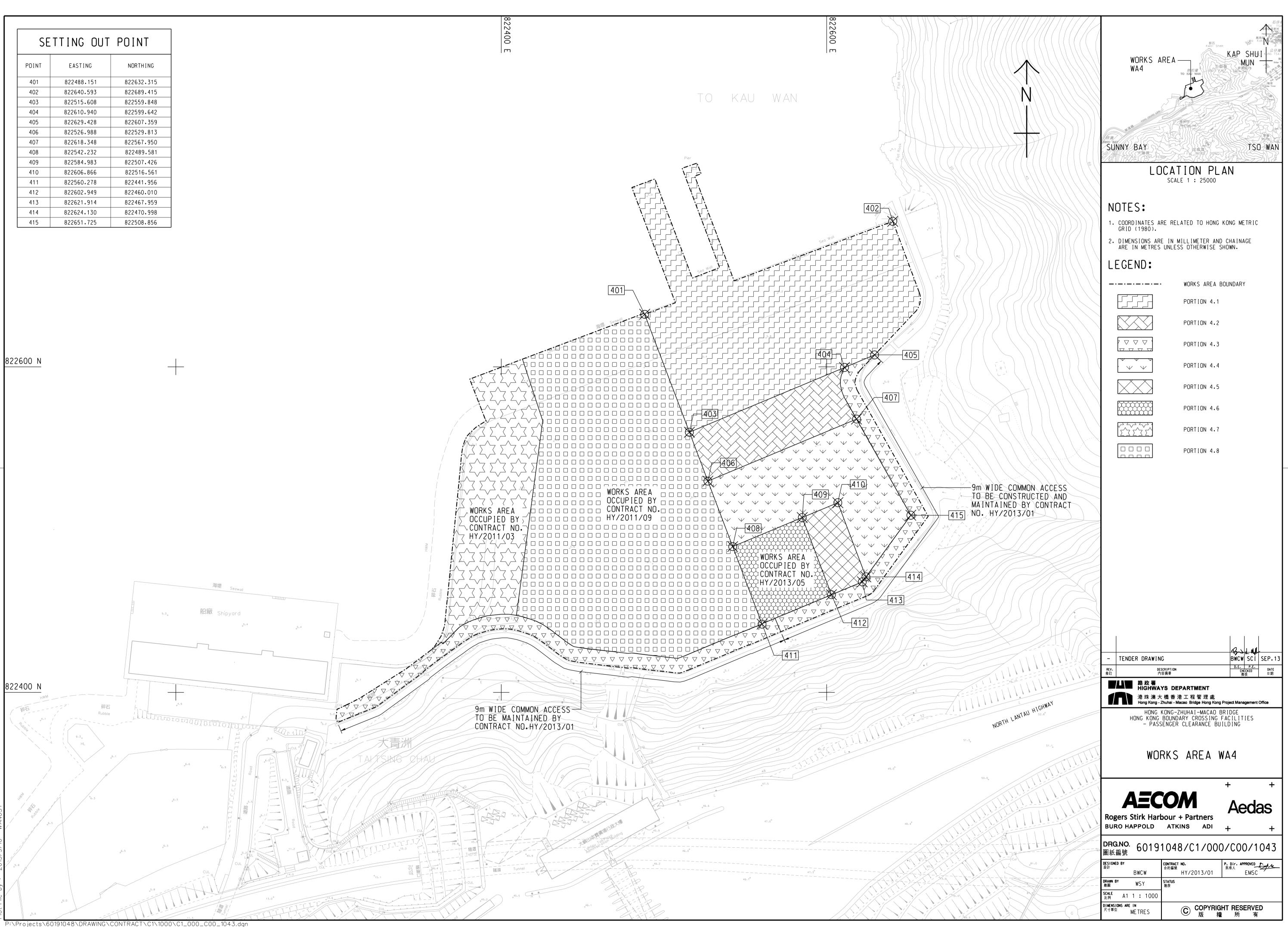






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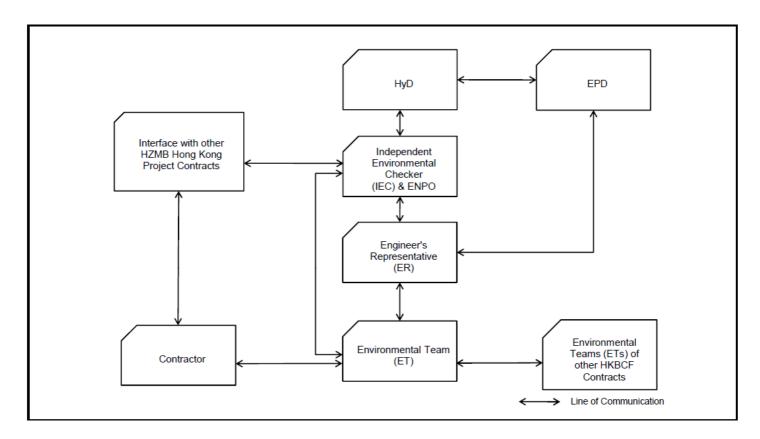
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APPENDIX B

Project Organization for Environmental Works







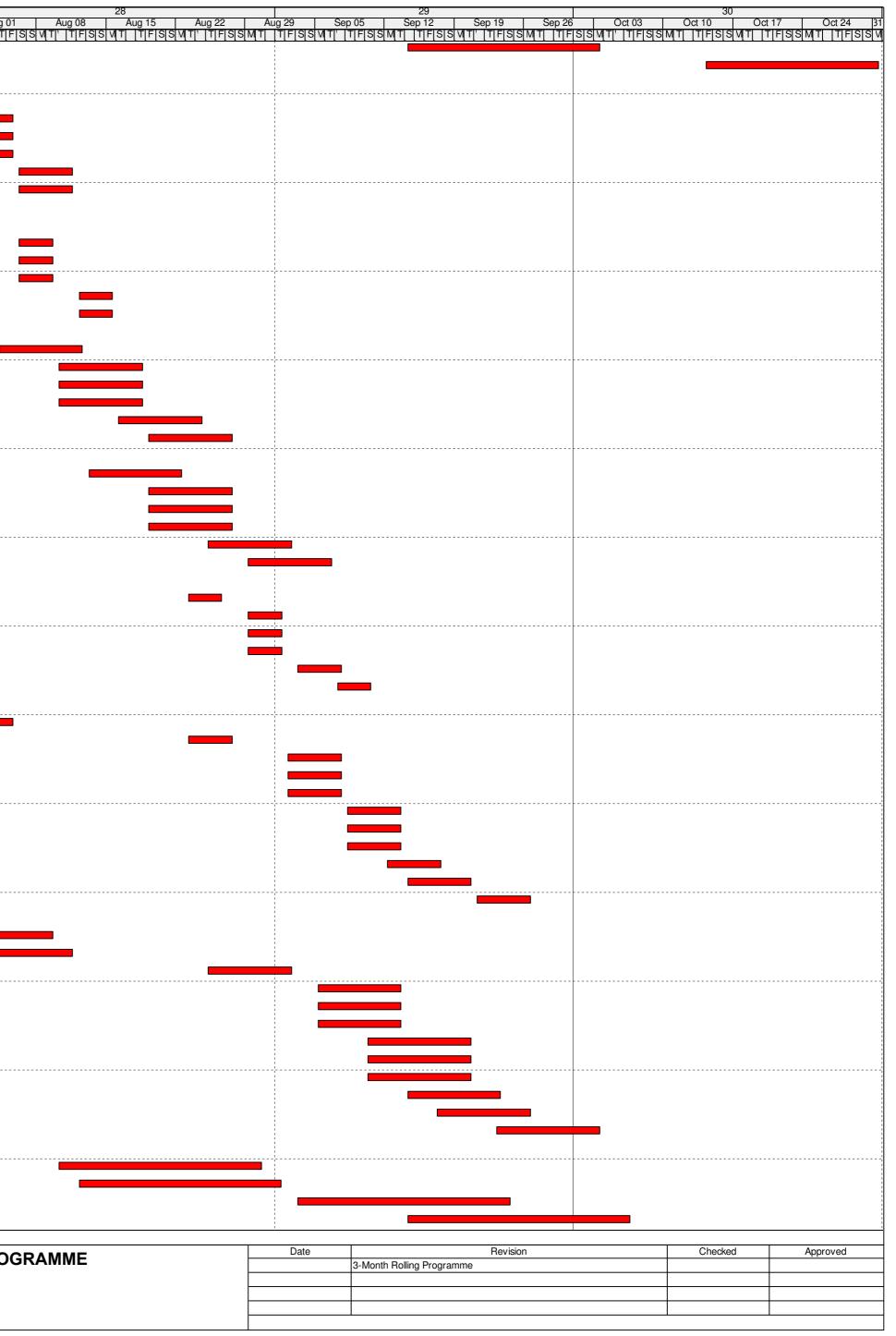


Construction Programme

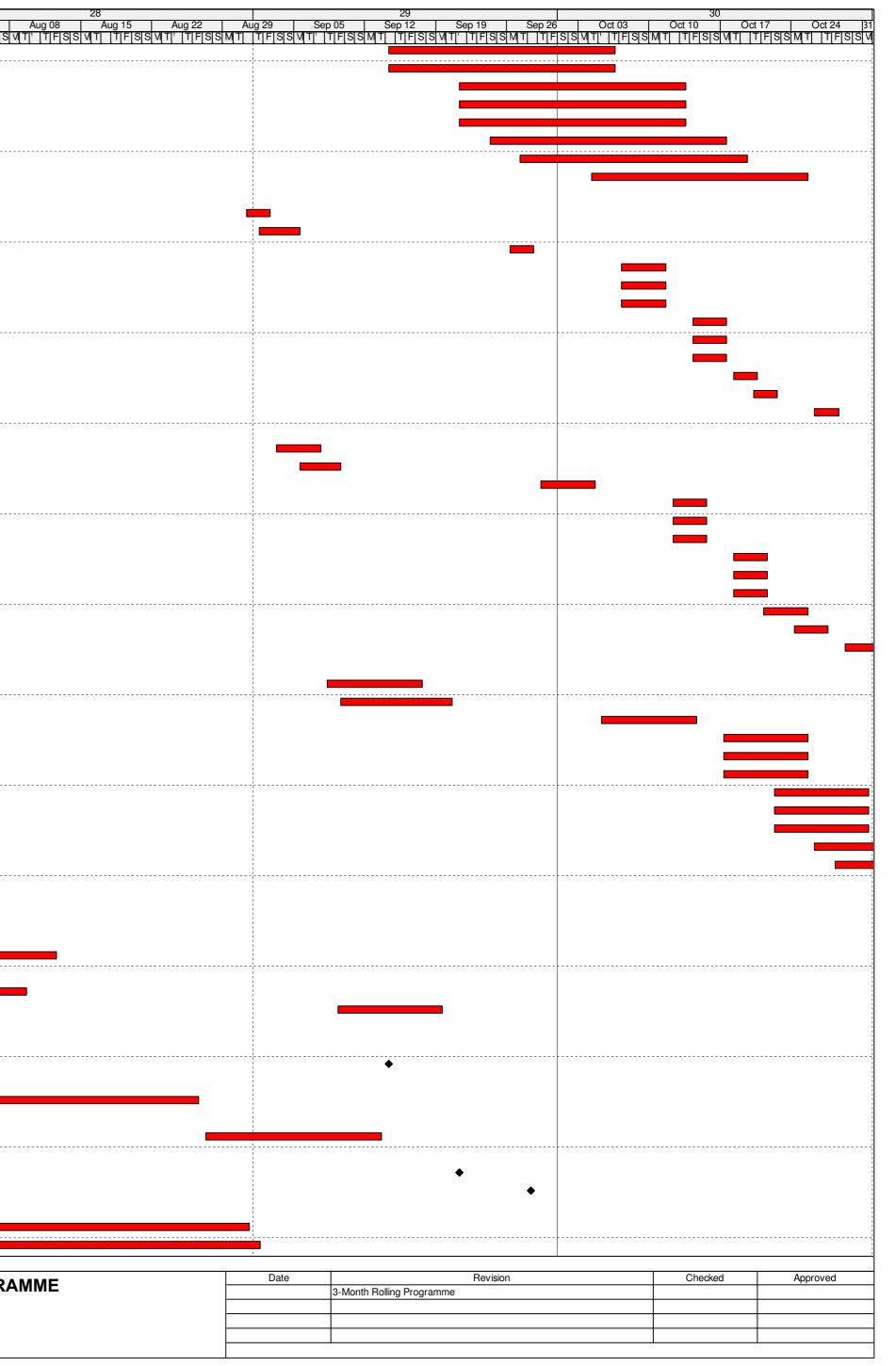
r ID	Activity Name	Original Duration	Start	Finish	27 27 Jul 04 Jul 11 Jul 18 Jul 25	
V/2012/01	HKZMB HKBCF - PCB - 3MRP - June 2016 (Onworde)		<u>FISISINITI TIFISISINITI TIFISISINITI TIFISISINITI' TIFI</u>	
		JUI IO	onwarus)			
ONSTRU						
	er Clearance Building					
	IND TIE Beam Construction e Beams & Pile Caps					
Zone C3						
BF14 Stage 2						
PCB-02-2331 Zone W3	PCB - Backfilling to Ground Level at Basement Ext Walls BS14 (Rqd for BS28)	3	22-Jul-16 A	02-Aug-16		
BS19						
PCB-02-2330	PCB - Backfilling to Ground Level at Basement Ext Walls BS19	3	22-Jul-16 A	02-Aug-16		
BF21 PCB-02-2320	0 PCB - Backfilling to Ground Level at Basement Ext Walls BS21	3	01-Aug-16	03-Aug-16		
Zone E3						
BS24						
PCB-02-2317 Tower Cran		3	01-Aug-16	03-Aug-16		
	No.2 - NORTH MIDDLE					
PCB-02-22160	PCB(A1) - Construct Tower Crane Footings TC2	8	01-Aug-16*	09-Aug-16		
PCB-02-22170		6	10-Aug-16	16-Aug-16		
Superstruc	r Foundations South					
Pile Capping						
A2510	Pile Caps and Tie Beams to GF18 - North West Corner (Extended Working $H_{\mbox{\tiny H}}$	10	17-Jun-16 A	04-Aug-16		
A2690 A2520	Pile Caps and Tie Beams to GF19b (Extended Working Hours) Middle North Pile Caps and Tie Beams to GF20b - South West Corner (Extended Working I	10 10	24-Jun-16 A 01-Aug-16	04-Aug-16 11-Aug-16		
A2480	Pile Caps and Tie Beams to GF20a (Extended Working Hours) Middle South	10	01-Aug-16	11-Aug-16		
Water Proofi	•	, , ,				
A2650 A2610	Waterproofing Pile Caps and Tie Beams to GF20b - South West Corner Waterproofing Pile Caps and Tie Beams to GF20a Middle South	4	12-Aug-16 12-Aug-16	16-Aug-16 16-Aug-16		
	To Top Level of Ground Beams (+5.0mPD Generally)	4	12-Aug-10	10-Aug-10		
A2700	Backfilling to Tie Beams to GF18 - North West Corner	4	01-Aug-16	04-Aug-16		
A2760 A2710	Backfilling to Tie Beams to GF19b Middle North Backfilling to Tie Beams to GF20b - South West Corner	4	01-Aug-16 17-Aug-16	04-Aug-16 20-Aug-16		
A2670	Backfilling to Tie Beams to GF20a Middle South	4	17-Aug-16	20-Aug-16		
	bs (+5.450mPD)	J J				
A2770 A2820	Construct Ground Floor Base Slab GS18 - North West Corner Construct Ground Floor Base Slab GS19b Middle North	12 15	05-Aug-16 05-Aug-16	18-Aug-16* 22-Aug-16		
A2780	Construct Ground Floor Base Slab GS15b Middle North	13	22-Aug-16	06-Sep-16*		
A2750	Construct Ground Floor Base Slab GS20a Middle South	15	22-Aug-16	07-Sep-16		
	r Slabs (+5.450mPD)					
SOUTH - Gri PCB-AB-A002		0	01-Aug-16			
MIDDLE - Gr	ridline G-E		-			
-	Stabs (+5.450mPD) Construct Ground Floor Suspended Stab Pour GS06 - 186m ³	22	27-Jun-16 A	02-10-10		
	p Suspended Slabs	23	∠ <i>i</i> -juli-16 A	03-Aug-16		
PCB-02-2147	Cure & Strip Ground Floor Suspended Slab Pour GS08a	15	01-Aug-16	17-Aug-16		
PCB-02-3558		15	01-Aug-16	17-Aug-16		
PCB-02-2145	· ·	15	04-Aug-16	20-Aug-16		
PCB-AB-A005		0	05-Sep-16			
-	ilabs (+5.450mPD)		40 1 1 1 2 1			
PCB-02-3551 PCB-02-2168	 Construct Ground Floor Suspended Slab Pour GS17b Construct Ground Floor Suspended Slab Pour GS14 - 146m³ 	23 23	18-Jul-16 A 22-Jul-16 A	15-Aug-16 17-Aug-16		
PCB-02-2166		23	18-Aug-16*	13-Sep-16		
PCB-02-3550		23	14-Sep-16*	13-Oct-16		
	p Suspended Slabs	15	07 Jul 46 A	05 Aux 10		
PCB-02-2172 PCB-02-2173		15 15	27-Jul-16 A 01-Aug-16	05-Aug-16 17-Aug-16		
PCB-02-3552		15	16-Aug-16	01-Sep-16		
PCB-02-2347	70 Cure & Strip Ground Floor Suspended Slab Pour GS14	15	18-Aug-16	03-Sep-16		
- Actual Work					3 MONTH ROLLIN	NG PR

						05-Aug-16 16:01
28 Aug 08 Aug 15 Aug 22 V[T]' T F S S V[T] T F S S V[T]' T F S S	Aug 29 Se MITLITIEISISIMITI'	29 29 05 Sep 12	Sep 19	Sep 26	30 Oct 10 Oct AIT ITIESISMET IT	17 Oct 24 31
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AMME	Date	3-Month Rolling Pro	Revision		Checked	Approved

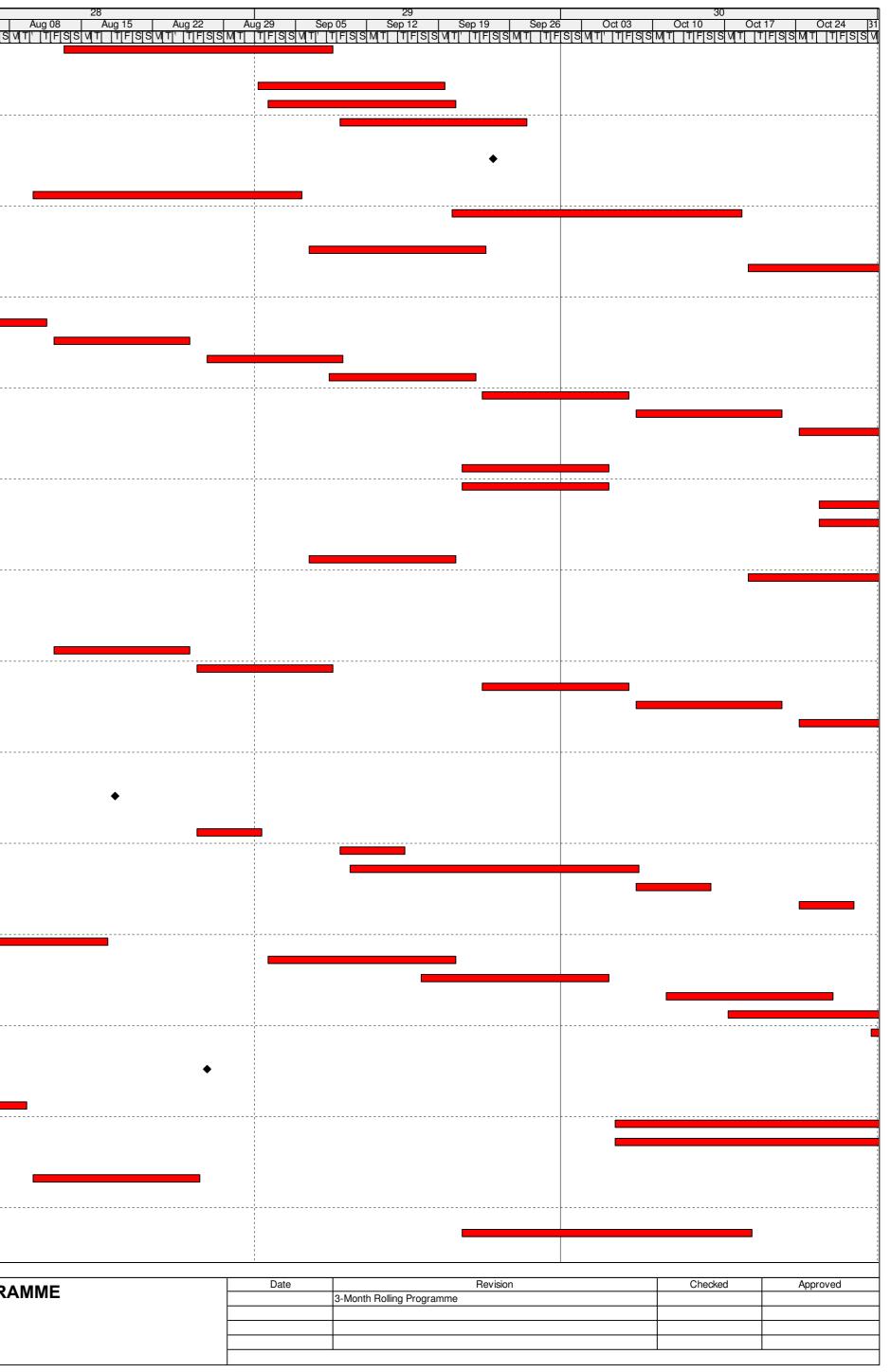
	Activity Name	Original Duration	Start	Finish	27 ?7 Jul 04 Jul 11 Jul 18 Jul 25 Aug FISISIVITI_TIFISISIVITI_TIFISISIVITI_TIFISISIVITI_TIFISISIVITI_T
	Cure & Strip Ground Floor Suspended Slab Pour GS16a	15	14-Sep-16	03-Oct-16	_
	Cure & Strip Ground Floor Suspended Slab Pour GS16b	15	14-Oct-16	31-Oct-16	
	Service Troughs				
	PCB - Excavation for Service Trench BS28	5	01-Aug-16	05-Aug-16	
PCB-02-24990	PCB - Excavation for Service Trench BS29a	5	01-Aug-16	05-Aug-16	
PCB-02-35630	PCB - Excavation for Service Trench BS31b	5	01-Aug-16	05-Aug-16	
	PCB - Excavation for Service Trench BS30	5	06-Aug-16	11-Aug-16	
	PCB - Excavation for Service Trench BS29b	5	06-Aug-16	11-Aug-16	
	Trench Base slab PCB - Waterproofing Trench Base Slab B31a	3	01-Aug-16	03-Aug-16	
	PCB - Waterproofing Trench Base Slab B28	3	06-Aug-16	09-Aug-16	-
	PCB - Waterproofing Trench Base Slab B29a	3	06-Aug-16	09-Aug-16	-
PCB-02-35650	PCB - Waterproofing Trench Base Slab B31b	3	06-Aug-16	09-Aug-16	
PCB-02-25040	PCB - Waterproofing Trench Base Slab B30	3	12-Aug-16	15-Aug-16	
PCB-02-35640	PCB - Waterproofing Trench Base Slab B29b	3	12-Aug-16	15-Aug-16	
Service Trough					
	PCB - Service Trough Base Slab - 134m ³ Pour BS31a	8	04-Aug-16	12-Aug-16	
	PCB - Service Trough Base Slab - 134m ³ Pour BS28 PCB - Service Trough Base Slab - 134m ³ Pour BS29a	8	10-Aug-16 10-Aug-16	18-Aug-16 18-Aug-16	-
	PCB - Service Trough Base Slab - 134m ³ Pour BS29a PCB - Service Trough Base Slab - 134m ³ Pour BS31b	8	10-Aug-16	18-Aug-16 18-Aug-16	-
	PCB - Service Trough Base Slab - 134m ² Pour BS29b	8	16-Aug-16	24-Aug-16	-
	PCB - Service Trough Base Slab - 134m ³ Pour BS30	8	19-Aug-16	27-Aug-16	-
Service Trough	Walls				
PCB-02-22950	PCB - Basement Ext Walls to BS31a	8	13-Aug-16	22-Aug-16	
	PCB - Basement Ext Walls to BS28	8	19-Aug-16	27-Aug-16	
	PCB - Basement Ext Walls to BS29a	8	19-Aug-16	27-Aug-16	
	PCB - Basement Ext Walls to BS31b	8	19-Aug-16	27-Aug-16	
	PCB - Basement Ext Walls to BS29b PCB - Basement Ext Walls to BS30	8	25-Aug-16 29-Aug-16	02-Sep-16 06-Sep-16	_
	ind Service Trough Walls	Ŭ	20 / ldg 10		
	PCB - Backfilling to Ground Level at Basement Ext Walls BS31a	4	23-Aug-16	26-Aug-16	
PCB-02-23210	PCB - Backfilling to Ground Level at Basement Ext Walls BS29a	4	29-Aug-16	01-Sep-16	-
PCB-02-23290	PCB - Backfilling to Ground Level at Basement Ext Walls BS28	4	29-Aug-16	01-Sep-16	
	PCB - Backfilling to Ground Level at Basement Ext Walls BS31b	4	29-Aug-16	01-Sep-16	
	PCB - Backfilling to Ground Level at Basement Ext Walls BS29b	4	03-Sep-16	07-Sep-16	_
	PCB - Backfilling to Ground Level at Basement Ext Walls BS30	4	07-Sep-16	10-Sep-16	
	PCB - Excavate Pile caps and Beams GF16c	5	01-Aug-16	05-Aug-16	
	PCB - Excavate Pile caps and Beams GF27	5	23-Aug-16	27-Aug-16	-
	PCB - Excavate Pile caps and Beams GF24c	5	02-Sep-16	07-Sep-16	
PCB-02-34830	PCB - Excavate Pile caps and Beams GF25a	5	02-Sep-16	07-Sep-16	
	PCB - Excavate Pile caps and Beams GF26a	5	02-Sep-16	07-Sep-16	
	PCB - Excavate Pile caps and Beams GF24a	5	08-Sep-16	13-Sep-16	
	PCB - Excavate Pile caps and Beams GF24d	5	08-Sep-16	13-Sep-16	-
	PCB - Excavate Pile caps and Beams GF24e (for TC2) PCB - Excavate Pile caps and Beams GF26b	5	08-Sep-16 12-Sep-16	13-Sep-16 17-Sep-16	
	PCB - Excavate Pile caps and Beams GF25b	5	12-Sep-16	20-Sep-16	-
	PCB - Excavate Pile caps and Beams GF24b	5	21-Sep-16	26-Sep-16	
Pile Cropping				· ·	
	PCB - Pile Cropping to GF17c	8	01-Aug-16	09-Aug-16	7
	PCB - Pile Cropping to GF16c	8	03-Aug-16	11-Aug-16	
	PCB - Pile Cropping to GF27	8	25-Aug-16	02-Sep-16	
	PCB - Pile Cropping to GF24c	8	05-Sep-16	13-Sep-16	_
	PCB - Pile Cropping to GF25a PCB - Pile Cropping to GF26a	8	05-Sep-16 05-Sep-16	13-Sep-16 13-Sep-16	-
	PCB - Pile Cropping to GF26a	8	10-Sep-16	20-Sep-16	-
	PCB - Pile Cropping to GF24d	8	10-Sep-16	20-Sep-16	-
	PCB - Pile Cropping to GF24e (TC2)	8	10-Sep-16	20-Sep-16	
PCB-02-34990	PCB - Pile Cropping to GF26b	8	14-Sep-16	23-Sep-16]
	PCB - Pile Cropping to GF25b	8	17-Sep-16	26-Sep-16	
	PCB - Pile Cropping to GF24b	8	23-Sep-16	03-Oct-16	
Pile Capping	DOD Dile Case and To Descrete OF 17	10	10 4 10*	00 4	
	PCB - Pile Caps and Tie Beams to GF17c PCB - Pile Caps and Tie Beams to GF16c	18	10-Aug-16*	30-Aug-16	-
	PCB - Pile Caps and Tie Beams to GF16c PCB - Pile Caps and Tie Beams to GF27	18	12-Aug-16* 03-Sep-16*	01-Sep-16 24-Sep-16	-
	PCB - Pile Caps and Tie Beams to GF24c	18	14-Sep-16*	06-Oct-16	-
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- Actual Work				I	3 MOHTH ROLLING PRO



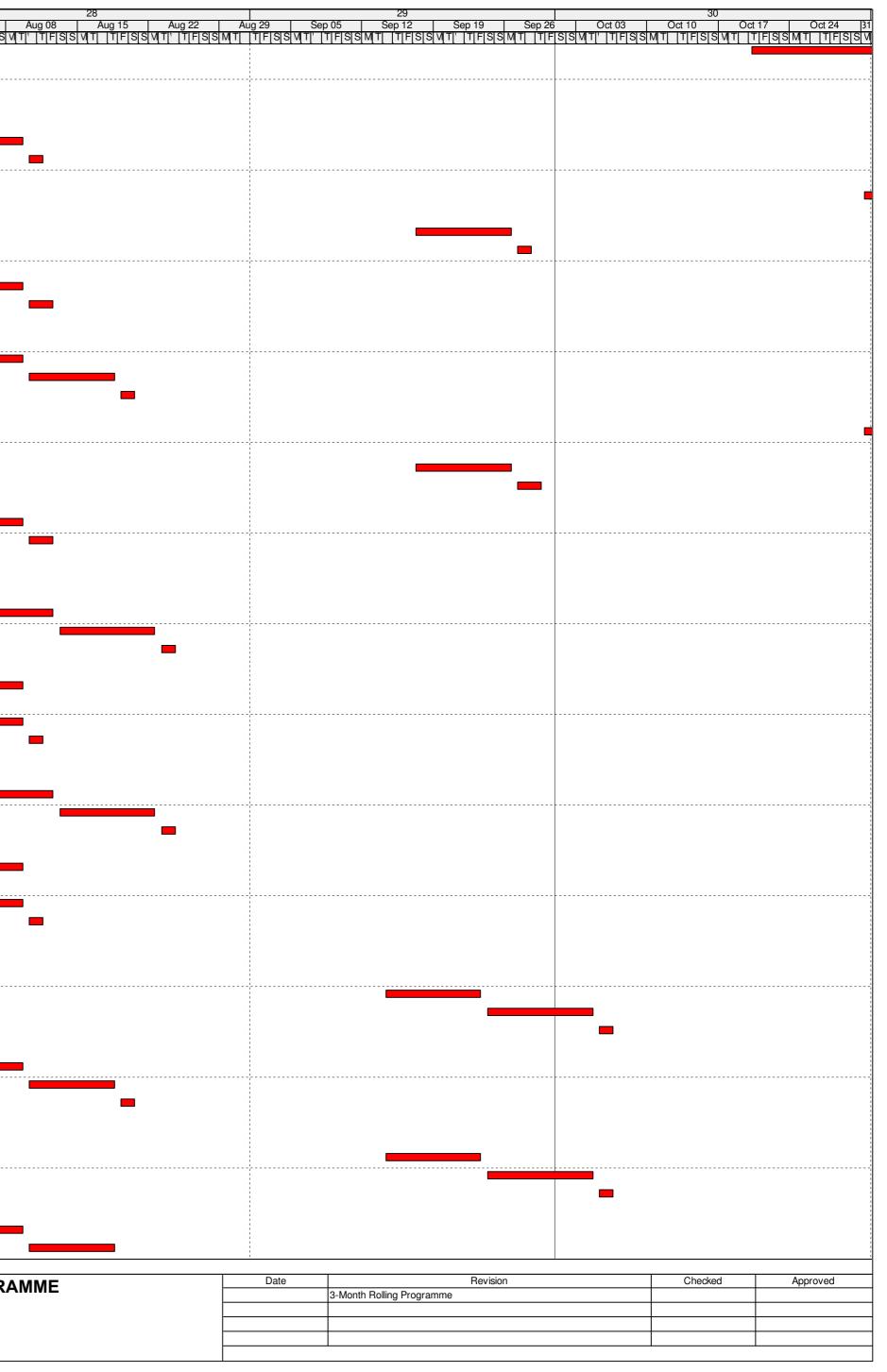
y ID					
	Activity Name	Original Duration	Start	Finish	27 27 Jul 04 Jul 11 Jul 18 Jul 25 Aug 01
PCB-02-35070	PCB - Pile Caps and Tie Beams to GF25a	18	14-Sep-16*	06-Oct-16	<u> </u>
PCB-02-35100	PCB - Pile Caps and Tie Beams to GF26a	18	14-Sep-16*	06-Oct-16	
PCB-02-35030	PCB - Pile Caps and Tie Beams to GF24a	18	21-Sep-16*	13-Oct-16	
PCB-02-35050	PCB - Pile Caps and Tie Beams to GF24d	18	21-Sep-16*	13-Oct-16	
PCB-02-35060	PCB - Pile Caps and Tie Beams to GF24e (TC2)	18	21-Sep-16	13-Oct-16	
PCB-02-35110	PCB - Pile Caps and Tie Beams to GF26b	18	24-Sep-16*	17-Oct-16	
PCB-02-35080	PCB - Pile Caps and Tie Beams to GF25b	18	27-Sep-16*	19-Oct-16	······
PCB-02-35040	PCB - Pile Caps and Tie Beams to GF24b	18	04-Oct-16*	25-Oct-16	
laterproofing					
PCB-02-35250	PCB - Waterproofing Pile Caps and Tie Beams to GF17c	3	31-Aug-16	02-Sep-16	
PCB-02-35240	PCB - Waterproofing Pile Caps and Tie Beams to GF16c	3	01-Sep-16	05-Sep-16	
PCB-02-35210	PCB - Waterproofing Pile Caps and Tie Beams to GF27	3	26-Sep-16	28-Sep-16	
PCB-02-35140	PCB - Waterproofing Pile Caps and Tie Beams to GF24c	3	07-Oct-16	11-Oct-16	
PCB-02-35190	PCB - Waterproofing Pile Caps and Tie Beams to GF25a	3	07-Oct-16	11-Oct-16	
PCB-02-35220	PCB - Waterproofing Pile Caps and Tie Beams to GF26a	3	07-Oct-16	11-Oct-16	
PCB-02-35150	PCB - Waterproofing Pile Caps and Tie Beams to GF24a	3	14-Oct-16	17-Oct-16	
PCB-02-35170	PCB - Waterproofing Pile Caps and Tie Beams to GF24d	3	14-Oct-16	17-Oct-16	
PCB-02-35800	PCB - Waterproofing Pile Caps and Tie Beams to GF24e (TC2)	3	14-Oct-16	17-Oct-16	
PCB-02-35230	PCB - Waterproofing Pile Caps and Tie Beams to GF26b	3	18-Oct-16	20-Oct-16	
PCB-02-35200	PCB - Waterproofing Pile Caps and Tie Beams to GF25b	3	20-Oct-16	22-Oct-16	
PCB-02-35160	PCB - Waterproofing Pile Caps and Tie Beams to GF24b	3	26-Oct-16	28-Oct-16	
	Top Level of Ground Beams (+5.0mPD Generally)				
PCB-02-35370	PCB - Backfilling to Pile Caps and Tie Beams to GF17c	4	03-Sep-16	07-Sep-16	
PCB-02-35360	PCB - Backfilling to Pile Caps and Tie Beams to GF16c	4	05-Sep-16	09-Sep-16	
PCB-02-35330	PCB - Backfilling to Pile Caps and Tie Beams to GF27	4	29-Sep-16	04-Oct-16	
PCB-02-35260	PCB - Backfilling to Pile Caps and Tie Beams to GF24c	4	12-Oct-16	15-Oct-16	
PCB-02-35310	PCB - Backfilling to Pile Caps and Tie Beams to GF25a	4	12-Oct-16	15-Oct-16	
PCB-02-35340	PCB - Backfilling to Pile Caps and Tie Beams to GF26a	4	12-Oct-16	15-Oct-16	
PCB-02-35270	PCB - Backfilling to Pile Caps and Tie Beams to GF24a	4	18-Oct-16	21-Oct-16	
PCB-02-35290	PCB - Backfilling to Pile Caps and Tie Beams to GF24d	4	18-Oct-16	21-Oct-16	
PCB-02-35810	PCB - Backfilling to Pile Caps and Tie Beams to GF24e (TC2)	4	18-Oct-16	21-Oct-16	
PCB-02-35350	PCB - Backfilling to Pile Caps and Tie Beams to GF26b	4	21-Oct-16	25-Oct-16	
PCB-02-35320 PCB-02-35280	PCB - Backfilling to Pile Caps and Tie Beams to GF25b	4	24-Oct-16	27-Oct-16	
	PCB - Backfilling to Pile Caps and Tie Beams to GF24b	4	29-Oct-16	02-Nov-16	
Ground Slabs PCB-02-35490	(+5.45000 PD) PCB - Construct Ground Floor Base Slab Pour GS17c	8	08-Sep-16	17-Sep-16	
PCB-02-35490	PCB - Construct Ground Floor Base Slab Pour GS17c	8	09-Sep-16	20-Sep-16	
PCB-02-35450	PCB - Construct Ground Floor Base Slab Pour GS70 PCB - Construct Ground Floor Base Slab Pour GS27	8	05-Oct-16	14-Oct-16	
CB-02-353450 CB-02-35380	PCB - Construct Ground Floor Base Slab Pour GS27	8	17-Oct-16	25-Oct-16	
CB-02-35330 CB-02-35430	PCB - Construct Ground Floor Base Slab Pour GS24c	8	17-Oct-16	25-Oct-16	
°CB-02-35460	PCB - Construct Ground Floor Base Slab Pour GS26a	8	17-Oct-16	25-Oct-16	
PCB-02-35390	PCB - Construct Ground Floor Base Slab Pour GS24a	8	22-Oct-16	31-Oct-16	
PCB-02-35410	PCB - Construct Ground Floor Base Slab Pour GS24d	8	22-Oct-16	31-Oct-16	
PCB-02-35820	PCB - Construct Ground Floor Base Slab Pour GS24e (TC2)	8	22-Oct-16	31-Oct-16	
PCB-02-35470	PCB - Construct Ground Floor Base Slab Pour GS26b	8	26-Oct-16	03-Nov-16	
PCB-02-35440	PCB - Construct Ground Floor Base Slab Pour GS25b	8	28-Oct-16	05-Nov-16	
	zzanine Slab (+10.250mPD)				
MIDDLE - Grid					
	Construct Columns to Mezz Floor MS08	8	11-Jul-16 A	04-Aug-16	
PCB-02-20790	Construct Columns to Mezz Floor MS07	8	18-Jul-16 A	05-Aug-16	
PCB-02-20770	Construct Columns to Mezz Floor MS02	8	04-Aug-16	12-Aug-16	
NORTH - Gridli			-		
	Construct Columns to Mezz Floor Pour MS06	8	01-Aug-16	09-Aug-16	
PCB-02-20750		8	09-Sep-16	19-Sep-16	
PCB-02-20750 PCB-02-20740	Construct Columns to Mezz Floor Pour MS03				
PCB-02-20740	Construct Columns to Mezz Floor Pour MS03 or Slabs (+10.250mPD)	Ū			
PCB-02-20740 /lezzanine Floo	or Slabs (+10.250mPD)	0			
PCB-02-20740 lezzanine Floo SOUTH - Gridli	or Slabs (+10.250mPD)	0	14-Sep-16		
PCB-02-20740 Aezzanine Floo SOUTH - Gridli	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH		14-Sep-16		
PCB-02-20740 Aezzanine Floo SOUTH - Gridl PCB-AB-A0080 Suspended Slab	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH		14-Sep-16 01-Aug-16	26-Aug-16	
PCB-02-20740 Mezzanine Floo SOUTH - Gridli PCB-AB-A0080 Suspended Slab	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH	0		26-Aug-16	
PCB-02-20740 Mezzanine Floo SOUTH - Gridil PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH	0		26-Aug-16 13-Sep-16	
PCB-02-20740 Aezzanine Floo SOUTH - Gridli PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01	0	01-Aug-16	-	
PCB-02-20740 Mezzanine Floo SOUTH - Gridli PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01	0	01-Aug-16	-	
PCB-02-20740 Mezzanine Floo SOUTH - Gridi PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120 MIDDLE - Grid	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01 Iline G-E	0 23 15	01-Aug-16 27-Aug-16	-	
PCB-02-20740 Mezzanine Floo SOUTH - Gridli PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120 MIDDLE - Grid PCB-AB-A0100	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01 Iline G-E Earliest Commencement of ABWF/MEP in Cabin 7&8 Ground Floor MIDDLE Earliest Commencement of ABWF/MEP in Cabin 2 Ground Floor MIDDLE	0 23 15 0	01-Aug-16 27-Aug-16 21-Sep-16	-	
PCB-02-20740 Mezzanine Floor SOUTH - Gridli PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120 MIDDLE - Grid PCB-AB-A0100 PCB-AB-A0110 Suspended Slab	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01 Iline G-E Earliest Commencement of ABWF/MEP in Cabin 7&8 Ground Floor MIDDLE Earliest Commencement of ABWF/MEP in Cabin 2 Ground Floor MIDDLE	0 23 15 0	01-Aug-16 27-Aug-16 21-Sep-16	-	
PCB-02-20740 Aezzanine Floo SOUTH - Gridli PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120 MIDDLE - Grid PCB-AB-A0100 PCB-AB-A0110 Suspended Slab	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01 Iline G-E Earliest Commencement of ABWF/MEP in Cabin 7&8 Ground Floor MIDDLE Earliest Commencement of ABWF/MEP in Cabin 2 Ground Floor MIDDLE Sos	0 23 15 0 0	01-Aug-16 27-Aug-16 21-Sep-16 28-Sep-16	13-Sep-16	
PCB-02-20740 Aezzanine Floo SOUTH - Gridli PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120 MIDDLE - Grid PCB-AB-A0100 PCB-AB-A0110 Suspended Slab PCB-02-21010	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01 Iline G-E Earliest Commencement of ABWF/MEP in Cabin 7&8 Ground Floor MIDDLE Earliest Commencement of ABWF/MEP in Cabin 2 Ground Floor MIDDLE Os Construct Mezzanine Floor Slab Pour MS08 - 290m ³	0 23 15 0 0	01-Aug-16 27-Aug-16 21-Sep-16 28-Sep-16 05-Aug-16	13-Sep-16 31-Aug-16	
PCB-02-20740 Aezzanine Floo SOUTH - Gridli PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120 MIDDLE - Grid PCB-AB-A0100 PCB-AB-A0110 Suspended Slab PCB-02-21010	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01 Iline G-E Earliest Commencement of ABWF/MEP in Cabin 7&8 Ground Floor MIDDLE Earliest Commencement of ABWF/MEP in Cabin 2 Ground Floor MIDDLE Os Construct Mezzanine Floor Slab Pour MS08 - 290m ³	0 23 15 0 0	01-Aug-16 27-Aug-16 21-Sep-16 28-Sep-16 05-Aug-16	13-Sep-16 31-Aug-16	3 MONTH ROI I ING PROGR
PCB-02-20740 Aezzanine Floor SOUTH - Gridli PCB-AB-A0080 Suspended Slab PCB-02-21100 Cure and Strip PCB-02-21120 MIDDLE - Grid PCB-AB-A0100 PCB-AB-A0110 Suspended Slab PCB-02-21010 PCB-02-21000	or Slabs (+10.250mPD) ine J-G Earliest Commencement of ABWF/MEP in Cabin 1 Ground Floor SOUTH os Construct Mezzanine Floor Slab Cabin Pour MS01 - 315m ³ Cure & Strip Mezzanine Floor Slab Cabin Pour MS01 Iline G-E Earliest Commencement of ABWF/MEP in Cabin 7&8 Ground Floor MIDDLE Earliest Commencement of ABWF/MEP in Cabin 2 Ground Floor MIDDLE os Construct Mezzanine Floor Slab Pour MS08 - 290m ³ Construct Mezzanine Floor Slab Pour MS07 - 260m ³	0 23 15 0 0	01-Aug-16 27-Aug-16 21-Sep-16 28-Sep-16 05-Aug-16	13-Sep-16 31-Aug-16	3 MONTH ROLLING PROGR



	Activity Nama	Original	Ctort	Finish	27	1
ID A	Activity Name	Original Duration	Start	Finish	7 Jul 04 Jul 11 Jul 18 Jul 25	Aug 01
PCB-02-20980 C	Construct Mezzanine Floor Slab Pour MS02 - 322m ³	23	13-Aug-16	08-Sep-16		
Cure and Strip		20	10 Aug 10	00 000 10		
	Cure & Strip Mezzanine Floor Slab Pour MS08	45	01 Can 10	10 Can 10		
		15	01-Sep-16	19-Sep-16		
	Cure & Strip Mezzanine Floor Slab Pour MS07	15	02-Sep-16	20-Sep-16		-
	Cure & Strip Mezzanine Floor Slab Pour MS02	15	09-Sep-16	27-Sep-16		
NORTH - Gridline						
	Earliest Commencement of ABWF/MEP in Cabin 6 Ground Floor NORTH	0	24-Sep-16			
Suspended Slabs				-		
	Construct Mezzanine Floor Slab Pour MS06 - 323m ³	23	10-Aug-16	05-Sep-16		
	Construct Mezzanine Floor Slab Pour MS03 - 335m ³	23	20-Sep-16	18-Oct-16		
Cure and Strip						
PCB-02-21090 C	Cure & Strip Mezzanine Floor Slab Pour MS06	15	06-Sep-16	23-Sep-16		
PCB-02-21080 C	Cure & Strip Mezzanine Floor Slab Pour MS03	15	19-Oct-16	04-Nov-16		
Columns to First	Floor (+14.700mPD)					
SOUTH - Gridline	e J-G					
A2790 C	Construct Columns to 1st Floor pour FS02 (Abv GS03a,03b,19a, 05b,21)	12	19-Jul-16 A	11-Aug-16		
A2800 C	Construct Columns to 1st Floor pour FS03 (Abv GS19a,13,05b,21)	12	12-Aug-16	25-Aug-16		
PCB-02-21170 C	Construct Columns to 1st Floor Pour FS09 (Abv MS01)	12	27-Aug-16	09-Sep-16		
A2880 C	Construct Columns to 1st Floor pour FS04 (Abv GS11,1319a,19b,,20a,21)	12	08-Sep-16	22-Sep-16	-	
A2900 C	Construct Columns to 1st Floor pour FS05 (Abv GS11,19b,20a)	12	23-Sep-16	07-Oct-16		
	Construct Columns to 1st Floor pour FS06 (Abv GS09,,11,19b,18, 20a,20b)	12	08-Oct-16	22-Oct-16		
	Construct Columns to 1st Floor pour FS07 (Abv GS09,18,20b)	12	24-Oct-16	05-Nov-16	-	1
MIDDLE - Gridlin		12			(1
	Te G-E Construct Columns to 1st Floor pour FS15 (Abv MS07,MS08)	12	21-Sep-16	05-Oct-16		1
	Construct Columns to 1st Floor pour FS15 (Abv MS07,MS08)	12	•	05-Oct-16		-
	Construct Columns to 1st Floor pour FS14 (Abv MS07,MS08) Construct Columns to 1st Floor pour FS12 (Abv GS25a,12b,12a,13,05b)		21-Sep-16 26-Oct-16	05-Oct-16 08-Nov-16	-	1
		12			_	
	Construct Columns to 1st Floor pour FS17 (Abv GS08a,14,24c,08b,04b,09)	12	26-Oct-16	08-Nov-16		
NORTH - Gridline						
	Construct Columns to 1st Floor pour FS19 (Abv MS06)	12	06-Sep-16	20-Sep-16		
	Construct Columns to 1st Floor Pour FS27 - (Abv MS03)	12	19-Oct-16	01-Nov-16		
First Floor Level	Beams (+14.7mPD)					
SOUTH - Gridline	e J-G					
First Floor Beams					1	
A2870 C	Construct 1st Floor Beams FSB02 - 341m ³	12	12-Aug-16	25-Aug-16		
A2860 C	Construct 1st Floor Beams FSB03 - 490m3	12	26-Aug-16	08-Sep-16		
A2990 C	Construct 1st Floor Beams FSB04 - 481m ³	12	23-Sep-16	07-Oct-16		
A3000 C	Construct 1st Floor Beams FSB05 - 502m ³	12	08-Oct-16	22-Oct-16	-	
A3010 C	Construct 1st Floor Beams FSB06 - 488m ³	12	24-Oct-16	05-Nov-16		
First Floor Level	Slabs (+14.7mPD)					
SOUTH - Gridline	· · ·					-
	Earliest Commencement of ABWF/MEP in Cabin 1 Mezz Floor SOUTH	0	01-Aug-16			
	Earliest Commencement of ABWF/MEP in Cabin 4 Mezz Floor SOUTH	0	18-Aug-16		_	ſ
Suspended Slabs			10 Aug 10			
-	Construct 1 at Elect Supported Slob ES02 109m3 After Pears	6	26 Aug 16	01 Sop 16		
	Construct 1st Floor Suspended Slab FS02 - 108m ³ After Beams	6	26-Aug-16	01-Sep-16		-
	Construct 1st Floor Suspended Slab FS03 - 156m ³ After Beams	6	09-Sep-16	15-Sep-16	-	1
	Construct 1st Floor Suspended Slab FS09 - 111m ³ - Above MS01	23	10-Sep-16	08-Oct-16	-	1
	Construct 1st Floor Suspended Slab FS04 - 158m ³ After Beams	6	08-Oct-16	15-Oct-16	_	1
	Construct 1st Floor Suspended Slab FS05 - 162m3 After Beams	6	24-Oct-16	29-Oct-16		1
Cure and Strip						
PCB-02-20460 C	Cure & Strip 1st Floor Suspended Slab FS01 - Cabin 4 (East)	15	01-Aug-16	17-Aug-16		
PCB-02-20930 C	Cure & Strip 1st Floor Suspended Slab FS02	15	02-Sep-16	20-Sep-16		1
PCB-02-20440 C	Cure & Strip 1st Floor Suspended Slab FS03	15	17-Sep-16	05-Oct-16		1
PCB-02-20920 C	Cure & Strip 1st Floor Suspended Slab FS09 - Cabin 1 (West)	15	11-Oct-16	27-Oct-16	1	
	Cure & Strip 1st Floor Suspended Slab FS04	15	17-Oct-16	02-Nov-16	-	1
	Cure & Strip 1st Floor Suspended Slab FS05	15	31-Oct-16	16-Nov-16		-
MIDDLE - Gridlin	· ·				1	1
—	THE G-E Earliest Commencement of ABWF/MEP in Cabin 5 Mezz Floor MIDDLE	0	27-Aug-16		•	1
Suspended Slabs		.				1
	Construct 1st Elear Supponded Clob ES10 104m3 Above MOOF	00	04 10 10 1	00 1		
	Construct 1st Floor Suspended Slab FS10 - 104m ³ - Above MS05	23	04-Jul-16 A	09-Aug-16		-
	Construct 1st Floor Suspended Slab FS14 - 155m ³ Above MS08	23	06-Oct-16	02-Nov-16	-	
	Construct 1st Floor Suspended Slab FS15 - 185m ³ Above MS07	23	06-Oct-16	02-Nov-16		
Cure and Strip						1
PCB-02-20370 C	Cure & Strip 1st Floor Suspended Slab FS10 - Cabin 5	15	10-Aug-16	26-Aug-16		1
NORTH - Gridling	e E-B					1
Suspended Slabs	Construct 1st Floor Suspended Slab FS19 - 108m3 - Above MS06	23	21-Sep-16	19-Oct-16	1	
		1			(1
-						
PCB-02-20340 C						•
PCB-02-20340 C Cure and Strip				1		
PCB-02-20340 C					3 MONTH ROLLING	G PROGR
PCB-02-20340 C Cure and Strip Actual Work	j Work		_		3 MONTH ROLLING Page 4 of 1	



/ ID Act	ivity Name	Original	Start	Finish	27	
		Duration			:7 Jul 04 Jul 11 Jul 18 Jul 25 F[S[S[VI]T] T[F[S[S]VI]T] T[F[S]S[VI]T] T[F[S[S]VI]T] T[F[S[S]	Aug 01
	re & Strip 1st Floor Suspended Slab FS19 - Cabin 19	15	20-Oct-16	05-Nov-16		
-	mns to +19.5mPD (Multi Lift)					
South - Gridline G	i to H					
Mega Column H1						
	nstruct Mega Column H1 (+15.45mPD to +19.50mPD)	8	01-Aug-16	09-Aug-16	_	
	ga Column H1 Minimum Curing Time and Strip 30h	2	10-Aug-16	11-Aug-16	_	
Mega Column H3						
	nstruct Mega Column H3 (+15.45mPD to +19.50mPD)	8	31-Oct-16	08-Nov-16		
Mega Column H4						
· · · · · · · · · · · · · · · · ·	nstruct Mega Column H4 (+15.45mPD to +19.50mPD)	8	17-Sep-16	26-Sep-16		
PCB-02-24630 Me	ga Column H4 Minimum Curing Time and Strip 30h	2	27-Sep-16	28-Sep-16	-	
Mega Column H5		I		-		
PCB-02-23850 Co	nstruct Mega Column H5 (+15.45mPD to +19.50mPD)	8	01-Aug-16	09-Aug-16	_	
PCB-02-24620 Me	ga Column H5 Minimum Curing Time and Strip 30h	3	10-Aug-16	12-Aug-16	-	
Gridline G		I				
Mega Column G1						
PCB-02-23860 Co	nstruct Mega Column G1 (+5.45mPD to +15.45mPD)	8	01-Aug-16	09-Aug-16		
PCB-02-23870 Co	nstruct Mega Column G1 (+15.45mPD to +19.50mPD)	8	10-Aug-16	18-Aug-16	-	
PCB-02-24610 Me	ga Column G1 Minimum Curing Time and Strip 30h	2	19-Aug-16	20-Aug-16	-	
Mega Column G3		I				
PCB-02-24190 Co	nstruct Mega Column G3 (+15.45mPD to +19.50mPD)	8	31-Oct-16	08-Nov-16	1	
Mega Column G4						
PCB-02-24200 Co	nstruct Mega Column G4 (+15.45mPD to +19.50mPD)	8	17-Sep-16	26-Sep-16]	
PCB-02-24580 Me	ga Column G4 Minimum Curing Time and Strip 30h	3	27-Sep-16	29-Sep-16		
Mega Column G5		i i i i i i i i i i i i i i i i i i i				
PCB-02-23890 Co	nstruct Mega Column G5 (+15.45mPD to +19.50mPD)	8	01-Aug-16	09-Aug-16		
PCB-02-24570 Me	ga Column G5 Minimum Curing Time and Strip 30h	3	10-Aug-16	12-Aug-16		
Middle - Gridline I	F to E					
Gridline F						
Mega Column F1						
	nstruct Mega Column F1 (+5.45mPD to +15.45mPD)	8	04-Aug-16	12-Aug-16		
	nstruct Mega Column F1 (+15.45mPD to +19.50mPD)	8	13-Aug-16	22-Aug-16		
	ga Column F1 Minimum Curing Time and Strip 30h	2	23-Aug-16	24-Aug-16		
Mega Column F3						
	nstruct Mega Column F3 (+5.45mPD to +15.50mPD)	8	01-Aug-16	09-Aug-16		
Mega Column F5						
	nstruct Mega Column F5 (+15.45mPD to +19.50mPD)	8	01-Aug-16	09-Aug-16	-	
	ga Column F5 Minimum Curing Time and Strip 30h	2	10-Aug-16	11-Aug-16		
Gridline E						
Mega Column E1			04 Ave 10	10 Aug 10		_
	nstruct Mega Column E1 (+5.45mPD to +15.45mPD)	8	04-Aug-16	12-Aug-16		
	nstruct Mega Column E1 (+15.45mPD to +19.50mPD)	8	13-Aug-16	22-Aug-16	_	
	ga Column E1 Minimum Curing Time and Strip 30h	2	23-Aug-16	24-Aug-16		
Mega Column E3	netwet Maga Calumn F2 (. F. (FmDD to . 15 F0mDD)	0	01 Aug 10	00 Aug 10		
	nstruct Mega Column E3 (+5.45mPD to +15.50mPD)	8	01-Aug-16	09-Aug-16		
Mega Column E5	nstruct Mega Column E5 (+15.45mPD to +19.50mPD)	0	01 Aug 10	00 Aug 10		
		8	01-Aug-16	09-Aug-16	_	
	ga Column E5 Minimum Curing Time and Strip 30h	2	10-Aug-16	11-Aug-16		
North Gridline D to Gridline D						
Mega Column D1	nstruct Mega Column D1 (+5.45mPD to +15.45mPD)	0	14-Sep-16	23-Sep-16		
	nstruct Mega Column D1 (+5.45mPD to +15.45mPD) nstruct Mega Column D1 (+15.45mPD to +19.50mPD)	8		23-Sep-16 04-Oct-16	-	
		8	24-Sep-16		-	
Mega Column D5	ga Column D1 Minimum Curing Time and Strip 30h	2	05-Oct-16	06-Oct-16		
· · · · · · · · · · · · · · · · · · ·	nstruct Mega Column D5 (+5.45mPD to +15.45mPD)	8	01-Aug-16	09-Aug-16		
	nstruct Mega Column D5 (+5.45mPD to +15.45mPD)	8	_	18-Aug-16		
	ga Column D5 Minimum Curing Time and Strip 30h	2	10-Aug-16 19-Aug-16	18-Aug-16 20-Aug-16	-	
Gridline C		2	13-Aug-16	20-AUG-10		
Mega Column C1						
· · _ · · · · · · · · · · · · · ·	nstruct Mega Column C1 (+5.45mPD to +15.45mPD)	8	14-Sep-16	23-Sep-16	-	
	nstruct Mega Column C1 (+5.45mPD to +15.45mPD)	8	24-Sep-16	04-Oct-16		
	ga Column C1 (+15.45mPD to +19.50mPD) ga Column C1 Minimum Curing Time and Strip 30h	2	05-Oct-16	04-Oct-16	-	
Mega Column C5		2	03-001-16	00-001-16		
· · · · · · · · · · · · · · · · ·	nstruct Mega Column C5 (+5.45mPD to +15.45mPD)	0	01 Aug 10	00 Aug 10		
	nstruct Mega Column C5 (+5.45mPD to +15.45mPD) nstruct Mega Column C5 (+15.45mPD to +19.50mPD)	8	01-Aug-16	09-Aug-16	-	
100-02-23910 00	19.30(111) (+13.30)(11))	0	10-Aug-16	18-Aug-16		
- Actual Work						
					3 MONTH ROLLING	
- Remaining Work				1		



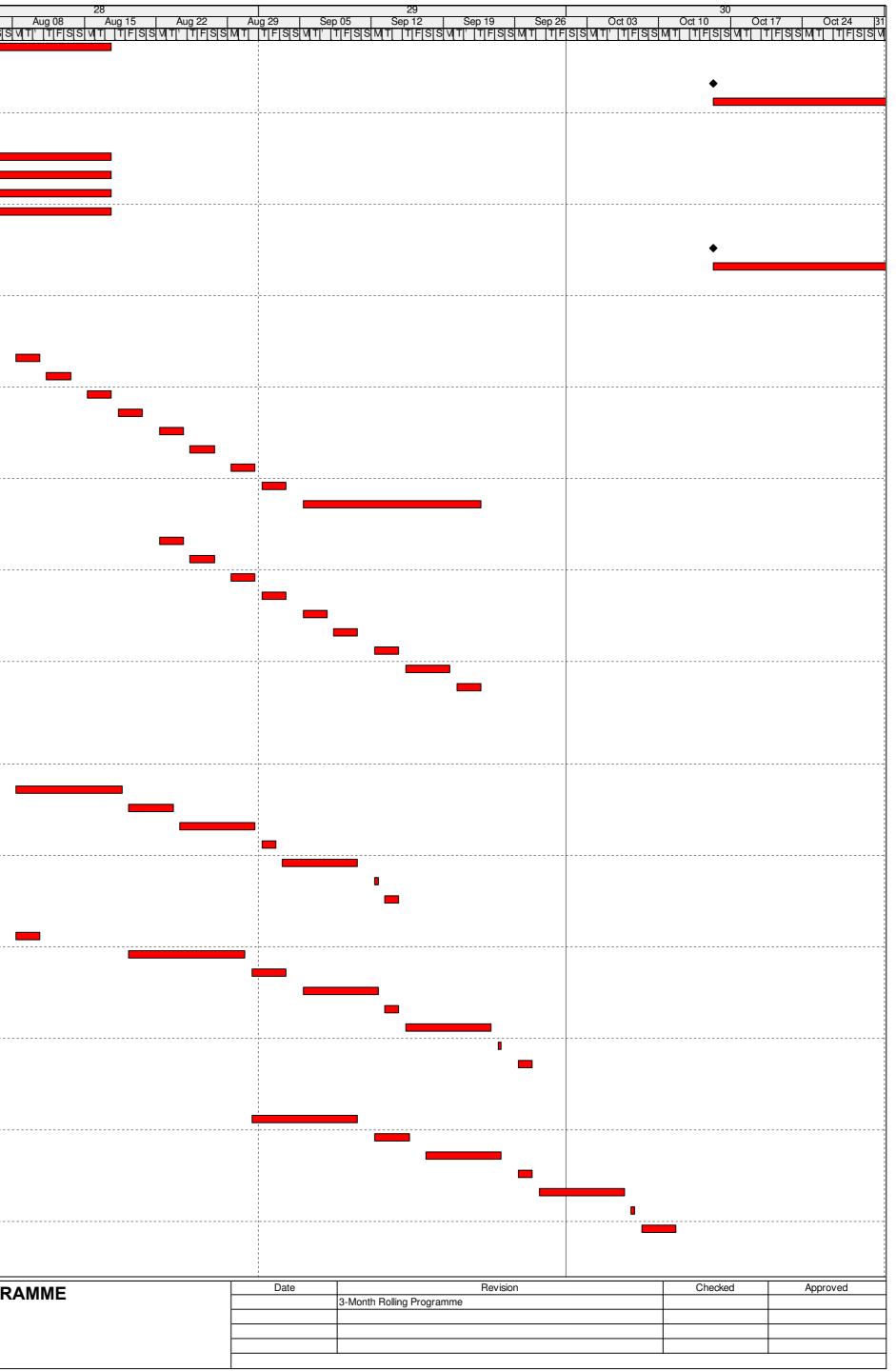
ty ID	Activity Name	Original	Start	Finish	27 7
	Mega Column C5 Minimum Curing Time and Strip 30h	Duration	19-Aug-16	00 Ave 10	7 Jul 04 Jul 11 Jul 18 Jul 25 Aug 01 F[S[S]M[T] T[F[S]S[M[T] T[F[S]S[M[T] T[F[S]S[M[T] T[F[S]S[M]
	MEP / E&M Works	2		20-Aug-16	
Level 1 Baseme					
SOUTH - Gridli					
	PCB - ABWF BF Blockworks Zone J	24	26-Jun-16 A	06-Aug-16	
PCB-02-W100	PCB - ABWF Wearing slab construction Zone G	28	01-Jul-16 A	23-Aug-16	
	PCB - ABWF BF Blockworks Zone G	24	01-Aug-16	27-Aug-16	
Degree 1					
	PCB - MEP high level works Zone J	24	30-May-16 A	20-Aug-16	
	PCB - ABWF DOC 1 Zone J Corridors and Lobby PCB - ABWF DOC 1 Zone J Switchrooms	20	01-Aug-16 08-Aug-16	23-Aug-16 30-Aug-16	
	PCB - ABWF DOC 1 Zone G Corridors and Lobby	17	29-Aug-16	17-Sep-16	-
	PCB - MEP DOC 1 Zone J Switchrooms	31	31-Aug-16	07-Oct-16	_
PCB-02-M1000	PCB - MEP DOC 1 Zone J Corridors and Lobby	40	24-Aug-16	12-Oct-16	
PCB-02-A1050	PCB - MEP DOC 1 Zone G Corridors and Lobby	40	19-Sep-16	05-Nov-16	
Degree 2					
	PCB - ABWF DOC 2 Zone J Switchrooms	6	08-Oct-16	15-Oct-16	
MIDDLE - Grid		10			
PCB-02-W110	PCB - Wearing slab construction Zone D,E,F	43	11-Jun-16 A	25-Aug-16	
PCB-02-B1015 Degree 1	PCB - ABWF BF Blockworks Zone F	24	01-Jun-16 A	27-Aug-16	
-	PCB - ABWF DOC 1 Zone F Corridors and Lobby	17	29-Aug-16	17-Sep-16	
	PCB - MEP DOC 1 Zone F Corridors and Lobby	40	19-Sep-16	05-Nov-16	-
NORTH - Gridli					
	PCB - ABWF Wearing slab construction Zone C	12	26-Aug-16	08-Sep-16	
PCB-02-W130	PCB - ABWF Wearing slab construction Zone A	12	09-Sep-16	23-Sep-16	
	Ground Floor +5.50mPD				
SOUTH - Gridli					
	PCB - ABWF GF Blockworks Zone J	27	27-Jun-16 A	17-Aug-16	
PCB-02-B1035 MIDDLE - Grid	PCB - ABWF GF Blockworks Zone G	27	14-Sep-16	18-Oct-16	
	PCB - ABWF GF Blockworks Zone F	50	11-Jul-16 A	19-Sep-16	
	PCB - ABWF GF Blockworks Zone E	27	21-Sep-16	24-Oct-16	
	PCB - ABWF GF Blockworks Zone D	37	28-Sep-16	11-Nov-16	
cade					
	<u> </u>				
off Site Works					
PCB-XX-0290	Fabrication of double bow truss	76	20-Jun-16 A	30-Sep-16	
PCB-XX-0310	Fabrication of single bow truss	62	01-Aug-16	14-Oct-16	
PCB-XX-0300	Assembly of double bow truss	76	23-Jul-16 A	19-Oct-16	
PCB-XX-0320	Assembly of single bow truss	62	10-Sep-16	24-Nov-16	
Window Wall to	Cabins				
PCB-XX-3050	Fabrication of WTD extrusions	70	30-May-16 A	03-Sep-16	
PCB-XX-3030	Fabrication of WTC glass	83	09-May-16 A	10-Sep-16	
PCB-XX-3080	Assembly of WTE panels	66	04-Jul-16 A	19-Sep-16	
PCB-XX-3040	Assembly of WTC panels	68	06-Jun-16 A	21-Sep-16	
PCB-XX-3060 PCB-XX-3070	Assembly of WTD panels Fabrication of WTE glass	70	04-Jul-16 A 13-May-16 A	23-Sep-16 24-Sep-16	
PCB-XX-3070	Facade - Fabrication of Brackets	142	23-May-16 A	11-Nov-16	
Facade - Curtai			_o		
PCB-XX-3090	Fabrication of WTA/B glass	110	12-Sep-16	24-Jan-17	
PCB-XX-3100	Assembly of WTA/B panels	110	08-Oct-16	24-Feb-17	
Facade - Wind	dow Wall to Cabins	, , , , , , , , , , , , , , , , , , ,			
East Side					
SOUTH - Gridli	ine J-G - CABIN 4				
Ground Floor					
Zone J					
	PCB (GF) - Set up works for GF Window wall erection Zone J	22	07-Jul-16 A	04-Aug-16	
	PCB (GF) - Bracket Installations Zone J	31	05-Aug-16*	09-Sep-16	
	PCB (GF) - Window Wall installation of glass units (Cabin 4) Zone J	28	19-Aug-16	21-Sep-16	
Zone G	PCB (GF) - Bracket Installations Zone G	31	17-Aug-16*	22-Sep-16	
	PCB (GF) - bracket installations zone G PCB (GF) - Window Wall installation of glass units (Cabin 1) Zone G	28	22-Aug-16	22-Sep-16 23-Sep-16	
Mezzanine Floor		20		20 0ep-10	
Zone J					
	PCB (MZ) - Bracket Installations Zone J	31	25-Aug-16	30-Sep-16	
	· · ·				
Actual Work					3 MONTH ROLLING PROGRA
🔲 Remaining Wor					
Critical Remaini	ing Work				Page 6 of 12
Milestone					

Aug 08 Aug 15 Aug 22	Aug 29 Se	ep 05 Sep 12	Sep 19 I Sep 26	Oct 03	Oct 10 Oct	17 I OCT24 B1
Aug 08 Aug 15 Aug 22 MTI' TTFSS MTI TTFSS	ΜΤΙ ΤΕΙSISΙΜΤΙ	TIFISISMT TEFISISV	TI' TIFISISMTI TIF		MTLTFSSMT	TETIST MATE TETISTS N
		-				
		-				
		_				
		_				
	Date		Revision		Checked	Approved
		S-Month Rolling Program			Checked	Approved
		S-Month Rolling Programm			Checked	Approved
		S-Month Rolling Program			Checked	Approved
		S-Month Rolling Program				Approved

			a		
tivity ID	Activity Name	Original Duration	Start	Finish	27 28 7 Jul 04 Jul 11 Jul 18 Jul 25 Aug 01 Aug 08 Aug 15 Aug 22
DCD 02 2122	0 PCB (MZ) - Window Wall installation of glass units (Cabin 4) Zone J		06 Sop 16	11-Oct-16	
	PCB (MZ) - Window Wali Installation of glass units (Cabin 4) Zone J	28	06-Sep-16	11-Oct-16	
Zone G			22.0 4.0		_
	PCB (MF) - Bracket Installations Zone G	31	23-Sep-16	31-Oct-16	_
	PCB (MF) - Window Wall installation of glass units (Cabin 1) Zone G	28	06-Oct-16	08-Nov-16	
	dline G-E - CABIN 5				
Ground Floor					
Zone F					
	0 PCB (GF) - Set up works for GF Window wall erection Zone F	22	22-Aug-16*	15-Sep-16	
PCB-02-3140	0 PCB (GF) - Bracket Installations Zone F	31	17-Sep-16	25-Oct-16	
PCB-02-3145	0 PCB (GF) - Window Wall installation of glass units (Cabin 4) Zone F	28	23-Sep-16	27-Oct-16	
Zone D					
PCB-02-3151	0 PCB (GF) - Bracket Installations Zone D	31	26-Oct-16	30-Nov-16	
Mezzanine Floo	or				
Zone F					
PCB-02-3149	0 PCB (MZ) - Bracket Installations Zone F	31	08-Oct-16	14-Nov-16	
PCB-02-3150	0 PCB (MZ) - Window Wall installation of glass units (Cabin 4) Zone F	28	21-Oct-16	22-Nov-16	
West Side					
	lline J-G - CABIN 1				
Ground Floor					
Zone G					·····
	DCP (CE) Set up works for CE Window wall creation Zone C	22	01 Sop 16	27 Sop 16	
	0 PCB (GF) - Set up works for GF Window wall erection Zone G	22	01-Sep-16	27-Sep-16	_
	0 PCB (GF) - Bracket Installations Zone G	31	13-Sep-16	21-Oct-16	_
PCB-02-3148	0 PCB (GF) - Window Wall Primary Steelwork (Cabin 4) Zone G	28	23-Sep-16	27-Oct-16	
Misc Off si	te				
Balustrades					
		00	01 4	00.4	
PCB-YY-0330	Fabrication and Delivery - Mock-up	20	01-Aug-16*	23-Aug-16	
PCB-YY-0340	Mock-up assembly and approval	46	24-Aug-16	19-Oct-16	
Southern I	Drop-Off Area				
Southern Dr	op off Area - Pile Caps				
	o Off Area - West			_	
-					
	Prs and Bearings	10	01 Aug 10	00 Aug 10	
PCB-16-1680	DoA - WEST Construct Columns 3 No (to +11mPD) DoA - WEST Construct Columns 3 No (to +11mPD)	18	01-Aug-16	20-Aug-16	
PCB-16-2060		18	15-Aug-16	03-Sep-16	
Steel Roof	Erection				
	teel Roof (HLEM)				
Marine Deliver		050	04 Ann 40	40 1 47	
PCB-02-7020	SR - Marine delivery of Roof Cassettes and Infill Panels	250	04-Aug-16	13-Jun-17	
SPMT Path					
A3530	SR - Construct SPMT Path to Row 4	7	01-Aug-16	08-Aug-16	
A3700	SR - Construct SPMT Path to Row 5	7	09-Aug-16	16-Aug-16	
Temporary Su	pport Towers				
Row 1					
Towers					
A3310	Erect Temporary Launch Towers - Stage 4	6	22-Jul-16 A	03-Aug-16	
A3320	Erect Temporary Launch Towers - Stage 5	4	01-Aug-16	04-Aug-16	
Row 2			-	-	
Footings					
A3260	Temporary Footings - ROW 2 - Lowering Zone (Tentative) Stage 3	15	01-Aug-16*	17-Aug-16	
A3550	Conversion area Steel Frame ROW 2	21	01-Aug-16	24-Aug-16	
		21		24-Aug-10	
Towers			01 1 12		
A3540	Erect Temporary Launch Towers ROW 2 - Stage 1	6	01-Aug-16	06-Aug-16	
A3370	Erect Temporary Launch Towers ROW 2- Stage 2	6	01-Aug-16	06-Aug-16	
A3560	Erect Temporary Launch Towers ROW 2 - Stage 3	6	18-Aug-16	24-Aug-16	
A1770	Erect Temporary Launch Towers ROW 2 Gridline G-H (Row 2)	30	18-Aug-16	22-Sep-16	
Row 3					
Footings					
A3280	Temporary Footings - ROW 3 - Gridline 0.1 (Tentative) - Stage 1	15	07-Jun-16 A	04-Aug-16	
A3290	Temporary Footings - ROW 3 - Lowering Zone (Tentative) - Stage 2	15	01-Aug-16*	17-Aug-16	
Towers		-			
A3570	SR - Structural Readiness for ROW 3 Rail	0	15-Oct-16*		
A1780	SR - Erect Temporary Launch Towers Gridline F-E (ROW 3)	30	15-Oct-16	18-Nov-16	
		30		10-110-10	
Row 4					
Footings					
A3600	Temporary Footings - ROW 4 - Lifting Zone (Tentative) - Stage 3	15	21-Jul-16 A	12-Aug-16	
A3580	Temporary Footings - ROW 4 - Gridline 0.1 (Tentative) - Stage 1	15	01-Aug-16*	17-Aug-16	
					3 MONTH ROLLING PROGRAMME
Remaining Work	ork				
Critical Remai					Page 7 of 12
 Milestone 	<u> </u>				

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Jul 18 Jul 25 1[T] T F S S V T ' T F S S V T	Aug 01 Aug 08 Aug 15 Aug 22 T TTFISIS MITI' TTFISIS MITI TTFISIS MITI' TTFISIS N		ep 05 Sep 12	Sep 19 Sep 26			
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	Activity Name	Original Duration	Start	Finish	27 27 Jul 04 Jul 11 Jul 18 Jul 25 Aug FSISIMITI TIFISISIMITI TIFISISIMITI TIFISISIMITI T
A3590	Temporary Footings - ROW 4 - Lowering Zone (Tentative) - Stage 2	15	01-Aug-16*	17-Aug-16	
owers					
3620	SR - Structural Readiness for ROW 4 Rail	0	15-Oct-16*		
3610 	SR - Erect Temporary Launch Towers Gridline C-D (ROW 4)	30	15-Oct-16	18-Nov-16	
v 5 otings			_		
3650	Temporary Footings - ROW 5 - Lifting Zone (Tentative) - Stage 3	15	01-Aug-16*	17-Aug-16	
3630	Temporary Footings - ROW 5 - Gridline 0.1 (Tentative) - Stage 1	15	01-Aug-16*	17-Aug-16	
3640	Temporary Footings - ROW 5 - Lowering Zone (Tentative) - Stage 2	15	01-Aug-16*	17-Aug-16	
\3680	Temporary Footings - ROW 5 - Gridline 1 to 5 (Tentative) - Stage 4	15	01-Aug-16*	17-Aug-16	
wers 3670	CD Church and Deciding on few DOW/ 5 Deil		15 0-1 101		
70 60	SR - Structural Readiness for ROW 5 Rail SR - Erect Temporary Launch Towers Gridline A-B (ROW 4)	0 30	15-Oct-16* 15-Oct-16	18-Nov-16	
tion		00			
w 1 (GL J-K)				· · · · · · · · · · · · · · · · · · ·
egment Erectio					
CB-02-11810	SR - Row 1 - Launch Cassette R1/P1	3	04-Aug-16*	06-Aug-16	
CB-02-11820	SR - Row 1 - Launch Cassette R1/P2	3	08-Aug-16	10-Aug-16	
CB-02-11830	SR - Row 1 - Launch Cassette R1/P3	3	11-Aug-16	13-Aug-16	
CB-02-11840 CB-02-11850	SR - Row 1 - Launch Cassette R1/P4 SR - Row 1 - Launch Cassette R1/P5	3	15-Aug-16	17-Aug-16	
B-02-11850 B-02-11860	SR - Row 1 - Launch Cassette R1/P5 SR - Row 1 - Launch Cassette R1/P6	3	18-Aug-16 22-Aug-16	20-Aug-16 24-Aug-16	
CB-02-11800	SR - Row 1 - Launch Cassette R1/P7	3	22-Aug-16	24-Aug-16	
CB-02-11870	SR - Row 1 - Launch Cassette R1/P8	3	29-Aug-16	31-Aug-16	
PCB-02-11880	SR - Row 1 - Launch Cassette R1/P9	3	01-Sep-16	03-Sep-16	
PCB-02-34730	SR - Row 1 - Remove Temp Launching Rail	15	05-Sep-16	22-Sep-16	
olley Return					
PCB-02-36010		3	22-Aug-16	24-Aug-16	
CB-02-36020 CB-02-36030	SR - Lower and Return Trolley 2 to Zhong Shan SR - Lower and Return Trolley 3 to Zhong Shan	3	25-Aug-16 29-Aug-16	27-Aug-16 31-Aug-16	
PCB-02-36040	SR - Lower and Return Trolley 4 to Zhong Shan	3	01-Sep-16	03-Sep-16	
CB-02-36050	SR - Lower and Return Trolley 5 to Zhong Shan	3	05-Sep-16	07-Sep-16	
CB-02-36060	SR - Lower and Return Trolley 6 to Zhong Shan	3	08-Sep-16	10-Sep-16	
PCB-02-36090	SR - Lower and Return Trolley 7 to Zhong Shan	3	12-Sep-16	14-Sep-16	
PCB-02-36070	SR - Lower and Return Trolley 8 to Zhong Shan SR - Lower and Return Trolley 9 to Zhong Shan	3	15-Sep-16 20-Sep-16	19-Sep-16 22-Sep-16	
1 (to +19.0mP	-				
PCB-02-2130 PCB-02-2135	Break Piles to Cut Off Level (+2.08mPD) and Blind - B1 Construct Pile Cap - B1	3 10	01-Aug-16 08-Aug-16	03-Aug-16 18-Aug-16	
CB-02-2135	PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B1	4	19-Aug-16	23-Aug-16	
B-ZZ-4140	Scaffolding and Rebar Fixing - B1	7	24-Aug-16	31-Aug-16	
CB-02-33880	PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B1			02-Sep-16	
		2	01-Sep-16	02-3ep-10	t
	PCB - Scaffolding+Embbed Rebar Fixing+MEP - B1	2 7	03-Sep-16	10-Sep-16	
CB-ZZ-4920	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1	7	03-Sep-16 12-Sep-16	10-Sep-16 12-Sep-16	
CB-ZZ-4920 CB-02-2145	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1	7	03-Sep-16	10-Sep-16	
CB-ZZ-4920 CB-02-2145 ? (to +19.0mP	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D)	7	03-Sep-16 12-Sep-16 13-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1	7 1 2	03-Sep-16 12-Sep-16	10-Sep-16 12-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B2	7 1 2 3	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D) Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2	7 1 2 3 10	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16 30-Aug-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-ZZ-4680 CB-02-33890	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2	7 1 2 3 10 4 7 2	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-2Z-4680 CB-02-33890 CB-2Z-5050	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2	7 1 2 3 10 4 7 2 7	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 15-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-ZZ-4680 CB-ZZ-5050 CB-ZZ-5050 CB-ZZ-4930	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2	7 1 2 3 10 4 7 2 7 7 1	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 15-Sep-16 24-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16 24-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-02-33890 CB-ZZ-5050 CB-ZZ-4930 CB-ZZ-4930 CB-02-26680	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D) Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 Minimum Curing before Stripping Shutter - B2	7 1 2 3 10 4 7 2 7	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 15-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-ZZ-4680 CB-ZZ-4930 CB-ZZ-4930 CB-02-26680 3 (to +19.0mP	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D) Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 Minimum Curing before Stripping Shutter - B2	7 1 2 3 10 4 7 2 7 7 1	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 15-Sep-16 24-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16 24-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-2Z-4680 CB-ZZ-5050 CB-ZZ-4930 CB-ZZ-4930 CB-02-26680 3 (to +19.0mP CB-02-26690	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 Minimum Curing before Stripping Shutter - B2 D	7 1 2 3 10 4 7 2 7 2 7 1 1 2	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 15-Sep-16 24-Sep-16 26-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16 24-Sep-16 27-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-ZZ-4680 CB-ZZ-5050 CB-ZZ-5050 CB-ZZ-4930 CB-02-26680 8 (to +19.0mP CB-02-26690 CB-02-26700 CB-02-26710	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1Minimum Curing before Stripping Shutter - B1DBreak Piles to Cut Off Level (+2.08mPD) and Blind - B2Construct Pile Cap - B2PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2Scaffolding and Rebar Fixing - B2PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2Minimum Curing before Stripping Shutter - B2DBreak Piles to Cut Off Level (+2.08mPD) and Blind - B3Construct Pile Cap - B3PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3	7 1 2 3 10 4 7 2 7 2 7 1 2 7 1 2 7 1 2 7 3	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 24-Sep-16 26-Sep-16 26-Sep-16 04-Aug-16 31-Aug-16 12-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 10-Aug-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16 24-Sep-16 27-Sep-16 27-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-2Z-4680 CB-ZZ-4930 CB-ZZ-4930 CB-02-26680 3 (to +19.0mP CB-02-26690 CB-02-26700 CB-02-26710 CB-02-26710 CB-ZZ-4700	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1Minimum Curing before Stripping Shutter - B1DBreak Piles to Cut Off Level (+2.08mPD) and Blind - B2Construct Pile Cap - B2PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2Scaffolding and Rebar Fixing - B2PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2Minimum Curing before Stripping Shutter - B2DBreak Piles to Cut Off Level (+2.08mPD) and Blind - B3Construct Pile Cap - B3PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3Scaffolding and Rebar Fixing - B3	7 1 2 3 10 4 7 2 7 1 2 7 1 2 7 1 2 3 10 4 7 1 2 3 10 4 7	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 15-Sep-16 24-Sep-16 26-Sep-16 26-Sep-16 31-Aug-16 12-Sep-16 17-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 14-Sep-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16 24-Sep-16 27-Sep-16 06-Aug-16 10-Sep-16 15-Sep-16 24-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-2Z-4680 CB-2Z-4930 CB-2Z-4930 CB-02-26680 3 (to +19.0mP CB-02-26690 CB-02-26700 CB-02-26710 CB-ZZ-4700 CB-02-33900	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1Minimum Curing before Stripping Shutter - B1D)Break Piles to Cut Off Level (+2.08mPD) and Blind - B2Construct Pile Cap - B2PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2Scaffolding and Rebar Fixing - B2PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2Minimum Curing before Stripping Shutter - B2DBreak Piles to Cut Off Level (+2.08mPD) and Blind - B3Construct Pile Cap - B3PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3Scaffolding and Rebar Fixing - B3PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3	7 1 2 3 10 4 7 2 7 7 2 7 1 2 7 1 2 7 1 2 7 3 10 4 4 7 2 2 7 2 2 7 2 7 7 1 2 7 7 1 2 7 7 7 1 2 7 7 7 7	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 24-Sep-16 24-Sep-16 26-Sep-16 31-Aug-16 12-Sep-16 17-Sep-16 26-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 14-Sep-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16 24-Sep-16 27-Sep-16 10-Sep-16 15-Sep-16 24-Sep-16 24-Sep-16 24-Sep-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-2Z-4680 CB-2Z-5050 CB-ZZ-4930 CB-02-26680 3 (to +19.0mP CB-02-26690 CB-02-26700 CB-02-26710 CB-02-26710 CB-2Z-4700 CB-2Z-4700 CB-2Z-5070	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1Minimum Curing before Stripping Shutter - B1DBreak Piles to Cut Off Level (+2.08mPD) and Blind - B2Construct Pile Cap - B2PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2Scaffolding and Rebar Fixing - B2PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2PCB - Scaffolding+Embbed Rebar Fixing+MEP - B2PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2Minimum Curing before Stripping Shutter - B2DBreak Piles to Cut Off Level (+2.08mPD) and Blind - B3Construct Pile Cap - B3PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3Scaffolding and Rebar Fixing - B3PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3PCB - Scaffolding+Embbed Rebar Fixing+MEP - B3	7 1 2 3 10 4 7 2 7 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 7 2 7 2	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 13-Sep-16 24-Sep-16 26-Sep-16 31-Aug-16 12-Sep-16 17-Sep-16 26-Sep-16 28-Sep-16	10-Sep-16 12-Sep-16 14-Sep-16 14-Sep-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16 23-Sep-16 24-Sep-16 27-Sep-16 10-Sep-16 15-Sep-16 24-Sep-16 24-Sep-16 06-Oct-16	
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PCB-ZZ-5030 PCB-ZZ-4920 PCB-02-2145 2 (to +19.0mP PCB-02-26650 PCB-02-26660 PCB-02-26670 PCB-02-26670 PCB-02-26670 PCB-02-26680 PCB-02-26680 PCB-02-26680 PCB-02-26690 PCB-02-26690 PCB-02-26690 PCB-02-26700 PCB-02-26700 PCB-02-33900 PCB-2Z-4940 PCB-2Z-4940 PCB-02-26720 4 (to +19.0mP	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D) Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 Minimum Curing before Stripping Shutter - B2 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B3 Construct Pile Cap - B3 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3 Scaffolding and Rebar Fixing - B3 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 Minimum Curing before Stripping Shutter - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3	7 1 2 3 10 4 7 2 7 1 2 7 1 2 7 1 2 3 10 4 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 1 2 7 1 2 7 1 2 4 10 2	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 15-Sep-16 24-Sep-16 26-Sep-16 26-Sep-16 12-Sep-16 17-Sep-16 26-Sep-16 28-Sep-16 07-Oct-16 08-Oct-16	10-Sep-16 12-Sep-16 14-Sep-16 30-Aug-16 03-Sep-16 12-Sep-16 12-Sep-16 23-Sep-16 23-Sep-16 24-Sep-16 27-Sep-16 10-Sep-16 15-Sep-16 24-Sep-16 24-Sep-16 27-Sep-16 06-Oct-16 07-Oct-16	
CB-ZZ-4920 CB-02-2145 2 (to +19.0mP CB-02-26650 CB-02-26660 CB-02-26670 CB-ZZ-4680 CB-02-33890 CB-ZZ-5050 CB-ZZ-4930 CB-02-26680 3 (to +19.0mP CB-02-26700 CB-02-26700 CB-2Z-4700 CB-02-26700 CB-2Z-4700 CB-2Z-4940 CB-02-26720 4 (to +19.0mP CB-02-26730	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 Minimum Curing before Stripping Shutter - B2 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B3 Construct Pile Cap - B3 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3 Scaffolding and Rebar Fixing - B3 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3	7 1 2 3 10 4 7 2 7 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 7 1 2 7 7 1 2 7 7 1 2 7 7 1 2 7 7 1 2 7 7 1 2 7 7 7 1 2 7 7 7 1 2 7 7 7 7	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 13-Sep-16 24-Sep-16 24-Sep-16 26-Sep-16 12-Sep-16 12-Sep-16 26-Sep-16 28-Sep-16 28-Sep-16 07-Oct-16	10-Sep-16 12-Sep-16 14-Sep-16 30-Aug-16 03-Sep-16 12-Sep-16 14-Sep-16 23-Sep-16 24-Sep-16 27-Sep-16 10-Sep-16 15-Sep-16 24-Sep-16 24-Sep-16 24-Sep-16 06-Oct-16 07-Oct-16	
PCB-ZZ-4920 PCB-02-2145 PCB-02-26650 PCB-02-26660 PCB-02-26660 PCB-02-26670 PCB-02-26670 PCB-02-33890 PCB-ZZ-4680 PCB-02-26680 PCB-02-26680 PCB-02-26680 PCB-02-26690 PCB-02-266700 PCB-02-26710 PCB-2Z-4700 PCB-2Z-5070 PCB-2Z-5070 PCB-2Z-5070 PCB-ZZ-4940 PCB-02-26720	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 Minimum Curing before Stripping Shutter - B1 D) Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 Construct Pile Cap - B2 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 Scaffolding and Rebar Fixing - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 Minimum Curing before Stripping Shutter - B2 D Break Piles to Cut Off Level (+2.08mPD) and Blind - B3 Construct Pile Cap - B3 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3 Scaffolding and Rebar Fixing - B3 PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3 Scaffolding and Rebar Fixing - B3 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3 PCB - Scaffolding+Embbed Rebar Fixing+MEP - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 Minimum Curing before Stripping Shutter - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 Minimum Curing before Stripping Shutter - B3 PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B	7 1 2 3 10 4 7 2 7 1 2 7 1 2 7 1 2 3 10 4 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 1 2 7 1 2 7 1 2 4 10 2	03-Sep-16 12-Sep-16 13-Sep-16 08-Aug-16 19-Aug-16 31-Aug-16 05-Sep-16 13-Sep-16 15-Sep-16 24-Sep-16 26-Sep-16 26-Sep-16 12-Sep-16 17-Sep-16 26-Sep-16 28-Sep-16 07-Oct-16 08-Oct-16	10-Sep-16 12-Sep-16 14-Sep-16 30-Aug-16 03-Sep-16 12-Sep-16 12-Sep-16 23-Sep-16 23-Sep-16 24-Sep-16 27-Sep-16 10-Sep-16 15-Sep-16 24-Sep-16 24-Sep-16 27-Sep-16 06-Oct-16 07-Oct-16	3 MONTH ROLLING PRO

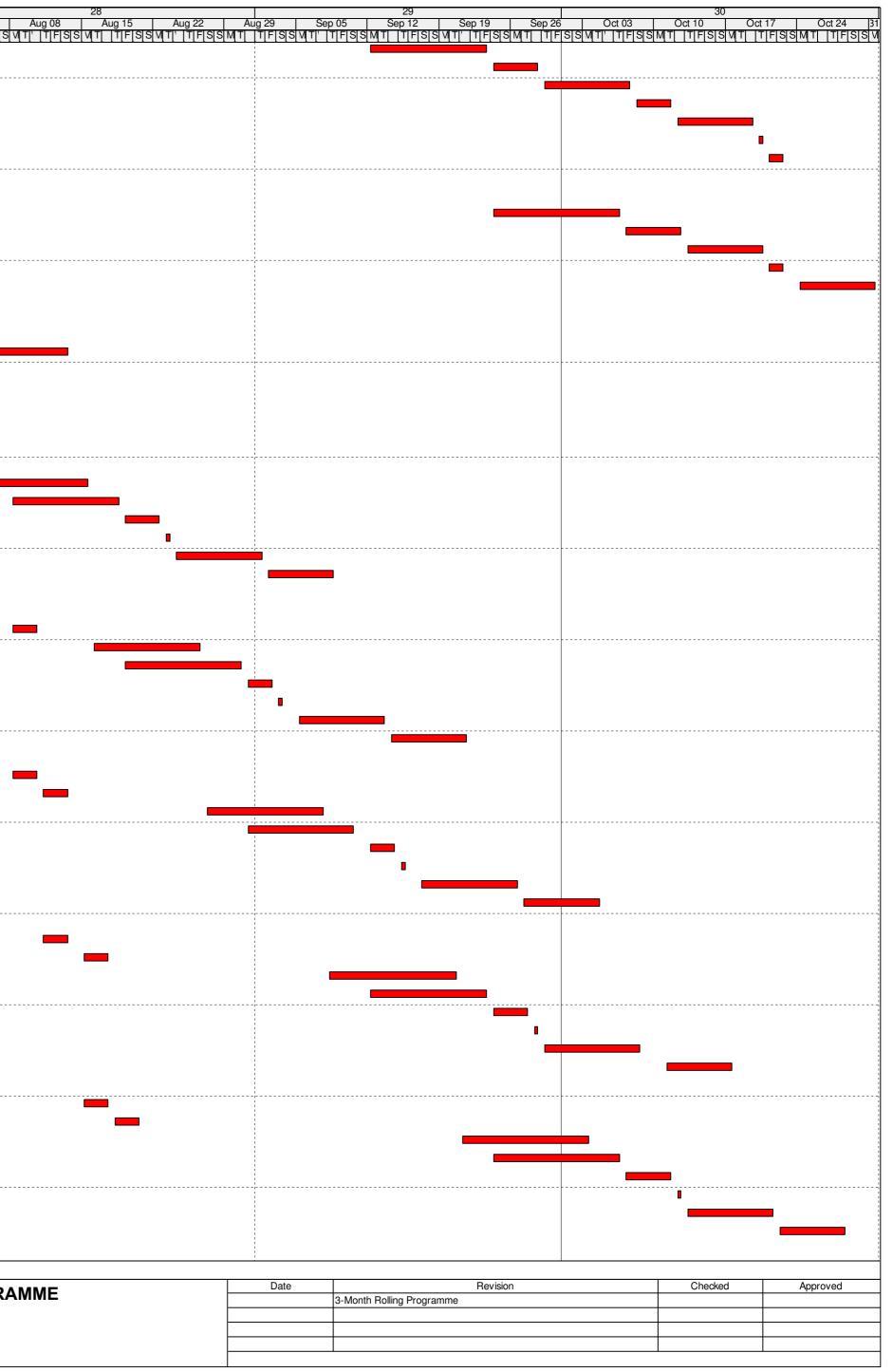


	Activity Namo		Ctort	Finish	27
y ID	Activity Name	Original Duration	Start	Finish	7 Jul 04 Jul 11 Jul 18 Jul 25 Aug 01
PCB-02-26740	Construct Pile Cap - B4	10	12-Sep-16	23-Sep-16	
PCB-02-26750	PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B4	4	24-Sep-16	28-Sep-16	
PCB-ZZ-4720	Scaffolding and Rebar Fixing - B4	7	29-Sep-16	07-Oct-16	
PCB-02-33910	PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B4	2	08-Oct-16	11-Oct-16	-
PCB-ZZ-5090	PCB - Scaffolding+Embbed Rebar Fixing+MEP - B4	7	12-Oct-16	19-Oct-16	
PCB-ZZ-4950	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B4	1	20-Oct-16	20-Oct-16	-
PCB-02-26760	Minimum Curing before Stripping Shutter - B4	2	21-Oct-16	22-Oct-16	-
B5 (to +19.0mF	D)				
PCB-02-26770	Break Piles to Cut Off Level (+2.08mPD) and Blind - B5	3	01-Aug-16	03-Aug-16	
PCB-02-26780	Construct Pile Cap - B5	10	24-Sep-16	06-Oct-16	
PCB-02-26790	PCB - Mega Columns B Kicker (+4.0 to +6.2mPD)- B5	4	07-Oct-16	12-Oct-16	
PCB-ZZ-4740	Scaffolding and Rebar Fixing - B5	7	13-Oct-16	20-Oct-16	
PCB-02-33920	PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B5	2	21-Oct-16	22-Oct-16	
PCB-ZZ-5110	PCB - Scaffolding+Embbed Rebar Fixing+MEP - B5	7	24-Oct-16	31-Oct-16	
ridline A					
	ored Piling Works				
PCB-XX-720	GLA - Reinstate Compacted Earth Platform and Earth Slope	12	01 Aug 16	12 Aug 16	
		12	01-Aug-16	13-Aug-16	
PCB-02-29200	ed Piles (15 Piles)	04	16-Jun-16 A	02 Aug 16	
	GLA - Bored Pile Proof Coring and TPIDC	24	16-Jun-16 A	03-Aug-16	
	RC Works (5 Mega Columns)				
Tie Beams Grid					
PCB-XX-1470	GL1 - Excavate, Pile Trimming and blinding Tie Beam A	3	01-Aug-16	03-Aug-16	
PCB-XX-1500	GL1 - Excavate, Pile Trimming and blinding Tie Beam B	3	04-Aug-16	06-Aug-16	
PCB-XX-1480	GL1 - Construct Tie Beam A	10	04-Aug-16	15-Aug-16	
PCB-XX-1510	GL1 - Construct Tie Beam B	10	08-Aug-16	18-Aug-16	
PCB-XX-1520	GL1 -Backfill to +4.28mPD on top of box culvert	3	19-Aug-16	22-Aug-16	
PCB-XX-1530	GL1 - Blinding to beam (middle)	1	23-Aug-16	23-Aug-16	
PCB-XX-1540	GL1 - Form and Cast beam (middle)	8	24-Aug-16	01-Sep-16	
PCB-XX-1550	GL1 - Backfill to ground level at Box Culvert Bay 15 to 17	6	02-Sep-16	08-Sep-16	
Tie Beams Grid				-	
PCB-XX-1370	GL2 - Excavate, Pile Trimming and blinding Tie Beam A	3	04-Aug-16	06-Aug-16	
PCB-XX-1400	GL2 - Excavate, Pile Trimming and blinding Tie Beam B	3	08-Aug-16	10-Aug-16	
PCB-XX-1380	GL2 - Construct Tie Beam A	10	16-Aug-16	26-Aug-16	_
PCB-XX-1410	GL2 - Construct Tie Beam B	10	19-Aug-16	30-Aug-16	
PCB-XX-1420	GL2 - Backfill to +4.28mPD on top of box culvert	3	31-Aug-16	02-Sep-16	
PCB-XX-1430	GL2 - Blinding to beam (middle)	1	03-Sep-16	03-Sep-16	
PCB-XX-1440	GL2 - Form and Cast beam (middle)	8	05-Sep-16	13-Sep-16	
PCB-XX-1450	GL2 - Backfill to ground level at Box Culvert Bay 12 to 14	6	14-Sep-16	21-Sep-16	
Tie Beams Grid				-	
PCB-XX-1670	GL3 - Excavate, Pile Trimming and blinding Tie Beam A	3	08-Aug-16	10-Aug-16	_
PCB-XX-1300	GL3 - Excavate, Pile Trimming and blinding Tie Beam B	3	11-Aug-16	13-Aug-16	_
PCB-XX-1280	GL3 - Construct Tie Beam A	10	27-Aug-16	07-Sep-16	
PCB-XX-1310	GL3 - Construct Tie Beam B	10	31-Aug-16	10-Sep-16	_
PCB-XX-1320	GL3 - Backfill to +4.28mPD on top of box culvert	3	12-Sep-16	14-Sep-16	
PCB-XX-1330	GL3 - Blinding to beam (middle)	1	15-Sep-16	15-Sep-16	
PCB-XX-1340	GL3 - Form and Cast beam (middle)	8	17-Sep-16	26-Sep-16	
PCB-XX-1680	GL3 - Backfill to ground level at Box Culvert Bay 9 to 11	6	27-Sep-16	04-Oct-16	
Tie Beams Grid					
PCB-XX-1170	GL4 - Excavate, Pile Trimming and blinding Tie Beam A	3	11-Aug-16	13-Aug-16	_
PCB-XX-1200	GL4 - Excavate, Pile Trimming and blinding Tie Beam B	3	15-Aug-16	17-Aug-16	_
PCB-XX-1180	GL4 - Construct Tie Beam A	10	08-Sep-16	20-Sep-16	_
PCB-XX-1210	GL4 - Construct Tie Beam B	10	12-Sep-16	23-Sep-16	
PCB-XX-1220	GL4 - Backfill to +4.28mPD on top of box culvert	3	24-Sep-16	27-Sep-16	
PCB-XX-1230	GL4 - Blinding to beam (middle)	1	28-Sep-16	28-Sep-16	_
PCB-XX-1240	GL4 - Form and Cast beam (middle)	8	29-Sep-16	08-Oct-16	
PCB-XX-1250	GL4 - Backfill to ground level at Box Culvert Bay 7 to 8	6	11-Oct-16	17-Oct-16	
Tie Beams Grid					
PCB-XX-1070	GL5 - Excavate, Pile Trimming and blinding Tie Beam A	3	15-Aug-16	17-Aug-16	
PCB-XX-1090	GL5 - Excavate, Pile Trimming and blinding Tie Beam B	3	18-Aug-16	20-Aug-16	
PCB-XX-1080	GL5 - Construct Tie Beam A	10	21-Sep-16	03-Oct-16	
PCB-XX-1100	GL5 - Construct Tie Beam B	10	24-Sep-16	06-Oct-16	
PCB-XX-1120	GL5 - Backfill to +4.28mPD on top of box culvert	3	07-Oct-16	11-Oct-16	
PCB-XX-1130	GL5 - Blinding to beam (middle)	1	12-Oct-16	12-Oct-16	
PCB-XX-1140	GL5 - Construct and Cast beam (middle)	8	13-Oct-16	21-Oct-16	
	GL5 - Backfill to ground level at Box Culvert Bay 4 to 6	6	22-Oct-16	28-Oct-16	
PCB-XX-1150					

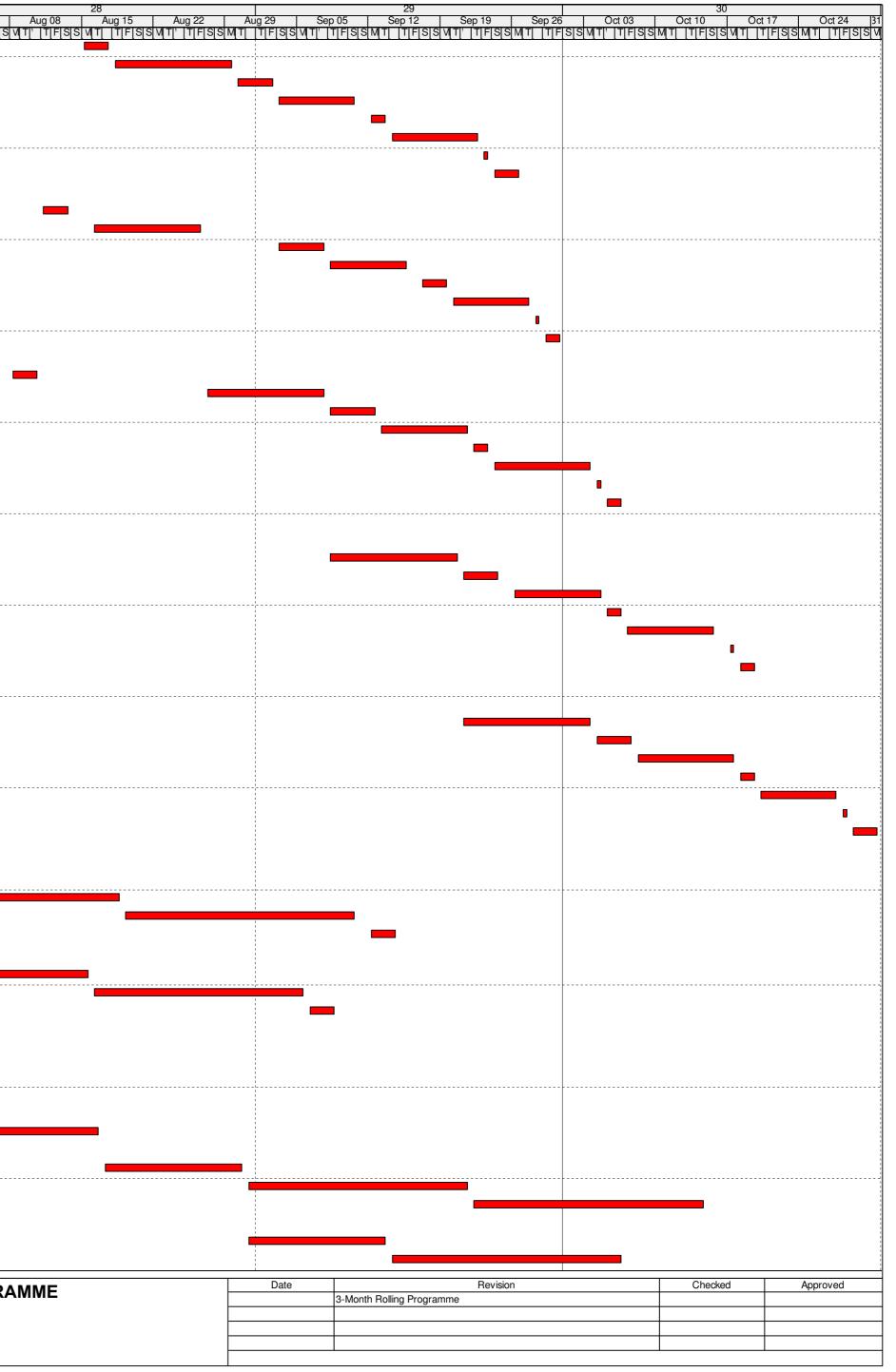
Remaining Work Critical Remaining Work

♦ Milestone

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	Activity Name	Original Duration	Start	Finish	27 27 Jul 04 Jul 11 Jul 18 Jul 25 FISIS MTT TIFISIS MTT TIFISIS MTT 'TIFISIS	Aug 01
PCB-02-34380	Break Piles to Cut Off Level (+2.08mPD) and Blind - A1	3	15-Aug-16	17-Aug-16		
PCB-02-35880	Construct Pile Cap - A1	10	18-Aug-16	29-Aug-16		
PCB-02-35890	PCB - Mega Columns J Kicker (+4.0 to +6.2mPD) - A1	4	30-Aug-16	02-Sep-16		
PCB-ZZ-5220 PCB-02-34580	Scaffolding and Rebar Fixing - A1 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A1	7	03-Sep-16 12-Sep-16	10-Sep-16 13-Sep-16		
PCB-02-34380	PCB - Wega Colorini T ix Sintite's and Cast (+0.2 to +10.5mPD) - AT PCB - Scaffolding+Embbed Rebar Fixing+MEP - A1	7	12-Sep-16	22-Sep-16		
PCB-ZZ-5230	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - A1	1	23-Sep-16	23-Sep-16		
PCB-02-35900	Minimum Curing before Stripping Shutter - A1	2	24-Sep-16	26-Sep-16		
A2 (to +19.0mP	D)					
PCB-02-35840	Break Piles to Cut Off Level (+2.08mPD) and Blind - A2	3	11-Aug-16	13-Aug-16		
PCB-02-35850	Construct Pile Cap - A2	10	16-Aug-16	26-Aug-16		
PCB-02-35860 PCB-ZZ-5240	PCB - Mega Columns J Kicker (+4.0 to +6.2mPD) - A2 Scaffolding and Rebar Fixing - A2	4	03-Sep-16 08-Sep-16	07-Sep-16 15-Sep-16		
PCB-02-34590	PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A2	2	17-Sep-16	19-Sep-16		
PCB-ZZ-5330	PCB - Scaffolding+Embbed Rebar Fixing+MEP - A2	7	20-Sep-16	27-Sep-16		
PCB-ZZ-5250	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - A2	1	28-Sep-16	28-Sep-16		
PCB-02-35870	Minimum Curing before Stripping Shutter - A2	2	29-Sep-16	30-Sep-16		
A3 (to +19.0mP	D)					
PCB-02-35180	Excavate and Break Piles to Cut Off Level (+2.08mPD) and Blind - A3	3	08-Aug-16	10-Aug-16		•
PCB-02-35300	Construct Pile Cap - A3	10	27-Aug-16	07-Sep-16		
PCB-02-35420 PCB-ZZ-5260	PCB - Mega Columns J Kicker (+4.0 to +6.2mPD) - A3 Scaffolding and Rebar Fixing - A3	4	08-Sep-16 13-Sep-16	12-Sep-16 21-Sep-16		
PCB-22-5260 PCB-02-34600	PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A3	2	13-Sep-16 22-Sep-16	21-Sep-16 23-Sep-16		
PCB-02-34000 PCB-ZZ-5340	PCB - Wega Colorini T ix Sintite's and Cast (+0.2 to +10.5mPD) - AS PCB - Scaffolding+Embbed Rebar Fixing+MEP - A3	7	22-Sep-10 24-Sep-16	03-Oct-16		
PCB-ZZ-5270	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - A3	1	04-Oct-16	04-Oct-16		
PCB-02-35830	Minimum Curing before Stripping Shutter - A3	2	05-Oct-16	06-Oct-16		
A4 (to +19.0mP	D)					
PCB-02-34500	Excavate and Break Piles to Cut Off Level (+2.08mPD) and Blind - A4	3	04-Aug-16	06-Aug-16		
PCB-02-34510	Construct Pile Cap - A4	10	08-Sep-16	20-Sep-16		
PCB-02-34520	PCB - Mega Columns J Kicker (+4.0 to +6.2mPD) - A4	4	21-Sep-16	24-Sep-16		
PCB-ZZ-5280 PCB-02-34610	Scaffolding and Rebar Fixing - A4 PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A4	7	26-Sep-16 05-Oct-16	04-Oct-16 06-Oct-16		
PCB-02-34610 PCB-ZZ-5350	PCB - Kiega Column Fix Sinuters and Cast (+6.2 to +16.5mPD) - A4 PCB - Scaffolding+Embbed Rebar Fixing+MEP - A4	7	05-Oct-16	15-Oct-16		
PCB-ZZ-5290	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - A4	1	17-Oct-16	17-Oct-16		
PCB-02-34530	Minimum Curing before Stripping Shutter -A4	2	18-Oct-16	19-Oct-16		
A5 (to +19.0mP	D)					
PCB-02-34540	Excavate and Break Piles to Cut Off Level (+2.08mPD) and Blind - A5	3	04-Aug-16	06-Aug-16		
PCB-02-34550	Construct Pile Cap - A5	10	21-Sep-16	03-Oct-16		
PCB-02-34560	PCB - Mega Columns J Kicker (+4.0 to +6.2mPD) - A5	4	04-Oct-16	07-Oct-16		
PCB-ZZ-5300 PCB-02-34620	Scaffolding and Rebar Fixing - A5	7	08-Oct-16	17-Oct-16		
PCB-02-34620 PCB-ZZ-5360	PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A5 PCB - Scaffolding+Embbed Rebar Fixing+MEP - A5	2	18-Oct-16 20-Oct-16	19-Oct-16 27-Oct-16		
PCB-ZZ-5310	PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - A5	1	28-Oct-16	28-Oct-16		
PCB-02-34570	Minimum Curing before Stripping Shutter - A5	2	29-Oct-16	31-Oct-16		
ommon U	tilities Enclosure					
Bay 5		<u></u>				
PCB-9A-400	CUE - Construct Base Slab of Bay 5	16	01-Aug-16	18-Aug-16		
PCB-9A-400 PCB-9A-410	CUE - Construct external/internal walls and Top Slab to Bay 5	20	19-Aug-16	10-Sep-16		
PCB-9A-430	CUE - Apply Waterproofing to Bay 5	3	12-Sep-16	14-Sep-16		
Bay 6			-			
PCB-9A-440	CUE - Construct Base Slab of Bay 6	16	30-Jul-16 A	15-Aug-16		
PCB-9A-450	CUE - Construct external/internal walls and Top Slab to Bay 6	18	16-Aug-16	05-Sep-16		
PCB-9A-470	CUE - Apply Waterproofing to Bay 6	3	06-Sep-16	08-Sep-16		
100 01 470	+ Λ					
Box Culver						
B <mark>ox Culver</mark> RC Structure	S					
Box Culver	est)					
Box Culver RC Structure Portion A2 (We	est)	24	16-May-16 A	02-Aug-16		
Box Culver RC Structure Portion A2 (We Portion A2 (W PCB-09-1150 PCB-09-1160	est) /est)	24 12	16-May-16 A 03-Aug-16	02-Aug-16 16-Aug-16		
Box Culver RC Structure Portion A2 (We Portion A2 (W PCB-09-1150 PCB-09-1160 Bay 19	est) //est) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24)	12	03-Aug-16	16-Aug-16		
Box Culver RC Structure Portion A2 (We Portion A2 (We PCB-09-1150 PCB-09-1160 Bay 19 PCB-09-1200-1	est) /est) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) BCA (A2E) Excavate and Construct PC20	12	03-Aug-16 17-Aug-16	16-Aug-16 30-Aug-16		
Box Culver RC Structure Portion A2 (We POB-09-1150 PCB-09-1160 Bay 19 PCB-09-1200-1 PCB-09-1200-2	est) //est) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) BCA (A2E) Excavate and Construct PC20 BCA (A2E) Construct Bay 19 Base Slab	12 12 18	03-Aug-16 17-Aug-16 31-Aug-16	16-Aug-16 30-Aug-16 21-Sep-16		
Box Culver RC Structure Portion A2 (We Portion A2 (We PCB-09-1150 PCB-09-1160 Bay 19 PCB-09-1200-1 PCB-09-1200-2 PCB-09-1200-3	est) /est) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) BCA (A2E) Excavate and Construct PC20	12	03-Aug-16 17-Aug-16	16-Aug-16 30-Aug-16		
Box Culver RC Structure Portion A2 (We Portion A2 (We PCB-09-1150 PCB-09-1160 Bay 19 PCB-09-1200-1 PCB-09-1200-2 PCB-09-1200-3 Bay 20	est) //est) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) BCA (A2E) Excavate and Construct PC20 BCA (A2E) Construct Bay 19 Base Slab	12 12 18	03-Aug-16 17-Aug-16 31-Aug-16 22-Sep-16	16-Aug-16 30-Aug-16 21-Sep-16 14-Oct-16		
Box Culver RC Structure Portion A2 (We POB-09-1150 PCB-09-1160 Bay 19 PCB-09-1200-1 PCB-09-1200-2 PCB-09-1200-3 Bay 20 PCB-09-1220-1	est) //est) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) BCA (A2E) Excavate and Construct PC20 BCA (A2E) Construct Bay 19 Base Slab BCA (A2E) Construct Bay 19 Wall and Roof Slab	12 12 18 18	03-Aug-16 17-Aug-16 31-Aug-16	16-Aug-16 30-Aug-16 21-Sep-16		
Box Culver RC Structure Portion A2 (We Portion A2 (We PCB-09-1150 PCB-09-1160 Bay 19 PCB-09-1200-1 PCB-09-1200-2 PCB-09-1200-3 Bay 20 PCB-09-1220-1 PCB-09-1220-2	Sest) Sest) Sest) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) BCA (A2E) Excavate and Construct PC20 BCA (A2E) Construct Bay 19 Base Slab BCA (A2E) Construct Bay 19 Base Slab BCA (A2E) Construct Bay 19 Wall and Roof Slab BCA (A2E) Excavate and Construct PC21	12 12 18 18 18	03-Aug-16 17-Aug-16 31-Aug-16 22-Sep-16 31-Aug-16	16-Aug-16 30-Aug-16 21-Sep-16 14-Oct-16 13-Sep-16		
Box Culver RC Structure Portion A2 (We Portion A2 (We PCB-09-1150 PCB-09-1150 Bay 19 PCB-09-1200-1 PCB-09-1200-2 PCB-09-1200-3 Bay 20 PCB-09-1220-1 PCB-09-1220-2	Sest) Jest) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) BCA (A2E) Excavate and Construct PC20 BCA (A2E) Construct Bay 19 Base Slab BCA (A2E) Construct Bay 19 Wall and Roof Slab BCA (A2E) Excavate and Construct PC21 BCA (A2E) Construct Bay 20 Base Slab	12 12 18 18 18	03-Aug-16 17-Aug-16 31-Aug-16 22-Sep-16 31-Aug-16	16-Aug-16 30-Aug-16 21-Sep-16 14-Oct-16 13-Sep-16	3 MONTH ROLLING	PROGRA
Box Culver RC Structure Portion A2 (We Portion A2 (We PCB-09-1150 PCB-09-1160 Bay 19 PCB-09-1200-1 PCB-09-1200-2 PCB-09-1200-3 Bay 20 PCB-09-1220-1	est) Jest) BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) BCA (A2E) Excavate and Construct PC20 BCA (A2E) Construct Bay 19 Base Slab BCA (A2E) Construct Bay 19 Wall and Roof Slab BCA (A2E) Excavate and Construct PC21 BCA (A2E) Construct Bay 20 Base Slab	12 12 18 18 18	03-Aug-16 17-Aug-16 31-Aug-16 22-Sep-16 31-Aug-16	16-Aug-16 30-Aug-16 21-Sep-16 14-Oct-16 13-Sep-16	3 MONTH ROLLING Page 10 of 1	



	Activity Name	Original	Start	Finish	27	
		Duration			7 Jul 04 Jul 11 Jul 18 Jul 25 FISISIV[T] T FISISIV[T] T FISISIV[T]' T FISISIV[T]' T FISISIV[T]' T FISISIV[T]' T FISISIV[T]' T FISISI	
	BCA (A2E) Construct Bay 20 Wall and Roof Slab	18	07-Oct-16	28-Oct-16		
Bay 21						
	BCA (A2E) Excavate and Construct PC22	12	24-Aug-16	06-Sep-16	_	
	BCA (A2E) Construct Bay 21 Base Slab BCA (A2E) Construct Bay 21 Wall and Roof Slab	18 18	07-Sep-16 29-Sep-16	28-Sep-16 21-Oct-16	-	
Bay 22	BCA (A2L) Construct Day 21 Wair and Hoor Stab	10	29-3ep-10	21-00-10		
-	BCA (A2E) Excavate and Construct PC23	12	07-Sep-16	21-Sep-16		
	BCA (A2E) Construct Bay 22 Base Slab	18	22-Sep-16	14-Oct-16	-	
	BCA (A2E) Construct Bay 22 Wall and Roof Slab	18	15-Oct-16	04-Nov-16		
Bay 23						
-	BCA (A2E) Excavate and Construct PC24	12	31-Aug-16	13-Sep-16		
PCB-09-1260-2	BCA (A2E) Construct Bay 23 Base Slab	18	14-Sep-16	06-Oct-16	-	
PCB-09-1260-3	BCA (A2E) Construct Bay 23 Wall and Roof Slab	18	07-Oct-16	28-Oct-16		
Bay 24						
	BCA (A2E) Excavate and Construct PC25	12	14-Sep-16	28-Sep-16		
	BCA (A2E) Construct Bay 24 Base Slab	18	29-Sep-16	21-Oct-16		
	BCA (A2E) Construct Bay 24 Wall and Roof Slab	18	22-Oct-16	11-Nov-16		
Portion B						
Portion B						
	BCA (B) Install S1 Level ELS	9	15-Jul-16 A	06-Aug-16		
	BCA (B) Excavation (45m) (Bays 25 to 27)	12	01-Aug-16	13-Aug-16		
Bay 25	BCA (B)and Construct PC26	10	20 Con 10	14-Oct-16		
	BCA (B) And Construct PC26 BCA (B) Construct Bay 25 Base Slab	12 18	29-Sep-16 15-Oct-16	04-Nov-16	-	
Bay 26		10	10-00-10	01-1001-10		
•	BCA (B) Excavate and Construct PC27	12	15-Oct-16	28-Oct-16		
	BCA (B) Construct Bay 26 Base Slab	18	29-Oct-16	18-Nov-16	-	
Bay 27			10 000 10			
	BCA (B) Excavate and Construct PC28	12	07-Oct-16	21-Oct-16		
PCB-09-1340-2	BCA (B) Construct Bay 27 Base Slab	18	22-Oct-16	11-Nov-16	-	
Seawater Pi	ump House					
	-					
RC Structures	5					
Foundations PCB-13A-750	SWP - Jetgrouting	77	11-Jul-16 A	07-Oct-16		
	SWP - Construct Pile caps & Tie beams	12	08-Oct-16	22-Oct-16	_	
Basement		12		22 000 10		
PCB-13A-150	SWP - Construct Basement Base Slab at -2.8mPD (Including Waterproofing)	12	24-Oct-16	05-Nov-16		
Northern Eo	ootbridge Links					
Pile Caps & P	lers					
E 11 1 1 4						
Footbridge 1						
Pier P1 - GL.A	NEB1(P1) - VSL Install Boof Frection Temp Footings above P1	8	01- A ug-16	09- A ug-16		
Pier P1 - GL.A PCB-03-980	NFB1(P1) - VSL Install Roof Erection Temp Footings above P1 NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1	8	01-Aug-16	09-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990	NFB1(P1) - VSL Install Roof Erection Temp Footings above P1 NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1	86	01-Aug-16 10-Aug-16	09-Aug-16 16-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1		10-Aug-16	16-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B		6				
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2	6	10-Aug-16 10-Aug-16	16-Aug-16 18-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2	6	10-Aug-16 10-Aug-16	16-Aug-16 18-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2	6 8 6	10-Aug-16 10-Aug-16 19-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment	6 8 6 3	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1290	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment	6 8 6 3	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1290 Footbridge 2 Pier P1 - GL.A	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment	6 8 6 3	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1290 Footbridge 2 Pier P1 - GL.A	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment NFB1(A) - Construct Abutment	6 8 6 3 10	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16 04-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16 15-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1290 Footbridge 2 Pier P1 - GL.A PCB-03-1060	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment NFB1(A) - Construct Abutment NFB1(A) - Construct Abutment	6 8 6 3 10 8	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16 04-Aug-16 01-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16 15-Aug-16 09-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1020 Footbridge 2 Pier P1 - GL.A PCB-03-1070 PCB-03-1070	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment NFB1(A) - Construct Abutment NFB2(P1) - VSL Install Roof Erection Temp Footings above P1 NFB2(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB2(P2) - VSL Install Roof Erection Temp Support Towers P1	6 8 6 3 10 8	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16 04-Aug-16 01-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16 15-Aug-16 09-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1020 Footbridge 2 Pier P1 - GL.A PCB-03-1070 PCB-03-1070	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment NFB1(A) - Construct Abutment NFB2(P1) - VSL Install Roof Erection Temp Footings above P1 NFB2(P1) - VSL Install Roof Erection Temp Support Towers P1	6 8 6 3 10 8 8 6	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16 04-Aug-16 01-Aug-16 18-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16 15-Aug-16 09-Aug-16 24-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1290 Footbridge 2 Pier P1 - GL.A PCB-03-1070 PCB-03-1070 PCB-03-1180 PCB-03-1190 Abutment	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment NFB1(A) - Construct Abutment NFB2(P1) - VSL Install Roof Erection Temp Footings above P1 NFB2(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 NFB2(P2) - VSL Install Roof Erection Temp Support Towers at P2	6 8 6 3 10 8 6 8	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16 04-Aug-16 01-Aug-16 18-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16 15-Aug-16 09-Aug-16 24-Aug-16 18-Aug-16 25-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1280 PCB-03-1060 PCB-03-1070 Pier P2 - GL.B PCB-03-1180 PCB-03-1190 Abutment PCB-03-1300	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment NFB1(A) - Construct Abutment NFB2(P1) - VSL Install Roof Erection Temp Footings above P1 NFB2(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 NFB2(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB2(P2) - VSL Install Roof Erection Temp Support Towers at P2	6 8 6 3 10 8 6 8 6 8 6	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16 04-Aug-16 01-Aug-16 18-Aug-16 10-Aug-16 19-Aug-16 04-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16 15-Aug-16 09-Aug-16 24-Aug-16 18-Aug-16 25-Aug-16 06-Aug-16		
Pier P1 - GL.A PCB-03-980 PCB-03-990 Pier P2 - GL.B PCB-03-1020 PCB-03-1020 PCB-03-1030 Abutment PCB-03-1280 PCB-03-1280 PCB-03-1290 Footbridge 2 Pier P1 - GL.A PCB-03-1070 PCB-03-1070 PCB-03-1180 PCB-03-1190 Abutment PCB-03-1300 PCB-03-1310	NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 NFB1(A) - Open Cut and Blind Excavation for Abutment NFB1(A) - Construct Abutment NFB2(P1) - VSL Install Roof Erection Temp Footings above P1 NFB2(P1) - VSL Install Roof Erection Temp Support Towers P1 NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 NFB2(P2) - VSL Install Roof Erection Temp Support Towers at P2	6 8 6 3 10 8 6 8 6	10-Aug-16 10-Aug-16 19-Aug-16 01-Aug-16 04-Aug-16 01-Aug-16 18-Aug-16 10-Aug-16 19-Aug-16	16-Aug-16 18-Aug-16 25-Aug-16 03-Aug-16 15-Aug-16 09-Aug-16 24-Aug-16 18-Aug-16 25-Aug-16		
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Abutment			L		
PCB-03-1320	NFB3(A) - Open Cut and Blind Excavation for Abutment	3	08-Aug-16	10-Aug-16	
PCB-03-1330	NFB3(A) - Construct Abutment	10	11-Aug-16	22-Aug-16	
Footbridge 4					
Pier P1 - GL.	Α				
PCB-03-1140	NFB4(P1) - VSL Install Roof Erection Temp Footings above P1	8	01-Aug-16	09-Aug-16	
PCB-03-1150	NFB4(P1) - VSL Install Roof Erection Temp Support Towers P1	6	18-Aug-16	24-Aug-16	
Pier P2 - GL.	В	· · · · ·			
PCB-03-1260	NFB4(P2) - VSL Install Roof Erection Temp Footings above P2	8	10-Aug-16	18-Aug-16	
PCB-03-1270	NFB4(P2) - VSL Install Roof Erection Temp Support Towers at P2	6	19-Aug-16	25-Aug-16	
Abutment		, i i i i i i i i i i i i i i i i i i i			
PCB-03-1340	NFB4(A) - Open Cut and Blind Excavation for Abutment	3	11-Aug-16	13-Aug-16	
PCB-03-1350	NFB4(A) - Construct Abutment	10	15-Aug-16	25-Aug-16	
Seawater	Cooling Mains and Chilled Water Supply				
Seawater In	take & Discharge				
RC Structures					
Seawater Ou	tall Culvert				
Stage 1					
PCB-14-2080	C2 - Contract Hy/2013/02 complete Bore Piling at Abutment (assumed)	49	03-May-16 A	15-Aug-16	
PCB-14-2030	SOC - Install Sheetpiles to Cofferdam	9	16-Aug-16	25-Aug-16	
PCB-14-2040	SOC - Excavation and ELS	16	26-Aug-16	13-Sep-16	
PCB-14-240	SOC - Construct Seawater Outfall Structure	40	14-Sep-16	02-Nov-16	
PCB-14-2090	C2 - Contract Hy/2013/02 Construct Abutment Pilecap and Wall (assumed)	74	16-Aug-16	12-Nov-16	

Actual Work	3 MONTH ROLLING PROGRAMME		Revision	Checked	Approved
Remaining Work	5 MONTH ROLLING PROGRAMME	3-1	Month Rolling Programme		
Critical Remaining Work	Page 12 of 12				
 ♦ Milestone 					
		I			



APPENDIX D

Event and Action Plan

Event/Action Plan for Air Quality

	EVENT		ACTI	ON	
		ET	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	ACTION						
		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

Name of Department: Highways Department

Contract No.: HY/2013/01



Monthly Summary Waste Flow Table for 2016

	Actu	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual	Quantities of	C&D Wastes	Generated	Monthly
Month	a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete (see Note 9)	c. Reused in the Contract	d. Reused in Other Projects (see Note 11)	e. Disposed as Public Fill (see Note 10)	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. 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)
January	3.209	0.233	0.000	2.079	1.130	0.000	145.240	0.935	0.000	1.200	0.123
February	1.526	0.025	0.000	0.000	1.526	0.000	74.800	0.000	0.000	0.000	0.125
March	3.698	0.364	0.000	0.099	3.599	0.036	100.720	1.908	0.000	0.000	0.170
April	3.300	0.605	0.000	0.198	3.102	0.000	102.030	0.000	0.000	0.000	0.169
May	1.016	0.264	0.000	0.000	1.016	0.000	88.010	1.062	0.000	2.600	0.278
June	0.903	0.038	0.000	0.000	0.903	5.382	139.740	1.197	0.000	0.000	0.262
Sub-total	13.652	1.529	0.000	2.376	11.276	5.418	650.540	5.102	0.000	3.800	1.127
July	1.863	0.220	0.000	1.238	0.625	21.896	16.520	0.000	0.000	0.600	0.445
August											
September											
October											
November											
December											
Total	15.515	1.749	0.000	3.614	11.901	27.314	667.060	5.102	0.000	4.400	1.572

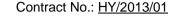
Total C&D waste generated = a+b+f+g+h+i+j+k

Total C&D waste generated (excluded excavated material) = g+h+i+j+k

Total C&D waste recycled = c+d+g+h+i

% of recycled C&D waste = (Total C&D waste generated - Total C&D waste recycled) / Total C&D waste generated

Name of Department: Highways Department





Notes: (1) The performance target are given in PS Clause 6(14)

(2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site.

- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m³.
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
- (6) Conversion factors for reporting purpose:
- in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³
- excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³
- C&D Waste = 0.9 tonnes/m³; bentonite slurry = 2.8 tonnes/m³
- Diesel density: 0.8kg/l
- (7) Numbers are rounded off to the nearest three decimal places.
- (8) The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill".
- (9) The "Hard Rock and Large Broken Concrete" were disposed as public fill.
- (10) The amount in "Disposed as Public Fill" included the "Hard Rock and Large Broken Concrete" disposed as public fill.
- (11) The item d "Reused in Other Projects" includes sand only. Other projects refer to Contracts No. HY/2010/02 and HY/2014/05. Inert C&D Materials were transferred to Contract No. HY/2010/02 in January 2016 and to Contract No. HY/2014/05 in March and April 2016.

Month	a. Estimated Volume of Excavated Marine Sediment Generated (m ³)	b. Estimated Volume of Accumulated Excavated Marine Sediment Treated (m ³)	c. Reused in the Contract (m ³)	d. Estimated Volume of Excavated Marine Sediment Reused in Other Project (m ³) ⁽²⁾	e. Estimated Volume of Treated Excavated Marine Sediment Stored on Site (Unused) (m ³)
			Year 2016		
Jan 2016	511	400	0	0	2155
Feb 2016	693	275	0	0	2430
Mar 2016	672	1,363	1215	0	2578
Apr 2016	259	756	700	0	2634
May 2016	287	402	0	0	3036
Jun 2016	240	336	2836	0	536
Jul 2016	331	464	1000	0	0
Total	2,993	3,996	5,751	0	0 ⁽¹⁾

Monthly Summary of Excavated Marine Sediment for 2016

Notes: (1) This presents the total quantity of unused treated excavated marine sediment stored on site during the reporting month. This figure includes 1,755 m³ of treated excavated marine sediment from 2015.



APPENDIX F

Environmental Licenses and Permits



Environmental License/ Permits /Notification Register

Date : July 2016							Date : July 2	016	
ltem No.	Per Work Area	mit/License o Applica Date	r Registration tion Reference	Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
1.	All Areas	29 Jul 2013	N/A	Environmental Permit for Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/G	6 Aug 2013	N/A	EPD	Superseded by EP-353/2009/H
2.	All Areas	16 Jan 2015	N/A	Environmental Permit for Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/H	19 Jan 2015	N/A	EPD	Superseded by EP-353/2009/I
3.	All Areas	30 Jun 2015	N/A	Environmental Permit for Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/I	17 Jul 2015	N/A	EPD	Superseded by EP-353/2009/J
4.	All Areas	18 Feb 2016	N/A	Environmental Permit for Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/J	25 Feb 2016	N/A	EPD	Superseded by EP-353/2009/K
5.	All Areas	24 Mar 2016	N/A	Environmental Permit for Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities	EP-353/2009/K	11 Apr 2016	N/A	EPD	
6.	All Areas	29 Apr 2014	H2620-LTR-EPD- AU-000006	Billing Account for disposal of construction waste	Billing Account No.: 7019944	16 May 2014	N/A	EPD	



Environmental License/ Permits /Notification Register

					-		Date : July 2	016	
ltem No.	Work	mit/License o Applica Date	r Registration tion Reference	Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Area			•					
7.	РСВ	30 Apr 2014	H2620-LTR- EPD- 000002	<u>Notification</u> that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373961	5 May 2014	N/A	EPD	
8.	WA2	30 Apr 2014	H2620-LTR- EPD- 000003	Notification that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373956	5 May 2014	N/A	EPD	
9.	WA3	30 Apr 2014	H2620-LTR-EPD- AU-000001	<u>Notification</u> that notifiable works are anticipated to commence (Form NA).	Acknowledge Receipt Ref. No. 373962	5 May 2014	N/A	EPD	
10.	PCB	30 May 2014	H2620-LTR-EPD- AU-000020	Registration as Chemical Waste Producer for disposal of spent batteries, used Iubrication oil and surplus paint at PCB area	WPN: 5213-951-L2846-01	8 Jul 2014	N/A	EPD	
11.	PCB	23 Jun 2014	In H2620-LTR- EPD-000017	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0683-14	3 Jul 2014	29 Dec 2014	EPD	Superseded by GW-RS0908-14



Environmental License/ Permits /Notification Register

Date : July 2016						016			
ltem No.	Work	mit/License o Applica Date	r Registration tion Reference	Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
12.	Area WA2	2 Jul 2014	H2620-LTR-LCJ- AU-000280	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out ER Office construction works from 19:00 to 23:00. (Non-designated area)	GW-RS0715-14	17 Jul 2014	15 Jan 2015	EPD	Superseded by GW-RS1034-14
13.	WA3	2 Jul 2014	H2620-LTR-LCJ- AU-000324	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out construction of JV site office from 19:00 to 23:00. (Non-designated)	GW-RS0716-14	17 Jul 2014	15 Jan 2015	EPD	Expired
14.	PCB	23 Jun 2014	H2620-LTR- EPD- 000527	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0908-14	3 Sep 2014	22 Dec 2014	EPD	Superseded by GW-RS1044-14
15.	РСВ	29 Sep 2014	H2620-LTR-EPD- AU-000034	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS1044-14	29 Sep 2014	24 Dec 2014	EPD	Superseded by GW-RS1300-14



Environmental License/ Permits /Notification Register

Date : July 2016									
ltem No.	Work	mit/License o Applica Date	r Registration tion Reference	Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
16.	Area WA2	12 Sep 2014	H2620-LTR-EPD- AU-000032	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out ER Office construction works from 19:00 to 23:00. (Non-designated area)	GW-RS1034-14	29 Sep 2014	28 Mar 2015	EPD	Expired
17.	WA4	17 Oct 2014	H2620-LTR-EPD- AU-000036	<u>CNP</u> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0814-14	20 Oct 2014	19 Apr 2015	EPD	Expired and replaced by GW- RW0171-15
18.	PCB	3 Nov 2014	H2620-LTR-EPD- AU-000040	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS1300-14	17 Nov 2014	16 Feb 2015	EPD	Superseded by GW-RS0087-15
19.	PCB	12 Jan 2015	H2620-LTR-EPD- AU-000046	CNP for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0087-15	26 Jan 2015	25 Apr 2015	EPD	Superseded by GW-RS0308-15



Environmental License/ Permits /Notification Register

							Date : July 2	016	
ltem No.	Per Work Area	mit/License o Applica Date	r Registration tion Reference	Permit/License/ Notification/ Registration Description	Permit/License/ Registration Number	lssue/Start Date	Expiry Date	Issuing Office	Remark
20.	PCB	12 Mar 2015	H2620-LTR-EPD- AU-000051	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0308-15	26 Mar 2015	25 Jun 2015	EPD	Superseded by GW-RS0476-15
21.	РСВ	31 Jul 2014	H2620-LTR-EPD- AU-000038	Water Discharge License for construction works on PCB island	WT00020335-2014	13 Nov 2014	30 Nov 2019	EPD	
22.	WA4	27 Mar 2015	H2620-LTR-EPD- AU-000054	<u>CNP</u> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0171-15	20 Apr 2015	19 Oct 2015	EPD	Superseded by GW-RW0351-15
23.	РСВ	15 Apr 2015	H2620-LTR-EPD- AU-000057	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0476-15	1 May 2015	31 Jul 2015	EPD	Superseded by GW-RS0685-15



Environmental License/ Permits /Notification Register

Date : July 2016									
ltem No.	Per Work	mit/License o Applica Date	r Registration tion Reference	Permit/License/ Notification/ Registration	Permit/License/ Registration Number	Issue/Start Date	Expiry Date	Issuing Office	Remark
	Area	Date	Reference	Description					
24.	PCB	9 Jun 2015	H2620-LTR-EPD- AU-000063	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0685-15	1 Jul 2015	30 Sep 2015	EPD	Superseded by GW-RS0877-15
25.	WA4	29 Jun 2015	H2620-LTR-EPD- AU-000066	<u>CNP</u> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0351-15	17 Jul 2015	12 Jan 2016	EPD	Expired. Replaced by GW- RW0003-16
26.	PCB	27 Jul 2015	H2620-LTR-EPD- AU-000069	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS0877-15	10 Aug 2015	09 Nov 2015	EPD	Superseded by GW-RS1016-15
27.	PCB	2 Sep 2015	H2620-LTR-EPD- AU-000072	CNP for the use of powered mechanical equipment for the purpose of carry out pre- drill and bore piling works from 19:00 to 23:00 and 23:00 to 07:00. (Non- designated area)	GW-RS1016-15	18 Sep 2015	17 Dec 2015	EPD	Superseded by GW-RS1195-15



Environmental License/ Permits /Notification Register

	-						Date : July 2	016	
ltem No.	Per Work Area	mit/License o Applica Date	r Registration tion Reference	Permit/License/ Notification/ Permit/License/ Registration Registration Number Description		lssue/Start Date	Expiry Date	Issuing Office	Remark
28.	PCB	22 Oct 2015	H2620-LTR-EPD- AU-000075	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS1195-15	9 Nov 2015	8 Feb 2016	EPD	Superseded by GW-RS1444-15
29.	РСВ	17 Dec 2015	H2620-LTR-EPD- AU-000076	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS1444-15	31 Dec 2015	30 Mar 2016	EPD	Superseded by GW-RS0191-16
30.	WA4	24 Dec 2015	H2620-LTR-EPD- AU-000080	<u>CNP</u> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0003-16	13 Jan 2016	6 Jul 2016	EPD	Superseded by GW-RW0394-16
31.	PCB	17 Feb 2016	H2620-LTR-EPD- AU-000083	CNP for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0191-16	3 Mar 2016	2 Jun 2016	EPD	Superseded by GW-RS0543-16



Environmental License/ Permits /Notification Register

				-			Date : July 2	016	
Item	Permit/License or Registration Application			Permit/License/ Notification/	Permit/License/	Issue/Start	Expiry	Issuing Office	Remark
No.	Work Area	Date	Reference	Registration Description	Registration Number	Date	Date		
32.	РСВ	18 May 2016	H2620-LTR-EPD- AU-000086	<u>CNP</u> for the use of powered mechanical equipment for the purpose of carry out works from 19:00 to 23:00 and 23:00 to 07:00. (Non-designated area)	GW-RS0543-16	2 Jun 2016	1 Sep 2016	EPD	
33.	WA4	20 Jun 2016	H2620-LTR-EPD- AU-000089	<u>CNP</u> for the use of powered mechanical equipment from 19:00 to 23:00. (Non-designated area)	GW-RW0394-16	07 Jul 2016	06 Jan 2017	EPD	



APPENDIX G

Implementation Schedule for Environmental Mitigation Measures (EMIS)

Contract No. HY/2013/01 – Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Passenger Clearance Building

Implementation Schedule for Environmental Mitigation Measures

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Air Quality								
S5.5.6.1	A1	 The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation 	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm ⁻³ and 260 µgm ⁻³ , respectively)	V
S5.5.6.2	A2	 Proper watering of exposed spoil should be undertaken throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; 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; 	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 μgm ⁻³ and 260 μgm ⁻³ , respectively)	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	for the measures to achieve?	Implementation Status
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; 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; 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; 	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm ⁻³ and 260 µgm ⁻³ , respectively)	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
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; 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 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. 	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	All construction sites	Construction stage	To control the dust impact to within the HKAQO and TM- EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm ⁻³ and 260 µgm ⁻³ , respectively)	V
S5.5.6.4	A3	The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control construction dust	Contractor	All construction sites	Construction stage	To control the dust impact	1
S5.5.6.5	A4	Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	Control construction dust	Engineer	All construction sites	Design Stage	Air Pollution Control (Construction Dust) Regulation	V
S5.5.6.5	A5	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period.	Contractor	Selected representative dust monitoring station	Construction stage	 Air Pollution Control (Construction Dust) Regulation To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm⁻³ and 260 µgm⁻³, respectively) 	√ (The dust monitoring works under EM&A programme for the Contract are covered by Contract No. HY/2010/02 and Contract No. HY/2011/03.)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S5.5.7.1	A6	 The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant: Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; 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. 	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period.	Contractor	Selected representative dust monitoring station	Construction stage	 Air Pollution Control (Construction Dust) Regulation To control the dust impact to within the HKAQO and TM-EIA criteria (Ref. 1- hr and 24hr TSP levels are 500 µgm⁻³ and 260 µgm⁻³, respectively) 	N/A
S5.5.2.7	A7	 The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point: All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points. 	Control construction dust	Contractor	All construction sites	Construction stage	Air Pollution Control (Construction Dust) Regulation	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
	-	(Air borne)						
S6.4.10	N1	 Use of good site practices to limit noise emissions by considering the following: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	Noise Control Ordinance	
S6.4.11	N2	 Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period. 	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	Noise Control Ordinance Annex 5, TM- EIA	N/A
S6.4.12	N3	 Install movable noise barriers (typically density @14kg/m²), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw. 	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	 Noise Control Ordinance Annex 5, TM- EIA 75dB(A) for residential premises The movable barrier should achieve at least 5dB(A) and the full enclosure should be 	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
S6.4.13	N4	 Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards. 	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	stage	 Noise Control Ordinance & its TM Annex 5, TM- EIA 	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	 Noise Control Ordinance Annex 5, TM- EIA 	V
/	N6	6) Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representative noise monitoring station	Construction stage	 Noise Control Ordinance Annex 5, TM- EIA 75dB(A) for residential premises 	√ (The noise monitoring works under EM&A programme for the Contract are covered by Contract No. HY/2010/02.)
Sediment		L				1		1
S7.3	S1	 The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate. 	Develop sediment disposal arrangement	Engineer	All construction sites	Design stage	Waste Disposal Ordinance ETW B TC 34/2002	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Waste Mana	agement (Construction Waste)						
S8.3.8	WM1	 Construction and Demolition Material 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 Waste Management Plan similar to ETW BTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation. 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETW BTC 19/2005	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
\$8.3.9- \$8.3.11	WM2	 <u>C&D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TC 19/2005 	V
		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.						
\$8.2.12- \$8.3.15	WM3	 <u>Chemical Waste</u> 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 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	 Waste Disposal (Chemical Waste) General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	
		incompatible materials are adequately separated.						

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
		 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. 						V
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. Night soil should be collected by licensed collectors regularly. 	Proper handling of sewage from worker to avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	V
S8.3.17	WM5	 General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by 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, aluminum cans, plastic bottles etc., should be provided. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Water Qual	ity (Constr	uction Phase)						
Water Qual	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: 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; 	To control construction water quality	Contractor	Land-based works areas	Construction stage	TM-EIAO	N
		 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; 						

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	M-EIAO	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Ecology (C	onstructio	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	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	TM-Water	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	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction		V
S10.7	E8	 Control vessel speed Skipper training Predefined and regular routes for working vessels; avoid Brother Islands. 	Minimise marine traffic disturbance on dolphins	Contractor	Marine Traffic	During construction		N/A
Fisheries								
S11.7	F4	 Maritime Oil Spill Response Plan (MOSRP); Contingency plan. 	Minimise impacts on marine water quality impacts	Marine Department	HKBCF	During operation		N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Landscape	& Visual (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; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; Protection measures for the trees to be retained during construction activities; Optimizing the sizes and spacing of the bridge columns; Finetuning 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, 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; and Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF. 	Minimise visual & landscape impact	Detailed designer	HKBCF	Design Stage		N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	What requirements or standards for the measures to achieve?	Implementation Status
Landscape a	& Visual (C	Construction Phase)						
S14.3.3.3	LV2	 Mitigate both Landscape and Visual Impacts G1. Grass-hydroseed bare soil surface and stock pile areas. G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic. G3. Not applicable as this is for HKLR. G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF G5. Vegetation reinstatement and upgrading to disturbed areas G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed G7. Providing planting area around peripheral of HKBCF for tree planting screening effect; G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall. G9. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enchance "natural-look" of the new coastline. 	Minimise visual & landscape impact	Contractor	HKBCF	Construction stage		N/A
S14.3.3.3	LV3	Mitigate Visual Impacts V1.Minimize time for construction activities during construction period. V2.Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.						for V1. N/A for V2.

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EM&A								
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	Control EM&A Performance	Project Proponent	All construction sites		EIAO Guidance Note No.4/2002 TM-EIAO	V
S15.5 - S15.6	EM2	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Contractor	All construction sites		EIAO Guidance Note No.4/2002 TM-EIAO	V

Legends: $\sqrt{}$ = 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	Cumulative Statistics					
hoporting i onou	Complaints	Notifications of Summons	Successful Prosecutions			
This reporting period	0	0	0			
From commencement date of contract to end of reporting month	2	0	0			



APPENDIX I

Environmental Site Inspection Schedule



	July 2016								
Sunday	Monday	Tueday	Wednesday	Thursday	Friday	Saturday			
	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug			
			Site Inspection						
7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug			
			Site Inspection						
14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug			
			Site Inspection						
21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug			
			Site Inspection						
28-Aug	29-Aug	30-Aug	31-Aug	1-Sep	2-Sep	3-Sep			
			Site Inspection						