

Your ref.
Our ref. 5126871/19.10/OC080/KC/HY

Date: 18 January 2017

By Post and e-mail (Michael.Lee@lcwjt.com)

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

Attn: Mr. Michael Lee

Dear Mr. Lee,

**Contract No. HY/2013/01
Hong Kong – Zhuhai – Macao Bridge
Hong Kong Boundary Crossing Facilities – Passenger Clearance Building
Certification of Quarterly EM&A Report No. 8 (Revision 3)**

Atkins China Limited certifies, in the capacity of Environmental Team Leader, that the Quarterly EM&A Report No. 8 (Revision 3) conforms the requirements provided in Section 16.4 of the Updated Environmental Monitoring and Audit Manual for HKBCF (Version 1.0).

**Yours faithfully,
for and on behalf of
Atkins China Limited**



**Keith Chau
Environmental Team Leader**

cc.

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

18 January 2017

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.
The PRE's Office
5 Ying Hei Road, Tung Chung, Lantau
Hong Kong

Attention: Mr. 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
Quarterly EM&A Report No. 8 for July 2016 to September 2016**

Reference is made to the Environmental Team's submission of Quarterly Environmental Monitoring & Audit Report No. 8 for July 2016 to September 2016 (Revision 3) certified by the ET Leader (ET's ref.: "5126871/19.10/OC080/KC/HY" dated 18 January 2017) and provided to us via e-mail on 18 January 2017.

We are pleased to inform you that we have no adverse comment on the captioned Quarterly Environmental Monitoring & Audit Report for July 2016 to September 2016.

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

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



Raymond Dai
Independent Environmental Checker

| | | | |
|------|--------|-----------------|---------------------|
| c.c. | HyD | Mr. Vico Cheung | (By Fax: 3188 6614) |
| | HyD | Ms. Lowell Chiu | (By Fax: 3188 6614) |
| | Atkins | Mr. Keith Chau | (By Fax: 2890 6343) |
| | LCWJV | Mr. Owen Leung | (By Fax: 3621 0180) |

Internal: DY, YH, ENPO Site

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Contract No. HY/2013/01

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

**Quarterly EM&A Report No. 8
(Covering the Period from 1 July 2016 to 30 September 2016)**

6 January 2017

Revision 3

Main Contractor



**Leighton - Chun Wo
Joint Venture**

Environmental Team

ATKINS



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Executive Summary

This Quarterly 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 eighth Quarterly EM&A Report for the Contract which summaries findings of the EM&A works during the reporting period from 1 July to 30 September 2016.

Environmental Monitoring and Audit Progress

The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF. The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6, 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 environmental site inspection during the reporting period are listed below:

| Environmental Site Inspection Date | | |
|------------------------------------|----------------------|------------------|
| July 2016 | August 2016 | September 2016 |
| 6, 13, 20 and 27 | 3, 10, 17, 24 and 31 | 7, 14, 21 and 28 |

Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at station AMS6 shall be referred to the monthly EM&A Reports (for July, August and September 2016) 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.

Implementation of Environmental Measures

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. Potential environmental impacts due to the construction activities were monitored and reviewed.

Complaint Log

There was no complaint received in relation to the environmental impact during the reporting period.



Notifications of Summons and Successful Prosecutions

There was no notification of summon or prosecution received during this reporting period.

Reporting Change

There was no reporting change during the reporting period.

1 Introduction

1.1 Basic Project Information

- 1.1.1 This Quarterly 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 commenced on 6 October 2014. The works areas of the Contract are shown in **Appendix A**.
- 1.1.3 This is the eighth Quarterly EM&A Report for the Contract which summarizes the audit findings of the EM&A programme during the reporting period from 1 July to 30 September 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 Hong Kong Limited) | Environmental Project Office Leader | Y. H. Hui | 3465 2888 | 3465 2899 |
| | Independent Environmental Checker | Raymond Dai | 3465 2888 | 3465 2899 |
| Contractor (Leighton – Chun Wo Joint Venture) | Project Manager | Owen Leung | 9232 5750 | 3621 0180 |
| | Environmental Officer | Michael Lee | 6461 8635 | 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:

Land-Based Work

- Piling test (WA1);
- Bulk Excavation at Box Culvert (WA1)
- Bulk Excavation at Seawater pump house and District Cooling System (DCS) outfall (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 and Column (WA1);
- Suspended Slab Construction (WA1);
- Marine Mud Treatment (WA1);
- Ground floor Base Slab Construction (WA1);
- Backfilling (WA1);
- Mega Column Construction (WA1);
- Reinforced Concrete Structure Works at Common Utilities Enclosure (WA1);
- Bored Piling 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);
- Launch Rail Installation (WA1);
- Facade Bracket for Cabins (WA1);
- Segment Travelling works (WA1);
- Mechanical, Electrical, and Plumbing High Level Containment (WA1);
- Steel Roof Erection works (WA1);
- Trolley Removal works (WA1);
- Loading and Unloading of Steel Roof Segment at Temporary Loading and Unloading Point (WA1);
- District Cooling System Pipework installation (WA1);
- Water pump pit top slab (WA1); and
- Plinth construction (WA1).

Marine-based work

- Delivery of Steel Roof Segment by Marine Transportation.

2 EM&A Requirement

2.1 Summary of EM&A Requirements

- 2.1.1 The EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works and Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF. The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 and noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract Nos. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.
- 2.1.2 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 impact air quality monitoring location (AMS7) was relocated to a nearby air sensitive receiver, Chu Kong Air-Sea Union Transportation Co. Ltd. (AMS7A), from 5 February 2015 to 30 December 2015. The alternative 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. 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 A summary of air and noise monitoring locations are presented in **Table 2.1**. The location of air quality and noise monitoring stations are shown as in **Figure 2.1** and **Figure 2.2**, respectively.

Table 2.1 Summary of Impact EM&A Requirements

| Environmental Monitoring | ID | Location Description |
|--------------------------|--------------------------|---|
| Air Quality | AMS6 ⁽¹⁾ | Dragonair/CNAC (Group) Building |
| | AMS7 ^{(1),(2)} | Hong Kong SkyCity Marriott Hotel |
| Noise | NMS2 ⁽³⁾ | Seaview Crescent |
| | NMS3B ^{(3),(4)} | Site Boundary of Site Office Area at Works Area WA2 |

Remarks:

- (1) The ET of this Contract should conduct impact air quality monitoring at the Air Monitoring Station 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.
- (3) 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.
- (4) The Action and Limit Levels for schools will be applied for this alternative monitoring location.

2.2 Monitoring Requirements

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

2.3 Action and Limit Levels

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

Table 2.2 Action and Limit Levels for 1-hour TSP

| Monitoring Station | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|---|--|---------------------------------------|
| AMS6 – Dragonair/CNAC (Group) Building (HKIA) | 360 | 500 |
| AMS7 – Hong Kong SkyCity Marriott Hotel | 370 | |

Table 2.3 Action and Limit Levels for 24-hour TSP

| Monitoring Station | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|---|--|---------------------------------------|
| AMS6 – Dragonair/CNAC (Group) Building (HKIA) | 173 | 260 |
| AMS7 – Hong Kong SkyCity Marriott Hotel | 183 | |

- 2.3.2 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 quarterly EM&A Report.
- 2.3.3 The Action and Limit Levels for construction noise are defined in **Table 2.4**.

Table 2.4 Action and Limit Level for Construction Noise

| 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.

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

- 2.3.4 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 quarterly EM&A Report.

2.4 Event Action Plans

- 2.4.1 The Event Actions Plans for air quality and noise are provided in **Appendix D**.



2.5 Mitigation Measures

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

3 Environmental Monitoring and Audit

3.1 Air Quality Monitoring Results

- 3.1.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports (for July, August and September 2016) prepared for Contract Nos. HY/2011/03 and HY/2010/02, respectively.
- 3.1.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Reports (for July, August and September 2016) prepared by Contract No. HY/2011/03.
- 3.1.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 recorded by the ET of Contract No. HY/2010/02 during the reporting period.

3.2 Noise Monitoring Results

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

3.3 Implementation of Environmental Measures

- 3.3.1 An incident in relation to silty surface runoff was notified by Independent Environmental Checker on 18 August 2016. The Contractor carried out a site inspection immediately to check the site condition on 18 August 2016. It was found that surface runoff was pumped out from the basement of a building to sedimentation tanks. However, there was malfunction of water pumps causing overflow of silty water from sedimentation tanks. To rectify the situation, the Contractor provided an additional wastewater treatment facility on-site on 19 August 2016. All surface runoff was pumped into the sedimentation tanks and then to the additional wastewater treatment facility prior to discharge. The ET Leader also carried out a site inspection on 24 August 2016 to check the site condition and no silty water discharge was observed. To prevent the overflow of sediment tanks, the Contractor has provided a training for all frontline staff on the requirements of wastewater treatment and actions to be taken when there is malfunction of sedimentation tanks and/or wastewater treatment facility.
- 3.3.2 An incident in relation to direct discharge of wastewater without treatment from drainage pipes was reported by Environmental Site Supervisor of ENPO on 21 September 2016. The Contractor and ER also found the direct discharge of wastewater on the same day. ET was informed the incident by Contractor at the end of site inspection on 21 September 2016. ET requested Contractor to stop the discharge immediately after notified the incident. The Contractor stopped the discharge immediately. It was found that one of the dosage pumps of the wastewater treatment system was broken down and insufficient chemical was being pumped into the treatment system. An additional treatment facility and sedimentation tank were provided on site to enhance the wastewater treatment system. The ET carried out a few site inspections during the reporting month to check the wastewater treatment system and provided recommendations for further improvement.

- 3.3.3 In response to the site audit findings, the Contractor carried out corrective actions. Details of site audit findings and the corrective actions during the reporting period are presented in **Appendix F**.
- 3.3.4 The Contractor waters 8 times per day on all exposed soil within the Contract site and associated works areas when construction activities are being undertaken.
- 3.3.5 According to Contractor's information, no steel roof segment was delivered by marine transportation in July 2016. The marine traffic records and geographical plots of all vessels tracks were prepared and submitted to the ER, ETL and IEC/ ENPO directly by the Contractor. It was noted that the marine traffic records and geographical plots in August and September 2016 were submitted out of the allowed submission time frame (i.e. within 3 weeks after the reporting month) as per Section 6.4.3 of the Monthly EM&A Report for August and September 2016. The Contractor has been reminded to submit these information to all relevant parties on time. The marine traffic records and geographical plots in August and September will be reported in next reporting period.
- 3.3.6 Training was provided for barge operators in accordance with the Regular Marine Travel Routes Plan and relevant records were kept properly.
- 3.3.7 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. Most of the necessary mitigation measures were implemented properly.

3.4 Advice on the Solid and Liquid Waste Management Status

- 3.4.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 3.4.2 Excavated marine sediment was generated and treated using cement solidification/stabilization (Cement S/S) techniques in July 2016 only. The treated marine sediment was reused within the Contract site in July 2016 only. No marine sediment was generated/treated and no treated marine sediment was reused in August and September 2016. 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.
- 3.4.3 The summary of waste flow table is detailed in **Appendix G**.
- 3.4.4 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the *Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes*.

3.5 Environmental Licenses and Permits

- 3.5.1 The valid environmental licenses and permits during the reporting period are summarized in **Appendix H**.

4 Summary of Exceedance, Complaint, Notification of Summons and Successful Prosecution

4.1 Summary of Exceedance of the Environmental Quality Performance Limit

- 4.1.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Reports (for July, August and September 2016) prepared by Contract No. HY/2011/03.
- 4.1.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.



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

4.2 Summary of Complaints, Notification of Summons and Successful Prosecution

- 4.2.1 There was no complaint received in relation to the environmental impact during the reporting period. No notification of summons and prosecution was received during the reporting period.
- 4.2.2 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix I**.



5 Comments, Recommendations and Conclusion

5.1 Comments

- 5.1.1 According to the environmental site inspections undertaken during the reporting period, the following recommendations were provided:
- The Contractor was reminded to provide drip trays for the chemical containers.
 - The Contractor was reminded to remove general/ construction waste regularly.
 - The Contractor was reminded to provide treatment facilities with sufficient capacity and treat all wastewater generated on-site properly before discharge.
 - The Contractor is reminded to provide proper labels for the chemical drums. The Contractor was reminded to clear the rubbish on the ground.
 - The Contractor was reminded to provide water spraying on the haul road.
 - The Contractor was reminded to clear the stagnant water / chemicals inside the drip tray.
 - The Contractor was reminded to close the doors of power room when the crawler crane is in operation.
 - The Contractor was reminded to clear the oil stain on the ground.
- 5.1.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix E**. Most of the necessary mitigation measures were implemented properly.

5.2 Recommendations

- 5.2.1 With implementation of the recommended environmental mitigation measures, the contract's environmental impacts were considered environmentally acceptable. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented.
- 5.2.2 The recommended environmental mitigation measures, as included in the EM&A programme, effectively minimize the potential environmental impacts from the contract. Also, the EM&A programme effectively monitored the environmental impacts from the construction activities and ensure the proper implementation of mitigation measures. No particular recommendation was advised for the improvement of the programme.



5.3 Conclusions

- 5.3.1 The site preparation work of the Contract started on 26 September 2014 and the construction works of the Contract commenced on 6 October 2014. This is the eighth Quarterly EM&A Report summaries findings of the EM&A works during the reporting period from 1 July to 30 September 2016.
- 5.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A Reports (for July, August and September 2016) prepared by Contract No. HY/2011/03.
- 5.3.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.4 There was no Action and Limit Level exceedance for noise recorded at NMS2 and NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 5.3.5 Environmental site inspections were carried out on 6, 13, 20 and 27 July, 3, 10, 17, 24 and 31 August and 7, 14, 21 and 28 September 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 5.3.6 There was no complaint received in relation to the environmental impact during the reporting period.
- 5.3.7 No notification of summons and successful prosecution was received during the reporting period.



FIGURES

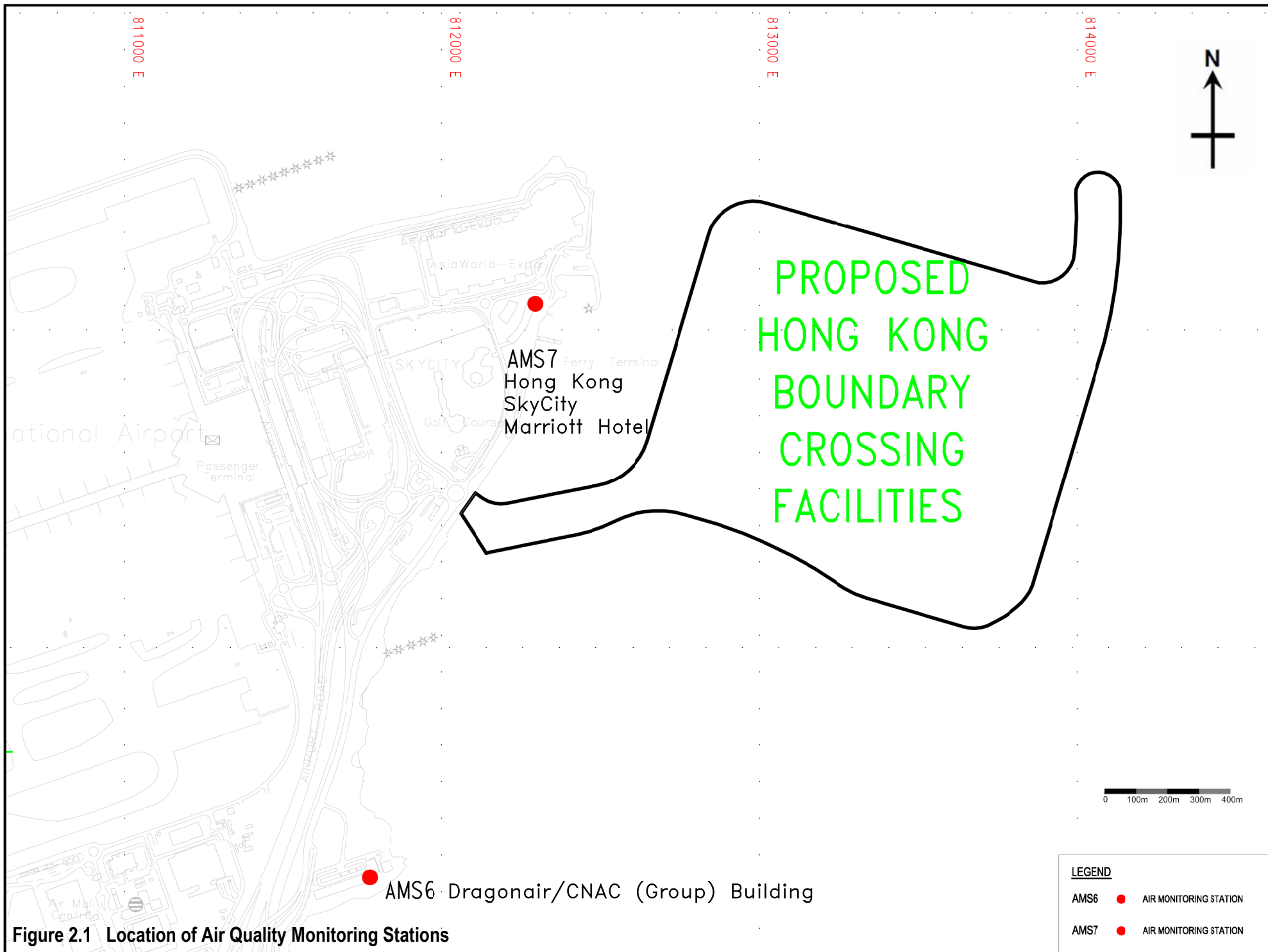
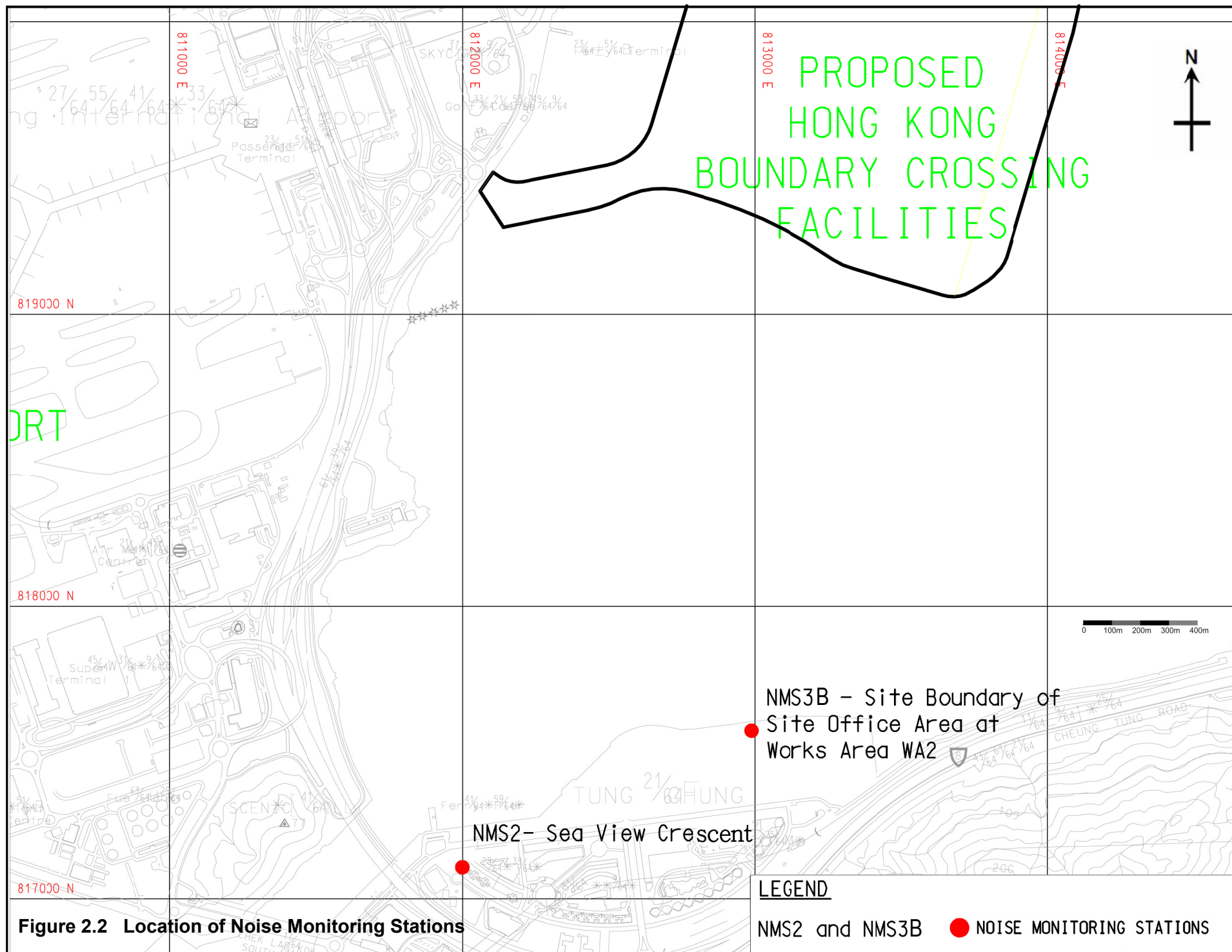


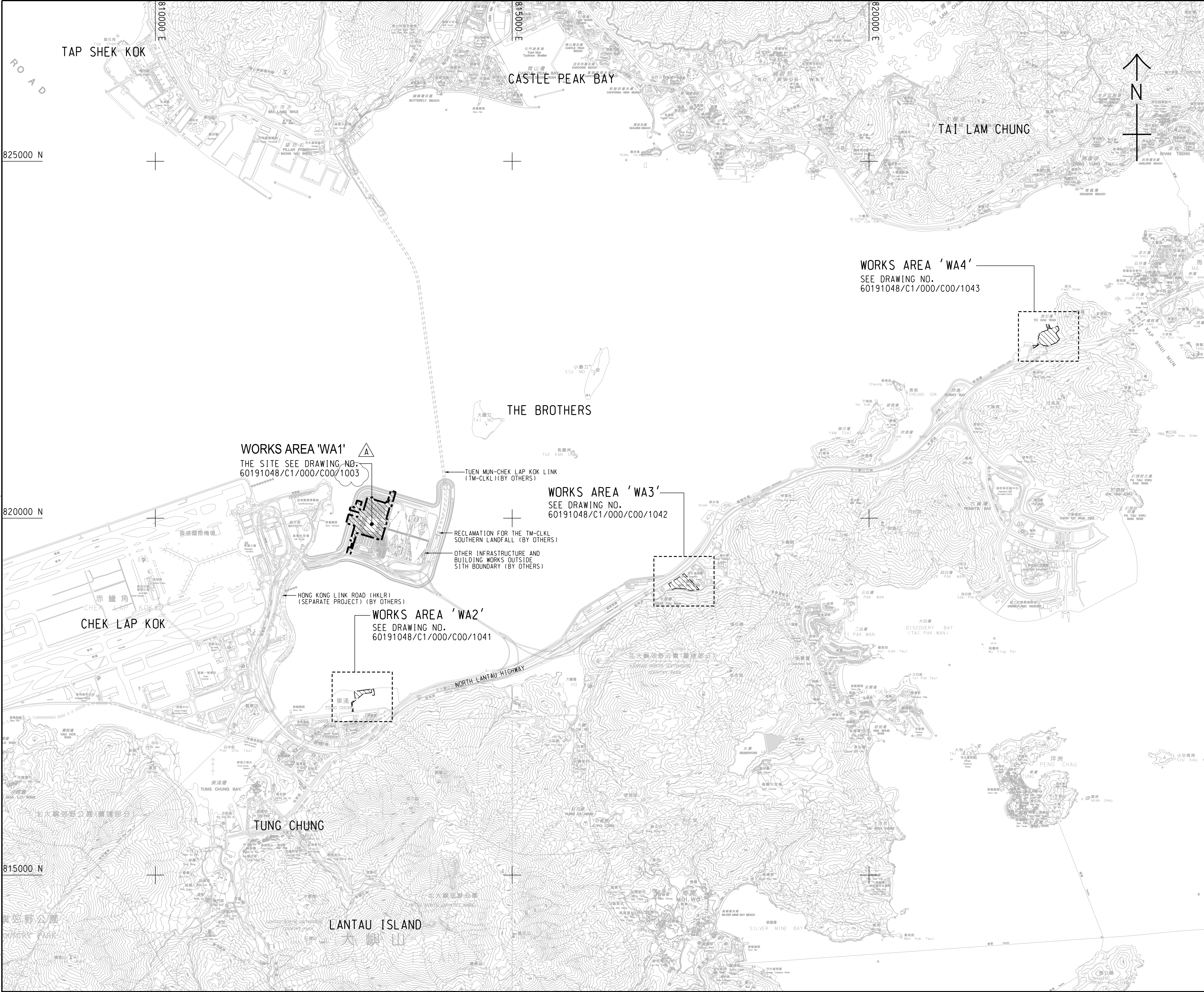
Figure 2.1 Location of Air Quality Monitoring Stations





APPENDIX A

Location of Works Areas



NOTES:

1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
2. DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C1/000/C00/1041 TO 1043.

LEGEND:

- SITE BOUNDARY
- ▨ WORKS AREA

| | | |
|---|-----------------------|-----------------|
| B | WORKING DRAWING | BWCW SCI JUN.14 |
| A | TENDER ADDENDUM NO. 1 | BWCW SCI OCT.13 |
| - | TENDER DRAWING | BWCW SCI SEP.13 |

| | | | |
|------|----------------|----------------|----------------|
| REV. | DESCRIPTION | CHECKED | DATE |
| 1 | 1/000/000/1000 | 1/000/000/1000 | 1/000/000/1000 |

路政署
HIGHWAYS DEPARTMENT
港珠澳大桥香港工程管理处
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

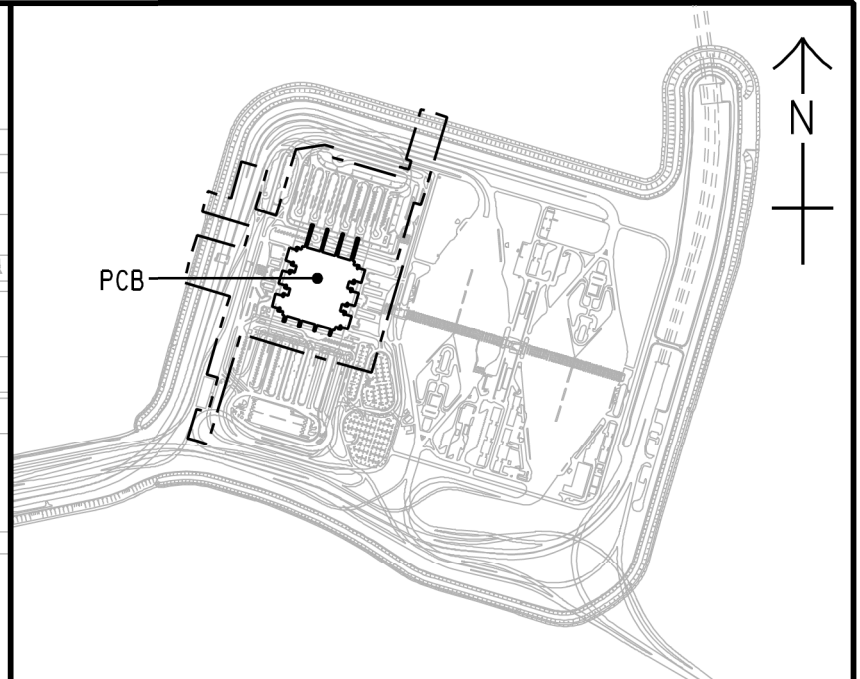
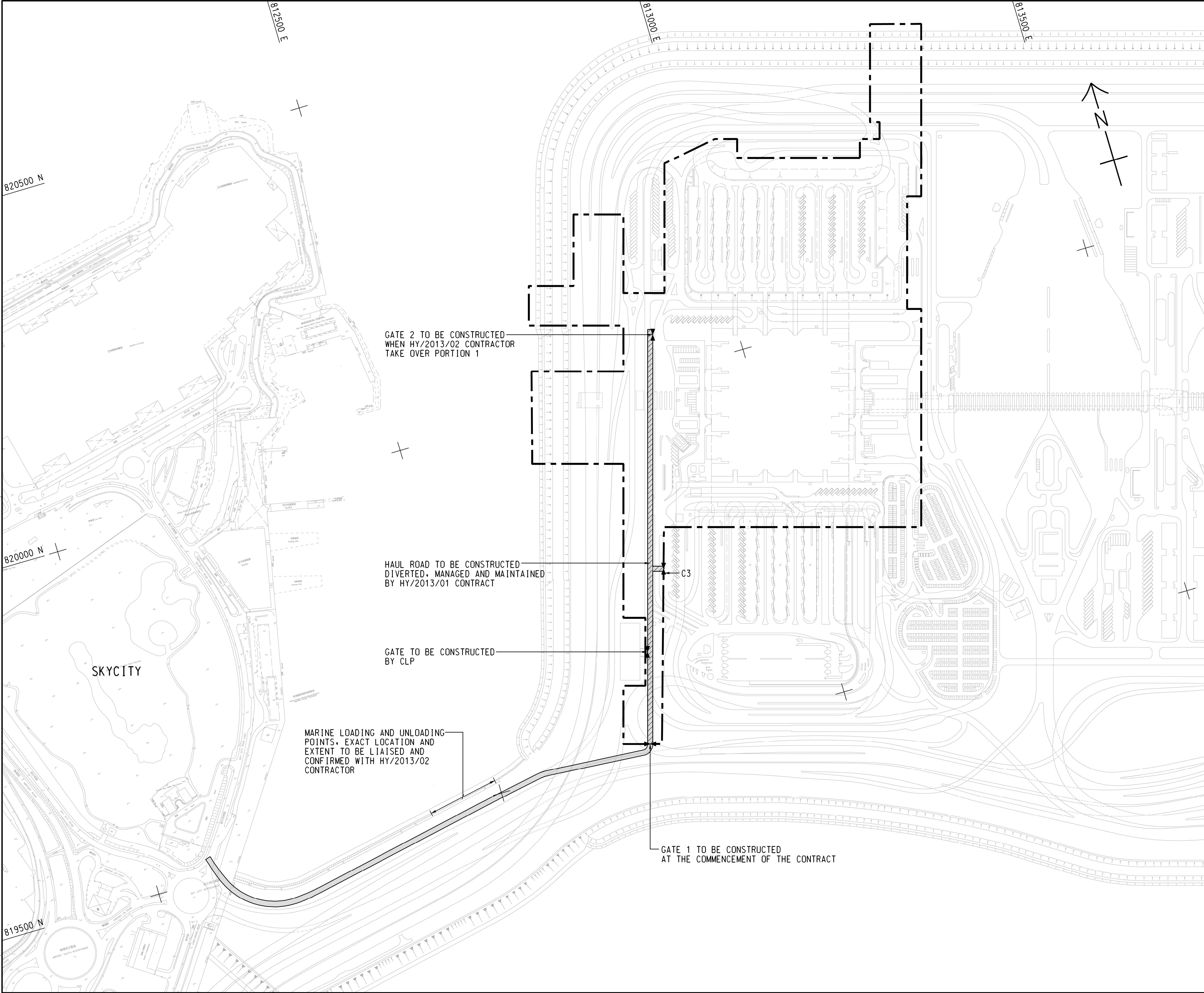
SITE LOCATION PLAN

AECOM
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI

Aedas

DRG.NO. 60191048/C1/000/C00/1000B
圖紙編號

| | | |
|-------------------|------------------------------|------------------------|
| DESIGNED BY 設計 | CONTRACT NO. 合約編號 | P. B. APPROVED 名義人 |
| BWCW | HY/2013/01 | TKH |
| DRAWN BY 繪圖 | STATUS 階段 | WORKING DRAWING |
| WSY | A1 1 : 25000 | |
| SCALE 比例 | DIMENSIONS ARE IN 尺寸單位 | |
| METRES | © COPYRIGHT RESERVED 版權所有 | |



LOCATION PLAN
SCALE 1 : 20000

- NOTES:
- COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE NOTED.
 - LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (mPD) UNLESS OTHERWISE NOTED.
 - DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - SETTING OUT, DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SCALED PHYSICALLY OR ELECTRONICALLY FROM THE DRAWINGS OR FILES.
 - SITE ACCESS SHALL BE HARD PAVED WITH PROPER DRAINAGE PROVIDED. IT SHALL BE KEPT UNOBSTRUCTED AND UNDISRUPTED AT ALL TIMES.

- LEGEND:
- SITE BOUNDARY
 - 7.3m CLEAR WIDTH CONSTRUCTION HAUL ROAD
 - INDICATIVE 20m WIDE VEHICULAR ACCESS BY RECLAMATION CONTRACT HY/2010/02

| | | | |
|------|----------------|----------|--------|
| REV. | DESCRIPTION | CHECKED | DATE |
| 01 | TENDER DRAWING | BWCW SCI | SEP.13 |

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

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

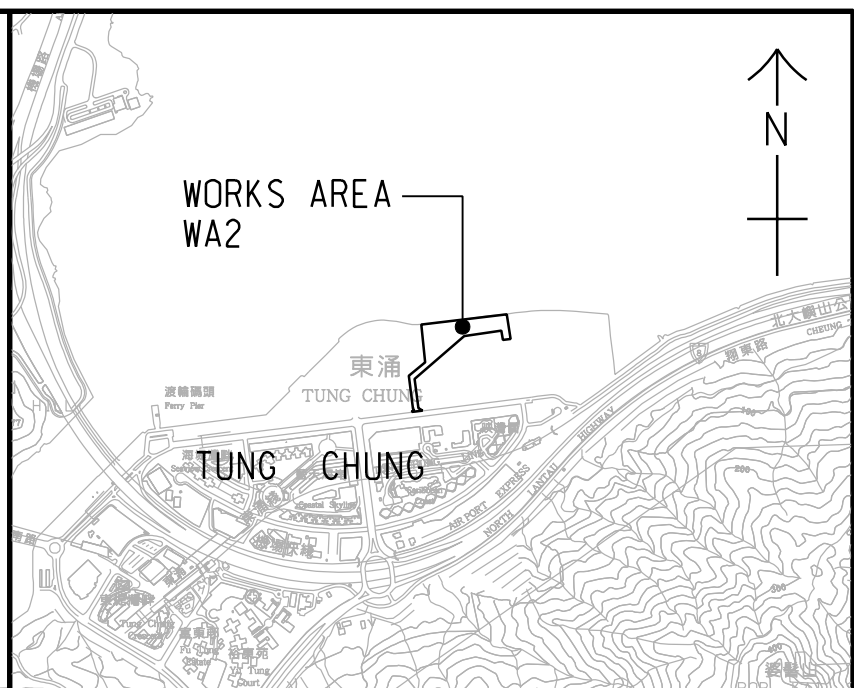
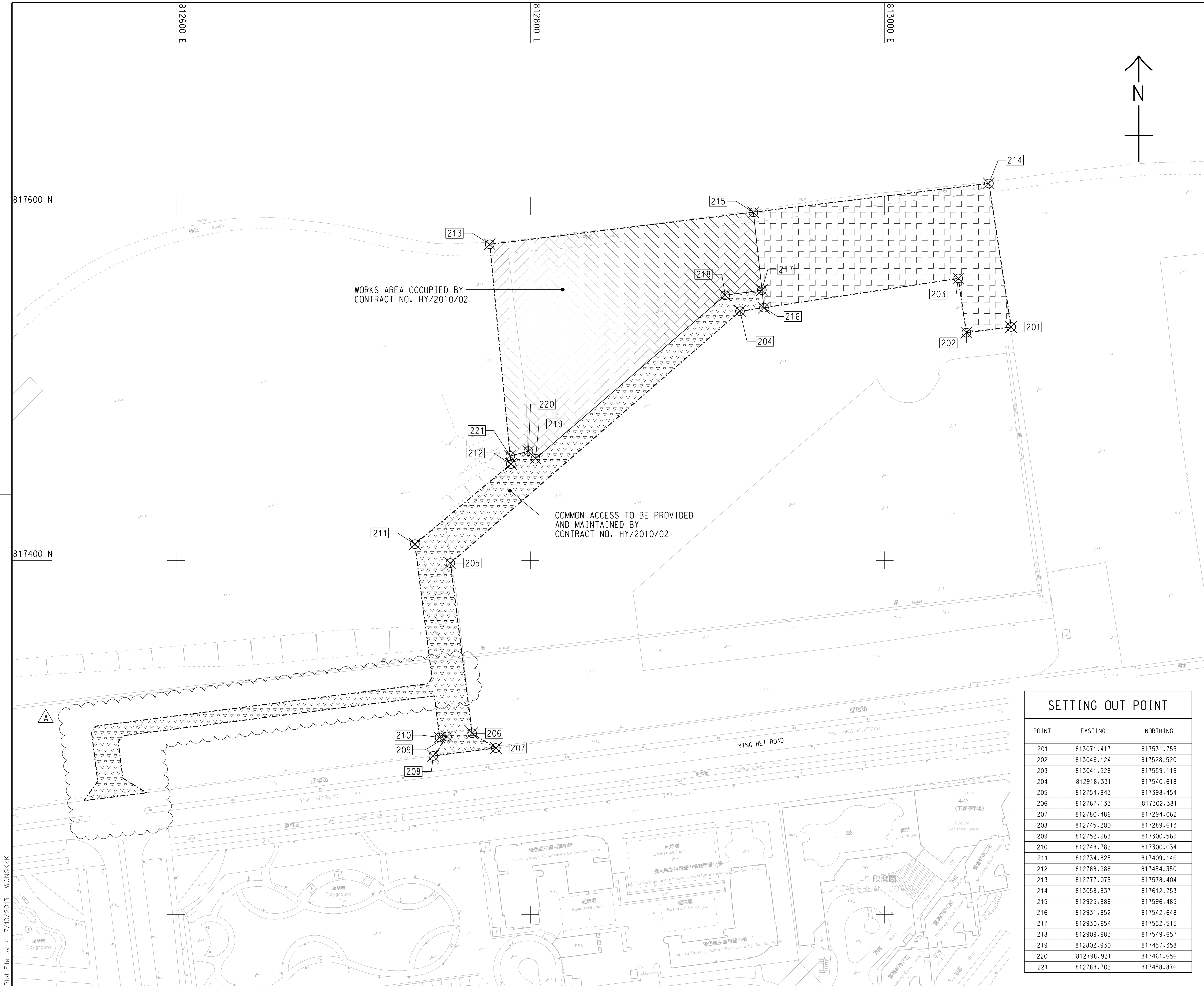
WORKS AREA WA1

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

DRG.NO. 60191048/C1/000/C00/1044
圖紙編號

| | | |
|---------------------------|----------------------|-------------------------|
| DESIGNED BY 設計 | CONTRACT NO. 合約編號 | P. Dir. APPROVED 批准人 |
| BWCW | HY/2013/01 | EMSC |
| DRAWN BY 繪圖 | STATUS 階段 | |
| WSY | | |
| SCALE 比例 | | |
| A1 1 : 2500 | | |
| DIMENSIONS ARE IN 尺寸單位 | | |
| METRES | | |

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LOCATION PLAN
SCALE 1 : 25000

- NOTES:
- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
 - DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

- LEGEND:
- WORKS AREA BOUNDARY
 - PORTION 2.1
 - PORTION 2.2
 - PORTION 2.3

| | | |
|------|-----------------------|-----------------|
| B | WORKING DRAWING | BWCW SCI JUN.14 |
| A | TENDER ADDENDUM NO. 1 | BWCW SCI OCT.13 |
| - | TENDER DRAWING | BWCW SCI SEP.13 |
| REV. | DESCRIPTION | CHECKED DATE |
| 修訂 | 內容摘要 | 查核 日期 |

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

HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

WORKS AREA WA2

AECOM
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI

Aedas

DRG.NO. 60191048/C1/000/C00/1041B
圖紙編號

DESIGNED BY BWCW CONTRACT NO. HY/2013/01 P. BY. APPROVED TKH
設計 合約編號 查核人

DRAWN BY WSY STATUS 制圖
繪圖

SCALE A1 1 : 1000
比例尺

DIMENSIONS ARE IN METRES
尺寸單位

WORKING DRAWING
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| SETTING OUT POINT | | |
|-------------------|------------|------------|
| POINT | EASTING | NORTHING |
| 201 | 813071.417 | 817531.755 |
| 202 | 813046.124 | 817528.520 |
| 203 | 813041.528 | 817559.119 |
| 204 | 812918.331 | 817540.618 |
| 205 | 812754.843 | 817398.454 |
| 206 | 812767.133 | 817302.381 |
| 207 | 812780.486 | 817294.062 |
| 208 | 812745.200 | 817289.613 |
| 209 | 812752.963 | 817300.569 |
| 210 | 812748.782 | 817300.034 |
| 211 | 812734.825 | 817409.146 |
| 212 | 812788.988 | 817454.350 |
| 213 | 812777.075 | 817578.404 |
| 214 | 813058.837 | 817612.753 |
| 215 | 812925.889 | 817596.485 |
| 216 | 812931.852 | 817542.648 |
| 217 | 812930.654 | 817552.515 |
| 218 | 812909.983 | 817549.657 |
| 219 | 812802.930 | 817457.358 |
| 220 | 812798.921 | 817461.656 |
| 221 | 812788.702 | 817458.876 |

| SETTING OUT POINT | | |
|-------------------|------------|------------|
| POINT | EASTING | NORTHING |
| 301 | 817467.265 | 819162.683 |
| 302 | 817314.741 | 819069.828 |
| 303 | 817327.338 | 819049.295 |
| 304 | 817440.865 | 819117.811 |
| 305 | 817340.825 | 819027.314 |
| 306 | 817387.350 | 819023.403 |
| 307 | 817387.861 | 819043.396 |
| 308 | 817466.133 | 819091.047 |
| 309 | 817469.783 | 819087.181 |
| 310 | 817513.449 | 819113.764 |
| 311 | 817347.717 | 819016.082 |
| 312 | 817526.774 | 819020.578 |
| 313 | 817531.659 | 819021.641 |
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819200 N

819000 N

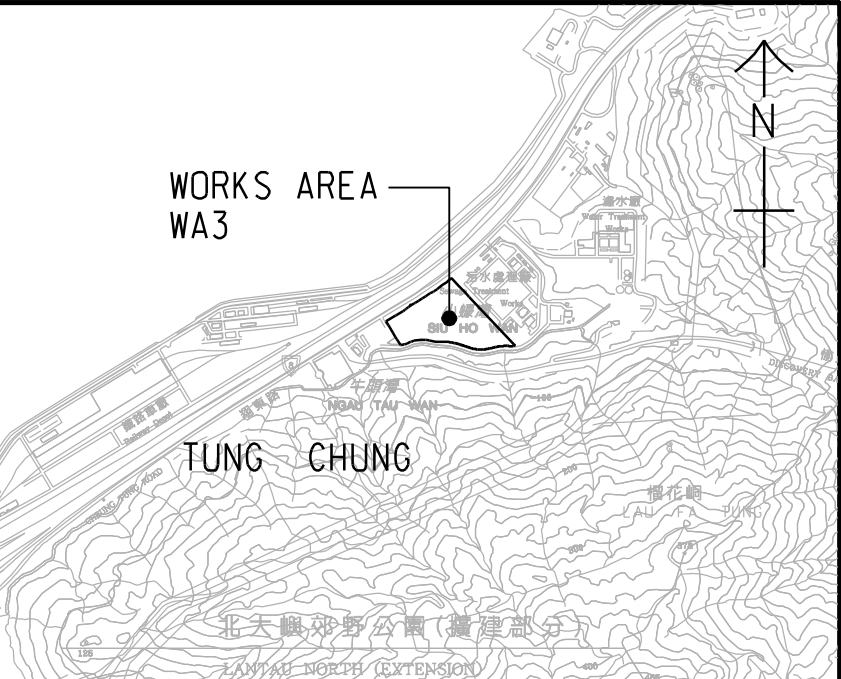
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817400 E

817600 E

Plot File by : 2013/9/10 WANGSY

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LOCATION PLAN
SCALE 1 : 25000

NOTES:

- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
- DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

LEGEND:

| | |
|-----|---------------------|
| --- | WORKS AREA BOUNDARY |
| | PORTION 3.1 |
| | PORTION 3.2 |
| | PORTION 3.3 |
| | PORTION 3.4 |
| | PORTION 3.5 |
| | PORTION 3.6 |
| | PORTION 3.7 |
| | PORTION 3.8 |
| | PORTION 3.9 |

| | | |
|------|-----------------|-----------------|
| A | WORKING DRAWING | 13 JUL 14 |
| - | TENDER DRAWING | BWCW SCI JUN.14 |
| REV. | DESCRIPTION | DATE |
| 修訂 | 內容摘要 | 日期 |



HONG KONG-ZHUHAI-MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
- PASSENGER CLEARANCE BUILDING

WORKS AREA WA3

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BURO HAPPOLD ATKINS ADI

Aedas

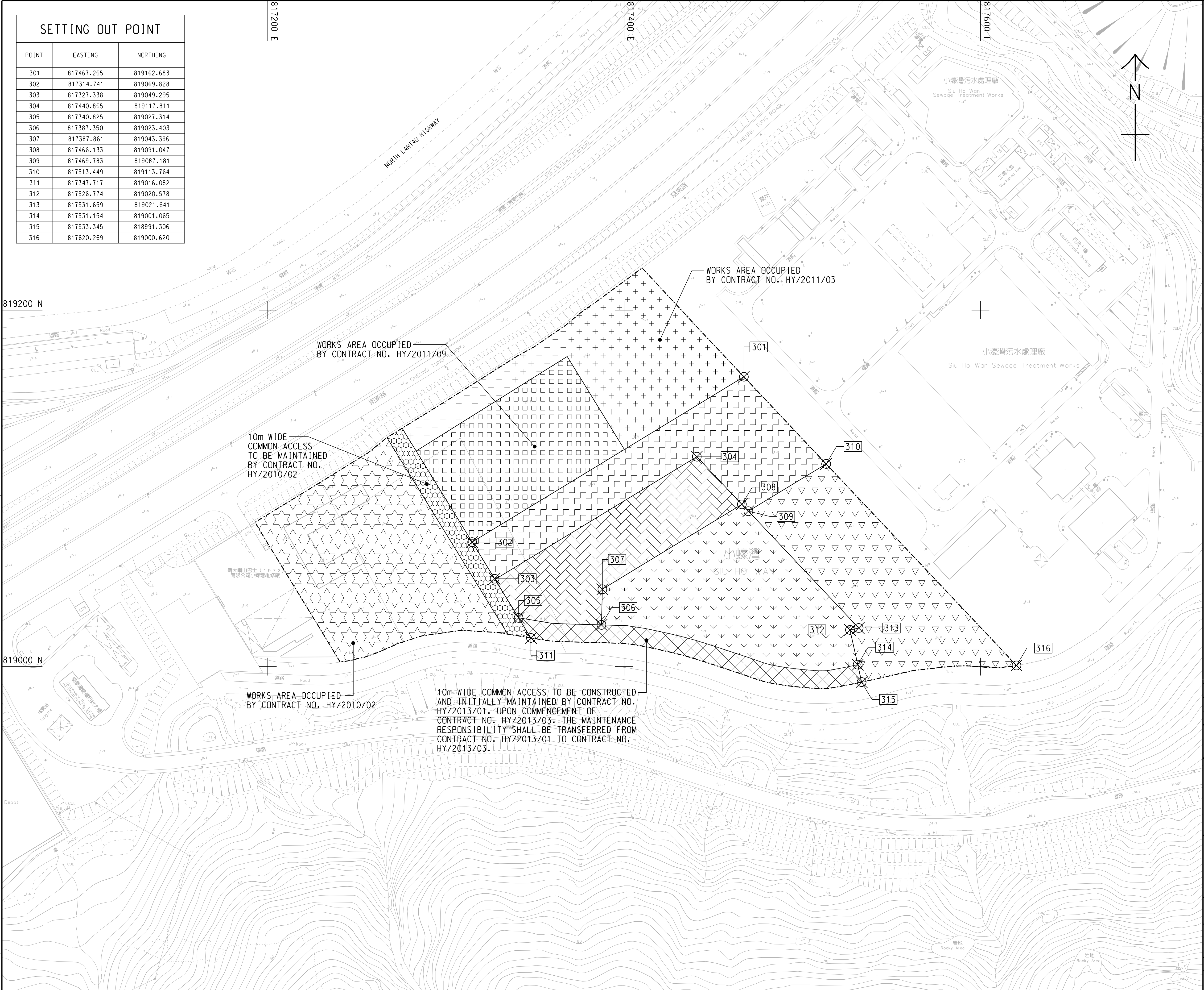
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圖紙編號

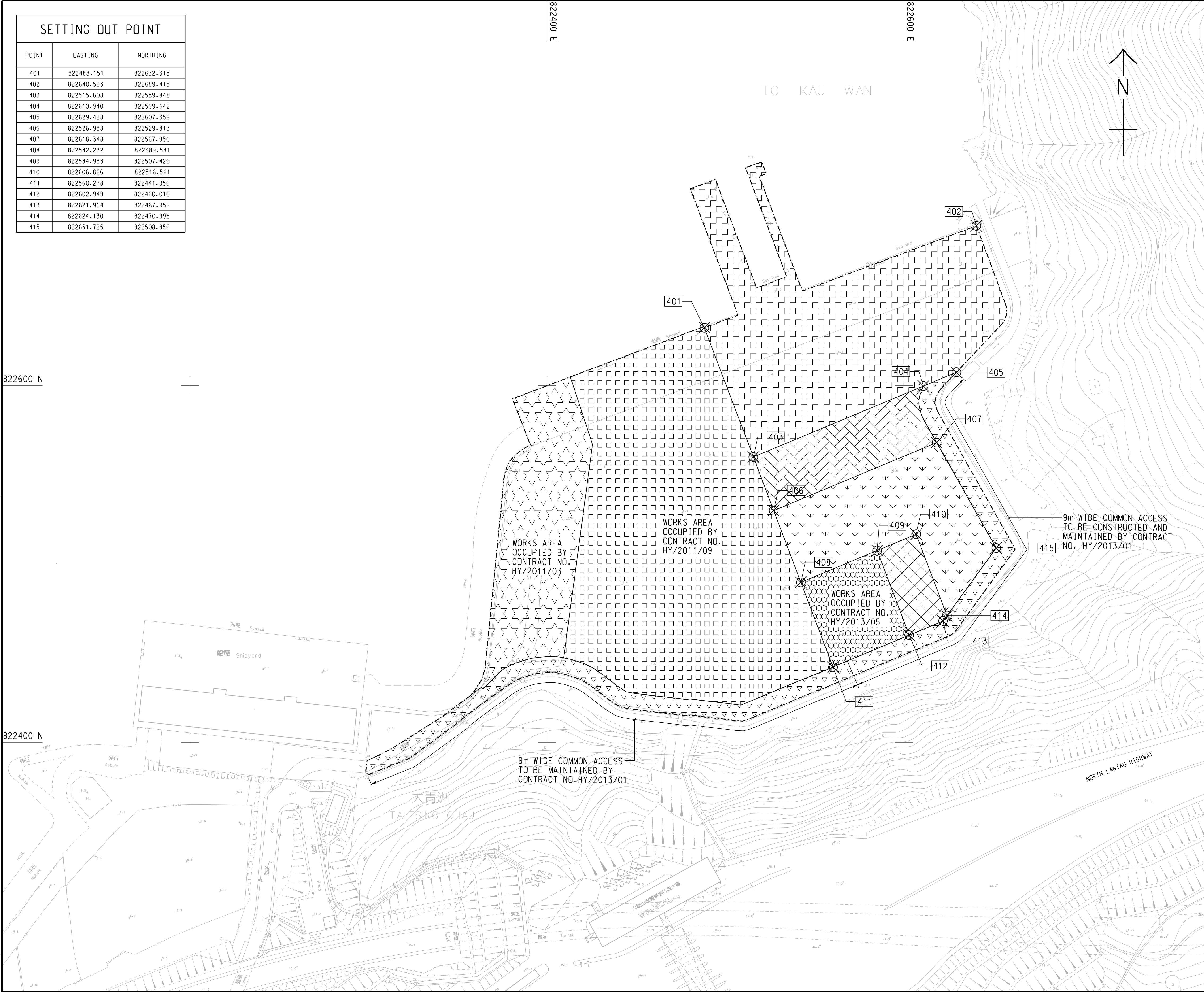
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| DESIGNED BY 設計 | CONTRACT NO. 合約編號 | P. BY 校對人 |
| BWCW | HY/2013/01 | TKH |

| | |
|----------------|-----------------|
| DRAWN BY 繪圖 | STATUS 制表 |
| WSY | WORKING DRAWING |

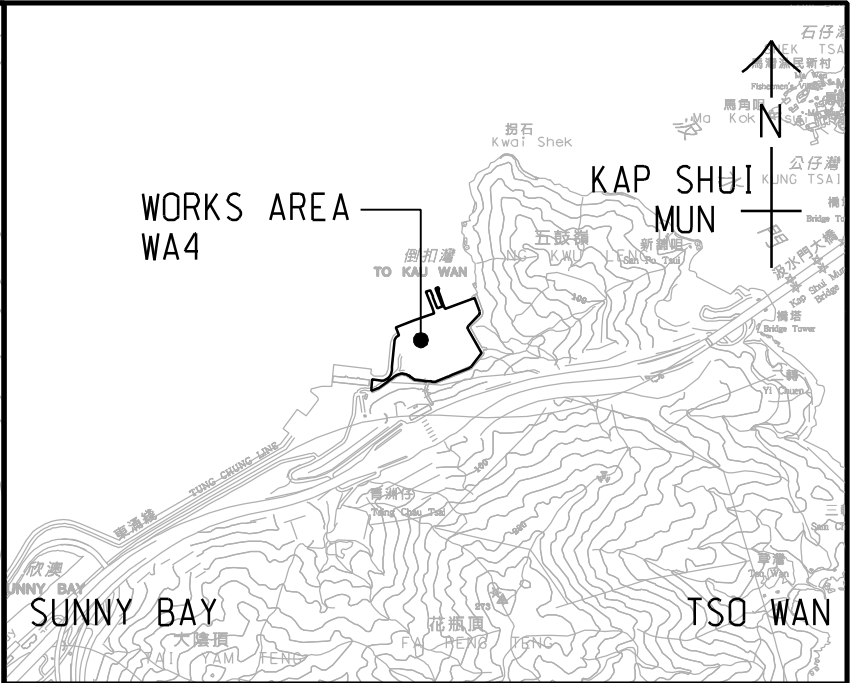
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|-------------|---------------------------|
| SCALE 比例 | DIMENSIONS ARE IN 尺寸單位 |
| A1 1 : 1000 | METRES |

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| SETTING OUT POINT | | |
|-------------------|------------|------------|
| POINT | EASTING | NORTHING |
| 401 | 822488.151 | 822632.315 |
| 402 | 822640.593 | 822689.415 |
| 403 | 822515.608 | 822559.848 |
| 404 | 822610.940 | 822599.642 |
| 405 | 822629.428 | 822607.359 |
| 406 | 822526.988 | 822529.813 |
| 407 | 822618.348 | 822567.950 |
| 408 | 822542.232 | 822489.581 |
| 409 | 822584.983 | 822507.426 |
| 410 | 822606.866 | 822516.561 |
| 411 | 822560.278 | 822441.956 |
| 412 | 822602.949 | 822460.010 |
| 413 | 822621.914 | 822467.959 |
| 414 | 822624.130 | 822470.998 |
| 415 | 822651.725 | 822508.856 |



LOCATION PLAN
SCALE 1 : 25000

- NOTES:
- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
 - DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.

| LEGEND: | |
|-----------|---------------------|
| --- | WORKS AREA BOUNDARY |
| [Pattern] | PORTION 4.1 |
| [Pattern] | PORTION 4.2 |
| [Pattern] | PORTION 4.3 |
| [Pattern] | PORTION 4.4 |
| [Pattern] | PORTION 4.5 |
| [Pattern] | PORTION 4.6 |
| [Pattern] | PORTION 4.7 |
| [Pattern] | PORTION 4.8 |

| | | | |
|----------------|-------------|----------|--------|
| TENDER DRAWING | | BWCW SCI | SEP.13 |
| REV. | DESCRIPTION | DATE | DATE |
| 1 | 1 | 1 | 1 |

路政署
HONG KONG - ZHUHAI - MACAO BRIDGE
香港 - 珠海 - 澳門大橋
Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office

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HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG - ZHUHAI - MACAO BRIDGE

WORKS AREA WA4

AECOM
Rogers Stirk Harbour + Partners
BURO HAPPOLD ATKINS ADI

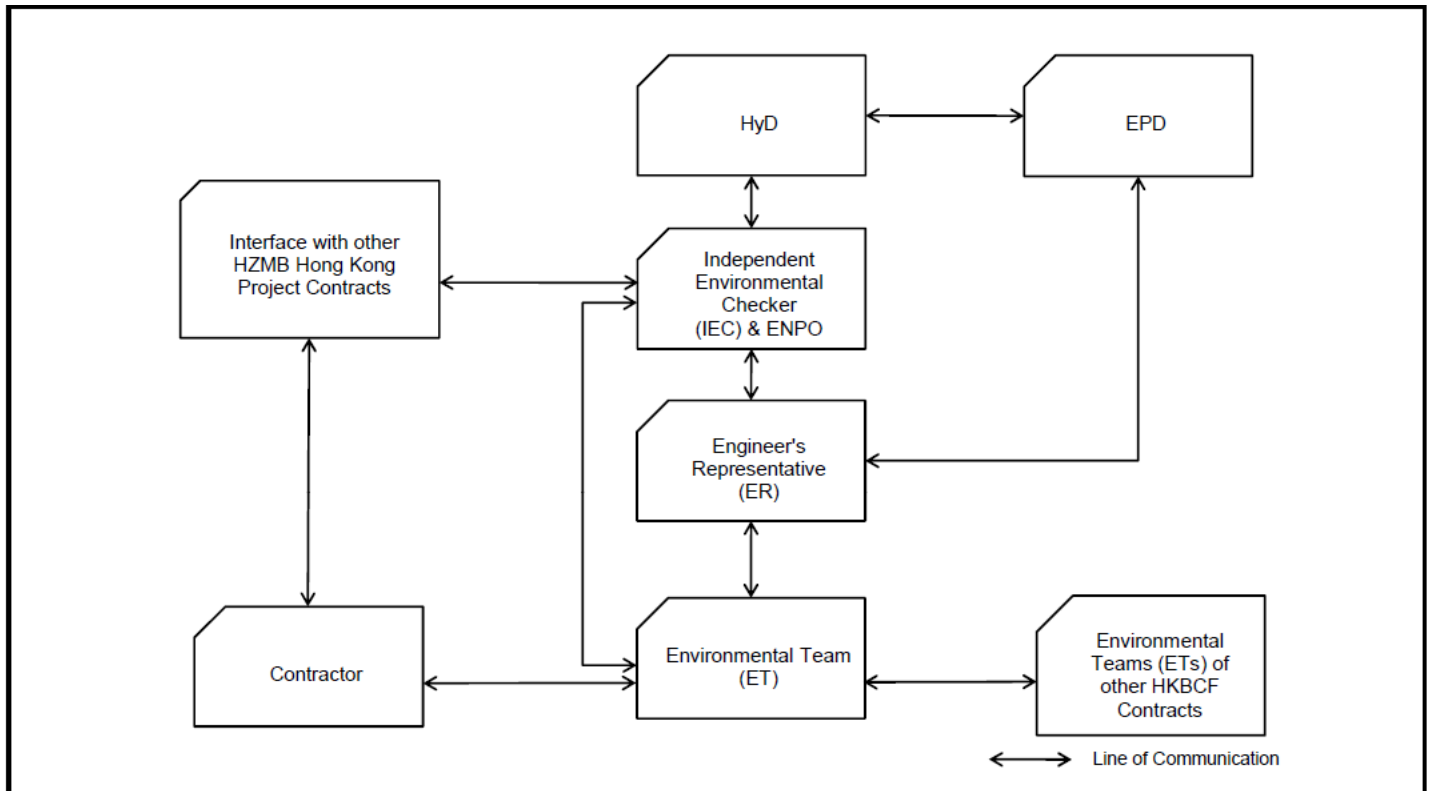
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| DRG.NO. 60191048/C1/000/C00/1043 | |
| DESIGNED BY BWCW | CONTRACT NO. HY/2013/01 |
| DRAWN BY WSY | STATUS A1 1 : 1000 |
| SCALE A1 1 : 1000 | COPYRIGHT RESERVED |



APPENDIX B

Project Organization for Environmental Works







Project Organisation for Environmental Works





APPENDIX C

Construction Programme

  Actual Work
  Remaining Work
  Critical Remaining Work
 Milestone

| Date | Revision | Checked | Approved |
|------|---------------------------|---------|----------|
| | 3-Month Rolling Programme | | |
| | | | |
| | | | |
| | | | |

| Activity ID | Activity Name | Original Duration | Start | Finish | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|---|-------|------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|--|--|--|--|--|--|--|--|
| | | | | | 27 | Jul 04 | Jul 11 | Jul 18 | Jul 25 | Aug 01 | Aug 08 | Aug 15 | Aug 22 | Aug 29 | Sep 05 | Sep 12 | Sep 19 | Sep 26 | Oct 03 | Oct 10 | Oct 17 | Oct 24 | 31 | | | | | | | | |
| | PCB-02-21710 | Cure & Strip Ground Floor Suspended Slab Pour GS16a | 15 | 14-Sep-16 | 03-Oct-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35530 | Cure & Strip Ground Floor Suspended Slab Pour GS16b | 15 | 14-Oct-16 | 31-Oct-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ground Floor Foundations North | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Excavation for Service Troughs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-24460 | 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-02-25000 | PCB - Excavation for Service Trench BS30 | 5 | 06-Aug-16 | 11-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35620 | PCB - Excavation for Service Trench BS29b | 5 | 06-Aug-16 | 11-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waterproofing Trench Base slab | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-25090 | PCB - Waterproofing Trench Base Slab B31a | 3 | 01-Aug-16 | 03-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-25020 | PCB - Waterproofing Trench Base Slab B28 | 3 | 06-Aug-16 | 09-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-25030 | 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 Slabs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21890 | PCB - Service Trough Base Slab - 134m³ Pour BS31a | 8 | 04-Aug-16 | 12-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21860 | PCB - Service Trough Base Slab - 134m³ Pour BS28 | 8 | 10-Aug-16 | 18-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21870 | PCB - Service Trough Base Slab - 134m³ Pour BS29a | 8 | 10-Aug-16 | 18-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35670 | PCB - Service Trough Base Slab - 134m³ Pour BS31b | 8 | 10-Aug-16 | 18-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35660 | PCB - Service Trough Base Slab - 134m³ Pour BS29b | 8 | 16-Aug-16 | 24-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21880 | PCB - Service Trough Base Slab - 134m³ 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-02-22960 | PCB - Basement Ext Walls to BS28 | 8 | 19-Aug-16 | 27-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-22970 | PCB - Basement Ext Walls to BS29a | 8 | 19-Aug-16 | 27-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35690 | PCB - Basement Ext Walls to BS31b | 8 | 19-Aug-16 | 27-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35680 | PCB - Basement Ext Walls to BS29b | 8 | 25-Aug-16 | 02-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21750 | PCB - Basement Ext Walls to BS30 | 8 | 29-Aug-16 | 06-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Backfilling behind Service Trough Walls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-23180 | 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-02-35710 | PCB - Backfilling to Ground Level at Basement Ext Walls BS31b | 4 | 29-Aug-16 | 01-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35700 | PCB - Backfilling to Ground Level at Basement Ext Walls BS29b | 4 | 03-Sep-16 | 07-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-23150 | PCB - Backfilling to Ground Level at Basement Ext Walls BS30 | 4 | 07-Sep-16 | 10-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Excavate for Pile Caps and Beams | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35720 | PCB - Excavate Pile caps and Beams GF16c | 5 | 01-Aug-16 | 05-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34850 | PCB - Excavate Pile caps and Beams GF27 | 5 | 23-Aug-16 | 27-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34780 | 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-02-34860 | PCB - Excavate Pile caps and Beams GF26a | 5 | 02-Sep-16 | 07-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34790 | PCB - Excavate Pile caps and Beams GF24a | 5 | 08-Sep-16 | 13-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34810 | PCB - Excavate Pile caps and Beams GF24d | 5 | 08-Sep-16 | 13-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34820 | PCB - Excavate Pile caps and Beams GF24e (for TC2) | 5 | 08-Sep-16 | 13-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34870 | PCB - Excavate Pile caps and Beams GF26b | 5 | 12-Sep-16 | 17-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34840 | PCB - Excavate Pile caps and Beams GF25b | 5 | 14-Sep-16 | 20-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34800 | PCB - Excavate Pile caps and Beams GF24b | 5 | 21-Sep-16 | 26-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pile Cropping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35010 | PCB - Pile Cropping to GF17c | 8 | 01-Aug-16 | 09-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35000 | PCB - Pile Cropping to GF16c | 8 | 03-Aug-16 | 11-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34970 | PCB - Pile Cropping to GF27 | 8 | 25-Aug-16 | 02-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35740 | PCB - Pile Cropping to GF24c | 8 | 05-Sep-16 | 13-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35790 | PCB - Pile Cropping to GF25a | 8 | 05-Sep-16 | 13-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-34980 | PCB - Pile Cropping to GF26a | 8 | 05-Sep-16 | 13-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35750 | PCB - Pile Cropping to GF24a | 8 | 10-Sep-16 | 20-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35770 | PCB - Pile Cropping to GF24d | 8 | 10-Sep-16 | 20-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35780 | 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-02-34960 | PCB - Pile Cropping to GF25b | 8 | 17-Sep-16 | 26-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35760 | PCB - Pile Cropping to GF24b | 8 | 23-Sep-16 | 03-Oct-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pile Capping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35130 | PCB - Pile Caps and Tie Beams to GF17c | 18 | 10-Aug-16* | 30-Aug-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35120 | PCB - Pile Caps and Tie Beams to GF16c | 18 | 12-Aug-16* | 01-Sep-16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-35090 | PCB - Pile Caps and Tie Beams to GF27 | 18 | 03-Sep-16* | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | | Activity Name | Original Duration | Start | Finish | 27 | | | | | | | | | | | | | | 28 | | | | | | | | | | | | | | 29 | | | | | | | | | | | | | | 30 | | | | | | | | | | | | | | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|---------------|-------------------|-------|--------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-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| | | | | | | 27 | Jul 04 | Jul 11 | Jul 18 | Jul 25 | Aug 01 | Aug 08 | Aug 15 | Aug 22 | Aug 29 | Sep 05 | Sep 12 | Sep 19 | Sep 26 | Oct 03 | Oct 10 | Oct 17 | Oct 24 | Oct 31 | Nov 07 | Nov 14 | Nov 21 | Nov 28 | Dec 05 | Dec 12 | Dec 19 | Dec 26 | Jan 02 | Jan 09 | Jan 16 | Jan 23 | Jan 30 | Feb 06 | Feb 13 | Feb 20 | Feb 27 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | May 01 | May 08 | May 15 | May 22 | May 29 | Jun 05 | Jun 12 | Jun 19 | Jun 26 | Jul 03 | Jul 10 | Jul 17 | Jul 24 | Jul 31 | Aug 07 | Aug 14 | Aug 21 | Aug 28 | Sep 04 | Sep 11 | Sep 18 | Sep 25 | Oct 02 | Oct 09 | Oct 16 | Oct 23 | Oct 30 | Nov 06 | Nov 13 | Nov 20 | Nov 27 | Dec 04 | Dec 11 | Dec 18 | Dec 25 | Jan 01 | Jan 08 | Jan 15 | Jan 22 | Jan 29 | Feb 05 | Feb 12 | Feb 19 | Feb 26 | Mar 05 | Mar 12 | Mar 19 | Mar 26 | Apr 02 | Apr 09 | Apr 16 | Apr 23 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 | Dec 08 | Dec 15 | Dec 22 | Dec 29 | Jan 05 | Jan 12 | Jan 19 | Jan 26 | Feb 02 | Feb 09 | Feb 16 | Feb 23 | Feb 29 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 | Dec 08 | Dec 15 | Dec 22 | Dec 29 | Jan 05 | Jan 12 | Jan 19 | Jan 26 | Feb 02 | Feb 09 | Feb 16 | Feb 23 | Feb 29 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 | Dec 08 | Dec 15 | Dec 22 | Dec 29 | Jan 05 | Jan 12 | Jan 19 | Jan 26 | Feb 02 | Feb 09 | Feb 16 | Feb 23 | Feb 29 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 | Dec 08 | Dec 15 | Dec 22 | Dec 29 | Jan 05 | Jan 12 | Jan 19 | Jan 26 | Feb 02 | Feb 09 | Feb 16 | Feb 23 | Feb 29 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 | Dec 08 | Dec 15 | Dec 22 | Dec 29 | Jan 05 | Jan 12 | Jan 19 | Jan 26 | Feb 02 | Feb 09 | Feb 16 | Feb 23 | Feb 29 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 | Dec 08 | Dec 15 | Dec 22 | Dec 29 | Jan 05 | Jan 12 | Jan 19 | Jan 26 | Feb 02 | Feb 09 | Feb 16 | Feb 23 | Feb 29 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 | Dec 08 | Dec 15 | Dec 22 | Dec 29 | Jan 05 | Jan 12 | Jan 19 | Jan 26 | Feb 02 | Feb 09 | Feb 16 | Feb 23 | Feb 29 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 | Dec 08 | Dec 15 | Dec 22 | Dec 29 | Jan 05 | Jan 12 | Jan 19 | Jan 26 | Feb 02 | Feb 09 | Feb 16 | Feb 23 | Feb 29 | Mar 06 | Mar 13 | Mar 20 | Mar 27 | Apr 03 | Apr 10 | Apr 17 | Apr 24 | Apr 30 | May 07 | May 14 | May 21 | May 28 | Jun 04 | Jun 11 | Jun 18 | Jun 25 | Jul 02 | Jul 09 | Jul 16 | Jul 23 | Jul 30 | Aug 06 | Aug 13 | Aug 20 | Aug 27 | Sep 03 | Sep 10 | Sep 17 | Sep 24 | Sep 30 | Oct 07 | Oct 14 | Oct 21 | Oct 28 | Nov 04 | Nov 11 | Nov 18 | Nov 25 | Dec 02 | Dec 09 | Dec 16 | Dec 23 | Dec 30 | Jan 06 | Jan 13 | Jan 20 | Jan 27 | Feb 03 | Feb 10 | Feb 17 | Feb 24 | Mar 03 | Mar 10 | Mar 17 | Mar 24 | Mar 31 | Apr 07 | Apr 14 | Apr 21 | Apr 28 | May 05 | May 12 | May 19 | May 26 | Jun 02 | Jun 09 | Jun 16 | Jun 23 | Jun 30 | Jul 07 | Jul 14 | Jul 21 | Jul 28 | Aug 04 | Aug 11 | Aug 18 | Aug 25 | Sep 01 | Sep 08 | Sep 15 | Sep 22 | Sep 29 | Oct 06 | Oct 13 | Oct 20 | Oct 27 | Nov 03 | Nov 10 | Nov 17 | Nov 24 | Dec 01 |

| Activity ID | Activity Name | Original Duration | Start | Finish | 27 | Jul 04 | Jul 11 | Jul 18 | Jul 25 | Aug 01 | Aug 08 | Aug 15 | Aug 22 | Aug 29 | Sep 05 | Sep 12 | Sep 19 | Sep 26 | Oct 03 | Oct 10 | Oct 17 | Oct 24 | 31 | |
|-------------|--|-------------------|-------------|-----------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|--|
| | PCB-02-20980 Construct Mezzanine Floor Slab Pour MS02 - 322m³ | 23 | 13-Aug-16 | 08-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | Cure and Strip | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21040 Cure & Strip Mezzanine Floor Slab Pour MS08 | 15 | 01-Sep-16 | 19-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21030 Cure & Strip Mezzanine Floor Slab Pour MS07 | 15 | 02-Sep-16 | 20-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21050 Cure & Strip Mezzanine Floor Slab Pour MS02 | 15 | 09-Sep-16 | 27-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | NORTH - Gridline E-B | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-AB-A0120 Earliest Commencement of ABWF/MEP in Cabin 6 Ground Floor NORTH | 0 | 24-Sep-16 | | | | | | | | | | | | | | | | | | | | | |
| | Suspended Slabs | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21060 Construct Mezzanine Floor Slab Pour MS06 - 323m³ | 23 | 10-Aug-16 | 05-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21070 Construct Mezzanine Floor Slab Pour MS03 - 335m³ | 23 | 20-Sep-16 | 18-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | Cure and Strip | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21090 Cure & Strip Mezzanine Floor Slab Pour MS06 | 15 | 06-Sep-16 | 23-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21080 Cure & Strip Mezzanine Floor Slab Pour MS03 | 15 | 19-Oct-16 | 04-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | Columns to First Floor (+14.700mPD) | | | | | | | | | | | | | | | | | | | | | | | |
| | SOUTH - Gridline J-G | | | | | | | | | | | | | | | | | | | | | | | |
| | A2790 Construct Columns to 1st Floor pour FS02 (Abv GS03a,03b,19a, 05b,21) | 12 | 19-Jul-16 A | 11-Aug-16 | | | | | | | | | | | | | | | | | | | | |
| | A2800 Construct Columns to 1st Floor pour FS03 (Abv GS19a,13,05b,21) | 12 | 12-Aug-16 | 25-Aug-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21170 Construct Columns to 1st Floor Pour FS09 (Abv MS01) | 12 | 27-Aug-16 | 09-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | A2880 Construct Columns to 1st Floor pour FS04 (Abv GS11,1319a,19b,,20a,21) | 12 | 08-Sep-16 | 22-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | A2900 Construct Columns to 1st Floor pour FS05 (Abv GS11,19b,20a) | 12 | 23-Sep-16 | 07-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | A2890 Construct Columns to 1st Floor pour FS06 (Abv GS09,,11,19b,18, 20a,20b) | 12 | 08-Oct-16 | 22-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | A2830 Construct Columns to 1st Floor pour FS07 (Abv GS09,18,20b) | 12 | 24-Oct-16 | 05-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | MIDDLE - Gridline G-E | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-33470 Construct Columns to 1st Floor pour FS15 (Abv MS07,MS08) | 12 | 21-Sep-16 | 05-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-33460 Construct Columns to 1st Floor pour FS14 (Abv MS07,MS08) | 12 | 21-Sep-16 | 05-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21150 Construct Columns to 1st Floor pour FS12 (Abv GS25a,12b,12a,13,05b) | 12 | 26-Oct-16 | 08-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-33490 Construct Columns to 1st Floor pour FS17 (Abv GS08a,14,24c,08b,04b,09) | 12 | 26-Oct-16 | 08-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | NORTH - Gridline E-B | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21280 Construct Columns to 1st Floor pour FS19 (Abv MS06) | 12 | 06-Sep-16 | 20-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-21180 Construct Columns to 1st Floor Pour FS27 - (Abv MS03) | 12 | 19-Oct-16 | 01-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | First Floor Level Beams (+14.7mPD) | | | | | | | | | | | | | | | | | | | | | | | |
| | SOUTH - Gridline J-G | | | | | | | | | | | | | | | | | | | | | | | |
| | First Floor Beams | | | | | | | | | | | | | | | | | | | | | | | |
| | A2870 Construct 1st Floor Beams FSB02 - 341m³ | 12 | 12-Aug-16 | 25-Aug-16 | | | | | | | | | | | | | | | | | | | | |
| | A2860 Construct 1st Floor Beams FSB03 - 490m³ | 12 | 26-Aug-16 | 08-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | A2990 Construct 1st Floor Beams FSB04 - 481m³ | 12 | 23-Sep-16 | 07-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | A3000 Construct 1st Floor Beams FSB05 - 502m³ | 12 | 08-Oct-16 | 22-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | A3010 Construct 1st Floor Beams FSB06 - 488m³ | 12 | 24-Oct-16 | 05-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | First Floor Level Slabs (+14.7mPD) | | | | | | | | | | | | | | | | | | | | | | | |
| | SOUTH - Gridline J-G | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-AB-A0150 Earliest Commencement of ABWF/MEP in Cabin 1 Mezz Floor SOUTH | 0 | 01-Aug-16 | | | | | | | | | | | | | | | | | | | | | |
| | PCB-AB-A0140 Earliest Commencement of ABWF/MEP in Cabin 4 Mezz Floor SOUTH | 0 | 18-Aug-16 | | | | | | | | | | | | | | | | | | | | | |
| | Suspended Slabs | | | | | | | | | | | | | | | | | | | | | | | |
| | A2920 Construct 1st Floor Suspended Slab FS02 - 108m³ After Beams | 6 | 26-Aug-16 | 01-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | A2910 Construct 1st Floor Suspended Slab FS03 - 156m³ After Beams | 6 | 09-Sep-16 | 15-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-20900 Construct 1st Floor Suspended Slab FS09 - 111m³ - Above MS01 | 23 | 10-Sep-16 | 08-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | A3070 Construct 1st Floor Suspended Slab FS04 - 158m³ After Beams | 6 | 08-Oct-16 | 15-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | A3080 Construct 1st Floor Suspended Slab FS05 - 162m³ After Beams | 6 | 24-Oct-16 | 29-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | Cure and Strip | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-20460 Cure & Strip 1st Floor Suspended Slab FS01 - Cabin 4 (East) | 15 | 01-Aug-16 | 17-Aug-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-20930 Cure & Strip 1st Floor Suspended Slab FS02 | 15 | 02-Sep-16 | 20-Sep-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-20440 Cure & Strip 1st Floor Suspended Slab FS03 | 15 | 17-Sep-16 | 05-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-20920 Cure & Strip 1st Floor Suspended Slab FS09 - Cabin 1 (West) | 15 | 11-Oct-16 | 27-Oct-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-20450 Cure & Strip 1st Floor Suspended Slab FS04 | 15 | 17-Oct-16 | 02-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-33700 Cure & Strip 1st Floor Suspended Slab FS05 | 15 | 31-Oct-16 | 16-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | MIDDLE - Gridline G-E | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-AB-A0170 Earliest Commencement of ABWF/MEP in Cabin 5 Mezz Floor MIDDLE | 0 | 27-Aug-16 | | | | | | | | | | | | | | | | | | | | | |
| | Suspended Slabs | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-20400 Construct 1st Floor Suspended Slab FS10 - 104m³ - Above MS05 | 23 | 04-Jul-16 A | 09-Aug-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-33580 Construct 1st Floor Suspended Slab FS14 - 155m³ Above MS08 | 23 | 06-Oct-16 | 02-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-33590 Construct 1st Floor Suspended Slab FS15 - 185m³ Above MS07 | 23 | 06-Oct-16 | 02-Nov-16 | | | | | | | | | | | | | | | | | | | | |
| | Cure and Strip | | | | | | | | | | | | | | | | | | | | | | | |
| | PCB-02-20370 Cure & Strip 1st Floor Suspended Slab FS10 - Cabin 5 | 15 | 10-Aug-16 | 26-Aug-16 | | | | | | | | | | | | | | | | | | | | |
| | NORTH - Gridline E-B | | | | | | | | | | | | | | | | | | | | | | | |

Actual Work

Remaining Work

Critical Remaining Work

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Milestone

3 MONTH ROLLING PROGRAMME

Page 4 of 12

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| Date | Revision | Checked | Approved |
| | 3-Month Rolling Programme | | |
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| Activity ID | | Activity Name | | Original Duration | Start | Finish | 27 | | | | | | | | | | | | | | 28 | | | | | | | | | | | | | | 29 | | | | | | | | | | | | | | 30 | | | | | | | | | | | | | | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | 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 | T | T | F | S | S | M | T | T | F | S | S</ |

| Activity ID | Activity Name | Original Duration | Start | Finish |
|-------------------------------------|---|-------------------|-------------|-----------|
| PCB-02-24760 | Mega Column C5 Minimum Curing Time and Strip 30h | 2 | 19-Aug-16 | 20-Aug-16 |
| ABWF & BS / MEP / E&M Works | | | | |
| Level 1 Basement | | | | |
| SOUTH - Gridline J-G | | | | |
| PCB-02-B1010 | 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-02-B1020 | PCB - ABWF BF Blockworks Zone G | 24 | 01-Aug-16 | 27-Aug-16 |
| Degree 1 | | | | |
| PCB-02-M1020 | PCB - MEP high level works Zone J | 24 | 30-May-16 A | 20-Aug-16 |
| PCB-02-A1000 | PCB - ABWF DOC 1 Zone J Corridors and Lobby | 20 | 01-Aug-16 | 23-Aug-16 |
| PCB-02-A1030 | PCB - ABWF DOC 1 Zone J Switchrooms | 20 | 08-Aug-16 | 30-Aug-16 |
| PCB-02-A1020 | PCB - ABWF DOC 1 Zone G Corridors and Lobby | 17 | 29-Aug-16 | 17-Sep-16 |
| PCB-02-M1030 | 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-02-A1040 | PCB - ABWF DOC 2 Zone J Switchrooms | 6 | 08-Oct-16 | 15-Oct-16 |
| MIDDLE - Gridline G-E | | | | |
| PCB-02-W110 | PCB - Wearing slab construction Zone D,E,F | 43 | 11-Jun-16 A | 25-Aug-16 |
| PCB-02-B1015 | PCB - ABWF BF Blockworks Zone F | 24 | 01-Jun-16 A | 27-Aug-16 |
| Degree 1 | | | | |
| PCB-02-A1060 | PCB - ABWF DOC 1 Zone F Corridors and Lobby | 17 | 29-Aug-16 | 17-Sep-16 |
| PCB-02-M1060 | PCB - MEP DOC 1 Zone F Corridors and Lobby | 40 | 19-Sep-16 | 05-Nov-16 |
| NORTH - Gridline E-B | | | | |
| PCB-02-W120 | 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 |
| Level 3 Cabin Ground Floor +5.50mPD | | | | |
| SOUTH - Gridline J-G | | | | |
| PCB-02-B1025 | PCB - ABWF GF Blockworks Zone J | 27 | 27-Jun-16 A | 17-Aug-16 |
| PCB-02-B1035 | PCB - ABWF GF Blockworks Zone G | 27 | 14-Sep-16 | 18-Oct-16 |
| MIDDLE - Gridline G-E | | | | |
| PCB-02-B1055 | PCB - ABWF GF Blockworks Zone F | 50 | 11-Jul-16 A | 19-Sep-16 |
| PCB-02-B1065 | PCB - ABWF GF Blockworks Zone E | 27 | 21-Sep-16 | 24-Oct-16 |
| PCB-02-B1045 | PCB - ABWF GF Blockworks Zone D | 37 | 28-Sep-16 | 11-Nov-16 |
| Facade | | | | |
| Off Site Works | | | | |
| Fabrication of Bow Truss | | | | |
| 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 | Assembly of WTD panels | 70 | 04-Jul-16 A | 23-Sep-16 |
| PCB-XX-3070 | Fabrication of WTE glass | 74 | 13-May-16 A | 24-Sep-16 |
| PCB-XX-3020 | Facade - Fabrication of Brackets | 142 | 23-May-16 A | 11-Nov-16 |
| Facade - Curtain Wall | | | | |
| 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 |
| Façade - Window Wall to Cabins | | | | |
| East Side | | | | |
| SOUTH - Gridline J-G - CABIN 4 | | | | |
| Ground Floor | | | | |
| Zone J | | | | |
| PCB-02-31290 | PCB (GF) - Set up works for GF Window wall erection Zone J | 22 | 07-Jul-16 A | 04-Aug-16 |
| PCB-02-31295 | PCB (GF) - Bracket Installations Zone J | 31 | 05-Aug-16* | 09-Sep-16 |
| PCB-02-31300 | PCB (GF) - Window Wall installation of glass units (Cabin 4) Zone J | 28 | 19-Aug-16 | 21-Sep-16 |
| Zone G | | | | |
| PCB-02-31330 | PCB (GF) - Bracket Installations Zone G | 31 | 17-Aug-16* | 22-Sep-16 |
| PCB-02-31340 | PCB (GF) - Window Wall installation of glass units (Cabin 1) Zone G | 28 | 22-Aug-16 | 23-Sep-16 |
| Mezzanine Floor | | | | |
| Zone J | | | | |
| PCB-02-31310 | PCB (MZ) - Bracket Installations Zone J | 31 | 25-Aug-16 | 30-Sep-16 |

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|------------------------------------|---|-------------------|-------------|-----------|
| PCB-02-31320 | PCB (MZ) - Window Wall installation of glass units (Cabin 4) Zone J | 28 | 06-Sep-16 | 11-Oct-16 |
| Zone G | | | | |
| PCB-XX-0930 | PCB (MF) - Bracket Installations Zone G | 31 | 23-Sep-16 | 31-Oct-16 |
| PCB-XX-0940 | PCB (MF) - Window Wall installation of glass units (Cabin 1) Zone G | 28 | 06-Oct-16 | 08-Nov-16 |
| MIDDLE - Gridline G-E - CABIN 5 | | | | |
| Ground Floor | | | | |
| Zone F | | | | |
| PCB-02-31350 | PCB (GF) - Set up works for GF Window wall erection Zone F | 22 | 22-Aug-16* | 15-Sep-16 |
| PCB-02-31400 | PCB (GF) - Bracket Installations Zone F | 31 | 17-Sep-16 | 25-Oct-16 |
| PCB-02-31450 | PCB (GF) - Window Wall installation of glass units (Cabin 4) Zone F | 28 | 23-Sep-16 | 27-Oct-16 |
| Zone D | | | | |
| PCB-02-31510 | PCB (GF) - Bracket Installations Zone D | 31 | 26-Oct-16 | 30-Nov-16 |
| Mezzanine Floor | | | | |
| Zone F | | | | |
| PCB-02-31490 | PCB (MZ) - Bracket Installations Zone F | 31 | 08-Oct-16 | 14-Nov-16 |
| PCB-02-31500 | PCB (MZ) - Window Wall installation of glass units (Cabin 4) Zone F | 28 | 21-Oct-16 | 22-Nov-16 |
| West Side | | | | |
| SOUTH - Gridline J-G - CABIN 1 | | | | |
| Ground Floor | | | | |
| Zone G | | | | |
| PCB-02-31460 | PCB (GF) - Set up works for GF Window wall erection Zone G | 22 | 01-Sep-16 | 27-Sep-16 |
| PCB-02-31470 | PCB (GF) - Bracket Installations Zone G | 31 | 13-Sep-16 | 21-Oct-16 |
| PCB-02-31480 | PCB (GF) - Window Wall Primary Steelwork (Cabin 4) Zone G | 28 | 23-Sep-16 | 27-Oct-16 |
| Misc Off site | | | | |
| Balustrades | | | | |
| 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 Drop-Off Area | | | | |
| Southern Drop off Area - Pile Caps | | | | |
| Southern Drop Off Area - West | | | | |
| Columns, Piers and Bearings | | | | |
| PCB-16-1680 | DoA - WEST Construct Columns 3 No (to +11mPD) | 18 | 01-Aug-16 | 20-Aug-16 |
| PCB-16-2060 | DoA - WEST Construct Columns 3 No (to +11mPD) | 18 | 15-Aug-16 | 03-Sep-16 |
| Steel Roof Erection | | | | |
| Structural Steel Roof (HLEM) | | | | |
| Marine Delivery | | | | |
| 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 Support 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 |
| Towers | | | | |
| 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 |
| 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 |

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| A3590 | Temporary Footings - ROW 4 - Lowering Zone (Tentative) - Stage 2 | 15 | 01-Aug-16* | 17-Aug-16 |
| Towers | | | | |
| A3620 | SR - Structural Readiness for ROW 4 Rail | 0 | 15-Oct-16* | |
| A3610 | SR - Erect Temporary Launch Towers Gridline C-D (ROW 4) | 30 | 15-Oct-16 | 18-Nov-16 |
| Row 5 | | | | |
| Footings | | | | |
| A3650 | Temporary Footings - ROW 5 - Lifting Zone (Tentative) - Stage 3 | 15 | 01-Aug-16* | 17-Aug-16 |
| A3630 | Temporary Footings - ROW 5 - Gridline 0.1 (Tentative) - Stage 1 | 15 | 01-Aug-16* | 17-Aug-16 |
| A3640 | Temporary Footings - ROW 5 - Lowering Zone (Tentative) - Stage 2 | 15 | 01-Aug-16* | 17-Aug-16 |
| A3680 | Temporary Footings - ROW 5 - Gridline 1 to 5 (Tentative) - Stage 4 | 15 | 01-Aug-16* | 17-Aug-16 |
| Towers | | | | |
| A3670 | SR - Structural Readiness for ROW 5 Rail | 0 | 15-Oct-16* | |
| A3660 | SR - Erect Temporary Launch Towers Gridline A-B (ROW 4) | 30 | 15-Oct-16 | 18-Nov-16 |
| Erection | | | | |
| Row 1 (GL J-K) | | | | |
| Segment Erection | | | | |
| PCB-02-11810 | SR - Row 1 - Launch Cassette R1/P1 | 3 | 04-Aug-16* | 06-Aug-16 |
| PCB-02-11820 | SR - Row 1 - Launch Cassette R1/P2 | 3 | 08-Aug-16 | 10-Aug-16 |
| PCB-02-11830 | SR - Row 1 - Launch Cassette R1/P3 | 3 | 11-Aug-16 | 13-Aug-16 |
| PCB-02-11840 | SR - Row 1 - Launch Cassette R1/P4 | 3 | 15-Aug-16 | 17-Aug-16 |
| PCB-02-11850 | SR - Row 1 - Launch Cassette R1/P5 | 3 | 18-Aug-16 | 20-Aug-16 |
| PCB-02-11860 | SR - Row 1 - Launch Cassette R1/P6 | 3 | 22-Aug-16 | 24-Aug-16 |
| PCB-02-11890 | SR - Row 1 - Launch Cassette R1/P7 | 3 | 25-Aug-16 | 27-Aug-16 |
| PCB-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 |
| Trolley Return | | | | |
| PCB-02-36010 | SR - Lower and Return Trolley 1 to Zhong Shan | 3 | 22-Aug-16 | 24-Aug-16 |
| PCB-02-36020 | SR - Lower and Return Trolley 2 to Zhong Shan | 3 | 25-Aug-16 | 27-Aug-16 |
| PCB-02-36030 | SR - Lower and Return Trolley 3 to Zhong Shan | 3 | 29-Aug-16 | 31-Aug-16 |
| PCB-02-36040 | SR - Lower and Return Trolley 4 to Zhong Shan | 3 | 01-Sep-16 | 03-Sep-16 |
| PCB-02-36050 | SR - Lower and Return Trolley 5 to Zhong Shan | 3 | 05-Sep-16 | 07-Sep-16 |
| PCB-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 | 3 | 15-Sep-16 | 19-Sep-16 |
| PCB-02-36080 | SR - Lower and Return Trolley 9 to Zhong Shan | 3 | 20-Sep-16 | 22-Sep-16 |
| Gridline B | | | | |
| Gridline B - RC Works (5 Mega Columns) | | | | |
| B1 (to +19.0mPD) | | | | |
| PCB-02-2130 | Break Piles to Cut Off Level (+2.08mPD) and Blind - B1 | 3 | 01-Aug-16 | 03-Aug-16 |
| PCB-02-2135 | Construct Pile Cap - B1 | 10 | 08-Aug-16 | 18-Aug-16 |
| PCB-02-2140 | PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B1 | 4 | 19-Aug-16 | 23-Aug-16 |
| PCB-ZZ-4140 | Scaffolding and Rebar Fixing - B1 | 7 | 24-Aug-16 | 31-Aug-16 |
| PCB-02-33880 | PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B1 | 2 | 01-Sep-16 | 02-Sep-16 |
| PCB-ZZ-5030 | PCB - Scaffolding+Embbded Rebar Fixing+MEP - B1 | 7 | 03-Sep-16 | 10-Sep-16 |
| PCB-ZZ-4920 | PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B1 | 1 | 12-Sep-16 | 12-Sep-16 |
| PCB-02-2145 | Minimum Curing before Stripping Shutter - B1 | 2 | 13-Sep-16 | 14-Sep-16 |
| B2 (to +19.0mPD) | | | | |
| PCB-02-26650 | Break Piles to Cut Off Level (+2.08mPD) and Blind - B2 | 3 | 08-Aug-16 | 10-Aug-16 |
| PCB-02-26660 | Construct Pile Cap - B2 | 10 | 19-Aug-16 | 30-Aug-16 |
| PCB-02-26670 | PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B2 | 4 | 31-Aug-16 | 03-Sep-16 |
| PCB-ZZ-4680 | Scaffolding and Rebar Fixing - B2 | 7 | 05-Sep-16 | 12-Sep-16 |
| PCB-02-33890 | PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B2 | 2 | 13-Sep-16 | 14-Sep-16 |
| PCB-ZZ-5050 | PCB - Scaffolding+Embbded Rebar Fixing+MEP - B2 | 7 | 15-Sep-16 | 23-Sep-16 |
| PCB-ZZ-4930 | PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B2 | 1 | 24-Sep-16 | 24-Sep-16 |
| PCB-02-26680 | Minimum Curing before Stripping Shutter - B2 | 2 | 26-Sep-16 | 27-Sep-16 |
| B3 (to +19.0mPD) | | | | |
| PCB-02-26690 | Break Piles to Cut Off Level (+2.08mPD) and Blind - B3 | 3 | 04-Aug-16 | 06-Aug-16 |
| PCB-02-26700 | Construct Pile Cap - B3 | 10 | 31-Aug-16 | 10-Sep-16 |
| PCB-02-26710 | PCB - Mega Columns B Kicker (+4.0 to +6.2mPD) - B3 | 4 | 12-Sep-16 | 15-Sep-16 |
| PCB-ZZ-4700 | Scaffolding and Rebar Fixing - B3 | 7 | 17-Sep-16 | 24-Sep-16 |
| PCB-02-33900 | PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - B3 | 2 | 26-Sep-16 | 27-Sep-16 |
| PCB-ZZ-5070 | PCB - Scaffolding+Embbded Rebar Fixing+MEP - B3 | 7 | 28-Sep-16 | 06-Oct-16 |
| PCB-ZZ-4940 | PCB - Mega Column Final Pour (+16.5 to +19.45mPD) - B3 | 1 | 07-Oct-16 | 07-Oct-16 |
| PCB-02-26720 | Minimum Curing before Stripping Shutter - B3 | 2 | 08-Oct-16 | 11-Oct-16 |
| B4 (to +19.0mPD) | | | | |
| PCB-02-26730 | Break Piles to Cut Off Level (+2.08mPD) and Blind - B4 | 3 | 01-Aug-16 | 03-Aug-16 |

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| 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+Embbded 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 +19.0mPD) | | | | |
| 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+Embbded Rebar Fixing+MEP - B5 | 7 | 24-Oct-16 | 31-Oct-16 |
| Gridline A | | | | |
| Gridline A Bored Piling Works | | | | |
| PCB-XX-720 | GL A - Reinstate Compacted Earth Platform and Earth Slope | 12 | 01-Aug-16 | 13-Aug-16 |
| Gridline A Bored Piles (15 Piles) | | | | |
| PCB-02-29200 | GLA - Bored Pile Proof Coring and TPIDC | 24 | 16-Jun-16 A | 03-Aug-16 |
| Gridline A - RC Works (5 Mega Columns) | | | | |
| Tie Beams Gridline 1 | | | | |
| 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 Gridline 2 | | | | |
| 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 Gridline 3 | | | | |
| 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 Gridline 4 | | | | |
| 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 Gridline 5 | | | | |
| 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 |
| PCB-XX-1150 | GL5 - Backfill to ground level at Box Culvert Bay 4 to 6 | 6 | 22-Oct-16 | 28-Oct-16 |
| A1 (to +19.0mPD) | | | | |

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| 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 | Scaffolding and Rebar Fixing - A1 | 7 | 03-Sep-16 | 10-Sep-16 |
| PCB-02-34580 | PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A1 | 2 | 12-Sep-16 | 13-Sep-16 |
| PCB-ZZ-5320 | PCB - Scaffolding+Embbded Rebar Fixing+MEP - A1 | 7 | 14-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 +19.0mPD) | | | | |
| 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 - Mega Columns J Kicker (+4.0 to +6.2mPD) - A2 | 4 | 03-Sep-16 | 07-Sep-16 |
| PCB-ZZ-5240 | Scaffolding and Rebar Fixing - A2 | 7 | 08-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+Embbded 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 +19.0mPD) | | | | |
| 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 - Mega Columns J Kicker (+4.0 to +6.2mPD) - A3 | 4 | 08-Sep-16 | 12-Sep-16 |
| PCB-ZZ-5260 | Scaffolding and Rebar Fixing - A3 | 7 | 13-Sep-16 | 21-Sep-16 |
| PCB-02-34600 | PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A3 | 2 | 22-Sep-16 | 23-Sep-16 |
| PCB-ZZ-5340 | PCB - Scaffolding+Embbded Rebar Fixing+MEP - A3 | 7 | 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 +19.0mPD) | | | | |
| 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 | Scaffolding and Rebar Fixing - A4 | 7 | 26-Sep-16 | 04-Oct-16 |
| PCB-02-34610 | PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A4 | 2 | 05-Oct-16 | 06-Oct-16 |
| PCB-ZZ-5350 | PCB - Scaffolding+Embbded Rebar Fixing+MEP - A4 | 7 | 07-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 +19.0mPD) | | | | |
| 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 | Scaffolding and Rebar Fixing - A5 | 7 | 08-Oct-16 | 17-Oct-16 |
| PCB-02-34620 | PCB - Mega Column Fix Shutters and Cast (+6.2 to +16.5mPD) - A5 | 2 | 18-Oct-16 | 19-Oct-16 |
| PCB-ZZ-5360 | PCB - Scaffolding+Embbded Rebar Fixing+MEP - A5 | 7 | 20-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 |
| Common Utilities Enclosure | | | | |
| Bay 5 | | | | |
| PCB-9A-400 | CUE - Construct Base Slab of Bay 5 | 16 | 01-Aug-16 | 18-Aug-16 |
| 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 |
| Box Culvert A | | | | |
| RC Structures | | | | |
| Portion A2 (West) | | | | |
| Portion A2 (West) | | | | |
| PCB-09-1150 | BCA (A2W) Sheetpiling and ELS (60m x 2) (Bays 21 to 24) | 24 | 16-May-16 A | 02-Aug-16 |
| PCB-09-1160 | BCA (A2W) Bulk Excavation (60m) (Bays 21 to 24) | 12 | 03-Aug-16 | 16-Aug-16 |
| Bay 19 | | | | |
| PCB-09-1200-1 | BCA (A2E) Excavate and Construct PC20 | 12 | 17-Aug-16 | 30-Aug-16 |
| PCB-09-1200-2 | BCA (A2E) Construct Bay 19 Base Slab | 18 | 31-Aug-16 | 21-Sep-16 |
| PCB-09-1200-3 | BCA (A2E) Construct Bay 19 Wall and Roof Slab | 18 | 22-Sep-16 | 14-Oct-16 |
| Bay 20 | | | | |
| PCB-09-1220-1 | BCA (A2E) Excavate and Construct PC21 | 12 | 31-Aug-16 | 13-Sep-16 |
| PCB-09-1220-2 | BCA (A2E) Construct Bay 20 Base Slab | 18 | 14-Sep-16 | 06-Oct-16 |

Actual Work

Remaining Work

Critical Remaining Work

Milestone

3 MONTH R

| Activity ID | Activity Name | Original Duration | Start | Finish |
|----------------------------------|---|-------------------|-------------|-----------|
| | | | | |
| PCB-09-1220-3 | BCA (A2E) Construct Bay 20 Wall and Roof Slab | 18 | 07-Oct-16 | 28-Oct-16 |
| Bay 21 | | | | |
| PCB-09-1230-1 | BCA (A2E) Excavate and Construct PC22 | 12 | 24-Aug-16 | 06-Sep-16 |
| PCB-09-1230-2 | BCA (A2E) Construct Bay 21 Base Slab | 18 | 07-Sep-16 | 28-Sep-16 |
| PCB-09-1230-3 | BCA (A2E) Construct Bay 21 Wall and Roof Slab | 18 | 29-Sep-16 | 21-Oct-16 |
| Bay 22 | | | | |
| PCB-09-1240-1 | BCA (A2E) Excavate and Construct PC23 | 12 | 07-Sep-16 | 21-Sep-16 |
| PCB-09-1240-2 | BCA (A2E) Construct Bay 22 Base Slab | 18 | 22-Sep-16 | 14-Oct-16 |
| PCB-09-1240-3 | BCA (A2E) Construct Bay 22 Wall and Roof Slab | 18 | 15-Oct-16 | 04-Nov-16 |
| Bay 23 | | | | |
| PCB-09-1260-1 | 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 | | | | |
| PCB-09-1270-1 | BCA (A2E) Excavate and Construct PC25 | 12 | 14-Sep-16 | 28-Sep-16 |
| PCB-09-1270-2 | BCA (A2E) Construct Bay 24 Base Slab | 18 | 29-Sep-16 | 21-Oct-16 |
| PCB-09-1270-3 | BCA (A2E) Construct Bay 24 Wall and Roof Slab | 18 | 22-Oct-16 | 11-Nov-16 |
| Portion B | | | | |
| Portion B | | | | |
| PCB-09-1940 | BCA (B) Install S1 Level ELS | 9 | 15-Jul-16 A | 06-Aug-16 |
| PCB-09-2130 | BCA (B) Excavation (45m) (Bays 25 to 27) | 12 | 01-Aug-16 | 13-Aug-16 |
| Bay 25 | | | | |
| PCB-09-1280-1 | BCA (B)and Construct PC26 | 12 | 29-Sep-16 | 14-Oct-16 |
| PCB-09-1280-2 | BCA (B) Construct Bay 25 Base Slab | 18 | 15-Oct-16 | 04-Nov-16 |
| Bay 26 | | | | |
| PCB-09-1330-1 | BCA (B) Excavate and Construct PC27 | 12 | 15-Oct-16 | 28-Oct-16 |
| PCB-09-1330-2 | BCA (B) Construct Bay 26 Base Slab | 18 | 29-Oct-16 | 18-Nov-16 |
| Bay 27 | | | | |
| PCB-09-1340-1 | 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 Pump House | | | | |
| RC Structures | | | | |
| Foundations | | | | |
| PCB-13A-750 | SWP - Jetgrouting | 77 | 11-Jul-16 A | 07-Oct-16 |
| PCB-13A-140 | SWP - Construct Pile caps & Tie beams | 12 | 08-Oct-16 | 22-Oct-16 |
| Basement | | | | |
| PCB-13A-150 | SWP - Construct Basement Base Slab at -2.8mPD (Including Waterproofing) | 12 | 24-Oct-16 | 05-Nov-16 |
| Northern Footbridge Links | | | | |
| Pile Caps & Piers | | | | |
| Footbridge 1 | | | | |
| Pier P1 - GL.A | | | | |
| PCB-03-980 | NFB1(P1) - VSL Install Roof Erection Temp Footings above P1 | 8 | 01-Aug-16 | 09-Aug-16 |
| PCB-03-990 | NFB1(P1) - VSL Install Roof Erection Temp Support Towers P1 | 6 | 10-Aug-16 | 16-Aug-16 |
| Pier P2 - GL.B | | | | |
| PCB-03-1020 | NFB1(P2) - VSL Install Roof Erection Temp Footings above P2 | 8 | 10-Aug-16 | 18-Aug-16 |
| PCB-03-1030 | NFB1(P2) - VSL Install Roof Erection Temp Support Towers at P2 | 6 | 19-Aug-16 | 25-Aug-16 |
| Abutment | | | | |
| PCB-03-1280 | NFB1(A) - Open Cut and Blind Excavation for Abutment | 3 | 01-Aug-16 | 03-Aug-16 |
| PCB-03-1290 | NFB1(A) - Construct Abutment | 10 | 04-Aug-16 | 15-Aug-16 |
| Footbridge 2 | | | | |
| Pier P1 - GL.A | | | | |
| PCB-03-1060 | NFB2(P1) - VSL Install Roof Erection Temp Footings above P1 | 8 | 01-Aug-16 | 09-Aug-16 |
| PCB-03-1070 | NFB2(P1) - VSL Install Roof Erection Temp Support Towers P1 | 6 | 18-Aug-16 | 24-Aug-16 |
| Pier P2 - GL.B | | | | |
| PCB-03-1180 | NFB2(P2) - VSL Install Roof Erection Temp Footings above P2 | 8 | 10-Aug-16 | 18-Aug-16 |
| PCB-03-1190 | NFB2(P2) - VSL Install Roof Erection Temp Support Towers at P2 | 6 | 19-Aug-16 | 25-Aug-16 |
| Abutment | | | | |
| PCB-03-1300 | NFB2(A) - Open Cut and Blind Excavation for Abutment | 3 | 04-Aug-16 | 06-Aug-16 |
| PCB-03-1310 | NFB2(A) - Construct Abutment | 10 | 08-Aug-16 | 18-Aug-16 |
| Footbridge 3 | | | | |
| Pier P1 - GL.A | | | | |
| PCB-03-1100 | NFB3(P1) - VSL Install Roof Erection Temp Footings above P1 | 8 | 01-Aug-16 | 09-Aug-16 |
| PCB-03-1110 | NFB3(P1) - VSL Install Roof Erection Temp Support Towers P1 | 6 | 18-Aug-16 | 24-Aug-16 |
| Pier P2 - GL.B | | | | |
| PCB-03-1220 | NFB3(P2) - VSL Install Roof Erection Temp Footings above P2 | 8 | 10-Aug-16 | 18-Aug-16 |
| PCB-03-1230 | NFB3(P2) - VSL Install Roof Erection Temp Support Towers at P2 | 6 | 19-Aug-16 | 25-Aug-16 |

Actual Work

Remaining Work

Critical Remaining Work

Milestone

3 MONTH ROLLING PROGRAMME

Page 11 of 12

| | | | |
|------|---------------------------|---------|----------|
| Date | Revision | Checked | Approved |
| | 3-Month Rolling Programme | | |
| | | | |
| | | | |
| | | | |



APPENDIX D

Event and Action Plan

Event/Action Plan for Air Quality

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

| EVENT | ACTION | | | |
|---|--|---|--|---|
| | ET | IEC | ER | CONTRACTOR |
| LIMIT LEVEL | | | | |
| 1. Exceedance for one sample | 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. | 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. | 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate. |
| 2. Exceedance for two or more consecutive samples | 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. | 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. |

Event / Action Plan for Construction Noise Monitoring

| EVENT | ACTION | | | |
|--------------|--|---|--|---|
| | ET | IEC | ER | CONTRACTOR |
| Action Level | <ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5 Increase monitoring frequency to check mitigation effectiveness. | <ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. | <ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals. |
| Limit Level | <ol style="list-style-type: none"> 1. Inform IEC, ER, EPD and Contractor; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. |



APPENDIX E

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 | 1) 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 $500 \mu\text{gm}^{-3}$ and $260 \mu\text{gm}^{-3}$, respectively) | √ |
| S5.5.6.2 | A2 | 2) Proper watering of exposed spoil should be undertaken throughout the construction phase: <ul style="list-style-type: none"> Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not 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 $500 \mu\text{gm}^{-3}$ and $260 \mu\text{gm}^{-3}$, 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 | <ul style="list-style-type: none"> When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top 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 $500 \mu\text{g m}^{-3}$ and $260 \mu\text{g m}^{-3}$, 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 | <ul style="list-style-type: none"> Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally 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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$, respectively) | √ |
| 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 | √ |
| 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 | √ |
| 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 | <ul style="list-style-type: none"> 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 $\mu\text{g}\text{m}^{-3}$ and 260 $\mu\text{g}\text{m}^{-3}$, 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 | <p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant:</p> <ul style="list-style-type: none"> • Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; • All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; • Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; • The materials which may generate airborne dusty emissions should be wetted by water spray system; • All receiving hoppers should be enclosed on three sides up to 3m above unloading point; • All conveyor transfer points should be totally enclosed; • All access and route roads within the premises should be paved and wetted; and • Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body. | 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 | <ul style="list-style-type: none"> • 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 $500 \mu\text{g m}^{-3}$ and $260 \mu\text{g m}^{-3}$, respectively) | N/A |
| S5.5.2.7 | A7 | <p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> • All road surface within the barging facilities will be paved; • Dust enclosures will be provided for the loading ramp; • Vehicles will be required to pass through designated wheels wash facilities; and • Continuous water spray at the loading points. | 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 |
|---------------------------------------|--------------|---|---|--------------------------------|---|---------------------------------|---|-----------------------|
| Construction Noise (Air borne) | | | | | | | | |
| S6.4.10 | N1 | <p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. | Control construction airborne noise by means of good site practices | Contractor | All construction sites | Construction stage | Noise Control Ordinance | √ |
| S6.4.11 | N2 | 2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period. | Reduce the construction noise levels at low-level zone of NSRs through partial screening. | Contractor | All construction sites | Construction stage | <ul style="list-style-type: none"> Noise Control Ordinance Annex 5, TM-EIA | N/A |
| S6.4.12 | N3 | 3) Install movable noise barriers (typically density @14kg/m ²), 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 | <ul style="list-style-type: none"> 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 | 4) 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 | Construction stage | <ul style="list-style-type: none"> Noise Control Ordinance & its TM Annex 5, TM-EIA | √ |
| 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 | <ul style="list-style-type: none"> Noise Control Ordinance Annex 5, TM-EIA | √ |
| / | 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 | <ul style="list-style-type: none"> 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 | | | | | | | | |
| S7.3 | S1 | 1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate. | Develop sediment disposal arrangement | Engineer | All construction sites | Design stage | <ul style="list-style-type: none"> 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 Management (Construction Waste) | | | | | | | | |
| S8.3.8 | WM1 | <p><u>Construction and Demolition Material</u></p> <p>The following mitigation measures should be implemented in handling the waste:</p> <ul style="list-style-type: none"> • Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; • Carry out on-site sorting; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • 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 | <ul style="list-style-type: none"> • 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 |
|-----------------|--------------|--|---|--------------------------------|--------------------------|---------------------------------|---|-----------------------|
| S8.3.9-S8.3.11 | WM2 | <u>C&D Waste</u> <ul style="list-style-type: none"> Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. | 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 | <ul style="list-style-type: none"> Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TC 19/2005 | √ |
| S8.2.12-S8.3.15 | WM3 | <u>Chemical Waste</u> <ul style="list-style-type: none"> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. | Control the chemical waste and ensure proper storage, handling and disposal. | Contractor | All construction sites | Construction stage | <ul style="list-style-type: none"> Waste Disposal (Chemical Waste) General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste | √ |

| 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 |
|----------|--------------|---|--|--------------------------------|--------------------------|---------------------------------|--|-----------------------|
| | | <ul style="list-style-type: none"> Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. | | | | | | √ |
| S8.3.16 | WM4 | <u>Sewage</u> <ul style="list-style-type: none"> Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly. | Proper handling of sewage from worker to avoid odour, pest and litter impacts | Contractor | All construction sites | Construction stage | <ul style="list-style-type: none"> Waste Disposal Ordinance | √ |
| S8.3.17 | WM5 | <u>General Refuse</u> <ul style="list-style-type: none"> General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by 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 | <ul style="list-style-type: none"> 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 Quality (Construction Phase) | | | | | | | | |
| S.9.11.1.7 | W2 | <p><u>Land Works</u> General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:</p> <ul style="list-style-type: none"> • wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; • sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; • storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; • silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; • temporary access roads should be surfaced with crushed stone or gravel; • rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; • measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; • open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; • manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; • discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; | To control construction water quality | Contractor | Land-based works areas | Construction stage | TM-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 |
|-----------|--------------|--|---|--------------------------------|--------------------------|---------------------------------|---|-----------------------|
| S9.11.1.7 | W2 | <ul style="list-style-type: none"> all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel; wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. | To control construction water quality | Contractor | Land-based works areas | Construction stage | TM-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 (Construction Phase) | | | | | | | | |
| S10.7 | E4 | <ul style="list-style-type: none"> Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater | Prevent Sedimentation from Land-based works areas | Contractor | Land-based works areas | During construction | TM-Water | √ |
| S10.7 | E5 | <ul style="list-style-type: none"> Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time | Prevent disturbance to terrestrial fauna and habitats | Contractor | Land-based works areas | During construction | | √ |
| S10.7 | E8 | <ul style="list-style-type: none"> 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 | | √ |
| Fisheries | | | | | | | | |
| S11.7 | F4 | <ul style="list-style-type: none"> 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 | <p>General design measures include:</p> <ul style="list-style-type: none"> Roadside planting and planting along the edge of the HKBCF Island is proposed; Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; Protection measures for the trees to be retained during construction activities; Optimizing the sizes and spacing of the bridge columns; Fine-tuning the location of the bridge columns to avoid visually-sensitive locations; 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 |
|--|--------------|--|---|--------------------------------|--------------------------|---------------------------------|---|--------------------------|
| <i>Landscape & Visual (Construction Phase)</i> | | | | | | | | |
| S14.3.3.3 | LV2 | <p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</p> <p>G3. Not applicable as this is for HKLR.</p> <p>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</p> <p>G5. Vegetation reinstatement and upgrading to disturbed areas</p> <p>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</p> <p>G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;</p> <p>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</p> <p>G9. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.</p> | Minimise visual & landscape impact | Contractor | HKBCF | Construction stage | | N/A |
| S14.3.3.3 | LV3 | <p><u>Mitigate Visual Impacts</u></p> <p>V1.Minimize time for construction activities during construction period.</p> <p>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.</p> | | | | | | √ for V1. N/A for V2. |

| 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 |
|-----------------|--------------|--|---|--------------------------------|--------------------------|---------------------------------|---|-----------------------|
| 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 | | <ul style="list-style-type: none"> EIAO Guidance Note No.4/2002 TM-EIAO | √ |
| S15.5 - S15.6 | EM2 | 1) An Environmental Team needs to be employed as per the EM&A Manual. 2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. 3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. | Perform environmental monitoring & auditing | Contractor | All construction sites | | <ul style="list-style-type: none"> EIAO Guidance Note No.4/2002 TM-EIAO | √ |

Legends: √ = Implemented; X = Not implemented; N/A = Not applicable



APPENDIX F

Site Audit Findings and Corrective Actions

Appendix F – Site Audit Findings and Corrective Actions

- 1.1.1 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, thirteen site inspections were carried out on 6, 13, 20 and 27 July, 3, 10, 17, 24 and 31 August and 7, 14, 21 and 28 September 2016.
- 1.1.2 Particular observations during the site inspections are described in the table below.

| 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. | 1. 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 | 2. The doors of power room were closed when a crawler crane was in operation. | |
| 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. | 1. The haul road at eastern side of site area was observed wet. | 3 August 2016 |
| | 2. A chemical Drum was found on the ground without drip tray near seawater pump house | 2. The chemical drum near the seawater pump house was removed. | |
| | 3. Construction waste was accumulated on the ground near seawater pump house. | 3. The construction waste near the seawater pump house was removed. | |
| 3 August 2016 | No particular environmental issue was recorded during the site inspection. | Nil | Nil |
| 10 August 2016 | 1. Chemical Containers were found on the ground near Box Culvert A. | 1. The chemical containers were removed from Box Culvert A. | 17 August 2016 |

| Date of Audit | Observations | Actions Taken by Contractor / Recommendation | Date of Observations Closed |
|-------------------|--|--|---|
| | 2. An oil stain was found on the ground near Box Culvert A. | 2. The oil stain was cleared on the ground from Box Culvert A. | |
| | 3. Oil Product was stored in plastic bottles and found without proper drip trays near Box Culvert A. | 3. The oil product which was stored in plastic bottles was removed from Box Culvert A. | |
| 17 August 2016 | 1. Dust emission was generated from jet grouting work at seawater pump house. | 1. Water spraying was provided for the grouting works. | 24 August 2016 |
| 24 August 2016 | 1. Food containers were found on the ground floor slab | 1. The food containers were cleared from the ground floor slab. | 31 August 2016 |
| 31 August 2016 | 1. An oil stain was found on the ground at PCB building. | 1. The oil stain was cleared on the ground at PCB building | 7 September 2016 |
| 7 September 2016 | 1. Stagnant water/ chemicals inside a drip tray was nearly full. | 1. The chemicals and drip tray were removed. | 14 September 2016 |
| | 2. Oil product was stored in plastic bottles near site office and no drip trays were provided for these plastic bottles. | 2. The plastic bottles were removed. | |
| 14 September 2016 | 1. General refuse was accumulated at WA1. | 1. The general refuse was removed from WA1 | 21 September 2016 |
| | 2. Mould oil spillage was observed at WA1. | 2. The mould oil was cleaned up at WA1. | |
| 21 September 2016 | 1. Silty wastewater discharge into marine waters through the seawall was observed. | 1. No silty wastewater discharged into marine water. An additional wastewater treatment facility was on-site and it would be used to treat the wastewater generated on-site. | 28 September 2016 |
| 28 September 2016 | 1. Chemical containers were not placed inside a drip tray. | 1. The Contractor was reminded to provide a drip tray for the chemical containers. | Follow-up actions undertaken by the Contractor will be inspected during the site inspection to be undertaken in October 2016. |
| | 2. No chemical labels were provided for chemical containers. | 2. The Contractor was reminded to provide proper chemical labels for the chemical containers. | |



APPENDIX G

Waste Flow Table

Name of Department: Highways Department

Contract No.: HY/2013/01

Monthly Summary Waste Flow Table for 2016



| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|-----------|--|--|---------------------------|--|---|--------------------------|---|--|---|-------------------|--------------------------------|
| | 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 | 4.056 | 0.000 | 4.056 | 0.000 | 0.000 | 9.290 | 15.930 | 1.344 | 0.000 | 0.000 | 0.390 |
| September | 0.806 | 0.000 | 0.806 | 0.000 | 0.000 | 2.591 | 30.360 | 1.290 | 0.000 | 0.000 | 0.469 |
| October | | | | | | | | | | | |
| November | | | | | | | | | | | |
| December | | | | | | | | | | | |
| Total | 20.377 | 1.749 | 4.862 | 3.614 | 11.901 | 39.195 | 713.350 | 7.736 | 0.000 | 4.400 | 2.431 |

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

Contract No.: HY/2013/01



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.

Monthly Summary of Excavated Marine Sediment for 2016

| Month | a. Estimated Volume of Excavated Marine Sediment Generated (m³) | b. Estimated Volume of Accumulated Excavated Marine Sediment Treated (m³) | c. Reused in the Contract (m³) | d. Estimated Volume of Excavated Marine Sediment Reused in Other Project (m³) ⁽²⁾ | e. Estimated Volume of Treated Excavated Marine Sediment Stored on Site (Unused) (m³) |
|------------------|---|---|--|--|---|
| 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 |
| Aug 2016 | 0 | 0 | 0 | 0 | 0 |
| Sep 2016 | 0 | 0 | 0 | 0 | 0 |
| Total | 2,993 | 3,996 | 5,751 | 0 | 0 ⁽¹⁾ |

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 H

Environmental Licenses and Permits

Environmental License/ Permits /Notification Register

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

| Item No. | Permit/License or Registration Application | | | Permit/License/ Notification/ Registration Description | Permit/License/ Registration Number | Issue/Start Date | Expiry Date | Issuing Office | Remark |
|----------|--|-------------|-------------------------|---|-------------------------------------|------------------|-------------|----------------|-----------------------------|
| | Work Area | Date | Reference | | | | | | |
| 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

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

| Item No. | Permit/License or Registration Application | | | Permit/License/ Notification/ Registration Description | Permit/License/ Registration Number | Issue/Start Date | Expiry Date | Issuing Office | Remark |
|----------|--|-------------|-------------------------|---|-------------------------------------|------------------|-------------|----------------|----------------------------|
| | Work Area | Date | Reference | | | | | | |
| 7. | PCB | 30 Apr 2014 | H2620-LTR- EPD-000002 | Notification 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 | Notification 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 lubrication 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 | 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-RS0683-14 | 3 Jul 2014 | 29 Dec 2014 | EPD | Superseded by GW-RS0908-14 |

Environmental License/ Permits /Notification Register

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

| Item No. | Permit/License or Registration Application | | | Permit/License/ Notification/ Registration Description | Permit/License/ Registration Number | Issue/Start Date | Expiry Date | Issuing Office | Remark |
|----------|--|-------------|-------------------------|---|-------------------------------------|------------------|-------------|----------------|----------------------------|
| | Work Area | Date | Reference | | | | | | |
| 12. | WA2 | 2 Jul 2014 | H2620-LTR-LCJ-AU-000280 | CNP 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 | CNP 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 | 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-RS0908-14 | 3 Sep 2014 | 22 Dec 2014 | EPD | Superseded by GW-RS1044-14 |
| 15. | PCB | 29 Sep 2014 | H2620-LTR-EPD-AU-000034 | 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-RS1044-14 | 29 Sep 2014 | 24 Dec 2014 | EPD | Superseded by GW-RS1300-14 |

Environmental License/ Permits /Notification Register

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

| Item No. | Permit/License or Registration Application | | | Permit/License/ Notification/ Registration Description | Permit/License/ Registration Number | Issue/Start Date | Expiry Date | Issuing Office | Remark |
|----------|--|-------------|-------------------------|---|-------------------------------------|------------------|-------------|----------------|--------------------------------------|
| | Work Area | Date | Reference | | | | | | |
| 16. | WA2 | 12 Sep 2014 | H2620-LTR-EPD-AU-000032 | CNP 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 | CNP 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 | 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-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

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

| Item No. | Permit/License or Registration Application | | | Permit/License/ Notification/ Registration Description | Permit/License/ Registration Number | Issue/Start Date | Expiry Date | Issuing Office | Remark |
|----------|--|-------------|-------------------------|---|-------------------------------------|------------------|-------------|----------------|----------------------------|
| | Work Area | Date | Reference | | | | | | |
| 20. | PCB | 12 Mar 2015 | H2620-LTR-EPD-AU-000051 | 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-RS0308-15 | 26 Mar 2015 | 25 Jun 2015 | EPD | Superseded by GW-RS0476-15 |
| 21. | PCB | 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 | CNP 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. | PCB | 15 Apr 2015 | H2620-LTR-EPD-AU-000057 | 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-RS0476-15 | 1 May 2015 | 31 Jul 2015 | EPD | Superseded by GW-RS0685-15 |

Environmental License/ Permits /Notification Register

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

| Item No. | Permit/License or Registration Application | | | Permit/License/ Notification/ Registration Description | Permit/License/ Registration Number | Issue/Start Date | Expiry Date | Issuing Office | Remark |
|----------|--|-------------|-------------------------|---|-------------------------------------|------------------|-------------|----------------|-----------------------------------|
| | Work Area | Date | Reference | | | | | | |
| 24. | PCB | 9 Jun 2015 | H2620-LTR-EPD-AU-000063 | 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-RS0685-15 | 1 Jul 2015 | 30 Sep 2015 | EPD | Superseded by GW-RS0877-15 |
| 25. | WA4 | 29 Jun 2015 | H2620-LTR-EPD-AU-000066 | CNP 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 | 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-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

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

| Item No. | Permit/License or Registration Application | | | Permit/License/ Notification/ Registration Description | Permit/License/ Registration Number | Issue/Start Date | Expiry Date | Issuing Office | Remark |
|----------|--|-------------|-------------------------|---|-------------------------------------|------------------|-------------|----------------|----------------------------|
| | Work Area | Date | Reference | | | | | | |
| 28. | PCB | 22 Oct 2015 | H2620-LTR-EPD-AU-000075 | 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-RS1195-15 | 9 Nov 2015 | 8 Feb 2016 | EPD | Superseded by GW-RS1444-15 |
| 29. | PCB | 17 Dec 2015 | H2620-LTR-EPD-AU-000076 | 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-RS1444-15 | 31 Dec 2015 | 30 Mar 2016 | EPD | Superseded by GW-RS0191-16 |
| 30. | WA4 | 24 Dec 2015 | H2620-LTR-EPD-AU-000080 | CNP 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

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

| Item No. | Permit/License or Registration Application | | | Permit/License/ Notification/ Registration Description | Permit/License/ Registration Number | Issue/Start Date | Expiry Date | Issuing Office | Remark |
|----------|--|-------------|-------------------------|---|-------------------------------------|------------------|-------------|----------------|----------------------------|
| | Work Area | Date | Reference | | | | | | |
| 32. | PCB | 18 May 2016 | H2620-LTR-EPD-AU-000086 | 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-RS0543-16 | 2 Jun 2016 | 1 Sep 2016 | EPD | Superseded by GW-RS0879-16 |
| 33. | WA4 | 20 Jun 2016 | H2620-LTR-EPD-AU-000089 | CNP 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 | |
| 34. | PCB | 09 Aug 2016 | H2620-LTR-EPD-AU-000092 | 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-RS0879-16 | 23 Aug 2016 | 22 Dec 2016 | EPD | |



APPENDIX I

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions



Complaint Register

| Complaint No. | Complaint Received Date | Category | Complaint Details | Follow up Action /Recommendation | Status |
|---------------|-------------------------|-----------------------|---|---|---------|
| 001 | 22 May 2015 | Air Quality and Noise | According to ENPO's email to the ET on 22 May 2015, it was noted that EPD had received a complaint regarding the noise nuisance and dark smoke emission during the night time at HKBCF Project work area recently. | After investigation, there is no sufficient evidence to justify the concerned dark smoke and noise nuisance are related to Contract No. HY/2013/01. In this case, no follow up action is required. However, the Contractor has been reminded to provide maintenance for all machinery regularly to prevent dark smoke emission and comply with CNP conditions for construction works undertaken during the restricted hours. | Closed. |
| 002 | 13 July 2015 | Noise | According to ENPO's email to Highways Department on 13 July 2015, it is noted that EPD received a complaint regarding the noise nuisance generated from the construction site near Tung Chung Development Ferry Pier and HKBCF construction site opposite to Seaview Crescent during night time period from 3 to 12 July 2015. Afterwards, EPD sent an email to Highways Department on 15 July 2015 to clarify that the noise complaint referred to the noise generated due to excavation with a grab dredger, transfer of excavated material using a derrick barge and a tug boat, and backfilling with a pelican barge at the Hong Kong Boundary Crossing Facilities Site near Hong Kong Skycity Marriott Hotel. Based on EPD's record, the above construction activities were covered by Construction Noise Permit (CNP) no. GW-RS0503-15. | <p>The Contractor confirmed that CNP no. GW-S0503-15 is not for Contract No. HY/2013/01. In addition, no barges, dredger and tug boats were used for Contract No. HY/2013/01. Based on the investigation results, it is found that the noise nuisance is not related to Contract No. HY/2013/01. No follow up action is required.</p> <p>It is noted that the Contractor has Construction Noise Permit (CNP) No. GW-RS0685-15 to undertake construction works during restricted hours. The Contractor has been reminded to comply with CNP conditions for construction works undertaken during the restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following measures to minimize noise nuisance.</p> <ul style="list-style-type: none">– Minimize the quantities of plant used during restricted hours as far as practicable; and– Regular review of working duration for restricted hours works and switch off all unnecessary machinery and plant during restricted hours. | Closed |



Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

| Reporting Period | Cumulative Statistics | | |
|---|-----------------------|--------------------------|-------------------------|
| | Complaints | Notifications of summons | Successful prosecutions |
| This reporting period | 0 | 0 | 0 |
| From commencement date of contract to end of reporting period | 2 | 0 | 0 |