



Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
– Tai Hang to Wo Hop Shek
Interchange****Quarterly EM&A Report
for August 2017 to October 2017**

[11/2017]

	Name	Signature
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Attn: **Mr. James Penny**

Your Reference

EM&A for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange)

Our Reference

JFP/EC/ST/pl/T329380/22
.05/L-0192

**Environmental Permit No. EP-324/2008/E
Quarterly EM&A Summary Report for August 2017 to October 2017 for the portion of Stage 2 works under Contract No. HY/2012/06**

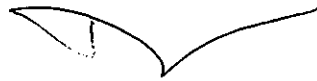
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We refer to the revised Quarterly EM&A Summary Report for August 2017 to October 2017 for the captioned Project received on 15 November 2017 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



Steven Tang
Independent Environmental Checker

c.c.
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EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project “Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling” is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under three works contracts. Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” and the entrusted portion to CEDD under Contract No. CV/2012/09 “Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3”. In addition, Contract No. “Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound” was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” in Stage 2 of the Project and “Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound” under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 “Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)”.

Pursuant to the EP (EP-324/2008/E) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 August 2017 and 31 October 2017. As informed by the Contractor, construction activities of Contract No. HY/12012/06 in the reporting period were as follows:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Footbridge demolition
- Bridge construction
- Piling

As informed by the Contractor, construction activities of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 in the reporting period were:

- Construction of type A footing with posts P01 and P02
- Construction of type F manhole
- Construction of NB74 Bay 1 to Bay 2

- Backfilling to NB74 Bay 3 to Bay 7
- Construction of Posts P03-P09
- Installation of ELS for NB74 Bay 8 to Bay 9
- Excavation for NB74 Bay 8B

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons or successful prosecution was received in the reporting period.

Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Project Organization and Contacts of Key Management

1.1.1 The project organization structure is shown in Appendix A. 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
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor of [HY/2012/06] (China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2672 2501
		C C Chow	9679 6315	2672 2501
Contractor of [02/HY/2015] (Chiu Hing Construction & Transportation Company Limited)	Safety Officer	Marty Tai	9106 5318	-
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

1.3 Summary of Construction Works

1.3.1 Details of the construction works of Contract No. HY/2012/06 carried out by the Contractor in this reporting period are listed below:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction

- Noise barrier
- Excavation
- Backfilling
- Drainage
- Footbridge demolition
- Bridge construction
- Piling

Details of the construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 carried out by the Contractor in this reporting period are listed below:

- Construction of type A footing with posts P01 and P02
 - Construction of type F manhole
 - Construction of NB74 Bay 1 to Bay 2
 - Backfilling to NB74 Bay 3 to Bay 7
 - Construction of Posts P03-P09
 - Installation of ELS for NB74 Bay 8 to Bay 9
 - Excavation for NB74 Bay 8B
- 1.3.2 The general layout plan of the Project site of Contract No. HY/2012/06 and Works Order Nos. CB128520-5 and CB128519-0 under 02/HY/2015 showing the contract areas are shown in Figure 1.1 and Figure 1.2 respectively.
- 1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 Monitoring Parameters

- 2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.
- 2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

2.2 Monitoring Locations

- 2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.3a.
- 2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.3a-b shows the locations of the monitoring stations.

2.3 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.
- 2.3.2 The environmental quality performance limits are given in Appendix D.

2.4 Environmental Mitigation Measures

- 2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

3 AIR QUALITY MONITORING

- 3.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days.
- 3.1.2 The weather was mostly sunny, occasionally fine, cloudy and rainy in the reporting quarter. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Table 3.1 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	70.0	62.1 – 76.6	317.8	500

Table 3.2 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	30.3	11.7 – 59.1	200.7	260

- 3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.
- 3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.
- 3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

- 4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.
- 4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

Table 4.1 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average (dB(A)) L_{eq} (30 mins)	Range (dB(A)) L_{eq} (30 mins)	Limit Level (dB(A)) L_{eq} (30 mins)
M2* (West Tai Wo)	69.1	66.0 – 70.9	75
M3# (Fanling Government Secondary School)	63.8	60.0 – 67.5	65/70

*+3dB(A) Façade correction included

Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

- 4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.
- 4.1.4 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 5.1.1 As advised by the Contractor of Contract No. HY/2012/06, 12,373 m³ of inert C&D material was generated in the reporting period (0m³ was broken concrete, 5,774m³ was reused in the Contract, 152m³ was reused in other Projects and 6,447m³ was disposed as public fill to Tuen Mun 38). 190 m³ of general refuse was disposed of at NENT landfill. 0 kg of metals, 216 kg of paper and 1,138 kg of plastics were collected by recycling Contractors, and 0 kg of chemical wastes were collected by licensed Contractors in the reporting period.
- 5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are summarized in Table 5.1.

Table 5.1 Summary of Waste Flow Table for Contract No. HY/2012/06

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	6,447 m ³	Tuen Mun 38
Broken concrete	0 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	190 m ³	NENT Landfill
Paper/cardboard packaging	216 kg	Recycling Facilities
Plastics	1,138 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	5,774 m ³	Site Area
C&D materials reused in other projects	152 m ³	Other projects
Chemical wastes	0 kg	Licensed Contractors

5.1.3 As advised by the Contractor of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015, 224 m³ of inert C&D material was generated in the reporting month (221 m³ disposed of as public fill to Tuen Mun 38, 0 m³ of inert C&D materials was reused on site, 0 m³ of inert C&D materials was reused in other projects and 3 m³ was broken concrete). For C&D wastes, 0 m³ of general refuse was disposed of at NENT landfill, 3 kg of paper/cardboard packaging, 4 kg of plastics and 0 kg of metals were collected by recycling Contractors in the reporting period.

5.1.4 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 5.2.

Table 5.2 Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	221 m ³	Tuen Mun 38
Broken concrete	3 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	0 m ³	NENT Landfill
Paper/cardboard packaging	3 kg	Recycling Facilities
Plastics	4 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	0 m ³	Site Area
C&D materials reused in other projects	0 m ³	Other projects

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

6.1.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.

6.1.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 No complaint, notification of summons or successful prosecution was received in the reporting period.
- 7.1.2 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.3 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

8.1 Comments

8.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

Contract No. HY/2012/06

Air Quality Impact

- The Contractor should remove the mud trail and ensure vehicles are wheel-washed properly before leaving the site.
- The Contractor was advised to provide valid NRMM labels to all equipment before operation.
- The Contractor was advised to water the open site area regularly to prevent windblown dust emission.
- The Contractor should cover the exposed stockpiles with impervious sheeting to prevent windblown dust emission.
- The Contractor was advised to remove dusty material on the paved surface of the entrance and access road.
- The Contractor should keep the access road clear of dusty materials with adequate watering.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor should remove the debris and general refuse found in drainage and ensure the flow of water without obstruction.
- The Contractor should remove the muddy water and implement measures to prevent sand from being flushed to public road.
- The Contractor was advised to remove damaged sand bag and maintain the protection of gully.
- The Contractor should remove the dusty materials near the entrance of the drainage system and implement sufficient measures to prevent debris entering the drainage system.

Chemical and Waste Management

- The Contractor should remove the general refuse and keep the site clean and tidy.
- The Contractor should provide a secondary containment for the chemical container to avoid potential leakage and provide proper label.
- The Contractor should improve the housekeeping condition to keep the site clean and tidy.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor should remove the stagnant water or apply larvicidal oil to prevent mosquito breeding.
- The Contractor was advised to remove the retained water to prevent mosquito breeding.

Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Air Quality Impact

- The Contractor should remove the mud trail and ensure vehicles are wheel-washed properly before leaving the site.
- The Contractor should ensure valid NRMM labels are provided to all NRMM before operation.
- The Contractor was advised to cover the exposed stockpile with impervious sheeting to prevent windblown dust emission.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor should remove the dusty materials and implement sufficient measures to prevent silt from entering the drainage system.

Chemical and Waste Management

- Nil.

Landscape and Visual Impact

- Nil.

Miscellaneous

- Nil.

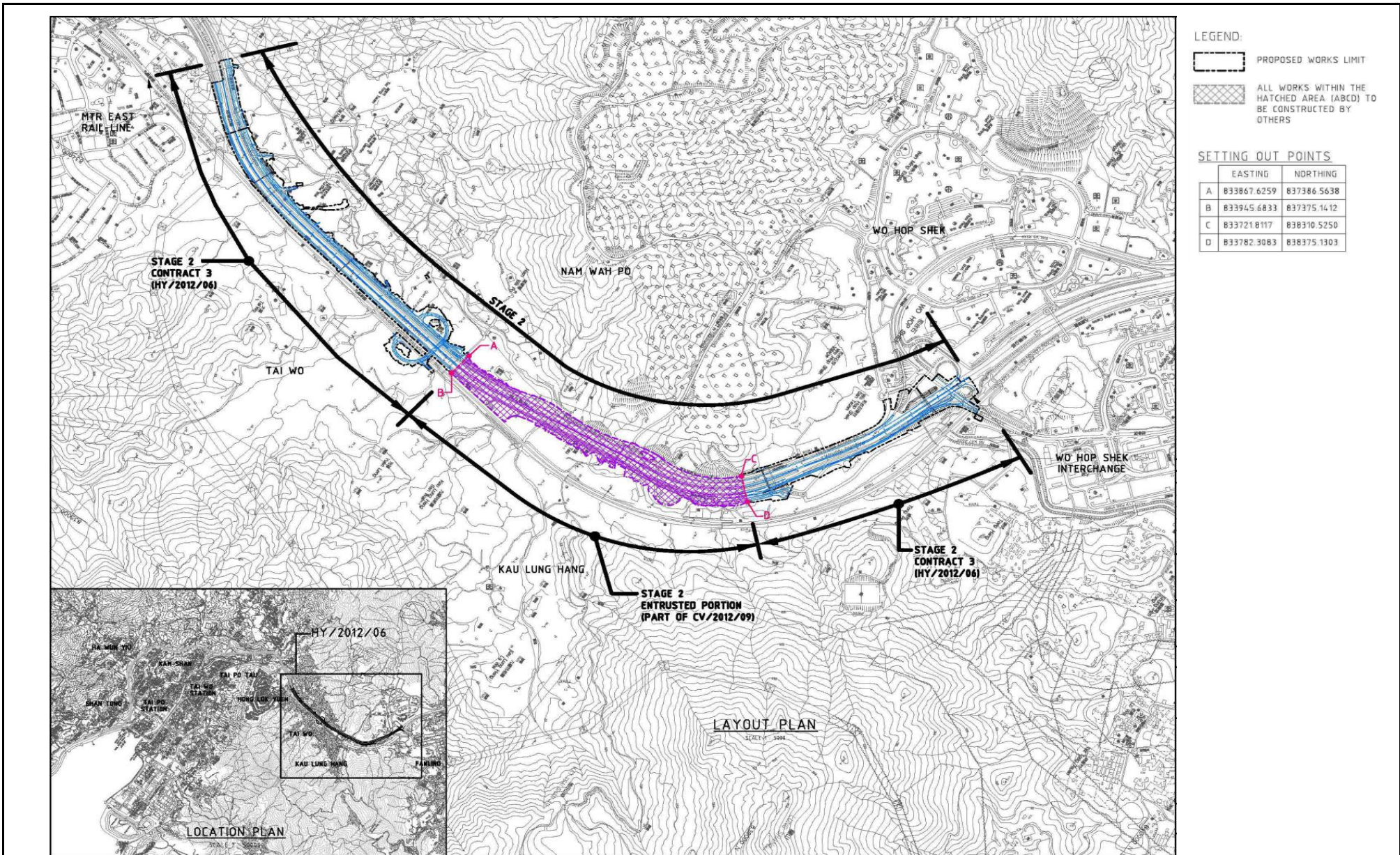
8.2 Recommendations

- 8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 8.3.3 No complaint, notification of summons or successful prosecution was received in the reporting period.

FIGURES



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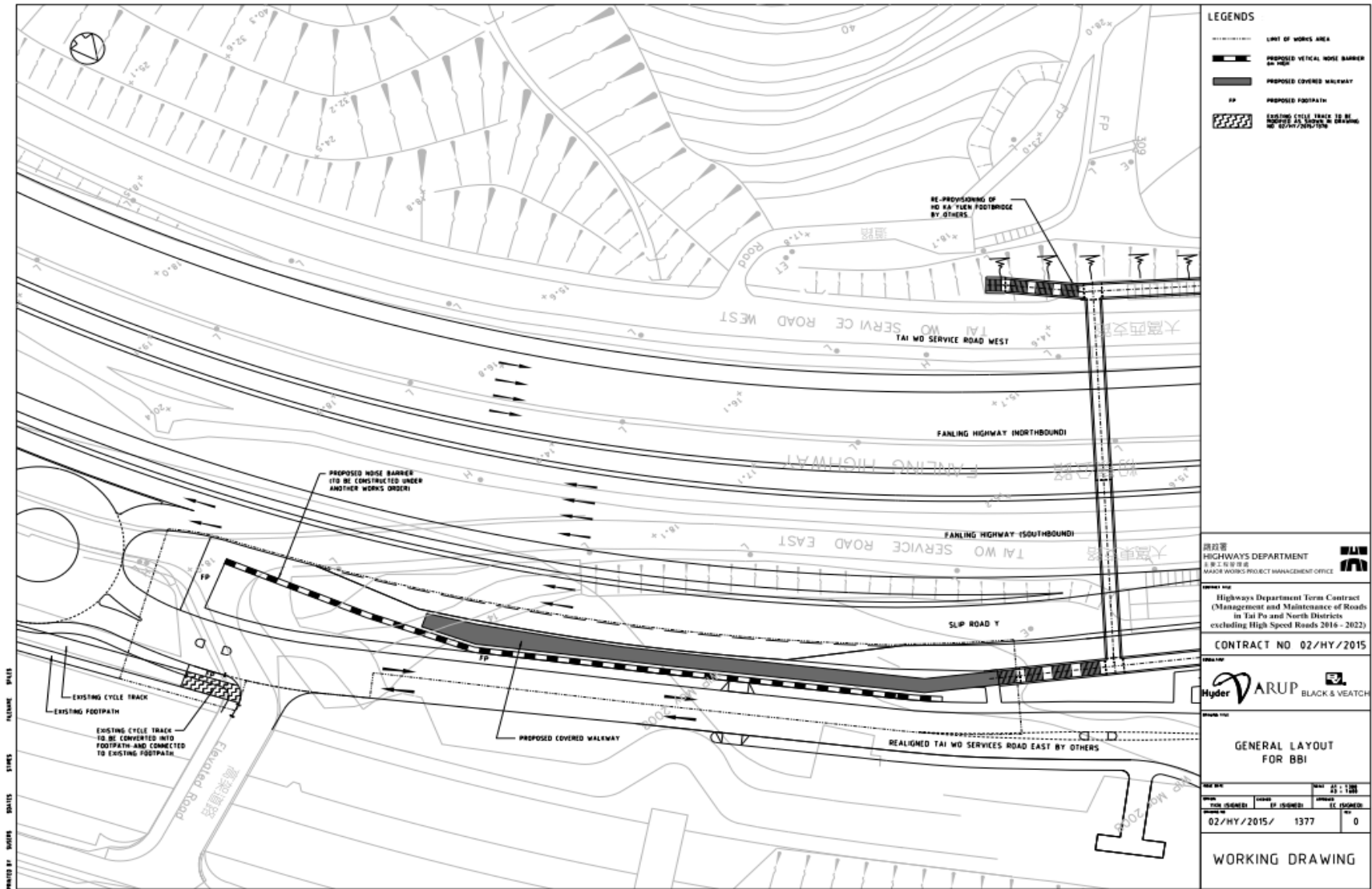
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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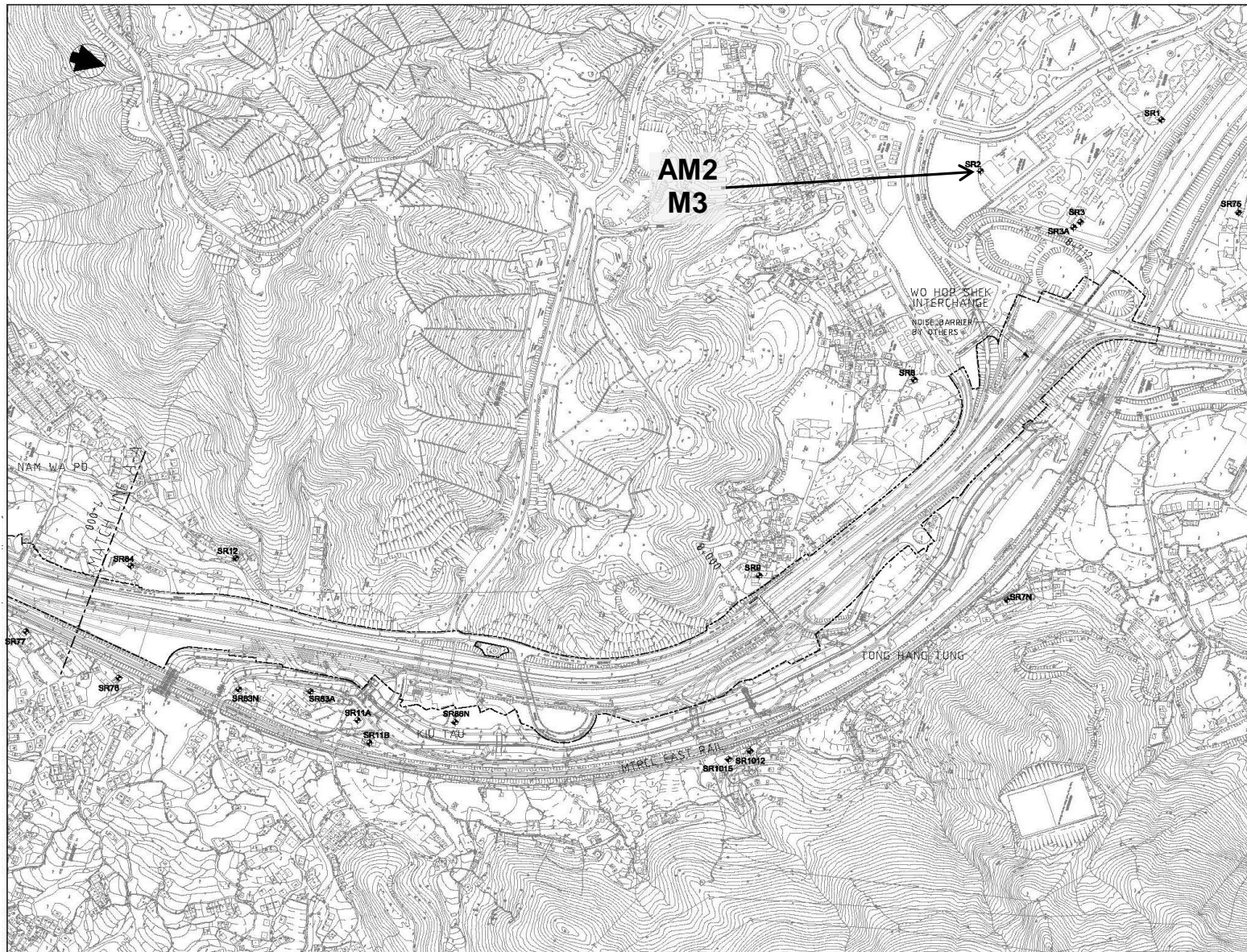
CONTRACT NO. 02/HY/2015
 PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



Layout Plan

Date: Apr 2017

Figure 1.2



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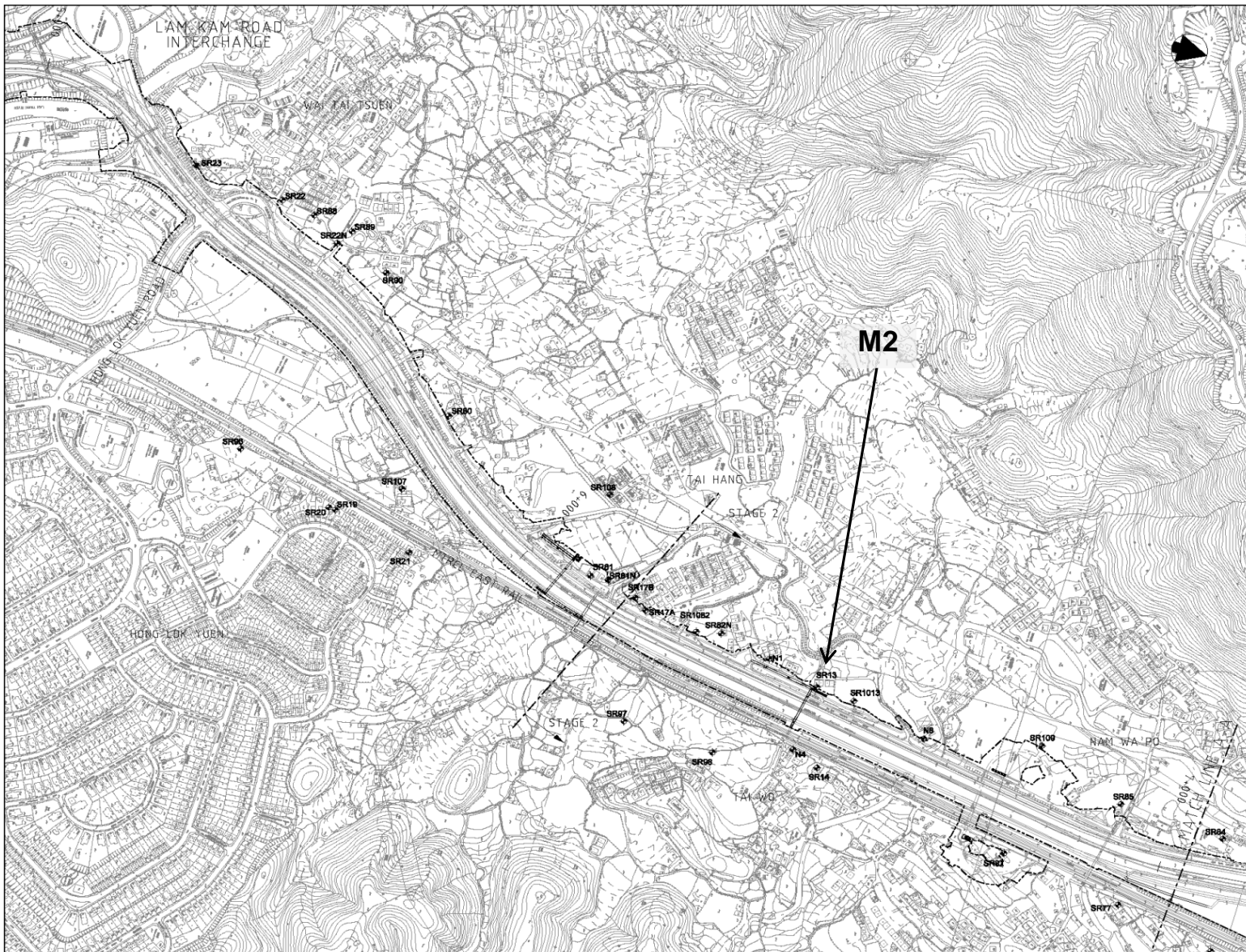
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.3a



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

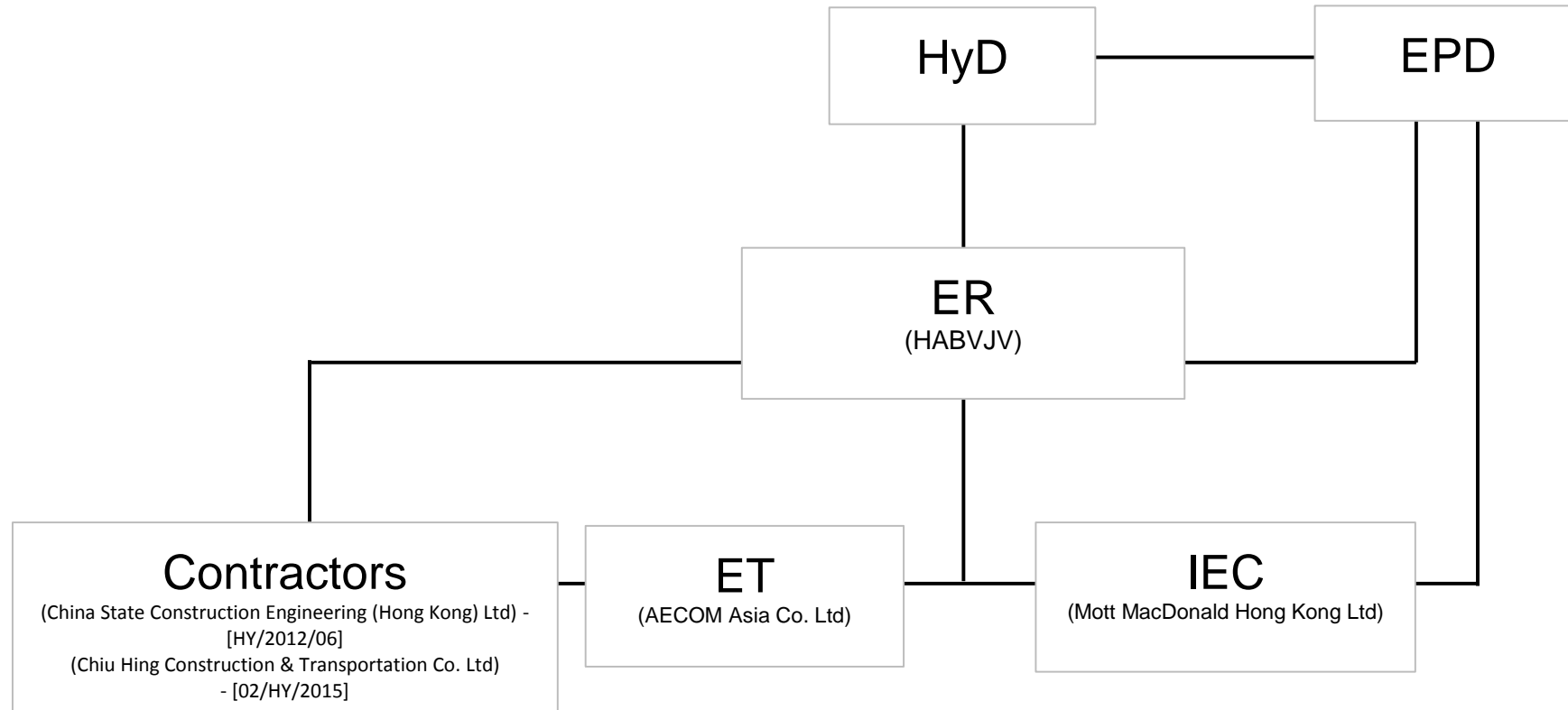


Locations of Monitoring Station

Date: Dec 2013

Figure 1.3b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

**CONSTRUCTION PROGRAMME OF
AUGUST 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Aug	Sep	Oct	Nov
Contract Condition											
General											
Contract Condition											
Contract Condition											
KD13	KD-13 (1309d) -S3: Connection of realigned Tai Wo Service Road	0%	0	0		04-Sep-17	0		04-Sep-17*	◆ KD-13 (1309d) -S3: Connection of realigned Tai Wo Service Road	
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Aug-17		1054			◆ Site Area SA323A (360d) (not required)	
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Aug-17*		-962			◆ Site Area SA327 (180d)	
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Aug-17*		-764			◆ Site Area SA327A (730d)	
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Aug-17*		-629			◆ Site Area SA345 (0d)	
ZONE 1 (Ch. 5640 to 5880)											
Noise Barrier Along Fanling Highway N/B											
Site Clearance & Demolition of Existing Structure											
Underground Utility Works											
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	85.29%	35	238	20-Dec-16 A	23-Sep-17	121				
NB43B (Ch.5640-5880)-FH N/B Side											
Noise Barrier Works											
NB01210	NB43B-1 (0-100m) - Sheet piling & Excavation	0%	18	18	19-Jul-17 A	09-Sep-17	192				
NB01220	NB43B-1 - Footing & Wall Structure	0%	40	40	25-Sep-17	13-Nov-17	180				
NB01230	NB43B-1 - backfilling	0%	12	12	14-Nov-17	27-Nov-17	260				
NB01240	NB43B-1 - NB production	0%	45	45	14-Nov-17	28-Dec-17	508				
NB01260	NB43B-2 (100-200m) - Sheet piling & Excavation	0%	18	18	23-Oct-17	13-Nov-17	180				
NB01270	NB43B-2 - Footing & Wall Structure	0%	40	40	14-Nov-17	02-Jan-18	180				
NB01310	NB43B-3 (200-260m) - Sheet piling & Excavation	95.96%	12	297	03-Jul-17 A	02-Jan-18	180				
Fanling Highway Construction											
Drainage & Road Works											
Ch 5640-5880											
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 4)	0%	20	20	06-Nov-17	28-Nov-17	-10				
ZONE 2 (Ch. 5880 to 6930)											
General											
DRM Proposal											
DRM Proposal											
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	87.72%	35	285	20-Oct-16 A	23-Sep-17	0				
ADVZ20230	Construct Temp Road at NB at North bound (0.5 HS+Lane 1 & 2)	89.9%	10	99	08-Apr-17 A	31-Aug-17	13				
ADVZ20240	Remove Existing Central Barrier at FLHY & Temp Road	0%	75	75	01-Sep-17	30-Nov-17	153				
ADVZ20250	FLHY N/B Lane 4 ready to Start	0%	0	0	28-Sep-17		-10			◆ FLHY N/B Lane 4 ready to Start	
Noise Barrier Along TWSR-West and Laying New Utilities											
NB54A (Ch.6290-6350)-TWSR West Side											
Noise Barrier Works											
NB00790	NB54A - NB post & panel installation	0%	5	5	21-Aug-17	25-Aug-17	497				
Bridge Construction											
New Tai Hang Footbridge											
General											
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	84.88%	52	344	20-Jul-16 A	21-Oct-17	179				
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	23-Oct-17		179			◆ Steel Staircase & Bridge	
TWSR-West/ FL Highway N/B Side Section											
THBF0620	Finishes Work	56.65%	88	203	27-Feb-17 A	04-Dec-17	233				
Crossing Fanling Highway Section											
THBF0560	THP1 - Pile cap, Pier and Pier Head	30%	63	90	29-Jul-17 A	04-Nov-17	190				
THBF0575	Erect Temp Tower at central divider	0%	18	18	28-Sep-17	20-Oct-17	202				
THBF0580	Erect THFB across fanling highway	0%	30	30	06-Nov-17	09-Dec-17	190				
TWSR-East FL Highway S/B Side Section											
THBF0470	THAB1 - pile cap & abutment wall	84.38%	35	224	21-Nov-16 A	29-Sep-17	206				
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	30-Sep-17	25-Oct-17	206				
THBF0570	Erect Staircase (THFB-TWSR-E side)	0%	30	30	07-Nov-17	11-Dec-17	197				
THBF0780	Modified existing column head of existing footbridge	0%	76	76	21-Aug-17	20-Nov-17	125				
Lift at TWSR-W Side											
L1520	Lift shaft & roof	97.58%	8	330	16-Jul-16 A	29-Aug-17	133				
L1530	Structural Laminated glass wall installation	0%	30	30	30-Aug-17	04-Oct-17	175				
L1540	RC Platform connect to bridge	0%	30	30	30-Aug-17	04-Oct-17	133				
L1550	Metal cover on RC platform	0%	30	30	06-Oct-17	10-Nov-17	133				
L1555	Glass canopy on ground level	0%	30	30	11-Nov-17	15-Dec-17	223				
L1560	Lift installation (NF115)	0%	70	70	11-Nov-17	03-Feb-18	145				
L1590	E&M and Finishes work	0%	120	120	11-Nov-17	11-Apr-18	133				
L1600	CLP Power available (by CLP)	93.19%	31	455	21-Jun-16 A	19-Sep-17	320				
Lift at FLHY S/B											
L1370	Lift shaft & roof	88.7%	34	301	20-Sep-16 A	28-Sep-17	121				
L1380	Structural Laminated glass wall installation	0%	30	30	29-Sep-17	06-Nov-17	151				
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	29-Sep-17	06-Nov-17	121				

	Project ID: WP Rev 05 (1708)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Aug-17)		Date	Revision	C.A
	Layout: 3 Month Rolling Program			30-Jun-14	WP Rev 1A	
Page 1 of 5				28-Aug-15	WP Rev 2	
				07-Apr-16	WP Rev 3	
				08-Nov-16	WP Rev 4	
				17-Aug-17	WP Rev 5	

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Aug	Sep	Oct	Nov
L1400	Roof cover for RC Platform	0%	30	30	07-Nov-17	11-Dec-17	121				
L1450	CLP Power available (by CLP)	80.9%	93	487	21-Jun-16 A	20-Nov-17	260				
Demolition of Existing Tai Hang Footbridge											
Crossing Fanling Highway Section											
Z2.THF.1090	Erect Temp platform for bridge demolition	0%	60	60	06-Nov-17	17-Jan-18	199				
New Tai Wo Footbridge											
General											
TWFB1090	Steel Bridge prefabrication (TWFB)	88.92%	37	334	15-Aug-16 A	03-Oct-17	330				
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	04-Oct-17		330				◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway N/B Side Section											
TWFB1390	Finishes Work	71.25%	23	80	20-May-17 A	15-Sep-17	465				
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		15-Sep-17	465				◆ Bridge Structure complete (TWFB-TWSR-W side)
Lift at TWSR-W Side											
L1670	Lift shaft & roof	83.29%	59	353	21-Jun-16 A	31-Oct-17	249				
L1680	Structural Laminated glass wall installation	0%	30	30	01-Nov-17	05-Dec-17	292				
L1690	RC Link slab connect to bridge	0%	30	30	01-Nov-17	05-Dec-17	249				
L1730	Lift submission & ordering period	83.42%	61	368	02-Jul-16 A	02-Nov-17	320				
L1780	CLP Power available (by CLP)	75.1%	121	486	20-Aug-16 A	18-Dec-17	435				
Temporary Tai Wo Footbridge											
Construction Works											
TWFB-T1070	TWFB across TWSR-W available	0%	0	0		11-Sep-17	-7				◆ TWFB across TWSR-W available
TWFB-T1074	Erect Temp tower at TWSR-W	0%	15	15	24-Aug-17*	09-Sep-17	-10				
TWFB-T1076	Connect Temp Bridge to new TW bridge at TWSR-W	0%	3	3	12-Sep-17	14-Sep-17	-10				
TWFB-T1078	Temp footing at NB60 bay 1	0%	4	2	16-Aug-17 A	24-Aug-17	0				
TWFB-T1079	Erect Temp tower at NB60 bay 1	0%	4	4	25-Aug-17	29-Aug-17	0				
TWFB-T1080	Erect Temp bridge from TWP1 to P2 to Existing Bridge	0%	1	1	11-Sep-17	11-Sep-17	-10				
TWFB-T1090	Diverse Pedestrian to TWFB ramp	0%	1	1	15-Sep-17	15-Sep-17	-10				
TWFB-T1100	Demolish Temp Ramp & laying temp road for TTA	0%	10	10	16-Sep-17	27-Sep-17	-10				
TWFB-T1190	TTA for temp column at new FLHY central divider	0%	0	0	28-Sep-17		-10				◆ TTA for temp column at new FLHY central divider
TWFB-T1195	G54 footing at central divider	0%	24	24	28-Sep-17	27-Oct-17	38				
TWFB-T1200	Erect temp column at new FLHY central divider	0%	24	24	30-Oct-17	25-Nov-17	38				
TWFB-T1205	Erect Temp Column & link bridge at FLHY N/B (besides TW-P2 & NB60)	0%	75	75	21-Aug-17	18-Nov-17	44				
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	60	60	18-Oct-17	29-Dec-17	11				
Noise Barrier Along Fanling Highway S/B											
NB46A (Ch.5880-5935)-FH S/B Side											
Noise Barrier Works											
NB02200	NB46A - Sheet piling & Excavation	65%	21	60	03-Jun-17 A	13-Sep-17	834				
NB02210	NB46A - Footing & Wall Structure	31.03%	60	87	17-Jun-17 A	01-Nov-17	387				
NB02220	NB46A- backfilling	0%	50	50	02-Nov-17	02-Jan-18	387				
NB02230	NB46A - NB production	0%	45	45	02-Nov-17	16-Dec-17	495				
NB51 (Ch.5935-6055)-FH S/B Side											
Noise Barrier Works											
NB02300	NB51 ID1-3 (0-25m) - NB production	81.33%	14	75	20-May-17 A	02-Sep-17	600				
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	04-Sep-17	08-Sep-17	485				
NB02330	NB51 (25-118m) - Footing & Wall Structure	87.87%	45	371	13-Mar-17 A	14-Jun-18	206				
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02380	NB52 - Footing & Wall Structure	88.43%	25	216	18-Nov-16 A	18-Sep-17	465				
NB02390	NB52- backfilling	50.98%	50	102	18-May-17 A	19-Oct-17	440				
NB02400	NB52 - NB production	58.33%	45	108	18-May-17 A	03-Oct-17	1009				
NB02410	NB52 - NB post & panel installation	94.44%	5	90	16-Jun-17 A	03-Nov-17	440				
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02430	Precautionary Measure installation	0%	26	26	21-Aug-17	19-Sep-17	303				
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	20-Sep-17	21-Oct-17	350				
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	23-Oct-17	04-Jan-18	350				
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	04-Oct-17	16-Oct-17	292				
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	17-Oct-17	17-Nov-17	292				
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	18-Nov-17	12-Dec-17	292				
NB02590	NB53 (125-180m) - NB production	96.82%	14	440	20-May-16 A	02-Sep-17	600				
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	04-Sep-17	08-Sep-17	485				
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02640	NB55 - Footing & Wall Structure	97.03%	24	809	07-Nov-14 A	16-Sep-17	292				
NB02650	NB55- backfilling	0%	50	50	18-Sep-17	17-Nov-17	292				
NB02660	NB55 - NB production	93.24%	40	592	15-Jan-16 A	28-Sep-17	574				
NB02670	NB55 - NB post & panel installation	0%	5	5	18-Nov-17	23-Nov-17	423				
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02730	NB56 - NB production	97.36%	14	530	20-Feb-16 A	02-Sep-17	600				
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Sep-17	08-Sep-17	485				
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Aug	Sep	Oct	Nov
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	21-Aug-17	09-Sep-17	11				
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	30	30	11-Sep-17	17-Oct-17	11				
NB02790	NB61 (0-50m)- backfilling	0%	50	50	18-Oct-17	15-Dec-17	404				
NB02800	NB61 (0-50m) - NB production	0%	45	45	18-Oct-17	01-Dec-17	510				
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Aug-17	03-Oct-17	569				
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Oct-17	10-Oct-17	460				
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02920	NB61A (0-50m) - NB production	91.98%	45	561	20-Feb-16 A	03-Oct-17	569				
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Oct-17	10-Oct-17	460				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	92.17%	57	728	01-Apr-15 A	27-Oct-17	405				
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	30-Oct-17	21-Nov-17	420				
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	28-Oct-17	11-Dec-17	500				
NB03040	NB61A (75-190m) - NB production	97.18%	15	531	20-Feb-16 A	03-Sep-17	599				
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Sep-17	08-Sep-17	485				
Box Culvert ID3 Works											
VO58 Extension of ID3											
ID30140	Wing Wall Construction	0%	75	75	03-Oct-17*	03-Jan-18	332				
Fanling Highway Construction											
Drainage & Road Works											
Ch 5880-6740											
RDZ41190	Z2 (CH5880-6740) : Fanling Highway Road works Start	0%	0	0	28-Sep-17		-10				◆ Z2 (CH5880-6740) : Fanling Highway Road w
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	0%	30	30	28-Sep-17	04-Nov-17	-10				
Other Works											
Site Clearance & Demolition of Existing Structure											
Contract Condition											
MCLT1090	New MCLT - finishes works	82.61%	72	414	20-May-16 A	15-Nov-17	430				
MCLT1100	New MCLT completion	0%	0	0		15-Nov-17	430				◆ Ne
TCSS Works											
G54											
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		17-Oct-17	424				◆ Slow lane footing - G54 (NB6
TCSS2080	Sheeting & excavation (4m)	0%	6	6	28-Sep-17	06-Oct-17	38				
TCSS2090	Fast lane footing - G54 (CH6470, S/B)	0%	18	18	07-Oct-17	27-Oct-17	38				
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB64 & NB64A (Ch.6860-6920)-TWSR West Side											
Noise Barrier Works											
NB003060	NB64A -Footing & Wall Structure - 1 bays	0%	35	35	19-Aug-17 A	29-Sep-17	427				
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	30-Sep-17	18-Nov-17	427				
Bridge Construction											
Kau Lung Hang Vehicular Bridge											
KLH Bridge - West Ramp											
KLH.1290	West Ramp - Planting	0%	21	21	21-Aug-17	13-Sep-17	481				
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	28-Sep-17	24-Oct-17	448				
KLH Bridge - Deck 1											
KLH.3430	Deck 1 - Planting	0%	21	21	21-Aug-17	13-Sep-17	481				
KLH Bridge - Deck 3											
KLH.3500	Deck 3 - Planting	0%	21	21	21-Aug-17	13-Sep-17	513				
KLH Bridge - East Ramp											
KLH.3590	East Ramp - Planting	0%	34	34	21-Aug-17	28-Sep-17	821				
KLH Bridge - Ramp R1											
Z2.KLH.3610	Ramp R1 - Steel roof	92.76%	11	152	19-Jan-17 A	01-Sep-17	491				
KLH Bridge - Ramp R2											
Z2.KLH.1550	Ramp R2 - Steel roof	86.44%	16	118	14-Mar-17 A	07-Sep-17	486				
Bridge Road Work											
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	21-Aug-17	13-Jan-18	382				
Lift at TWSR-W Side											
L01060	Lift shaft & roof	0%	52	52	03-Aug-17 A	21-Oct-17	331				
L01070	Structural Laminated glass wall installation	0%	30	30	23-Oct-17	27-Nov-17	331				
L01080	RC Platform connect to bridge	0%	30	30	23-Oct-17	27-Nov-17	331				
L01094	Lift submission & ordering period	79.43%	80	389	01-Aug-16 A	24-Nov-17	333				
L01140	CLP Power available (by CLP)	93.47%	33	505	04-Apr-16 A	21-Sep-17	561				
Lift at FLHY S/B											
L01220	Lift shaft & roof	54.12%	39	85	15-Jul-17 A	06-Oct-17	373				
L01230	Structural Laminated glass wall installation	0%	30	30	07-Oct-17	11-Nov-17	374				
L01240	RC Platform connect to bridge	0%	30	30	07-Oct-17	11-Nov-17	373				
L01250	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	13-Nov-17	13-Nov-17	373				
L01290	Finishes work	0%	60	60	13-Nov-17	24-Jan-18	373				
L01300	CLP Power available (by CLP)	83.39%	94	566	04-Apr-16 A	21-Nov-17	506				
TWSR-West Construction											
Drainage & Road Works											
General											
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	79.03%	13	62	20-Jun-17 A	04-Sep-17	0				
Noise Barrier Along Fanling Highway S/B											
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)											

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Aug	Sep	Oct	Nov	
Noise Barrier Works												
NB03090	NB62 (0-80m) - Footing & Wall Structure	74.35%	59	230	12-Dec-16 A	31-Oct-17	403					
NB03100	NB62 (0-80m) - backfilling	57.23%	68	159	27-Mar-17 A	10-Nov-17	429					
NB03110	NB62 (0-80m) - NB production	0%	45	45	01-Nov-17	15-Dec-17	496					
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	21-Aug-17*	02-Sep-17	372					
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	04-Sep-17	03-Oct-17	425					
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	04-Oct-17	20-Oct-17	446					
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	04-Oct-17	17-Nov-17	524					
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	18-Nov-17	23-Nov-17	423					
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	04-Sep-17	23-Sep-17	372					
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	25-Sep-17	06-Dec-17	372					
NB70 (Ch.6910-6930)-FH S/B Side												
Noise Barrier Works												
NB03290	NB70- NB post & panel installation	0%	5	5	21-Aug-17	25-Aug-17	497					
Fanling Highway Construction												
Drainage & Road Works												
Ch 6740-6930												
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	0%	24	24	28-Sep-17	27-Oct-17	40					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Bridge Construction												
New Ho Ka Yuen Footbridge												
TWSR-West/ FL Highway N/B Side Section												
HKY1440	Remaining Finishes works of HKYFB	79.04%	57	272	21-Nov-16 A	27-Oct-17	432					
HKY1520	VO11 - slope improvement work	0%	45	45	30-Oct-17	20-Dec-17	432					
TWSR-East FL Highway S/B Side Section												
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	88.1%	30	252	13-Oct-16 A	23-Sep-17	504					
Other Works												
Slope Works												
TWSR-East FL Highway S/B Side Section												
S1000	Slope S51-Fill ~3m	64.91%	40	114	20-Apr-17 A	07-Oct-17	458					
ZONE 4 (Ch. 7925 to 8700)												
Noise Barrier Along TWSR-West and Laying New Utilities												
Underground Utility Works												
DN450 DI Watermain "A" (Ch 1989-2529)												
DI0100	DN450 DI watermain laying (0-50m)	40%	18	30	07-Aug-17 A	09-Sep-17	135					
DI0110	DN450 DI watermain laying (50-100m)	0%	30	30	11-Sep-17	17-Oct-17	135					
DI0120	DN450 DI watermain laying (100-150m)	0%	30	30	18-Oct-17	22-Nov-17	135					
Noise Barrier Along Fanling Highway N/B												
NB75 (Ch.7930-8090)-FH N/B Side												
Noise Barrier Works												
NB4070	NB75 - backfilling (Ch7930-7990)	0%	20	20	05-Sep-17	27-Sep-17	50					
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	20-Aug-17	03-Oct-17	352					
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	04-Oct-17	10-Oct-17	286					
NB4130	NB75 - backfilling (Ch7990-8000)	0%	12	12	28-Sep-17	13-Oct-17	78					
NB4140	NB75 - NB production (Ch7990-8000)	0%	45	45	20-Aug-17	03-Oct-17	359					
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	14-Oct-17	19-Oct-17	283					
NB4190	NB75 - backfilling (Ch8000-8050)	0%	20	20	18-Oct-17	10-Nov-17	35					
NB4200	NB75 - NB production (Ch8000-8050)	0%	45	45	20-Aug-17	03-Oct-17	359					
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	11-Nov-17	16-Nov-17	260					
NB4250	NB75 - backfilling (Ch8050-8090)	0%	20	20	17-Nov-17	09-Dec-17	30					
NB4260	NB75 - NB production (Ch8050-8090)	0%	45	45	20-Aug-17	03-Oct-17	359					
NB4600	NB75 structure complete	0%	0	0		21-Aug-17	855					
NB4610	NB75 Drainage Works	22.5%	93	120	20-Jul-17 A	09-Dec-17	30					
NB77 (Ch.8090-8450)-FH N/B Side												
Noise Barrier Works												
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	33.75%	53	80	20-Jul-17 A	23-Oct-17	4					
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	24-Oct-17	07-Dec-17	281					
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	0%	80	80	30-Aug-17	04-Dec-17	34					
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	0%	80	80	12-Oct-17	17-Jan-18	34					
NB4480	NB77 - piling (NB77/N1- N2, 0.19m -24no) (confirming design by	30%	17	24	26-Jul-17 A	08-Sep-17	28					
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	0%	70	70	15-Sep-17	08-Dec-17	23					
NB4485	NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos)	0%	22	22	19-Aug-17 A	14-Sep-17	23					
NB4620	NB77 Drainage Works	0%	120	120	24-Oct-17	20-Mar-18	4					
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
WHS1105	W77A & W77B & backfilling work complete	0%	0	0		23-Oct-17	481					
WHS1140	Existing Wo Hop Shek Bridge Demolished	0%	0	0		12-Sep-17	19					
TWSR-West/ FL Highway N/B Side Section												
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	45.45%	30	55	20-Jun-17 A	23-Sep-17	262					
WHS1390	WHSAB2, P8, P9 - Backfilling (~3m)	0%	20	20	25-Sep-17	19-Oct-17	262					
WHS1400	2nd half Steel Ramp ready for erection (WHS-TWSR-W side)	0%	0	0		19-Oct-17	262					
WHS2040	Potential VO for WHS Ramp modification (1st stage)	0%	0	0	21-Aug-17*		150					

21-Aug-17 ♦ NB75 structure complete

23-Oct-17 ♦ W77A & W77B & backfilling work complete

12-Sep-17 ♦ Existing Wo Hop Shek Bridge Demolished

19-Oct-17 ♦ 2nd half Steel Ramp ready for erection

♦ Potential VO for WHS Ramp modification (1st stage)

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Aug	Sep	Oct	Nov
WHS2100	Shop Drawing preparation, submission & approval	0%	90	90	21-Aug-17	06-Dec-17	150				
WHS2110	Material procurement & testing	0%	60	60	25-Sep-17	06-Dec-17	150				
Crossing Fanling Highway Section											
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	21-Aug-17	01-Nov-17	438				
WHS1520	Remove railing	0%	12	12	02-Nov-17	15-Nov-17	438				
WHS1530	Bridge floor marking	0%	6	6	16-Nov-17	22-Nov-17	438				
Demolition of Existing Wo Hop Shek Pedestrian & Cycle Bridge											
TWSR-East FL Highway S/B Side Section											
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A (Instructed)	0%	20	20	21-Aug-17	12-Sep-17	19				
Slip Road Y Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41060	Construct Slip Rd Y - 1st Lane (Ch8370-8650)(SA340) (Z4)	30%	63	90	20-Jul-17 A	04-Nov-17	6				
RDZ41070	Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4)	0%	4	4	06-Nov-17	09-Nov-17	6				
Underground Utility Works											
DN600 and DN900 Watermain											
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	67.27%	36	110	14-Aug-17 A	30-Sep-17	498				
VO - Wall 76A Construction											
Retaining Wall W76A											
TWSR-East FL Highway S/B Side Section											
W76A1050	Drainage work for Caltex access road	18%	123	150	20-Jul-17 A	17-Jan-18	261				
Fanling Highway Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41121	Drainage work at central divider (at NBZ2)	89.39%	19	179	01-Feb-17 A	11-Sep-17	22				
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	30	30	19-Oct-17	23-Nov-17	52				
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	0%	30	30	12-Sep-17	18-Oct-17	52				
RDZ41131	Drainage work at central divider (Ch8100-8600)	0%	150	150	12-Sep-17	15-Mar-18	22				
Other Works											
Retaining Wall W77A											
TWSR-East FL Highway S/B Side Section											
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	0%	50	50	24-Aug-17	23-Oct-17	16				
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	98.16%	3	163	01-Feb-17 A	23-Aug-17	16				
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	40%	18	30	07-Aug-17 A	09-Sep-17	16				
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	0%	35	35	11-Sep-17	23-Oct-17	16				
Retaining Wall W78											
TWSR-East FL Highway S/B Side Section											
RWZ4.0900	Site Clearance	0%	12	12	10-Nov-17	23-Nov-17	6				
Slope Works											
TWSR-East FL Highway S/B Side Section											
S1040	Slope S54A-Cut ~4m	0%	40	40	24-Oct-17	09-Dec-17	405				
S1050	Slope S54B-Cut ~5m	0%	40	40	24-Oct-17	09-Dec-17	405				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	21-Aug-17	13-Oct-17	10				
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	14-Oct-17	03-Nov-17	12				
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	04-Nov-17	24-Nov-17	10				
G34											
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		27-Sep-17	229				
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	0%	30	30	19-Oct-17	23-Nov-17	183				
G35											
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	0%	5	5	21-Aug-17	25-Aug-17	407				
DS50											
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	21-Aug-17	23-Sep-17	292				
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	0%	5	5	12-Sep-17	16-Sep-17	298				
FVMS2 (Deleted by RFI-138, Pending for VO)											
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	21-Aug-17	23-Sep-17	352				
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	0%	30	30	21-Aug-17	23-Sep-17	352				

27-Sep-17 ◆ Slow lane footing - G34 (NB75)

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.

Contract No. 02/HY/2015

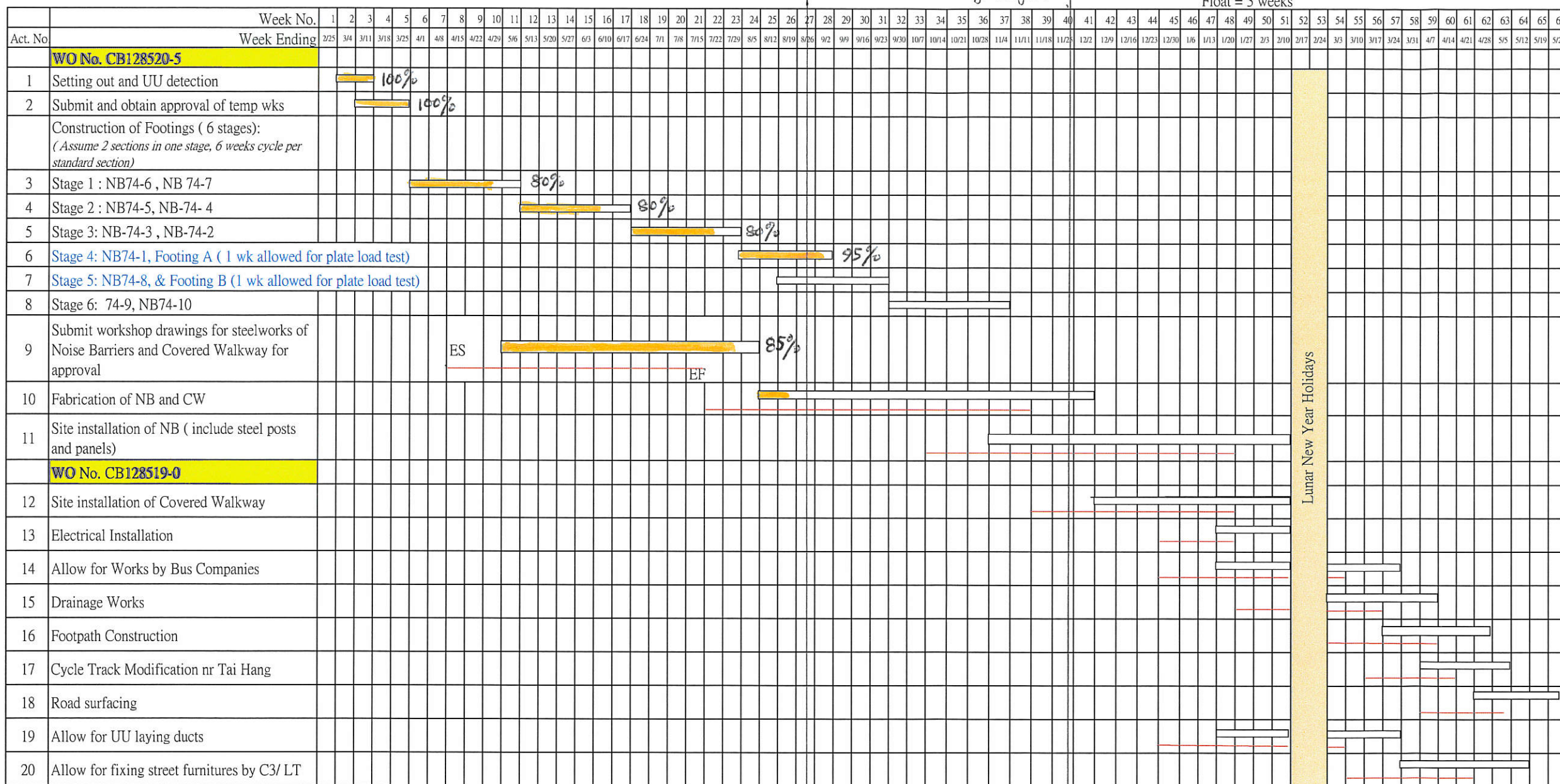
Works Order Nos: CB128519-0 & CB128520-5

Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

24/8
3 months Rolling Program
23/11
Float = 3 weeks

Programmed Duration
 Actual Progress
 Critical Path Activities
 Early Start & Early Finish

Rev	Date	Description
00	28/02/17	initial issue
01	29/03/17	refer RE's comments
02	22/5/17	add plate load test program



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 = 432 M	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		1 day
5	Fwk-Rebar- Concreting	110 M 3	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M 3	5 days
			Total = 42 days

** Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

	Posts calendar days
Fwk	2
Re-bar	3
Concreting	1
Remove Fwk	1
Total :	7 days

**CONSTRUCTION PROGRAMME OF
SEPTEMBER 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Sep	Oct	Nov	Dec
Contract Condition											
General											
Contract Condition											
Contract Condition											
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Sep-17		1023				◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Sep-17*		-993				◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Sep-17*		-795				◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Sep-17*		-660				◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)											
Noise Barrier Along Fanling Highway N/B											
Site Clearance & Demolition of Existing Structure											
Underground Utility Works											
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	85.29%	35	238	20-Dec-16 A	24-Oct-17	90				
NB43B (Ch.5640-5880)-FH N/B Side											
Noise Barrier Works											
NB01210	NB43B-1 (0-100m) - Sheet piling & Excavation	0%	18	18	19-Jul-17 A	12-Oct-17	166				
NB01220	NB43B-1 - Footing & Wall Structure	0%	40	40	25-Oct-17	11-Dec-17	156				
NB01230	NB43B-1 - backfilling	0%	12	12	12-Dec-17	27-Dec-17	236				
NB01240	NB43B-1 - NB production	0%	45	45	12-Dec-17	25-Jan-18	480				
NB01260	NB43B-2 (100-200m) - Sheet piling & Excavation	0%	18	18	21-Nov-17	11-Dec-17	156				
NB01270	NB43B-2 - Footing & Wall Structure	0%	40	40	12-Dec-17	30-Jan-18	156				
NB01310	NB43B-3 (200-260m) - Sheet piling & Excavation	95.96%	12	297	03-Jul-17 A	30-Jan-18	156				
Fanling Highway Construction											
Drainage & Road Works											
Ch 5640-5880											
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 4)	0%	20	20	02-Nov-17	24-Nov-17	-7				
ZONE 2 (Ch. 5880 to 6930)											
General											
DRM Proposal											
DRM Proposal											
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	87.72%	35	285	20-Oct-16 A	24-Oct-17	90				
ADVZ20240	Remove Existing Central Barrier at FLHY & Temp Road	0%	75	75	25-Sep-17	23-Dec-17	133				
ADVZ20250	FLHY N/B Lane 4 ready to Start	0%	0	0	25-Sep-17		-7				◆ FLHY N/B Lane 4 ready to Start
Noise Barrier Along TWSR-West and Laying New Utilities											
NB54A (Ch.6290-6350)-TWSR West Side											
Noise Barrier Works											
NB00790	NB54A - NB post & panel installation	0%	5	5	20-Sep-17	25-Sep-17	471				
Bridge Construction											
New Tai Hang Footbridge											
General											
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	84.88%	52	344	20-Jul-16 A	22-Nov-17	153				
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	23-Nov-17		153				◆ Steel Staircase & Bridge
TWSR-West/ FL Highway N/B Side Section											
THBF0620	Finishes Work	56.65%	88	203	27-Feb-17 A	06-Jan-18	207				
Crossing Fanling Highway Section											
THBF0560	THP1 - Pile cap, Pier and Pier Head	58.89%	37	90	29-Jul-17 A	04-Nov-17	190				
THBF0575	Erect Temp Tower at central divider	0%	18	18	25-Sep-17	17-Oct-17	205				
THBF0580	Erect THFB across fanling highway	0%	30	30	06-Nov-17	09-Dec-17	190				
THBF0590	Finishes Work	0%	30	30	11-Dec-17	17-Jan-18	198				
TWSR-East FL Highway S/B Side Section											
THBF0470	THAB1 - pile cap & abutment wall	79.91%	45	224	21-Nov-16 A	10-Jan-18	124				
THBF0780	Modified existing column head of existing footbridge	0%	76	76	20-Sep-17	20-Dec-17	99				
Lift at TWSR-W Side											
L1530	Structural Laminated glass wall installation	0%	30	30	20-Sep-17	26-Oct-17	157				
L1540	RC Platform connect to bridge	0%	30	30	20-Sep-17	26-Oct-17	115				
L1550	Metal cover on RC platform	0%	30	30	27-Oct-17	01-Dec-17	115				
L1555	Glass canopy on ground level	0%	30	30	02-Dec-17	09-Jan-18	205				
L1560	Lift installation (NF115)	0%	70	70	02-Dec-17	28-Feb-18	127				
L1590	E&M and Finishes work	0%	120	120	02-Dec-17	03-May-18	115				
L1600	CLP Power available (by CLP)	86.37%	62	455	21-Jun-16 A	20-Nov-17	258				
Lift at FLHY S/B											
L1370	Lift shaft & roof	84.72%	46	301	20-Sep-16 A	15-Nov-17	83				
L1380	Structural Laminated glass wall installation	0%	30	30	16-Nov-17	20-Dec-17	113				
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	16-Nov-17	20-Dec-17	83				
L1450	CLP Power available (by CLP)	87.06%	63	487	21-Jun-16 A	21-Nov-17	259				
Demolition of Existing Tai Hang Footbridge											
Crossing Fanling Highway Section											
Z2.THF.1090	Erect Temp platform for bridge demolition	0%	60	60	06-Nov-17	17-Jan-18	199				
New Tai Wo Footbridge											

	Project ID: WP Rev 05 (1709)	<p align="center">Contract No. HY/2012/06</p> <p align="center">Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</p> <p align="center">3 Month Rolling Program(20-Sep-17)</p>		Date	Revision	C.A
	Layout: 3 Month Rolling Program			30-Jun-14	WP Rev 1A	
Page 1 of 5				28-Aug-15	WP Rev 2	
				07-Apr-16	WP Rev 3	
				08-Nov-16	WP Rev 4	
				17-Aug-17	WP Rev 5	

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Sep	Oct	Nov	Dec	
General												
TWFB1090	Steel Bridge prefabrication (TWFB)	88.92%	37	334	15-Aug-16 A	04-Nov-17	304	[Gantt bar: Sep to Oct]				
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	06-Nov-17		304				◆ Steel Bridge available on site (TWFB)	
TWSR-West/ FL Highway N/B Side Section												
TWFB1390	Finishes Work	71.25%	23	80	20-May-17 A	18-Oct-17	439	[Gantt bar: Sep to Oct]				
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		18-Oct-17	439				◆ Bridge Structure complete (TWFB-TWSR-W side)	
Lift at TWSR-W Side												
L1670	Lift shaft & roof	83.29%	59	353	21-Jun-16 A	30-Nov-17	223	[Gantt bar: Sep to Oct]				
L1680	Structural Laminated glass wall installation	0%	30	30	01-Dec-17	08-Jan-18	266				[Gantt bar: Dec]	
L1690	RC Link slab connect to bridge	0%	30	30	01-Dec-17	08-Jan-18	223				[Gantt bar: Dec]	
L1730	Lift submission & ordering period	83.42%	61	368	02-Jul-16 A	02-Dec-17	294	[Gantt bar: Sep to Oct]				
L1780	CLP Power available (by CLP)	75.1%	121	486	20-Aug-16 A	18-Jan-18	404	[Gantt bar: Sep to Oct]				
Temporary Tai Wo Footbridge												
Construction Works												
TWFB-T1070	TWFB across TWSR-W available	0%	0	0		20-Sep-17	829				◆ TWFB across TWSR-W available	
TWFB-T1100	Demolish Temp Ramp & laying temp road for TTA	60%	4	10	14-Sep-17 A	23-Sep-17	-8				[Gantt bar: Sep]	
TWFB-T1190	TTA for temp column at new FLHY central divider	0%	1	1	23-Sep-17	24-Sep-17	-9				[Gantt bar: Sep]	
TWFB-T1195	G54 footing at central divider	0%	24	24	25-Sep-17	24-Oct-17	41				[Gantt bar: Sep to Oct]	
TWFB-T1200	Erect temp column at new FLHY central divider	0%	24	24	25-Oct-17	22-Nov-17	41				[Gantt bar: Oct to Nov]	
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	45	45	15-Nov-17	09-Jan-18	3				[Gantt bar: Dec to Jan]	
Noise Barrier Along Fanling Highway S/B												
NB46A (Ch.5880-5935)-FH S/B Side												
Noise Barrier Works												
NB02200	NB46A - Sheet piling & Excavation	65%	21	60	03-Jun-17 A	16-Oct-17	808	[Gantt bar: Sep to Oct]				
NB02210	NB46A - Footing & Wall Structure	31.03%	60	87	17-Jun-17 A	01-Dec-17	361	[Gantt bar: Sep to Oct]				
NB02220	NB46A- backfilling	0%	50	50	02-Dec-17	01-Feb-18	361				[Gantt bar: Dec]	
NB02230	NB46A - NB production	0%	45	45	02-Dec-17	15-Jan-18	465				[Gantt bar: Dec]	
NB51 (Ch.5935-6055)-FH S/B Side												
Noise Barrier Works												
NB02300	NB51 ID1-3 (0-25m) - NB production	81.33%	14	75	20-May-17 A	03-Oct-17	569	[Gantt bar: Sep to Oct]				
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	04-Oct-17	10-Oct-17	460				[Gantt bar: Oct]	
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02430	Precautionary Measure installation	0%	26	26	20-Sep-17	21-Oct-17	277				[Gantt bar: Sep to Oct]	
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	23-Oct-17	22-Nov-17	324				[Gantt bar: Oct to Nov]	
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	23-Nov-17	03-Feb-18	324				[Gantt bar: Nov to Dec]	
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	06-Nov-17	16-Nov-17	266				[Gantt bar: Nov]	
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	17-Nov-17	18-Dec-17	266				[Gantt bar: Nov to Dec]	
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	19-Dec-17	15-Jan-18	266				[Gantt bar: Dec to Jan]	
NB02590	NB53 (125-180m) - NB production	96.82%	14	440	20-May-16 A	03-Oct-17	569	[Gantt bar: Sep to Oct]				
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	04-Oct-17	10-Oct-17	460				[Gantt bar: Oct]	
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	97.03%	24	809	07-Nov-14 A	19-Oct-17	266	[Gantt bar: Sep to Oct]				
NB02650	NB55- backfilling	0%	50	50	20-Oct-17	18-Dec-17	266				[Gantt bar: Oct to Nov]	
NB02660	NB55 - NB production	93.24%	40	592	15-Jan-16 A	29-Oct-17	543	[Gantt bar: Sep to Oct]				
NB02670	NB55 - NB post & panel installation	0%	5	5	19-Dec-17	23-Dec-17	397				[Gantt bar: Dec]	
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	97.36%	14	530	20-Feb-16 A	03-Oct-17	569	[Gantt bar: Sep to Oct]				
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Oct-17	10-Oct-17	460				[Gantt bar: Oct]	
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	16.67%	15	18	21-Aug-17 A	09-Oct-17	3				[Gantt bar: Sep]	
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	30	30	10-Oct-17	14-Nov-17	3				[Gantt bar: Oct to Nov]	
NB02790	NB61 (0-50m)- backfilling	0%	50	50	15-Nov-17	15-Jan-18	381				[Gantt bar: Nov to Dec]	
NB02800	NB61 (0-50m) - NB production	0%	45	45	15-Nov-17	29-Dec-17	482				[Gantt bar: Nov to Dec]	
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Sep-17	03-Nov-17	538				[Gantt bar: Sep to Oct]	
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Nov-17	09-Nov-17	435				[Gantt bar: Nov]	
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02920	NB61A(0-50m) - NB production	91.98%	45	561	20-Feb-16 A	03-Nov-17	538	[Gantt bar: Sep to Oct]				
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Nov-17	09-Nov-17	435				[Gantt bar: Nov]	
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	92.17%	57	728	01-Apr-15 A	28-Nov-17	379	[Gantt bar: Sep to Oct]				
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	29-Nov-17	21-Dec-17	394				[Gantt bar: Nov to Dec]	
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	29-Nov-17	12-Jan-18	468				[Gantt bar: Nov to Dec]	
NB03040	NB61A (75-190m) - NB production	97.18%	15	531	20-Feb-16 A	04-Oct-17	568	[Gantt bar: Sep to Oct]				
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	06-Oct-17	11-Oct-17	459				[Gantt bar: Oct]	
Box Culvert ID3 Works												
VO58 Extension of ID3												
ID30140	Wing Wall Construction	0%	75	75	03-Oct-17*	03-Jan-18	332				[Gantt bar: Oct to Jan]	
Fanling Highway Construction												
Drainage & Road Works												

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Sep	Oct	Nov	Dec
Ch 5880-6740											
RDZ41190	Z2 (CH5880-6740) : Fanling Highway Road works Start	0%	0	0	25-Sep-17		-7				
RDZ41220	Z2 (CH5880-6740): Fanling Highway N/B - D&R works (lane 3)	0%	24	24	25-Nov-17	22-Dec-17	-7				
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	0%	30	30	25-Sep-17	01-Nov-17	-7				
Other Works											
Site Clearance & Demolition of Existing Structure											
Contract Condition											
MCLT1090	New MCLT - finishes works	82.61%	72	414	20-May-16 A	15-Dec-17	404				
MCLT1100	New MCLT completion	0%	0	0		15-Dec-17	404				15-Dec-17* ◆ Ne
TCSS Works											
G54											
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		14-Nov-17	401				14-Nov-17 ◆ Slow lane footing - G54 (NB61
TCSS2080	Sheeting & excavation (4m)	0%	6	6	25-Sep-17	30-Sep-17	41				
TCSS2090	Fast lane footing - G54 (CH6470, S/B)	0%	18	18	03-Oct-17	24-Oct-17	41				
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB64 & NB64A (Ch.6860-6920)-TWSR West Side											
Noise Barrier Works											
NB003060	NB64A-Footing & Wall Structure - 1 bays	0%	35	35	19-Aug-17 A	02-Nov-17	401				
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	03-Nov-17	19-Dec-17	401				
Bridge Construction											
Kau Lung Hang Vehicular Bridge											
KLH Bridge - West Ramp											
KLH.1290	West Ramp - Planting	0%	21	21	20-Sep-17	16-Oct-17	455				
KLH Bridge - Deck 1											
KLH.3430	Deck 1 - Planting	0%	21	21	20-Sep-17	16-Oct-17	455				
KLH Bridge - Deck 3											
KLH.3500	Deck 3 - Planting	0%	21	21	20-Sep-17	16-Oct-17	487				
KLH Bridge - East Ramp											
KLH.3590	East Ramp - Planting	0%	34	34	20-Sep-17	01-Nov-17	795				
KLH Bridge - Ramp R1											
Z2.KLH.3610	Ramp R1 - Steel roof	92.76%	11	152	19-Jan-17 A	03-Oct-17	465				
KLH Bridge - Ramp R2											
Z2.KLH.1550	Ramp R2 - Steel roof	86.44%	16	118	14-Mar-17 A	10-Oct-17	460				
KLH Bridge - Staircase S1											
Z2.KLH.1460	S1 - Staircase steel work, handrail Shop drawing submission &	0%	90	90	10-Dec-17	09-Mar-18	110				
Bridge Road Work											
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Sep-17	13-Feb-18	356				
Lift at TWSR-W Side											
L01060	Lift shaft & roof	0%	52	52	03-Aug-17 A	22-Nov-17	305				
L01070	Structural Laminated glass wall installation	0%	30	30	23-Nov-17	29-Dec-17	305				
L01080	RC Platform connect to bridge	0%	30	30	23-Nov-17	29-Dec-17	305				
L01094	Lift submission & ordering period	79.43%	80	389	01-Aug-16 A	27-Dec-17	307				
L01140	CLP Power available (by CLP)	93.47%	33	505	04-Apr-16 A	22-Oct-17	530				
Lift at FLHY S/B											
L01220	Lift shaft & roof	54.12%	39	85	15-Jul-17 A	07-Nov-17	347				
L01230	Structural Laminated glass wall installation	0%	30	30	08-Nov-17	12-Dec-17	348				
L01240	RC Platform connect to bridge	0%	30	30	08-Nov-17	12-Dec-17	347				
L01250	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	13-Dec-17	13-Dec-17	347				
L01290	Finishes work	0%	60	60	13-Dec-17	27-Feb-18	347				
L01300	CLP Power available (by CLP)	83.39%	94	566	04-Apr-16 A	22-Dec-17	475				
Signalized Junction											
Kau Lung Hang Vehicular Bridge											
KLH Bridge - West Ramp											
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	25-Sep-17	20-Oct-17	445				
Noise Barrier Along Fanling Highway S/B											
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB03090	NB62 (0-80m) - Footing & Wall Structure	74.35%	59	230	12-Dec-16 A	30-Nov-17	377				
NB03100	NB62 (0-80m) - backfilling	57.23%	68	159	27-Mar-17 A	11-Dec-17	403				
NB03110	NB62 (0-80m) - NB production	0%	45	45	01-Dec-17	14-Jan-18	466				
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	20-Sep-17*	04-Oct-17	346				
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	06-Oct-17	04-Nov-17	399				
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	06-Nov-17	21-Nov-17	420				
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	04-Nov-17	19-Dec-17	492				
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	19-Dec-17	27-Dec-17	396				
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	06-Oct-17	26-Oct-17	346				
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	27-Oct-17	09-Jan-18	346				
NB70 (Ch.6910-6930)-FH S/B Side											
Noise Barrier Works											
NB03290	NB70- NB post & panel installation	0%	5	5	20-Sep-17	25-Sep-17	471				
Fanling Highway Construction											
Drainage & Road Works											
Ch 6740-6930											
RDZ20460	Z2 (CH6740-6930): Fanling Highway N/B - D&R works (lane 3)	0%	24	24	25-Nov-17	22-Dec-17	-7				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Sep	Oct	Nov	Dec
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	0%	24	24	25-Sep-17	24-Oct-17	43				
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)											
Bridge Construction											
New Ho Ka Yuen Footbridge											
TWSR-West/ FL Highway N/B Side Section											
HKY1440	Remaining Finishes works of HKYFB	79.04%	57	272	21-Nov-16 A	28-Nov-17	406				
HKY1520	VO11 - slope improvement work	0%	45	45	29-Nov-17	23-Jan-18	406				
TWSR-East FL Highway S/B Side Section											
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	88.1%	30	252	13-Oct-16 A	26-Oct-17	478				
Other Works											
Slope Works											
TWSR-East FL Highway S/B Side Section											
S1000	Slope S51-Fill -3m	64.91%	40	114	20-Apr-17 A	08-Nov-17	432				
ZONE 4 (Ch. 7925 to 8700)											
Noise Barrier Along TWSR-West and Laying New Utilities											
Underground Utility Works											
DN450 DI Watermain "A" (Ch 1989-2529)											
DI0120	DN450 DI watermain laying (100-150m)	0%	30	30	20-Sep-17	26-Oct-17	157				
DI0130	DN450 DI watermain laying (150-200m)	0%	30	30	27-Oct-17	01-Dec-17	157				
DI0140	DN450 DI watermain laying (200-250m)	0%	30	30	02-Dec-17	09-Jan-18	157				
Noise Barrier Along Fanling Highway N/B											
NB75 (Ch.7930-8090)-FH N/B Side											
Noise Barrier Works											
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	20-Sep-17	03-Nov-17	321				
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	04-Nov-17	09-Nov-17	261				
NB4140	NB75 - NB production (Ch7990-8000)	0%	45	45	20-Sep-17	03-Nov-17	328				
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	10-Nov-17	15-Nov-17	261				
NB4200	NB75 - NB production (Ch8000-8050)	0%	45	45	20-Sep-17	03-Nov-17	328				
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	04-Nov-17	09-Nov-17	266				
NB4260	NB75 - NB production (Ch8050-8090)	0%	45	45	20-Sep-17	03-Nov-17	328				
NB4270	NB75 - NB post & panel installation (Ch8050-8090)	0%	5	5	04-Nov-17	09-Nov-17	266				
NB4610	NB75 Drainage Works	31.67%	82	120	20-Jul-17 A	29-Dec-17	15				
NB77 (Ch.8090-8450)-FH N/B Side											
Noise Barrier Works											
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	61.25%	31	80	20-Jul-17 A	27-Oct-17	0				
NB4320	NB77 - backfilling (Ch8090-8190)	0%	20	20	04-Dec-17	28-Dec-17	50				
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	28-Oct-17	11-Dec-17	277				
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	0%	80	80	20-Sep-17	27-Dec-17	16				
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	0%	80	80	03-Nov-17	07-Feb-18	16				
NB4480	NB77 - piling (NB77/N1- N2, 0.19m -24no) (confirming design by	30%	17	24	26-Jul-17 A	11-Oct-17	2				
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	0%	70	70	11-Oct-17	05-Jan-18	2				
NB4485	NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos)	54.55%	10	22	19-Aug-17 A	30-Sep-17	9				
NB4620	NB77 Drainage Works	0%	120	120	30-Oct-17	24-Mar-18	0				
Bridge Construction											
New Wo Hop Shek Pedstrian & Cycle Bridge											
General											
WHS1105	W77A & W77B & backfilling work complete	0%	0	0		23-Oct-17	481				23-Oct-17 ♦ W77A & W77B & backfilling work complete
WHS1140	Existing Wo Hop Shek Bridge Demolished	0%	0	0		30-Sep-17	3				30-Sep-17 ♦ Existing Wo Hop Shek Bridge Demolished
TWSR-West/ FL Highway N/B Side Section											
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	45.45%	30	55	20-Jun-17 A	26-Oct-17	236				
WHS1390	WHSAB2, P8, P9 - Backfilling (~3m)	0%	20	20	27-Oct-17	20-Nov-17	236				
WHS1400	2nd half Steel Ramp ready for erection (WHS-TWSR-W side)	0%	0	0		20-Nov-17	236				20-Nov-17 ♦ 2nd half Steel Ramp ready
WHS2040	Potential VO for WHS Ramp modification (1st stage)	0%	0	0	20-Sep-17*		124				♦ Potential VO for WHS Ramp modification (1st stage)
WHS2100	Shop Drawing preparation, submission & approval	0%	90	90	20-Sep-17	09-Jan-18	124				
WHS2110	Material procurement & testing	0%	60	60	27-Oct-17	09-Jan-18	124				
Crossing Fanling Highway Section											
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	20-Sep-17	01-Dec-17	412				
WHS1520	Remove railing	0%	12	12	02-Dec-17	15-Dec-17	412				
WHS1530	Bridge floor marking	0%	6	6	16-Dec-17	22-Dec-17	412				
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge											
TWSR-East FL Highway S/B Side Section											
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A (Instructed)	50%	10	20	20-Sep-17 A	30-Sep-17	3				
Slip Road Y Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41060	Construct Slip Rd Y - 1st Lane (Ch8370-8650)(SA340) (Z4)	58.89%	37	90	20-Jul-17 A	08-Nov-17	3				
RDZ41070	Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4)	0%	4	4	09-Nov-17	13-Nov-17	3				
VO - Wall 76A Construction											
Retaining Wall W76A											
TWSR-East FL Highway S/B Side Section											
W76A1050	Drainage work for Caltex access road	35.33%	97	150	20-Jul-17 A	17-Jan-18	261				
Fanling Highway Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41121	Drainage work at central divider (at NBZ2)	91.62%	15	179	01-Feb-17 A	09-Oct-17	0				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Sep	Oct	Nov	Dec
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	30	30	15-Nov-17	19-Dec-17	30				
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	0%	30	30	10-Oct-17	14-Nov-17	30				
RDZ41131	Drainage work at central divider (Ch8100-8600)	0%	150	150	10-Oct-17	14-Apr-18	0				
Other Works											
Retaining Wall W77A											
TWSR-East FL Highway S/B Side Section											
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	52%	24	50	24-Aug-17 A	19-Oct-17	19				
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	22.86%	27	35	11-Sep-17 A	23-Oct-17	16				
Retaining Wall W78											
TWSR-East FL Highway S/B Side Section											
RWZ4.0900	Site Clearance	0%	12	12	14-Nov-17	27-Nov-17	3				
RWZ4.0910	Demolition of existing retaining wall (Instructed in 2-Jun-17 ad-hoc site)	0%	35	35	28-Nov-17	10-Jan-18	3				
Slope Works											
TWSR-East FL Highway S/B Side Section											
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Oct-17	06-Dec-17	408				
S1050	Slope S54B-Cut ~5m	0%	40	40	24-Oct-17	09-Dec-17	405				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Sep-17	14-Nov-17	19				
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	15-Nov-17	05-Dec-17	159				
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	06-Dec-17	28-Dec-17	125				
TCSS0160	Raw material procurement	0%	180	180	15-Nov-17	13-May-18	22				
G34											
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		20-Sep-17	236				
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	0%	30	30	15-Nov-17	19-Dec-17	161				
G35											
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	0%	5	5	20-Sep-17	25-Sep-17	381				
DS50											
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-Sep-17	26-Oct-17	266				
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	0%	5	5	10-Oct-17	14-Oct-17	276				
FVMS2 (Deleted by RFI-138, Pending for VO)											
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Sep-17	26-Oct-17	326				
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	0%	30	30	20-Sep-17	26-Oct-17	326				

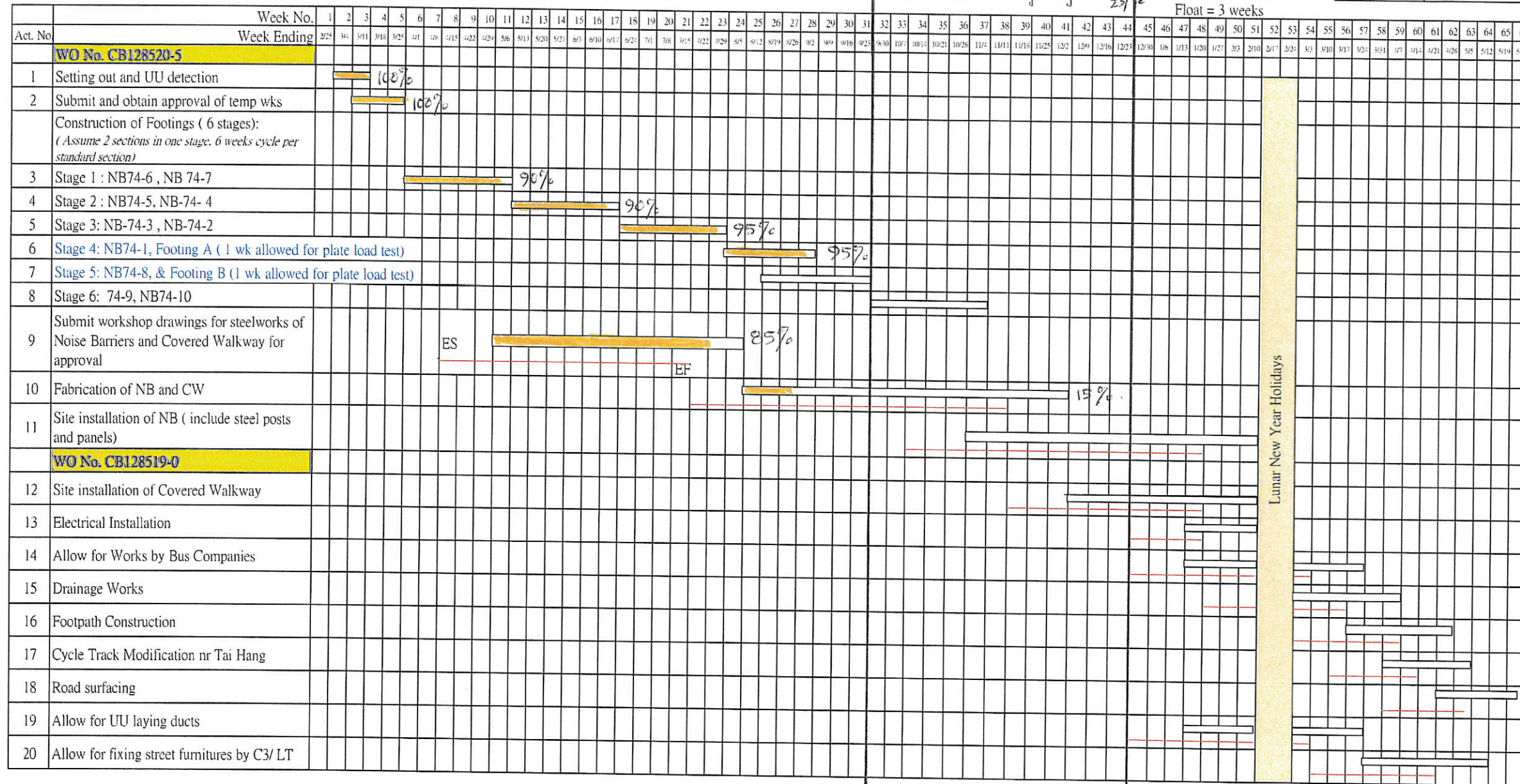
CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.

Contract No. 02/HY/2015

Works Order Nos: CB128519-0 & CB128520-5

Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

Rev	Date	Description
00	28/02/17	initial issue
01	29/03/17	refer RE's comments
02	22/5/17	add plate load test program



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M ²	10 days
2	Excavation	12 x 6 x 6 = 432 M ³	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M ³	2 days
4	Blinding Layer		1 day
5	Fwk-Rebar- Concreting	110 M ³	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M ³	5 days
			Total = 42 days

** Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

	Posts calendar days
Fwk	2
Re-bar	3
Concreting	1
Remove Fwk	1
Total :	7 days

**CONSTRUCTION PROGRAMME OF
OCTOBER 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018
								Oct	Nov	Dec	Jan	
Contract Condition												
General												
Contract Condition												
Contract Condition												
KD14	KD-14 1523d) - S4: Achievement: Rd widening of Fanling Highway @	0%	0	0		23-Dec-17	170					23-Dec-17* ◆ KD-14 1523d) - S4: Ach
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Oct-17		993					◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Oct-17*		-1023					◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Oct-17*		-825					◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Oct-17*		-690					◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along Fanling Highway N/B												
NB43B (Ch.5640-5880)-FH N/B Side												
Noise Barrier Works												
NB01210	NB43B-1 (0-100m) - Sheet piling & Excavation	0%	18	18	19-Jul-17 A	10-Nov-17	142					
NB01220	NB43B-1 - Footing & Wall Structure	0%	40	40	11-Nov-17	29-Dec-17	142					
NB01230	NB43B-1 - backfilling	0%	12	12	30-Dec-17	13-Jan-18	222					
NB01240	NB43B-1 - NB production	0%	45	45	30-Dec-17	12-Feb-18	462					
NB01260	NB43B-2 (100-200m) - Sheet piling & Excavation	0%	18	18	07-Dec-17	29-Dec-17	142					
NB01270	NB43B-2 - Footing & Wall Structure	0%	40	40	30-Dec-17	15-Feb-18	142					
NB01310	NB43B-3 (200-260m) - Sheet piling & Excavation	95.96%	12	297	03-Jul-17 A	15-Feb-18	142					
Fanling Highway Construction												
Drainage & Road Works												
Ch 5640-5880												
RDZ11030	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 3)	0%	20	20	23-Dec-17	18-Jan-18	210					
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 4)	0%	20	20	02-Nov-17	24-Nov-17	-7					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADVZ20240	Remove Existing Central Barrier at FLHY & Temp Road	26.67%	55	75	25-Sep-17 A	23-Dec-17	133					
ADVZ20260	FLHY S/B Lane 4 ready to Start	0%	0	0	27-Dec-17		181					◆ FLHY S/B Lane 4 re
ADVZ20280	TTA for NB construction (Shift TWSR-W to Temp road)	0%	30	30	23-Dec-17	30-Jan-18	-7					
Noise Barrier Along TWSR-West and Laying New Utilities												
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00790	NB54A - NB post & panel installation	0%	5	5	20-Oct-17	25-Oct-17	447					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ20140	Site Clearance (for NB Along FH N/B)	0%	30	30	23-Dec-17	30-Jan-18	-7					
Bridge Construction												
New Tai Hang Footbridge												
TWSR-West/ FL Highway N/B Side Section												
THBF0620	Finishes Work	68.47%	64	203	27-Feb-17 A	06-Jan-18	207					
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0%	0	0		06-Jan-18	207					06-Jan-18 ◆ Bridge Stru
Crossing Fanling Highway Section												
THBF0560	THP1 - Pile cap, Pier and Pier Head	85.56%	13	90	29-Jul-17 A	04-Nov-17	190					
THBF0575	Erect Temp Tower at central divider	0%	18	18	20-Oct-17	10-Nov-17	185					
THBF0580	Erect THFB across fanling highway	0%	30	30	11-Nov-17	15-Dec-17	185					
THBF0590	Finishes Work	0%	30	30	16-Dec-17	23-Jan-18	193					
TWSR-East FL Highway S/B Side Section												
THBF0470	THAB1 - pile cap & abutment wall	79.91%	45	224	21-Nov-16 A	07-Feb-18	100					
THBF0780	Modified existing column head of existing footbridge	0%	76	76	25-Oct-17	25-Jan-18	131					
THBF0790	Erect steel bridge from THP2 to THP4	93.33%	4	60	29-Sep-17 A	24-Oct-17	131					
Lift at TWSR-W Side												
L1530	Structural Laminated glass wall installation	0%	30	30	20-Oct-17	24-Nov-17	133					
L1540	RC Platform connect to bridge	0%	30	30	20-Oct-17	24-Nov-17	91					
L1550	Metal cover on RC platform	0%	30	30	25-Nov-17	02-Jan-18	91					
L1555	Glass canopy on ground level	0%	30	30	03-Jan-18	06-Feb-18	181					
L1560	Lift installation (NF115)	0%	70	70	03-Jan-18	28-Mar-18	103					
L1590	E&M and Finishes work	0%	120	120	03-Jan-18	01-Jun-18	91					
L1600	CLP Power available (by CLP)	92.97%	32	455	21-Jun-16 A	20-Nov-17	258					
Lift at FLHY S/B												
L1370	Lift shaft & roof	84.72%	46	301	20-Sep-16 A	13-Dec-17	59					
L1380	Structural Laminated glass wall installation	0%	30	30	14-Dec-17	20-Jan-18	89					
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	14-Dec-17	20-Jan-18	59					
L1450	CLP Power available (by CLP)	93.22%	33	487	21-Jun-16 A	21-Nov-17	259					
Demolition of Existing Tai Hang Footbridge												

	Project ID: WP Rev 05 (1710)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Oct-17)		Date	Revision	C. A
	Layout: 3 Month Rolling Program			30-Jun-14	WP Rev 1A	
Page 1 of 5				28-Aug-15	WP Rev 2	
				07-Apr-16	WP Rev 3	
				08-Nov-16	WP Rev 4	
				17-Aug-17	WP Rev 5	

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Oct	Nov	Dec	2018 Jan	
Crossing Fanling Highway Section												
Z2.THF.1090	Erect Temp platform for bridge demolition	0%	60	60	11-Nov-17	23-Jan-18	194					
New Tai Wo Footbridge												
General												
TWFB1090	Steel Bridge prefabrication (TWFB)	88.92%	37	334	15-Aug-16 A	02-Dec-17	280					
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	04-Dec-17		280					◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway NB Side Section												
TWFB1390	Finishes Work	26.25%	59	80	20-May-17 A	30-Dec-17	379					
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		30-Dec-17	379					30-Dec-17 ◆ Bridge Structure
Lift at TWSR-W Side												
L1670	Lift shaft & roof	83.29%	59	353	21-Jun-16 A	30-Dec-17	199					
L1680	Structural Laminated glass wall installation	0%	30	30	02-Jan-18	05-Feb-18	242					
L1690	RC Link slab connect to bridge	0%	30	30	02-Jan-18	05-Feb-18	199					
L1730	Lift submission & ordering period	85.87%	52	368	02-Jul-16 A	20-Dec-17	279					
L1780	CLP Power available (by CLP)	85.19%	72	486	20-Aug-16 A	30-Dec-17	423					
Temporary Tai Wo Footbridge												
Construction Works												
TWFB-T1070	TWFB across TWSR-W available	0%	0	0		20-Oct-17	805					20-Oct-17 ◆ TWFB across TWSR-W available
TWFB-T1195	G54 footing at central divider	62.5%	9	24	25-Sep-17 A	31-Oct-17	57					
TWFB-T1200	Erect temp column at new FLHY central divider	0%	24	24	01-Nov-17	28-Nov-17	57					
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	45	45	13-Dec-17	06-Feb-18	0					
Demolition of Existing Tai Wo Footbridge												
Crossing Fanling Highway Section												
TWFB-DE1060	Erect Temp platform for bridge demolition	0%	60	60	23-Dec-17	09-Mar-18	0					
Noise Barrier Along Fanling Highway S/B												
NB46A (Ch.5880-5935)-FH S/B Side												
Noise Barrier Works												
NB02200	NB46A - Sheet piling & Excavation	65%	21	60	03-Jun-17 A	14-Nov-17	784					
NB02210	NB46A - Footing & Wall Structure	31.03%	60	87	17-Jun-17 A	02-Jan-18	337					
NB02220	NB46A - backfilling	0%	50	50	03-Jan-18	05-Mar-18	337					
NB02230	NB46A - NB production	0%	45	45	03-Jan-18	16-Feb-18	433					
NB51 (Ch.5935-6055)-FH S/B Side												
Noise Barrier Works												
NB02300	NB51 ID1-3 (0-25m) - NB production	81.33%	14	75	20-May-17 A	02-Nov-17	539					
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	03-Nov-17	08-Nov-17	436					
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02430	Precautionary Measure installation	0%	26	26	20-Oct-17	20-Nov-17	253					
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	21-Nov-17	20-Dec-17	300					
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	21-Dec-17	07-Mar-18	300					
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	21-Nov-17	01-Dec-17	253					
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	02-Dec-17	05-Jan-18	253					
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	06-Jan-18	30-Jan-18	253					
NB02590	NB53 (125-180m) - NB production	96.82%	14	440	20-May-16 A	02-Nov-17	539					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	03-Nov-17	08-Nov-17	436					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02660	NB55 - NB production	93.24%	40	592	15-Jan-16 A	28-Nov-17	513					
NB02670	NB55 - NB post & panel installation	0%	5	5	29-Nov-17	04-Dec-17	414					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	97.36%	14	530	20-Feb-16 A	02-Nov-17	539					
NB02740	NB56 - NB post & panel installation	0%	5	5	03-Nov-17	08-Nov-17	436					
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	16.67%	15	18	21-Aug-17 A	07-Nov-17	0					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	30	30	08-Nov-17	12-Dec-17	0					
NB02790	NB61 (0-50m)- backfilling	0%	50	50	13-Dec-17	12-Feb-18	357					
NB02800	NB61 (0-50m) - NB production	0%	45	45	13-Dec-17	26-Jan-18	454					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Oct-17	03-Dec-17	508					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Dec-17	08-Dec-17	410					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02920	NB61A (0-50m) - NB production	91.98%	45	561	20-Feb-16 A	03-Dec-17	508					
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Dec-17	08-Dec-17	410					
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	92.17%	57	728	01-Apr-15 A	28-Dec-17	355					
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	29-Dec-17	22-Jan-18	370					
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	29-Dec-17	11-Feb-18	438					
NB03040	NB61A (75-190m) - NB production	97.18%	15	531	20-Feb-16 A	03-Nov-17	538					
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Nov-17	09-Nov-17	435					
Box Culvert ID3 Works												
VO58 Extension of ID3												
ID30130	Backfill	0%	20	20	19-Jan-18	10-Feb-18	319					
ID30140	Wing Wall Construction	0%	75	75	20-Oct-17*	18-Jan-18	172					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018
								Oct	Nov	Dec	Jan	
Fanling Highway Construction												
Drainage & Road Works												
Ch 5880-6740												
RDZ41210	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 2)	0%	30	30	19-Jan-18	26-Feb-18	210					
RDZ41220	Z2 (CH5880-6740): Fanling Highway N/B - D&R works (lane 3)	0%	24	24	25-Nov-17	22-Dec-17	-7					
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	66.67%	10	30	25-Sep-17 A	01-Nov-17	-7					
RDZ41240	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 4)	0%	39	39	27-Dec-17	10-Feb-18	181					
Other Works												
Site Clearance & Demolition of Existing Structure												
Contract Condition												
MCLT1090	New MCLT - finishes works	88.41%	48	414	20-May-16 A	15-Dec-17	404					
MCLT1100	New MCLT completion	0%	0	0		15-Dec-17	404					15-Dec-17* ◆ New MCLT completion
TCSS Works												
AADS1												
TCSS1410	Fast lane footing - AADS1 (CH5880, N/B)	0%	30	30	25-Sep-17 A	24-Nov-17	392					
ADS1												
TCSS1930	Predrilling (6no, 0.19m mini pile)	0%	12	12	19-Jan-18	01-Feb-18	240					
FADS1												
TCSS2020	Sheet piling & excavation (4m)	0%	12	12	25-Sep-17 A	03-Nov-17	374					
TCSS2030	Fast lane footing - FADS1 (CH6830, N/B)	0%	18	18	04-Nov-17	24-Nov-17	374					
TCSS2040	Back filling & reinstatement road work (2m)	0%	18	18	25-Nov-17	15-Dec-17	374					
G55												
TCSS1490	Fast lane footing - G55 (CH5970, S/B)	0%	30	30	04-Oct-17 A	24-Nov-17	362					
G54												
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		12-Dec-17	377					12-Dec-17 ◆ Slow lane footing - G54 (NB61)
TCSS2090	Fast lane footing - G54 (CH6470, S/B)	50%	9	18	02-Oct-17 A	31-Oct-17	57					
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)												
Noise Barrier Along TWSR-West and Laying New Utilities												
NB64 & NB64A (Ch.6860-6920)-TWSR West Side												
Noise Barrier Works												
NB003060	NB64A -Footing & Wall Structure - 1 bays	0%	35	35	19-Aug-17 A	30-Nov-17	377					
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	01-Dec-17	19-Jan-18	377					
Bridge Construction												
Kau Lung Hang Vehicular Bridge												
KLH Bridge - West Ramp												
KLH.1290	West Ramp - Planting	0%	21	21	20-Oct-17	14-Nov-17	431					
KLH Bridge - Deck 1												
KLH.3430	Deck 1 - Planting	0%	21	21	20-Oct-17	14-Nov-17	431					
KLH Bridge - Deck 3												
KLH.3500	Deck 3 - Planting	0%	21	21	20-Oct-17	14-Nov-17	463					
KLH Bridge - East Ramp												
KLH.3590	East Ramp - Planting	0%	34	34	20-Oct-17	29-Nov-17	771					
KLH Bridge - Ramp R1												
Z2.KLH.3610	Ramp R1 - Steel roof	92.76%	11	152	19-Jan-17 A	02-Nov-17	441					
KLH Bridge - Ramp R2												
Z2.KLH.1550	Ramp R2 - Steel roof	86.44%	16	118	14-Mar-17 A	08-Nov-17	436					
KLH Bridge - Staircase S1												
Z2.KLH.1460	S1 - Staircase steel work, handrail Shop drawing submission &	0%	90	90	10-Dec-17	09-Mar-18	110					
Bridge Road Work												
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Oct-17	16-Mar-18	332					
Lift at TWSR-W Side												
L01060	Lift shaft & roof	46.15%	28	52	03-Aug-17 A	22-Nov-17	305					
L01070	Structural Laminated glass wall installation	0%	30	30	23-Nov-17	29-Dec-17	305					
L01080	RC Platform connect to bridge	0%	30	30	23-Nov-17	29-Dec-17	305					
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	30-Dec-17	30-Dec-17	305					
L01094	Lift submission & ordering period	85.86%	55	389	01-Aug-16 A	23-Dec-17	308					
L01100	Lift installation	0%	70	70	30-Dec-17	26-Mar-18	305					
L01130	Finishes work	0%	88	88	30-Dec-17	20-Apr-18	306					
L01140	CLP Power available (by CLP)	99.41%	3	505	04-Apr-16 A	22-Oct-17	530					
Lift at FLHY S/B												
L01230	Structural Laminated glass wall installation	0%	45	30	03-Oct-17 A	12-Dec-17	348					
L01240	RC Platform connect to bridge	0%	45	45	20-Oct-17	12-Dec-17	347					
L01250	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	13-Dec-17	13-Dec-17	347					
L01260	Lift installation	0%	45	45	27-Dec-17	21-Feb-18	338					
L01290	Finishes work	0%	60	60	13-Dec-17	27-Feb-18	347					
L01300	CLP Power available (by CLP)	83.39%	94	566	04-Apr-16 A	21-Jan-18	445					
Signalized Junction												
Kau Lung Hang Vehicular Bridge												
KLH Bridge - West Ramp												
Z2.KLH.1032	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	30-Nov-17*	23-Dec-17	391					
Noise Barrier Along Fanling Highway S/B												
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB03090	NB62 (0-80m) - Footing & Wall Structure	84.78%	35	230	12-Dec-16 A	30-Nov-17	377					
NB03100	NB62 (0-80m) - backfilling	72.33%	44	159	27-Mar-17 A	11-Dec-17	403					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Oct	Nov	Dec	2018 Jan	
NB03110	NB62 (0-80m) - NB production	0%	45	45	01-Dec-17	14-Jan-18	466					
NB03120	NB62 (0-80m) - NB post & panel installation	0%	5	5	15-Jan-18	19-Jan-18	377					
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	20-Oct-17	06-Nov-17	433					
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	20-Oct-17	03-Dec-17	508					
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	04-Dec-17	08-Dec-17	410					
NB03200	NB62 (110-170m) - backfilling	0%	20	20	20-Oct-17	13-Nov-17	427					
NB03210	NB62 (110-170m) - NB production	0%	45	45	20-Oct-17	03-Dec-17	508					
NB03220	NB62 (110-170m) - NB post & panel installation	0%	5	5	04-Dec-17	08-Dec-17	410					
NB70 (Ch.6910-6930)-FH S/B Side												
Noise Barrier Works												
NB03290	NB70- NB post & panel installation	0%	5	5	20-Oct-17	25-Oct-17	447					
Fanling Highway Construction												
Drainage & Road Works												
Ch 6740-6930												
RDZ20450	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 2)	0%	24	24	19-Jan-18	15-Feb-18	354					
RDZ20460	Z2 (CH6740-6930): Fanling Highway N/B - D&R works (lane 3)	0%	24	24	25-Nov-17	22-Dec-17	-7					
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	4.17%	23	24	25-Sep-17 A	16-Nov-17	24					
RDZ20490	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 4)	0%	24	24	27-Dec-17	24-Jan-18	373					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Bridge Construction												
New Ho Ka Yuen Footbridge												
TWSR-West/ FL Highway N/B Side Section												
HKY1440	Remaining Finishes works of HKYFB	79.04%	57	272	21-Nov-16 A	28-Dec-17	382					
HKY1520	VO11 - slope improvement work	0%	45	45	29-Dec-17	23-Feb-18	382					
TWSR-East FL Highway S/B Side Section												
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	88.1%	30	252	13-Oct-16 A	24-Nov-17	454					
ZONE 4 (Ch. 7925 to 8700)												
Noise Barrier Along TWSR-West and Laying New Utilities												
Underground Utility Works												
DN450 DI Watermain "A" (Ch 1989-2529)												
DI0130	DN450 DI watermain laying (150-200m)	0%	30	30	20-Oct-17	24-Nov-17	194					
DI0140	DN450 DI watermain laying (200-250m)	0%	30	30	25-Nov-17	02-Jan-18	194					
DI0150	DN450 DI watermain laying (250-300m)	0%	30	30	03-Jan-18	06-Feb-18	194					
Noise Barrier Along Fanling Highway N/B												
NB75 (Ch.7930-8090)-FH N/B Side												
Noise Barrier Works												
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	20-Oct-17	03-Dec-17	337					
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	04-Dec-17	08-Dec-17	272					
NB4140	NB75 - NB production (Ch7990-8000)	0%	45	45	20-Oct-17	03-Dec-17	343					
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	09-Dec-17	14-Dec-17	272					
NB4200	NB75 - NB production (Ch8000-8050)	0%	45	45	20-Oct-17	03-Dec-17	343					
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	04-Dec-17	08-Dec-17	277					
NB4260	NB75 - NB production (Ch8050-8090)	0%	45	45	20-Oct-17	03-Dec-17	343					
NB4270	NB75 - NB post & panel installation (Ch8050-8090)	0%	5	5	04-Dec-17	08-Dec-17	277					
NB4280	NB75 complete	0%	0	0		30-Dec-17	260					30-Dec-17 ◆ NB75 complete
NB4580	NB75 backfilling complete	0%	0	0		30-Dec-17	14					30-Dec-17 ◆ NB75 backfilling
NB4610	NB75 Drainage Works	50.83%	59	120	20-Jul-17 A	30-Dec-17	14					
NB77 (Ch.8090-8450)-FH N/B Side												
Noise Barrier Works												
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	72.5%	22	80	20-Jul-17 A	15-Nov-17	5					
NB4320	NB77 - backfilling (Ch8090-8190)	0%	20	20	21-Dec-17	16-Jan-18	35					
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	16-Nov-17	30-Dec-17	304					
NB4340	NB77 - NB post & panel installation (Ch8090-8190)	0%	15	15	17-Jan-18	02-Feb-18	232					
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	30%	56	80	20-Sep-17 A	27-Dec-17	16					
NB4390	NB77 - NB production (Ch8190-8290)	0%	45	45	28-Dec-17	10-Feb-18	262					
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	0%	80	80	03-Nov-17	07-Feb-18	16					
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	0%	50	50	20-Oct-17	18-Dec-17	15					
NB4490	NB77 - Footing & Wall Structure (NB77/31 - 32, 0.19m & G35)	0%	50	50	19-Dec-17	21-Feb-18	15					
NB4620	NB77 Drainage Works	0%	100	100	16-Nov-17	19-Mar-18	5					
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
WHS1105	W77A & W77B & backfilling work complete	0%	0	0		20-Oct-17	484					20-Oct-17 ◆ W77A & W77B & backfilling work complete
TWSR-West/ FL Highway N/B Side Section												
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	45.45%	30	55	20-Jun-17 A	24-Nov-17	212					
WHS1390	WHSAB2, P8, P9 - Backfilling (~3m)	0%	20	20	25-Nov-17	18-Dec-17	212					
WHS1400	2nd half Steel Ramp ready for erection (WHS-TWSR-W side)	0%	0	0		18-Dec-17	212					18-Dec-17 ◆ 2nd half Steel Ramp ready
WHS2040	Potential VO for WHS Ramp modification (1st stage)	0%	0	0	20-Oct-17*		100					◆ Potential VO for WHS Ramp modification (1st stage)
WHS2100	Shop Drawing preparation, submission & approval	0%	90	90	20-Oct-17	06-Feb-18	100					
WHS2110	Material procurement & testing	0%	60	60	25-Nov-17	06-Feb-18	100					
Crossing Fanling Highway Section												
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	20-Oct-17	02-Jan-18	388					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				2018
								Oct	Nov	Dec	Jan	
WHS1520	Remove railing	0%	12	12	03-Jan-18	16-Jan-18	388					
WHS1530	Bridge floor marking	0%	6	6	17-Jan-18	23-Jan-18	388					
Slip Road Y Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
RDZ41060	Construct Slip Rd Y - 1st Lane (Ch8370-8650)(SA340) (Z4)	78.89%	19	90	20-Jul-17 A	11-Nov-17	0					
RDZ41070	Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4)	0%	4	4	13-Nov-17	16-Nov-17	0					
VO - Wall 76A Construction												
Retaining Wall W76A												
TWSR-East FL Highway S/B Side Section												
W76A1050	Drainage work for Caltex access road	51.33%	73	150	20-Jul-17 A	17-Jan-18	261					
W76A1060	Road work for Caltex access road	0%	150	150	18-Jan-18	24-Jul-18	261					
Fanling Highway Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY	0%	60	60	03-Jan-18	16-Mar-18	21					
RDZ41102	Construct FH N/B Lane 1 (at NBZ2)	0%	20	20	02-Jan-18	24-Jan-18	14					
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	30	30	25-Nov-17	02-Jan-18	21					
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	0%	30	30	20-Oct-17	24-Nov-17	21					
RDZ41131	Drainage work at central divider (Ch8100-8600)	6%	141	150	10-Oct-17 A	14-Apr-18	0					
Other Works												
Retaining Wall W78												
TWSR-East FL Highway S/B Side Section												
RWZ4.0900	Site Clearance	0%	12	12	17-Nov-17	30-Nov-17	0					
RWZ4.0910	Demolition of existing retaining wall (Instructed in 2-Jun-17 ad-hoc site	0%	35	35	01-Dec-17	13-Jan-18	0					
RWZ4.1010	Base slab & Wall (6-11m high)-RW78 (Ch.0-50)	0%	110	110	15-Jan-18	01-Jun-18	0					
Slope Works												
TWSR-East FL Highway S/B Side Section												
S1030	Slope S53-Fill ~5m	0%	110	110	20-Oct-17	05-Mar-18	209					
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Oct-17	06-Dec-17	408					
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Oct-17	06-Dec-17	408					
TCSS Works												
TCSS Pre-Construction Works												
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Oct-17	12-Dec-17	24					
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	13-Dec-17	02-Jan-18	168					
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	03-Jan-18	23-Jan-18	134					
TCSS0160	Raw material procurement	0%	180	180	13-Dec-17	10-Jun-18	31					
G34												
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		20-Oct-17	242					
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	0%	30	30	25-Nov-17	02-Jan-18	182					
G35												
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	0%	5	5	20-Oct-17	25-Oct-17	357					
DS50												
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-Oct-17	24-Nov-17	272					
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	0%	5	5	20-Oct-17	25-Oct-17	297					
FVMS2 (Deleted by RFI-138, Pending for VO)												
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Oct-17	24-Nov-17	332					
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	0%	30	30	20-Oct-17	24-Nov-17	332					

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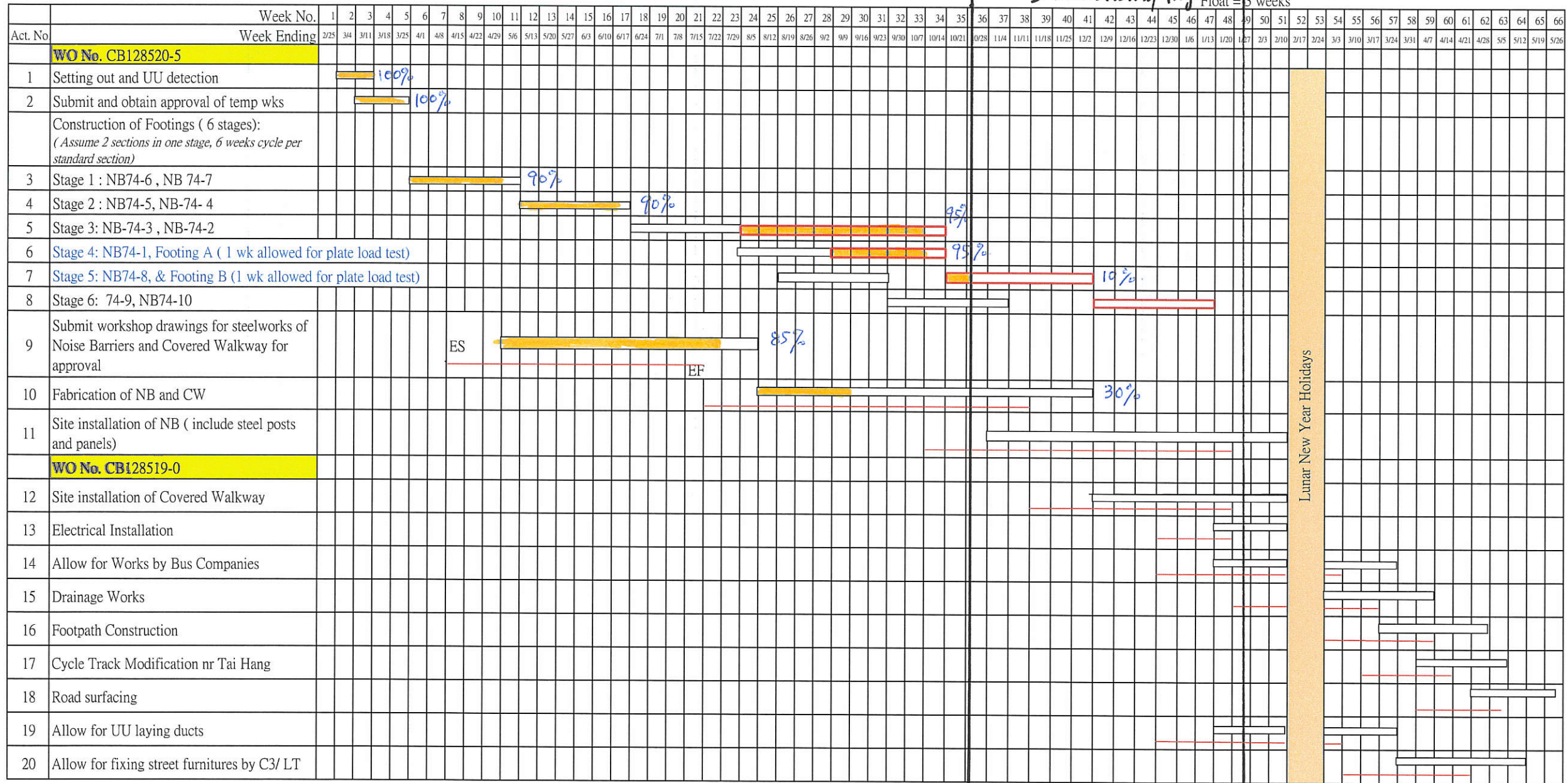
Contract No. 02/HY/2015

Works Order Nos: CB128519-0 & CB128520-5

Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

24/1
 Revised Program Duration
 Programmed Duration
 Actual Progress
 Critical Path Activities
 Early Start & Early Finish
 Float = 3 weeks
 3 month Rolling Program

Rev	Date	Description
00	28/02/17	initial issue
01	29/03/17	refer RE's comments
02	22/5/17	add plate load test program
3	28/9/2017	revise program of task 5-8



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 = 432 M	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		1 day
5	Fwk-Rebar- Concreting	110 M 3	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M 3	5 days
			Total = 42 days

** Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

	Posts calendar days
Fwk	2
Re-bar	3
Concreting	1
Remove Fwk	1
Total :	7 days

24/1

**APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)**

Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Aug 17	Sep 17	Oct 17	Aug 17	Sep 17	Oct 17
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V	V	V	V	V	V
	All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		@	@	@	V	V	@
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@	V	V	V	V	V
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V	V	V	V	V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V	V	V	V	V	V
	Materials shall be dampened, if necessary, before transportation.		V	V	V	V	V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V	V	V	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		@	@	@	@	@	@

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Aug 17	Sep 17	Oct 17	Aug 17	Sep 17	Oct 17
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V	V	V	V
	Reduce the number of equipment and their percentage on-time.		V	V	V	V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Aug 17	Sep 17	Oct 17	Aug 17	Sep 17	Oct 17
Water quality during construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> - Prevent off-site migration through use of sheet piles. - Minimise duration of works as far as practical. - All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. - Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	V	@	@	N.A.	N.A.	N.A.
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. - Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. - Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls. - Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system. - Open stockpiles should be covered with a tarpaulin cover. - During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded. - Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. - Fuels should be stored in bunded areas such that spillage can be easily collected. 		@	@	@	@	V	@

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Aug 17	Sep 17	Oct 17	Aug 17	Sep 17	Oct 17
Waste management during construction	General Waste <ul style="list-style-type: none"> - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards. 	During construction	@	@	@	V	V	V
	Vegetation from site clearance <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. 		V	V	V	V	V	V
	Demolition Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. 		V	V	V	V	V	V
	Excavated Materials <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are excavated. 		V	V	V	V	V	V
	Construction Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. - Planning to reduce over ordering and waste generation. - Recycling and re-use of materials where possible (e.g. metal, wood from formwork) - For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. 		V	@	@	V	V	V

<p>Bentonite Slurries</p> <ul style="list-style-type: none"> - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. 		#	#	#	N.A.	N.A.	N.A.
<p>Chemical Wastes</p> <ul style="list-style-type: none"> - Storage within locked, covered and bunded area. - The storage area shall not be located adjacent to sensitive receivers e.g. drains. - Minimise waste production and recycle oils/solvents where possible. - A spill response procedure shall be in place and absorption material available for minor spillages. - Use appropriate and labelled containers. - Educate site workers on site cleanliness/waste management procedures. - If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. - The chemical wastes shall be collected by a licensed chemical waste collector. 		@	V	@	N.A.	N.A.	N.A.
<p>Municipal Wastes</p> <ul style="list-style-type: none"> - Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. - Regular, daily collections are required by an approved waste collector. 		V	@	V	V	V	V

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Aug 17	Sep 17	Oct 17	Aug 17	Sep 17	Oct 17
Ecology during construction	<p>Accurate Delineation of Works Area</p> <ul style="list-style-type: none"> - Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. - Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 	During construction	V	V	V	V	V	V
	<p>Vegetation Clearance</p> <ul style="list-style-type: none"> - No fires shall be lit within the works area for the purpose of burning cleared vegetation. - The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 		V	V	V	V	V	V
	<p>Dust generation</p> <p>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on ‘Dust Control Requirements, including the following key measures to be applied during construction:</p> <ul style="list-style-type: none"> - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - All temporary site access roads shall be sprayed with water to suppress dust as necessary; - All dusty materials should be sprayed with water immediately prior to any handling; and - All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		@	@	@	@	@	@

	<p>Surface Run-off In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport). 		@	@	@	@	V	V
--	---	--	---	---	---	---	---	---

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			Aug 17	Sep 17	Oct 17	Aug 17	Sep 17	Oct 17
Landscape & Visual during construction	Preservation of Existing Vegetation - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors.	During construction	V	V	V	V	V	V
	Temporary Works Areas - Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.		V	V	V	V	V	V
	Hoarding - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.		V	V	V	N.A.	N.A.	N.A.
	Top Soils - The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.		#	#	#	N.A.	N.A.	N.A.
	Protection of Important Landscape Features - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.		#	#	#	N.A.	N.A.	N.A.

Legend:

- V = implemented;
- x = not implemented;
- @ = partially implemented;
- + = recommended and immediately implemented during the site inspection by the Contractor;
- N/A = not applicable - No such work was undertaken or no such material was used on site;
- # = to be implemented.

**APPENDIX D
SUMMARY OF ACTION AND LIMIT LEVELS**

Appendix D - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level
AM2	317.8 µg/m ³	500 µg/m ³

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

Location	Action Level	Limit Level
AM2	200.7 µg/m ³	260 µg/m ³

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented complaint, related to 0700 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers	75 dB(A)
M3*		65/70 dB(A)

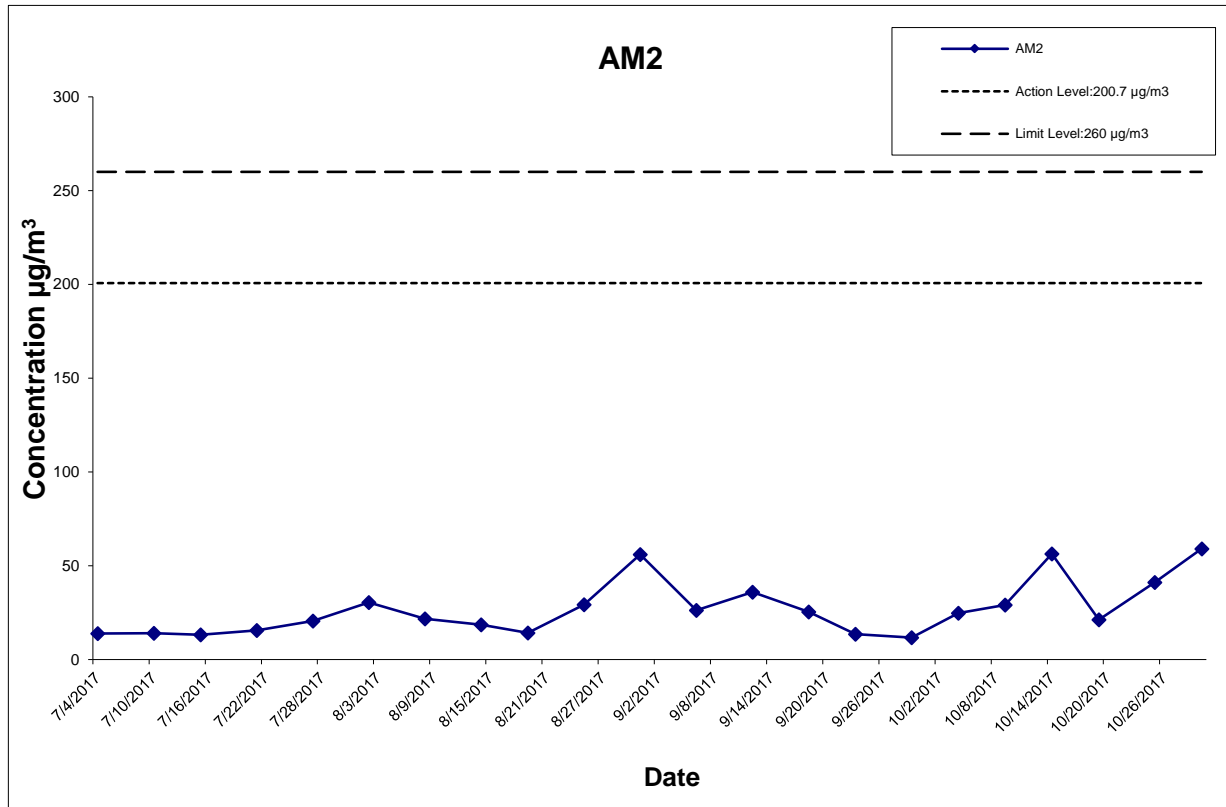
*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Actino Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final				
4-Jul-17	Sunny	26.5	1008.4	1.314	1.314	1.314	1892.2	2.8314	2.8577	0.0263	8922.02	8946.02	24.00	13.9	200.7	260
10-Jul-17	Sunny	29.4	1008.5	1.314	1.314	1.314	1892.2	2.8306	2.8573	0.0267	8946.02	8970.02	24.00	14.1	200.7	260
15-Jul-17	Rainy	32.1	1007.4	1.314	1.314	1.314	1892.2	2.8104	2.8354	0.0250	8970.02	8994.02	24.00	13.2	200.7	260
21-Jul-17	Sunny	29.3	1009.4	1.314	1.314	1.314	1892.2	2.8063	2.8356	0.0293	8994.02	9018.02	24.00	15.5	200.7	260
27-Jul-17	Sunny	29.0	1003.4	1.314	1.314	1.314	1892.2	2.7580	2.7969	0.0389	9018.02	9042.02	24.00	20.6	200.7	260
2-Aug-17	Sunny	29.3	1002.2	1.314	1.314	1.314	1892.2	2.5647	2.6223	0.0576	9042.02	9066.02	24.00	30.4	200.7	260
8-Aug-17	Sunny	30.4	1006.6	1.314	1.314	1.314	1892.2	2.7971	2.8382	0.0411	9066.02	9090.02	24.00	21.7	200.7	260
14-Aug-17	Rainy	29.9	1008.8	1.314	1.314	1.314	1892.2	2.7728	2.8080	0.0352	9090.02	9114.02	24.00	18.6	200.7	260
19-Aug-17	Cloudy	30.6	1009.8	1.314	1.314	1.314	1892.2	2.7815	2.8083	0.0268	9114.02	9138.02	24.00	14.2	200.7	260
25-Aug-17	Sunny	29.2	1008.3	1.314	1.314	1.314	1892.2	2.8625	2.9178	0.0553	9138.02	9162.02	24.00	29.2	200.7	260
31-Aug-17	Rainy	28.9	1007.3	1.314	1.314	1.314	1892.2	2.8290	2.9349	0.1059	9162.02	9186.02	24.00	56.0	200.7	260
6-Sep-17	Cloudy	29.1	1007.5	1.314	1.314	1.314	1892.2	2.8278	2.8775	0.0497	9186.02	9210.02	24.00	26.3	200.7	260
12-Sep-17	Sunny	29.9	1009.3	1.314	1.314	1.314	1892.2	2.8171	2.8851	0.0680	9210.02	9234.02	24.00	35.9	200.7	260
18-Sep-17	Sunny	29.7	1009.8	1.314	1.314	1.314	1892.2	2.7582	2.8062	0.0480	9234.02	9258.02	24.00	25.4	200.7	260
23-Sep-17	Rainy	29.0	1010.8	1.314	1.314	1.314	1892.2	2.8208	2.8466	0.0258	9258.02	9282.02	24.00	13.6	200.7	260
29-Sep-17	Sunny	30.2	1012.2	1.314	1.314	1.314	1892.2	2.5966	2.6188	0.0222	9282.02	9306.02	24.00	11.7	200.7	260
4-Oct-17	Sunny	28.7	1014.0	1.314	1.314	1.314	1892.2	2.8265	2.8734	0.0469	9306.02	9330.02	24.00	24.8	200.7	260
9-Oct-17	Sunny	29.4	1010.1	1.314	1.314	1.314	1892.2	2.8087	2.8638	0.0551	9330.02	9354.02	24.00	29.1	200.7	260
14-Oct-17	Fine	24.5	1004.5	1.314	1.314	1.314	1892.2	2.7571	2.8638	0.1067	9354.02	9378.02	24.00	56.4	200.7	260
19-Oct-17	Cloudy	25.4	1011.9	1.314	1.314	1.314	1892.2	2.7491	2.7892	0.0401	9378.02	9402.02	24.00	21.2	200.7	260
25-Oct-17	Sunny	24.1	1018.8	1.314	1.314	1.314	1892.2	2.7547	2.8326	0.0779	9402.02	9426.02	24.00	41.2	200.7	260
30-Oct-17	Fine	22.7	1020.9	1.314	1.314	1.314	1892.2	2.7653	2.8772	0.1119	9426.02	9450.02	24.00	59.1	200.7	260
Average for the reporting quarter (Aug 17 to Oct 17)													30.3			
Minimum for the reporting quarter (Aug 17 to Oct 17)													11.7			
Maximum for the reporting quarter (Aug 17 to Oct 17)													59.1			



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 24-hour TSP Monitoring Results

Project No.: 60307376

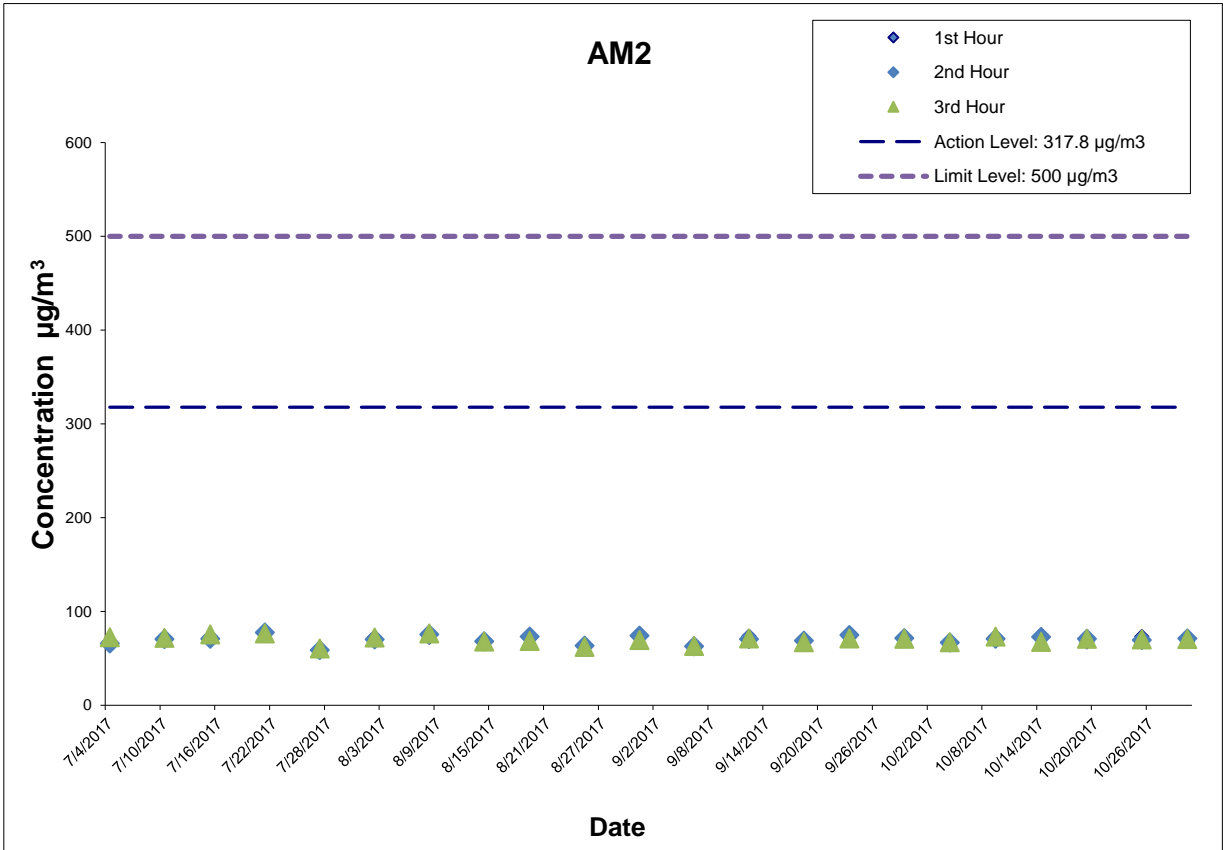
Date: Nov-17

Appendix E

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fanning Government Secondary School)

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
4-Jul-17	14:00	68.4	65.9	72.6
10-Jul-17	13:00	72.0	70.6	71.9
15-Jul-17	10:30	73.2	70.9	75.5
21-Jul-17	13:12	76.4	77.6	76.6
27-Jul-17	13:10	60.1	58.8	60.7
2-Aug-17	13:45	72.6	70.4	72.2
8-Aug-17	13:30	72.7	75.6	76.6
14-Aug-17	13:03	67.1	68.2	67.8
19-Aug-17	13:30	71.5	73.2	68.5
25-Aug-17	13:08	62.1	63.7	62.2
31-Aug-17	14:05	73.6	74.2	69.7
6-Sep-17	13:02	64.8	62.9	63.4
12-Sep-17	11:15	73.6	70.6	71.2
18-Sep-17	13:07	67.9	69.0	67.3
23-Sep-17	13:15	72.9	75.0	71.4
29-Sep-17	11:52	73.1	71.6	70.9
4-Oct-17	9:45	68.2	66.9	67.3
9-Oct-17	10:10	72.9	70.8	73.4
14-Oct-17	10:10	71.6	73.0	67.5
19-Oct-17	13:30	67.5	70.8	71.1
25-Oct-17	14:10	73.4	69.6	70.3
30-Oct-17	9:55	67.9	71.4	70.6
Average for the reporting quarter (Aug 17 to Oct 17)				70.0
Minimum for the reporting quarter (Aug 17 to Oct 17)				62.1
Maximum for the reporting quarter (Aug 17 to Oct 17)				76.6



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Nov-17

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

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Services](#)[> Climate Watch](#)[> Climate Statistics](#)[> Climate Prediction](#)[> Climate Knowledge](#)[> Need More](#)[Information?](#)[> Global Climate](#)[Services](#)[> Other Useful Links](#)[Climate Forecast](#)[Climate Change](#)[El Nino and La Nina](#)[Earthquakes and](#)[Tsunamis](#)[Astronomy, Space](#)[Weather and](#)[Geomagnetism](#)[Time and Calendar](#)[Radiation Monitoring,](#)[Assessment and](#)[Protection](#)[Educational Resources](#)[Publications](#)[Back](#)

Daily Extract of Meteorological Observations , August 2017 - Tai Po

 Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1001.2	33.5	30.4	28.9	27.0	82	***	***	***
02	1002.3	29.9	27.8	25.9	26.6	93	***	***	***
03	1001.9	29.6	27.4	25.1	26.1	93	***	***	***
04	1003.2	29.3	27.4	25.9	25.8	91	***	***	***
05	1005.7	31.6	29.1	26.9	26.7	87	***	***	***
06	1006.3	34.2	30.1	27.0	26.0	79	***	***	***
07	1006.1	34.0#	30.3	27.8#	26.0	78	***	***	***
08	1006.5	32.9	30.5	28.6	26.2	78	***	***	***
09	1006.0	32.0	29.5	27.7	26.2	83	***	***	***
10	1006.1#	29.5#	28.3#	26.4#	26.4#	90#	***	***	***
11	1007.6#	32.2#	30.5#	29.2#	26.1#	77#	***	***	***
12	1009.3#	32.7#	30.1#	28.6#	25.4#	76#	***	***	***
13	1009.3	32.8#	29.9	27.9#	25.3	77	***	***	***
14	1008.9	32.6#	29.8	27.6#	25.3	77	***	***	***
15	1008.3	33.3#	29.7	26.6#	24.5	75	***	***	***
16	1008.3	32.0#	29.1	26.5#	25.1	80	***	***	***
17	1009.2	32.9#	29.2	26.2#	25.0	79	***	***	***
18	1010.5	32.3#	28.9	26.4#	26.1	85	***	***	***
19	1010.1#	32.8#	29.5#	26.4#	25.9#	82#	***	***	***
20	1007.0	35.2	30.3	26.4	24.5	73	***	***	***
21	1003.2	35.5	31.1	27.0	25.8	74	***	***	***
22	999.9	35.0#	30.2	27.3#	26.5	81	***	***	***
23	997.8	28.7#	26.8	25.4#	25.1	91	***	***	***
24	1008.0	30.6#	28.8	27.3#	26.3	87	***	***	***
25	1008.6#	30.3#	28.2#	26.6#	26.0#	88#	***	***	***
26	1006.8	33.2#	28.9	25.7#	24.7	79	***	***	***
27	1005.4#	26.8#	25.6#	24.7#	24.8#	96#	***	***	***
28	1010.2	27.0#	25.1	24.2#	24.8	98	***	***	***
29	1010.1	32.6#	28.1	23.7#	24.8	83	***	***	***
30	1008.2	33.0#	29.0	25.5#	25.2	81	***	***	***
31	1007.3	33.4#	28.5	25.3#	24.9	82	***	***	***

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Daily Extract of Meteorological Observations , August 2017 - Tai Mei Tuk

 Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	32.2	30.2	28.6	***	***	0.0	240	11.7
02	***	32.0	28.3	26.2	***	***	7.5	050	5.8
03	***	30.4#	27.5	25.1#	***	***	11.5	040	8.4
04	***	30.0#	27.7	26.0#	***	***	2.0	050	6.4
05	***	34.0	29.8	27.2	***	***	0.0	140	4.8
06	***	34.4#	30.2	27.5#	***	***	0.0	180	5.3
07	***	34.0#	30.3	27.8#	***	***	0.0	260	14.7
08	***	32.5	30.2	28.2	***	***	2.0	230	16.2
09	***	30.4	28.9	27.1	***	***	9.5	230	16.4
10	***	30.8#	28.7	26.0#	***	***	60.5	250	15.2
11	***	33.0	30.0	28.0	***	***	0.0	250	16.1
12	***	32.7#	29.9	28.1#	***	***	0.0	260	16.3
13	***	33.0	29.7	27.5	***	***	0.0	240	16.3
14	***	33.1#	29.7	27.3#	***	***	0.0	230	14.1
15	***	33.1#	29.6	26.9#	***	***	0.0	230	10.2
16	***	34.6#	29.1	27.1#	***	***	7.5	270	5.3
17	***	34.8#	29.9	26.7#	***	***	0.0	140	4.3
18	***	34.5#	30.0	27.0#	***	***	0.0	140	3.7
19	***	34.7	30.5	27.4	***	***	0.0	080	4.5
20	***	35.7	30.8	27.4	***	***	0.0	250	5.2
21	***	35.5	31.5	27.3	***	***	0.0	260	7.2
22	***	36.4	30.4	26.1	***	***	2.5	050	11.7
23	***	29.0#	26.4	24.7#	***	***	63.0	020	33.6
24	***	32.0	28.4	26.5	***	***	2.5	140	13.3
25	***	33.0#	28.5	26.5#	***	***	0.0	060	12.4
26	***	33.7	28.9	24.7	***	***	18.0	050	17.1
27	***	26.1#	25.1	24.2#	***	***	155.5	150	36.5
28	***	26.0	25.0	24.4	***	***	66.0	050	8.5
29	***	32.1	27.7	23.7	***	***	0.0	270	5.6
30	***	34.1	29.1	26.0	***	***	0.0	050	5.2
31	***	34.0#	28.8	26.3#	***	***	1.5	060	3.9

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Daily Extract of Meteorological Observations , September 2017 - Tai Po

Year Month Go

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1005.8	32.1#	27.1	24.8#	24.9	88	***	***	***
02	1004.8#	31.0#	27.5#	25.1#	25.3#	88#	***	***	***
03	1005.3#	30.3#	28.1#	25.2#	25.8#	88#	***	***	***
04	1006.7#	28.2#	26.6#	25.3#	24.8#	90#	***	***	***
05	1008.5	29.3#	27.4	25.6#	26.4	94	***	***	***
06	1007.7	31.5#	28.1	26.2#	26.7	93	***	***	***
07	1008.5	30.1#	27.1	25.5#	26.1	95	***	***	***
08	1009.3	31.7#	27.8	25.2#	25.6	88	***	***	***
09	1009.1	30.3#	27.3	25.7#	26.2	94	***	***	***
10	1010.2	31.0#	27.8	25.8#	25.8	89	***	***	***
11	1009.7	32.8#	29.3	25.7#	25.8	82	***	***	***
12	1009.4	33.8#	29.1	25.6#	25.6	82	***	***	***
13	1009.8	31.7#	29.1	26.6#	25.2	80	***	***	***
14	1008.8	31.0#	28.8	27.4#	22.6	69	***	***	***
15	1009.7	31.3#	28.5	26.5#	25.3	83	***	***	***
16	1009.9	34.2	30.1	26.6	23.8	70	***	***	***
17	1009.4	32.9#	29.7	27.0#	24.1	73	***	***	***
18	1009.9	31.6#	28.6	25.8#	24.7	80	***	***	***
19	1010.3	31.1#	28.5	26.3#	24.5	79	***	***	***
20	1009.5	31.0#	28.5	25.9#	25.4	83	***	***	***
21	1008.8	32.1#	28.8	26.8#	25.6	84	***	***	***
22	1010.1	30.6#	28.3	25.3#	26.0	88	***	***	***
23	1010.9	30.6#	28.7	26.9#	26.3	87	***	***	***
24	1009.1	30.1#	28.7	26.6#	25.6#	83#	***	***	***
25	1010.2	30.9#	28.5	26.9#	26.1#	85#	***	***	***
26	1011.0	32.7	29.5	26.9	26.2	83	***	***	***
27	1009.5	34.0#	29.7	25.9#	26.2	82	***	***	***
28	1009.1	33.1#	29.6	26.5#	25.4	78	***	***	***
29	1012.1	31.3#	29.4	27.7#	25.8	81	***	***	***
30	1013.8	30.2#	28.4	25.5#	25.7	86	***	***	***

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Daily Extract of Meteorological Observations , September 2017 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	33.1#	27.6	24.9#	***	***	13.5	260	7.3
02	***	32.2	28.2	25.3	***	***	0.5	060	3.5
03	***	31.8	28.5	26.3	***	***	0.5	270	12.6
04	***	27.6	26.1	24.9	***	***	44.5	260	17.5
05	***	31.2	27.6	25.6	***	***	6.5	050	5.5
06	***	32.3	28.6	26.5	***	***	10.0	140	3.4
07	***	31.9#	27.8	26.0#	***	***	10.0	270	5.0
08	***	31.4	28.3	25.8	***	***	8.5	060	4.4
09	***	32.4	27.6	25.6	***	***	16.0	070	3.9
10	***	32.4#	28.3	25.8#	***	***	0.0	050	4.6
11	***	34.2	29.7	26.2	***	***	0.0	270	4.8
12	***	35.7	29.9	25.7	***	***	14.5	060	5.4
13	***	32.4#	28.8	26.8#	***	***	1.5	050	16.2
14	***	32.4#	28.4	25.9#	***	***	0.0	050	18.2
15	***	32.9	29.0	26.6	***	***	0.0	040	8.6
16	***	34.6	30.5	27.1	***	***	0.0	280	6.6
17	***	34.6	30.2	27.0	***	***	0.0	120	5.7
18	***	32.9#	28.8	26.7#	***	***	0.0	090	10.4
19	***	32.5	28.5	26.4	***	***	0.0	070	10.8
20	***	32.7#	28.6	26.0#	***	***	1.5	040	9.0
21	***	33.8#	29.2	26.9#	***	***	0.0	050	6.6
22	***	30.3#	28.3	26.4#	***	***	8.0	050	15.3
23	***	31.4	28.7	27.2	***	***	1.0	060	20.3
24	***	29.7	27.9	25.9	***	***	29.0	090	25.5
25	***	31.5	28.5	26.9	***	***	1.0	120	11.0
26	***	33.2#	29.6	27.0#	***	***	0.0	080	6.3
27	***	35.3	30.3	26.8	***	***	0.0	140	2.3
28	***	34.6#	29.7	27.2#	***	***	0.0	130	4.8
29	***	33.1	29.5	27.1	***	***	0.0	090	16.4
30	***	29.5	27.9	25.7	***	***	24.0	090	21.7

*** unavailable

data incomplete

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Daily Extract of Meteorological Observations , October 2017 - Tai Po

 Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1011.8	29.7#	27.7	25.8#	25.9	90	***	***	***
02	1011.2	30.3#	28.2	25.8#	26.2	89	***	***	***
03	1012.4	31.9#	29.2	27.5#	26.0	83	***	***	***
04	1014.2	29.4	28.2	26.3	25.6	86	***	***	***
05	1013.4	30.0#	28.3	27.2#	24.1	78	***	***	***
06	1013.3	30.2#	28.5	27.4#	24.5	79	***	***	***
07	1013.1	30.9#	28.9	27.7#	24.7	78	***	***	***
08	1011.9	30.4#	28.5	26.6#	24.7	80	***	***	***
09	1010.3	30.7#	29.4	27.5#	24.5	75	***	***	***
10	1010.9	31.4#	29.6	28.7#	24.8	76	***	***	***
11	1011.3	31.7#	29.5	28.3#	24.9	77	***	***	***
12	1010.0	32.6#	29.1	26.4#	23.0	71	***	***	***
13	1008.4	29.4#	26.2	23.2#	18.7	64	***	***	***
14	1005.4	24.4#	23.7	20.5#	17.9	70	***	***	***
15	1001.7	26.8	22.5	19.2	21.2	93	***	***	***
16	1008.4	28.7	26.4	23.6	24.8	91	***	***	***
17	1012.8	26.6#	24.0	21.5#	22.6	92	***	***	***
18	1013.4	28.2	25.3	23.1	20.9	77	***	***	***
19	1012.5	27.1	24.3	22.1	18.8	71	***	***	***
20	1012.6	27.3	23.3	21.4	17.3	69	***	***	***
21	1012.5	26.4#	22.9	20.6#	15.5	63	***	***	***
22	1012.8	25.8#	21.6	18.0#	14.3	64	***	***	***
23	1016.0	26.1#	21.8	17.2#	15.5	69	***	***	***
24	1018.3#	26.9#	22.7#	20.3#	18.1#	76#	***	***	***
25	1017.7	26.0#	23.5	21.4#	17.9	71	***	***	***
26	1015.2	27.2#	23.4	20.3#	18.7	76	***	***	***
27	1012.9	27.4	23.4	19.8	15.9	64	***	***	***
28	1013.8	26.6	23.3	20.2	14.9	60	***	***	***
29	1017.2	26.3#	23.3	19.2#	13.6	55	***	***	***
30	1020.1	24.6#	22.1	18.9#	12.0	53	***	***	***
31	1018.9	23.6#	20.5	16.5#	12.7	62	***	***	***

*** unavailable

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Daily Extract of Meteorological Observations , October 2017 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	29.5	27.2	25.8	***	***	28.0	050	17.7
02	***	31.8	28.6	26.8	***	***	0.5	090	16.3
03	***	32.9	29.1	27.2	***	***	0.0	040	11.6
04	***	30.9#	28.4	27.3#	***	***	0.0	090	23.1
05	***	31.0#	28.2	26.6#	***	***	0.0	100	19.8
06	***	31.5	28.5	26.8	***	***	0.0	070	17.9
07	***	31.8#	28.8	26.7#	***	***	0.0	100	21.3
08	***	32.0	28.6	26.5	***	***	0.0	090	16.4
09	***	31.4	29.1	27.4	***	***	0.0	060	27.1
10	***	32.1#	29.3	27.7#	***	***	0.0	070	21.8
11	***	32.3	29.3	27.5	***	***	0.0	090	17.2
12	***	32.9#	29.0	26.0#	***	***	0.0	050	14.0
13	***	29.2#	25.8	23.0#	***	***	0.0	030	16.3
14	***	25.0	23.4	19.8	***	***	4.5	030	25.8
15	***	26.4	22.0	19.2	***	***	69.0	020	44.3
16	***	27.1	25.6	23.4	***	***	35.5	040	23.6
17	***	28.1#	24.6	23.0#	***	***	25.5	040	18.7
18	***	29.1#	25.4	22.9#	***	***	0.0	030	13.6
19	***	26.5#	24.0	21.8#	***	***	0.0	010	12.7
20	***	28.5	23.4	21.1	***	***	0.0	040	12.8
21	***	26.4	22.9	20.5	***	***	0.0	030	16.8
22	***	26.0	22.4	18.6	***	***	0.0	040	10.6
23	***	26.8	22.7	18.6	***	***	0.0	050	7.0
24	***	27.5	23.6	21.3	***	***	0.0	050	10.6
25	***	27.1#	23.3	21.3#	***	***	0.0	050	13.9
26	***	28.0	23.7	20.8	***	***	0.0	040	8.3
27	***	28.2	24.3	21.0	***	***	0.0	040	7.6
28	***	27.6	24.4	22.0	***	***	0.0	030	15.1
29	***	26.8	23.7	20.5	***	***	0.0	040	19.7
30	***	24.8#	22.1	19.6#	***	***	0.0	040	21.3
31	***	24.1	20.9	18.1	***	***	0.0	040	15.7

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data incomplete

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**APPENDIX G
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION**

Location : M2 (West Tai Wo - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
4-Jul-17	13:10	68.9	73.6	61.2	75	N
10-Jul-17	13:02	69.6	73.0	64.3	75	N
21-Jul-17	14:03	69.4	71.5	66.5	75	N
27-Jul-17	13:55	68.8	70.5	66.5	75	N
2-Aug-17	13:00	70.0	73.6	66.2	75	N
8-Aug-17	14:20	69.2	71.0	66.7	75	N
14-Aug-17	14:17	70.0	72.0	66.0	75	N
25-Aug-17	14:01	69.9	71.0	66.0	75	N
31-Aug-17	15:05	66.5	68.1	63.6	75	N
6-Sep-17	14:17	66.0	69.5	71.0	75	N
12-Sep-17	13:10	66.2	70.6	74.2	75	N
18-Sep-17	14:01	70.4	72.0	64.5	75	N
29-Sep-17	14:10	70.4	73.9	67.5	75	N
4-Oct-17	10:05	68.5	70.0	64.5	75	N
9-Oct-17	10:10	70.1	74.2	63.2	75	N
19-Oct-17	15:00	67.9	69.5	65.2	75	N
25-Oct-17	15:20	67.3	68.9	65.1	75	N
30-Oct-17	11:09	70.9	72.3	67.2	75	N
Minimum for Aug 17 to Oct 17		66.0	68.1	63.2		
Maximum for Aug 17 to Oct 17		70.9	74.2	74.2		
Average for Aug 17 to Oct 17		69.1	71.6	67.7		

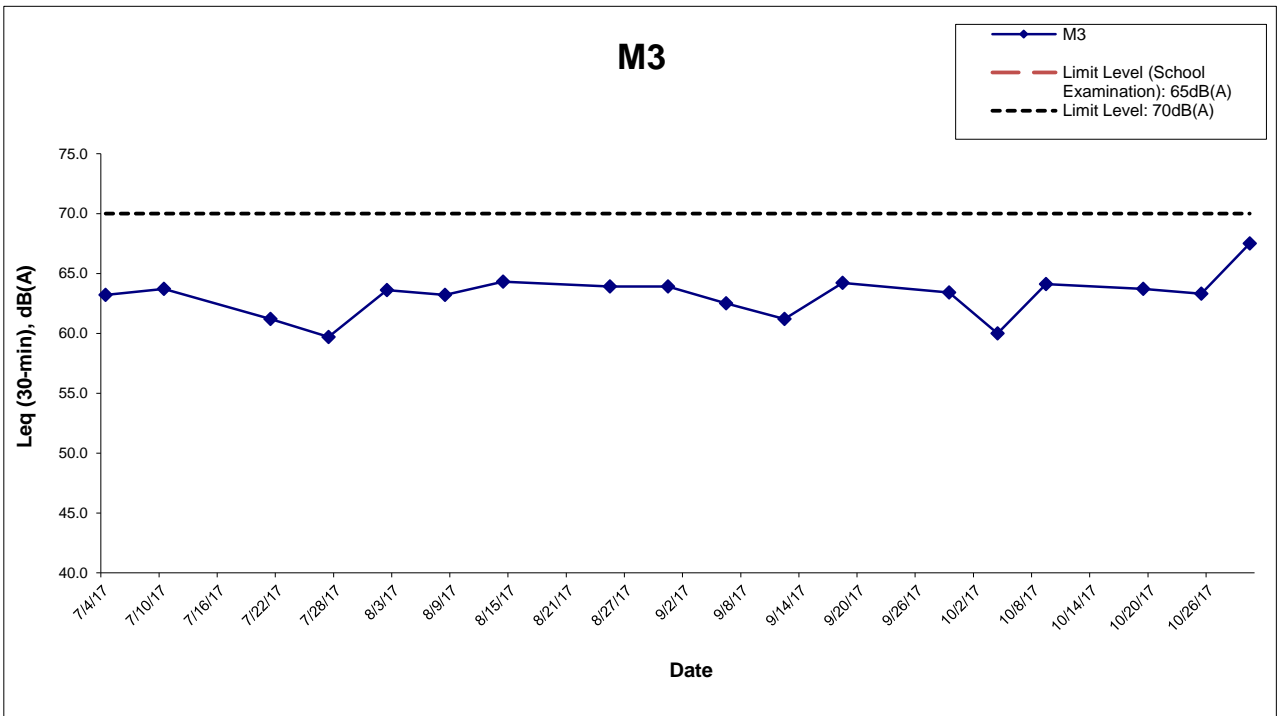
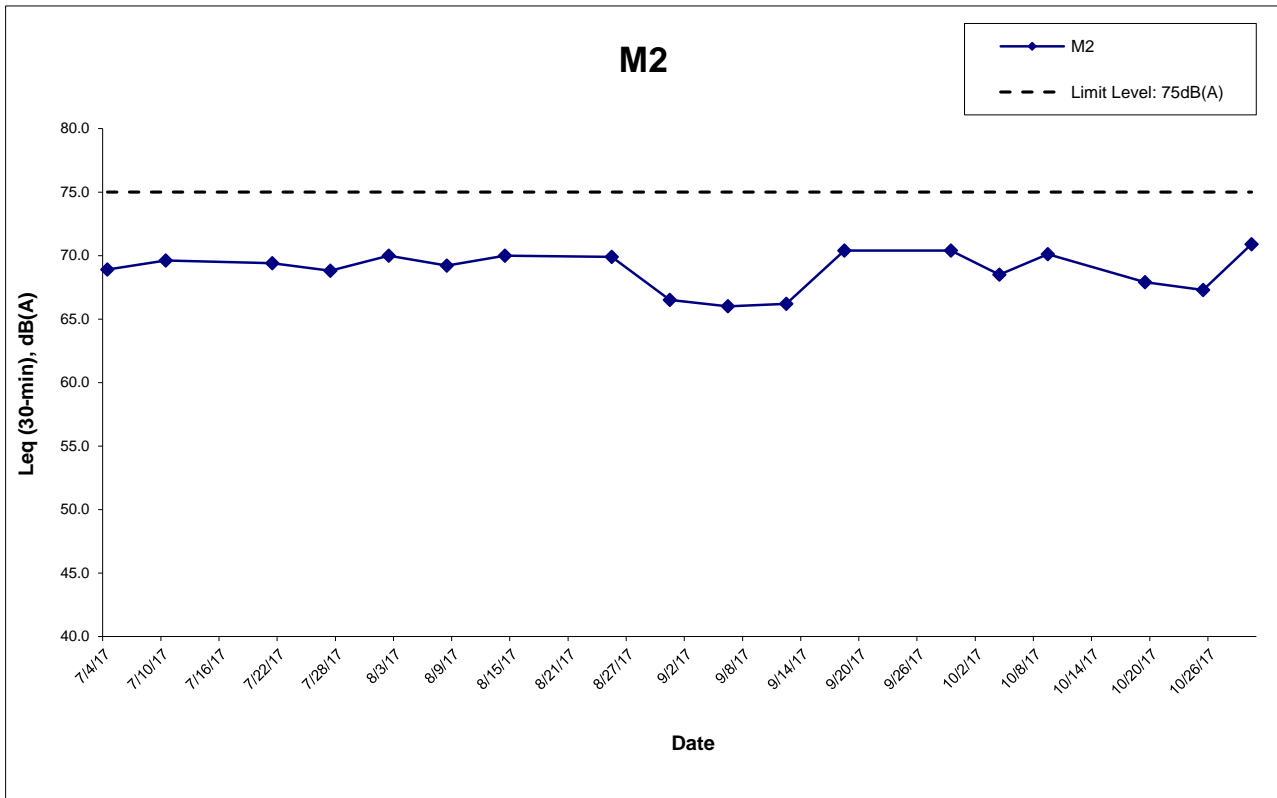
Location : M3 (Fanling Government Secondary School- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq	L10	L90		
4-Jul-17	14:09	63.2	66.5	58.4	70	N
10-Jul-17	14:10	63.7	66.9	58.9	70	N
21-Jul-17	13:12	61.2	62.5	65.0	70	N
27-Jul-17	13:10	59.7	60.5	56.0	70	N
2-Aug-17	13:45	63.6	67.2	58.7	70	N
8-Aug-17	13:35	63.2	64.8	61.6	70	N
14-Aug-17	13:03	64.3	65.5	61.0	70	N
25-Aug-17	13:08	63.9	65.5	60.5	70	N
31-Aug-17	14:10	63.9	65.4	61.1	70	N
6-Sep-17	13:02	62.5	65.1	67.0	70	N
12-Sep-17	14:02	61.2	64.0	66.5	70	N
18-Sep-17	13:07	64.2	66.0	61.5	70	N
29-Sep-17	13:50	63.4	67.6	59.7	70	N
4-Oct-17	9:45	60.0	61.0	56.5	70	N
9-Oct-17	10:30	64.1	66.9	61.0	70	N
19-Oct-17	13:40	63.7	65.2	61.3	70	N
25-Oct-17	14:15	63.3	65.1	60.1	70	N
30-Oct-17	9:59	67.5	69.2	65.3	70	N
Minimum for Aug 17 to Oct 17		60.0	61.0	56.5		
Maximum for Aug 17 to Oct 17		67.5	69.2	67.0		
Average for Aug 17 to Oct 17		63.8	66.0	62.5		

* +3dB(A) Façade effect correction included

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



Remark:

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact Daytime Construction Noise
 Monitoring Results

Project No.: 60307376

Date: Nov-17

Appendix G

**APPENDIX H
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS**

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Contract No. HY/2012/06 – Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	0	7
	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
23 October 2014	<p>EPD referred an air complaint on 24 October 2014.</p> <p>A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house.</p> <p>The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up. The location of complaint is near Lamppost Location EB5717.</p>	Closed		
31 December 2014	<p>EPD referred a water complaint on 31 December 2014.</p> <p>The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project. He required the EPD to follow up.</p>	Closed		
25 March 2015	<p>EPD referred a water complaint on 25 March 2015.</p> <p>The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses.</p> <p>The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.</p>	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
<p>5 January 2017 (Referred by the Contractor on 13 January 2017)</p>	<p>A complaint was received by the 1823 enquiry and complaint hotline on 5 January 2017. The complaint was referred to the Environmental Team by the Contractor on 13 January 2017.</p> <p>The complainant complained against the dust emission generated by the Widening of Fanling Highway construction site on Tai Wo Service Road West near Tai Hang Village.</p> <p>The complainant also complained that Highway Department did not conduct road surface cleansing, which affects residents' health. He/she now requires the Highway Department to follow up.</p>	<p>Closed</p>		
<p>22 May 2017 (Referred by the Contractor on 23 May 2017)</p>	<p>A complaint was received by the 1823 enquiry and complaint hotline on 22 May 2017. The complaint was referred to the Environmental Team by the Contractor on 23 May 2017.</p> <p>A complainant complained that construction noise was caused by the erection of noise barrier on Tai Wo Service Road West near Tai Hang Village on Sunday(s).</p> <p>The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.</p>	<p>Closed</p>		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

Contract No. 02/HY/2015 – Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	-	-	-	0	0
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0