# AECOM

# **Environmental Protection Department**

Contract No. HY/2012/06

# Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Annual EM&A Report for November 2017 to October 2018

[1/2019]

 Name
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T +852 2828 5757 F +852 2827 1823 mottmac.hk 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) Environmental Permit No. EP-324/2008/E

Annual EM&A Report for November 2017 to October 2018 for the portion of Stage 2 works under Contract No. HY/2012/06

16 January 2019 By Fax (2805 5028) & Hand

We refer to the Annual EM&A Report for November 2017 to October 2018 for the Project received on 07 January 2019 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. HyD AECOM

Mr. Ricky Yeung Mr. Y W Fung By Fax (2714 5198) By Fax (3922 9797)

# TABLE OF CONTENTS

			Page
EXE	CUTI	/E SUMMARY	3
1	INTR	ODUCTION	5
	1.1 1.2 1.3	Project Organization and Contacts of Key Management Programme Summary of Construction Works	5 6 6
2	ENVI	RONMENTAL MONITORING AND AUDIT REQUIREMENTS	7
	2.1 2.2 2.3 2.4	Monitoring Parameters Monitoring Locations Environmental Quality Performance Limits (Action/Limit Levels) Environmental Mitigation Measures	7 7 7 7
3		QUALITY MONITORING	8
4	NOIS	E MONITORING	8
5	ADVI	CE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS	9
6	SUM	MARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT	10
7		MARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL SECUTIONS	10
8	REVI	EW OF THE VALIDITY OF THE EIA/ERR PREDICTIONS	11
9	REVI	EW OF THE EFFECTIVNESS AND EFFICIENCY OF MITIGATION MEASURES	11
10	REVI	EW OF SUCCESS OF EM&A PROGRAMME	11
11	СОМ	MENTS, RECOMMENDATIONS AND CONCLUSIONS	12
	11.1 11.2 11.3	Comments Recommendations Conclusions	12 13 14

# List of Tables

Table 1.1	Contact	Information	of Key	Personnel
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- Table 3.1
   Summary of 1-hour TSP Monitoring Results in the Reporting Period
- Table 3.2
   Summary of 24-hour TSP Monitoring Results in the Reporting Period
- Table 4.1
   Summary of Construction Noise Monitoring Results in the Reporting Period
- Table 5.1 Summary of Waste Flow Table for Contract No. HY/2012/06
- Table 5.2Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos. CB128520-5<br/>and CB128519-0)

# Figures

Figure 1.1	General Project Layout Plan of Contract No. HY/2012/06
Figure 1.2	General Project Layout Plan of Contract No. 02/HY/2015 (Works Order Nos. CB128520-5
	and CB128519-0)
Figure 1.3a-b	Locations of Monitoring Station

# **List of Appendices**

Appendix A	Project Organization Structure
Appendix B	Construction Programme
Appendix C	Implementation Schedule of Environmental Mitigation Measures (EMIS)
Appendix D	Summary of Action and Limit Levels
Appendix E	Impact Air Quality Monitoring Results and their Graphical Presentation
Appendix F	Meteorological Data

Appendix GImpact Daytime Construction Noise Monitoring Results and their Graphical PresentationAppendix HStatistics on Complaints, Notifications of Summons and Successful Prosecutions

# 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 Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.

The construction works for this Project are 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. HY/2012/06 "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 Lepartment Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)". The construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 have been completed on 23 May 2018.

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 November 2017 and 31 October 2018. As informed by the Contractor, construction activities of Contract No. HY/2012/06 in the reporting period were:

- 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:

- Backfilling to NB74 Bay 3 to Bay 7
- Construction of catchpits and drainage pipes sheetpiling at Bay 9 to Bay 10
- Construction of footing for Bay 9 to Bay 10
- Construction of footing for NB74 Bay 8, 8A & 8B
- Construction of footpath & bus lay-by
- Construction of Posts P27-P30
- Construction of wall stem for NB74 Bay 2 to Bay 10
- Erection of NB posts and panels
- KMB works
- Metal frame for BBI
- Metal frame & roof cladding of bus shelter
- Sheetpiling at Bay 9 to Bay 10

# **Reporting Change**

Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0) has been included in this EM&A report.

# 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 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.

One (1) Limit Level exceedance was recorded on 9 April 2018 for noise monitoring at M3. The exceedance at M3 is considered to be contributed from background noise, possibly traffic noise from Pak Wo Road and Fanling Highway. The exceedance was considered non-project-related.

# Complaint, Notification of Summons and Successful Prosecution

One (1) noise-related complaint was received on 1 March 2018 and followed up by the Environmental Team. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for March 2018.

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

# 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	<b>Contact Information</b>	of Ke	y 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]		Michael Tsang	9277 4956	2672 2501
(China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	C C Chow	9679 6315	2672 2501
Contractor of [02/HY/2015] (Chiu Hing Construction & Transportation Company Limited)	Safety Officer	Marty Tai	9106 5318	-
<b>ET</b> (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797
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

Party	Position	Name	Telephone	Fax
Contractor (China State	Environmental	Michael Tsang	9277 4956	2672 2501
Construction Engineering (Hong Kong) Limited)	Officer	C C Chow	9679 6315	2672 2501
<b>ET</b> (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:

- Backfilling to NB74 Bay 3 to Bay 7
- Construction of catchpits and drainage pipes sheetpiling at Bay 9 to Bay 10
- Construction of footing for Bay 9 to Bay 10
- Construction of footing for NB74 Bay 8, 8A & 8B
- Construction of footpath & bus lay-by
- Construction of Posts P27-P30
- Construction of wall stem for NB74 Bay 2 to Bay 10
- Erection of NB posts and panels
- KMB works
- Metal frame for BBI
- Metal frame & roof cladding of bus shelter
- Sheetpiling at Bay 9 to Bay 10

- 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.

# 2.5 Environmental Impact Hypotheses Tested

- 2.5.1 The EIA Report concluded that with proper mitigation measures implemented, fugitive dust emission during the construction phase would be controlled and will not exceed the acceptable criteria.
- 2.5.2 For construction noise, exceedances were predicted only at 2 schools (SR41 Wong Shiu Chi Middle School and SR45 HK Teacher's Association Secondary School) but they are out of the scope of this EM&A Programme. Hence, the EIA did not anticipate any noise exceedances during the construction phase within the scope of this EM&A Programme.
- 2.5.3 The above criteria have been tested under this EM&A Programme during the reporting period.

# 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 days in the reporting period. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory.
- 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 (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	68.4	58.8 – 80.6	317.8	500

Table 3.2 Summary of 24-hour 15P Monitoring Results in the Reporting Period	Table 3.2	Summary of 24-hour TSP Monitoring Results in the Reporting Period
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Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	37.7	9.2 – 97.1	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 period.
- 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	
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	Average (dB(A))	Range (dB(A))	Limit Level (dB(A))
	L <sub>eq (30 mins)</sub>	Leq (30 mins)	Leq (30 mins)
M2*	68.7	63.1 – 71.2	75
M3#	64.5	58.9 – 68.3	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 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 One (1) Limit Level exceedance was recorded on 9 April 2018 for noise monitoring at M3. The exceedance at M3 is considered to be contributed from background noise, possibly traffic noise from Pak Wo Road and Fanling Highway. The exceedance was considered non-project-related.
- 4.1.6 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, 42,863 m<sup>3</sup> of inert C&D material was generated in the reporting month (13,077 m<sup>3</sup> disposed of as public fill to Tuen Mun 38, 16,755 m<sup>3</sup> of inert C&D materials was reused on site, 12,144 m<sup>3</sup> of inert C&D materials was reused in other projects and 887 m<sup>3</sup> was broken concrete). For C&D wastes, 1,065 m<sup>3</sup> of general refuse was disposed of at NENT landfill, 764 kg of paper/cardboard packaging, 8,522 kg of plastics and 35,452 kg of metals were collected by recycling Contractors, and 0 kg of chemical wastes was 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 period are summarized in Table 5.1.

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed of as public fill	13,077 m <sup>3</sup>	Tuen Mun 38
Broken concrete	887 m <sup>3</sup>	Tuen Mun 38
C&D wastes disposed as general refuse	1,065 m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	764 kg	Recycling Contractors
Plastics	8,522 kg	Recycling Contractors
Metals	35,452 kg	Recycling Contractors
C&D materials reused on site	16,755 m <sup>3</sup>	Site Area
C&D materials reused in other projects	12,144 m <sup>3</sup>	Other projects
Chemical wastes	0kg	Licensed Contractors

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

- 5.1.3 As advised by the Contractor of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015, 142 m<sup>3</sup> of inert C&D material was generated in the reporting month (137 m<sup>3</sup> disposed of as public fill to Tuen Mun 38, 0 m<sup>3</sup> of inert C&D materials was reused on site, 0 m<sup>3</sup> of inert C&D materials was reused in other projects and 5 m<sup>3</sup> was broken concrete). For C&D wastes, 0 m<sup>3</sup> of general refuse was disposed of at NENT landfill, 6 kg of paper/cardboard packaging, 5 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 5.2Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos.<br/>CB128520-5 and CB128519-0)

Annual EM&A Review Report for November 2017 to October 2018

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	137 m <sup>3</sup>	Tuen Mun 38
Broken concrete	5 m <sup>3</sup>	Tuen Mun 38
C&D wastes disposed as general refuse	0 m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	6 kg	Recycling Facilities
Plastics	5 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	0 m <sup>3</sup>	Site Area
C&D materials reused in other projects	0 m <sup>3</sup>	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 period.
- 6.1.2 No Action Level exceedance of construction noise was recorded in the reporting period. No noise complains related to 0700 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 6.1.3 One (1) Limit Level exceedance was recorded on 9 April 2018 for noise monitoring at M3. The exceedance at M3 is considered to be contributed from background noise, possibly traffic noise from Pak Wo Road and Fanling Highway. The exceedance was considered non-project-related.

# 7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 One (1) noise-related complaint was received on 1 March 2018 and followed up by the Environmental Team. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for March 2018.
- 7.1.2 No notification of summons or successful prosecution was received in the reporting period.
- 7.1.3 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.4 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 REVIEW OF THE VALIDITY OF THE EIA/ERR PREDICTIONS

- 8.1.1 All the air quality monitoring results in the reporting period were below the Action and Limit Levels. The result was in line with the Environmental Impact Assessment (EIA) and Environmental Review Report (ERR) prediction that dust generation would be controlled and would not exceed the acceptable criteria, with proper implementation of the recommended dust mitigation measures.
- 8.1.2 Most of the noise monitoring results in the reporting period were below the Action and Limit Levels. The result was in line with the Environmental Impact Assessment (EIA) and Environmental Review Report (ERR) prediction that with the implementation of noise mitigation measures, the construction noise from the Project works will meet the stipulated criterion at the residential NSRs and at a majority of the education institutions.
- 8.1.3 One (1) Limit Level exceedance was recorded on 9 April 2018 for noise monitoring at M3. The exceedance at M3 is considered to be contributed from background noise, possibly traffic noise from Pak Wo Road and Fanling Highway. The exceedance was considered non-project-related.

# 9 REVIEW OF THE EFFECTIVNESS AND EFFICIENCY OF MITIGATION MEASURES

- 9.1.1 The impact air quality and noise monitoring programme ensured that any environmental impacts to the receivers would be readily detected and timely actions could be taken to rectify any non-compliance. The environmental monitoring results indicated that the construction activities in general were in compliance with the relevant environmental requirements and were environmentally acceptable. The weekly site inspections ensured that all the environmental mitigation measures recommended in the EIA/ERR were effectively implemented. Despite the minor deficiencies found during site audits, the Contractor has taken appropriate actions to rectify deficiencies within a reasonable timeframe. Therefore, the effectiveness and efficiency of the mitigation measures were considered high in most of the time.
- 9.1.2 For all the parameters under monitoring as mentioned in Section 8, the measured levels were in line with the EIA and ERR predictions generally. This indicates that the mitigation measures were effectively and efficiently implemented.

# 10 REVIEW OF SUCCESS OF EM&A PROGRAMME

- 10.1.1 The environmental monitoring methodology was considered well established as the monitoring results were found in line with the EIA predictions.
- 10.1.2 As effective follow-up actions were promptly taken once exceedances were recorded, no further exceedance occurred. The EM&A programme was considered successfully and adequately conducted during the course of the reporting period.

# 11 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

# 11.1 Comments

11.1.1 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

- 11.1.2 The Contractor was advised to provide adequate watering regularly for exposed area and slope as dust suppression.
- 11.1.3 The Contractor was advised to provide sufficient measures to keep the public access road clear of dusty material.
- 11.1.4 The Contractor was advised to remove the mud trails and ensure vehicles are properly wheel washed before leaving the site.
- 11.1.5 The Contractor was advised to provide valid NRMM label for all equipment before operation.
- 11.1.6 The Contractor was advised to cover the exposed stockpile of dusty materials entirely with impervious sheeting.
- 11.1.7 The Contractor was advised to cover the exposed slope properly with impervious sheeting for dust suppression.
- 11.1.8 The Contractor was advised to remove the dusty materials near the vehicle exit point, implement measures to direct surface run-off to sedimentation tank, pave the wheel washing area with hardcore and ensure all vehicles are properly wheel-washed before leaving the site.
- 11.1.9 The Contractor was advised to cover the stockpile of more than 20 bags of cement entirely with impervious sheeting for dust suppression.

### **Construction Noise Impact**

11.1.10 The Contractor was reminded to wrap the breaker tip before operation as a noise mitigation measure.

### Water Quality Impact

- 11.1.11 The Contractor was advised to remove the sandy materials near the drainage entrance and implement measures to prevent surface runoff of site and silt from entering the drainage system.
- 11.1.12 The Contractor was advised to remove the silt and debris in drainage and ensure flow of water without obstruction.
- 11.1.13 The Contractor was advised to implement effective measures to prevent muddy water being flowed outside the site
- 11.1.14 The Contractor was advised to provide proper protection for the drainage system.
- 11.1.15 The Contractor was advised to remove the general refuse and wastes in the drainage and ensure proper protection for drainage system is provided.
- 11.1.16 The Contractor was advised to clean up the public access road near site boundary and implement effective measures to prevent muddy surface runoff being spilled from the site to public area.

- 11.1.17 The Contractor was advised to ensure the channel directing the runoff from the wheel washing facility to sedimentation tank without overflow.
- 11.1.18 The Contractor was reminded to remove the stagnant water and treat the wastewater properly before discharge.
- 11.1.19 The Contractor was advised to provide sandbags along the site boundary to prevent surface runoff leaking outside the site area.

### Chemical and Waste Management

- 11.1.20 The Contractor was advised to keep the site clean and tidy.
- 11.1.21 The Contractor was advised to provide secondary containment for chemical container to prevent potential leakage.
- 11.1.22 The Contractor was advised to provide proper label for all chemicals and store the chemical waste at a proper storage area.
- 11.1.23 The Contractor was advised to plug the opening of the drip tray to prevent potential leakage.

### Landscape and Visual Impact

11.1.24 The Contractor.

### Miscellaneous

11.1.25 Nil.

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

### Air Quality Impact

- 11.1.26 The Contractor should remove the mud trail and ensure vehicles are wheel-washed properly before leaving the site.
- 11.1.27 The Contractor was advised to keep the vehicle exit point clear of dusty materials.
- 11.1.28 The Contractor was advised to provide adequate watering regularly for exposed area for dust suppression.
- 11.1.29 The Contractor was advised to cover the exposed stockpile of dusty materials entirely with impervious sheeting for dust suppression.

### **Construction Noise Impact**

11.1.30 Nil.

### Water Quality Impact

11.1.31 The Contractor was advised to keep the intercepting channel clear of obstacle.

### Chemical and Waste Management

- 11.1.32 The Contractor was advised to provide secondary containment for chemical container to prevent potential leakage.
- 11.1.33 The Contractor was advised to improve the housekeeping condition and keep the site clean and tidy.

# Landscape and Visual Impact

11.1.34 Nil.

#### Miscellaneous

### 11.1.35 Nil.

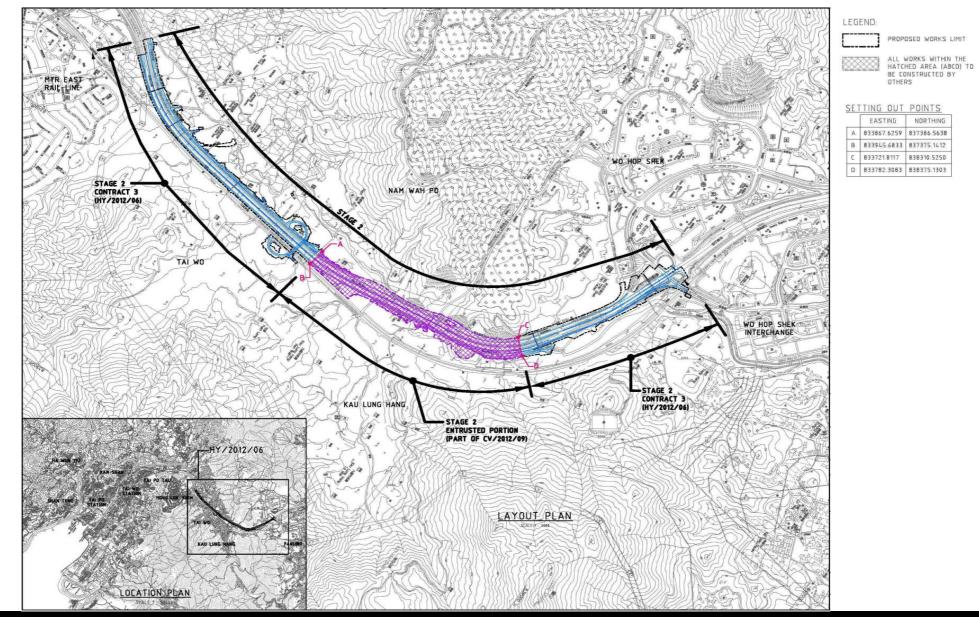
### 11.2 Recommendations

- 11.2.1 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.
- 11.2.2 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.

### 11.3 Conclusions

- 11.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 11.3.2 No Action 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 Environmental Team in the reporting period.
- 11.3.3 One (1) Limit Level exceedance was recorded on 9 April 2018 for noise monitoring at M3. The exceedance at M3 is considered to be contributed from background noise, possibly traffic noise from Pak Wo Road and Fanling Highway. The exceedance was considered non-project-related.
- 11.3.4 One (1) noise-related complaint was received on 1 March 2018 and followed up by the Environmental Team. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for March 2018.
- 11.3.5 No notification of summons and successful prosecution was received in the reporting period.

FIGURES

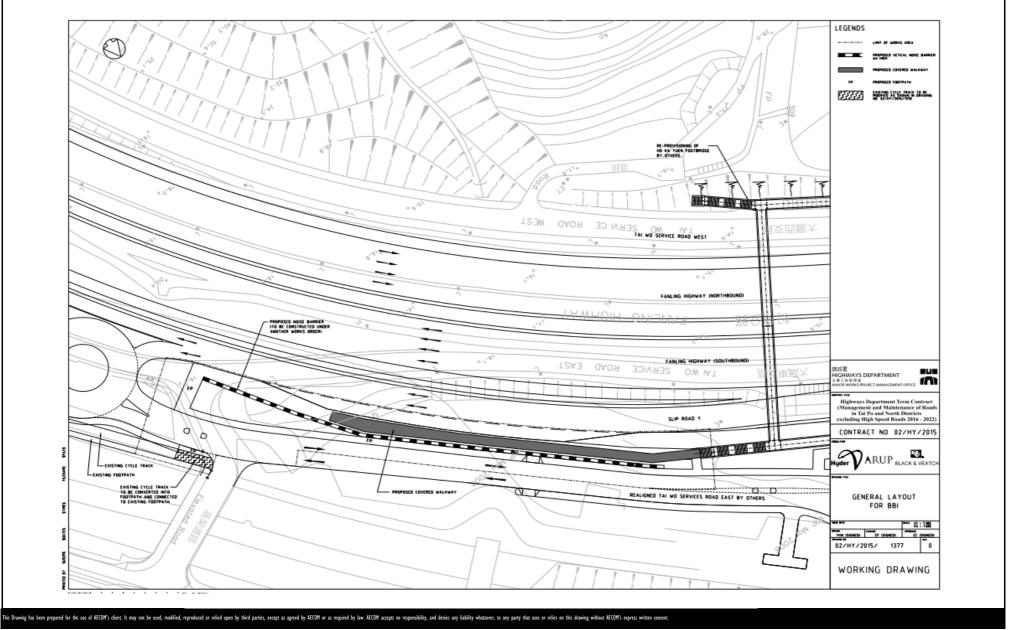


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



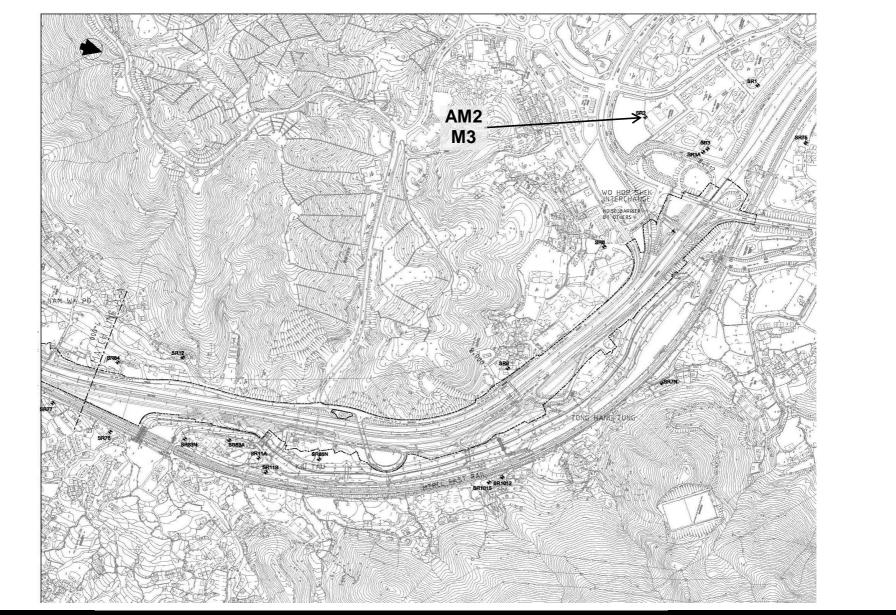
Layout Plan



CONTRACT NO. 02/HY/2015

PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



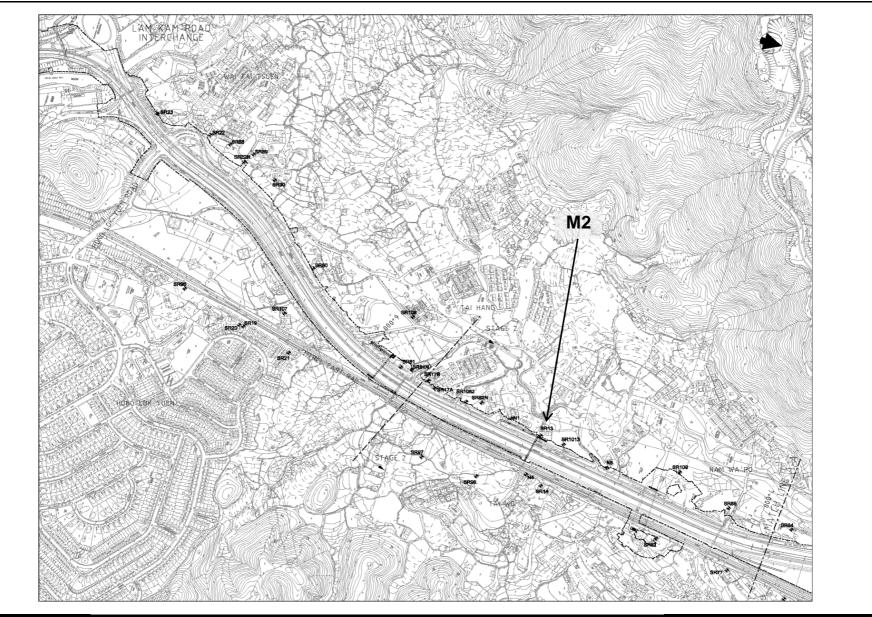


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station



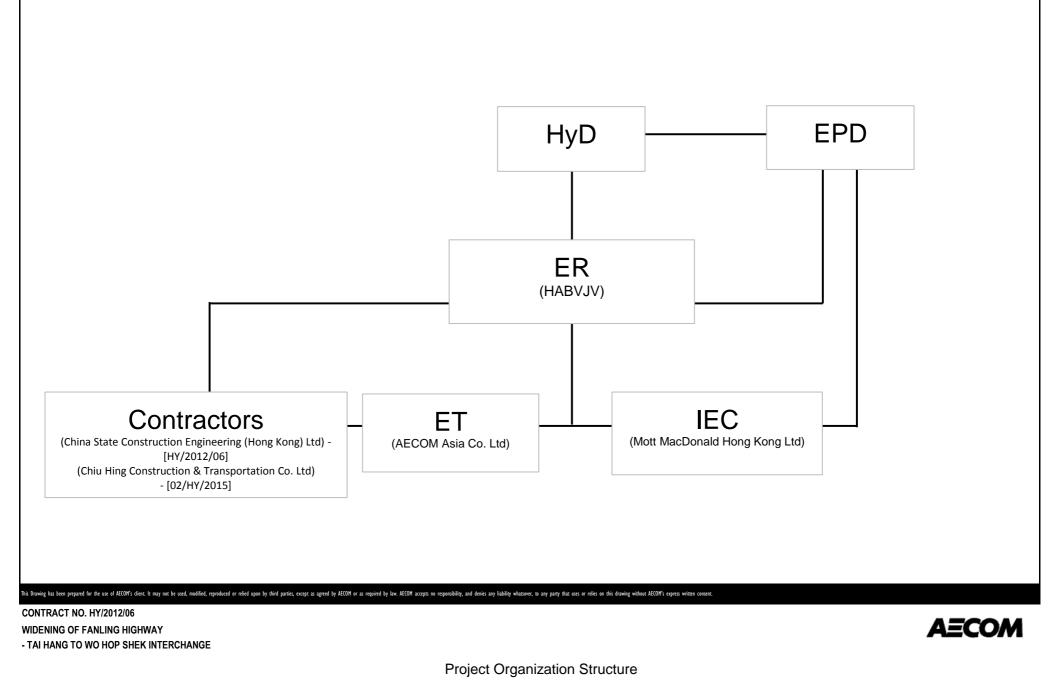
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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

APPENDIX A PROJECT ORGANIZATION STRUCTURE



APPENDIX B CONSTRUCTION PROGRAMMES

tivity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	Total			_								
		Duration					Float		SOT	JF			2015 티시 JJJ		JF	202 		
Contract (	Condition						_											
General																		
Contract C																		
Contract COM.100	Date of Commencement of the Works	0	18-Jul-13 A					♦ D	ate of	Com	mence	ment of the W	orks					
				04.0-7.00		00. 1.1.00	-78	ļ								ļļ		
COM.110	Date of Completion of the Works	0		24-Sep-20		08-Jul-20		ļ								ļļ		
KD01	KD-1(1948d)- Section Subject to Excision comprises all works(excl. landscape Softwork & Establishment Works in Zone 1	0		30-May-19*		30-May-19	0											
KD02	KD-2(1948d)- Comprise all Works (excluding Lanscape works) in Zone 2 excluding SA322A, SA323A ,SA323B & SA324A	0		25-Sep-19*		26-Jun-19	-91	1								[		
KD03a	KD-3a (270d) - Comprises all works in SA322A (Area: Resite Houses)	0		17-Jan-15 A				1		-	1	7-Jan-15 A 🔶	KD-3a (270	d) - Cor	nprise	s all w	orks in	SA322A (A
KD03b	KD-3b (630d) - Section Subject to Excision comprises all Works in	0		26-Aug-14 A				+		26-/	Aug-14	A 🔶 KD-3b (6	30d) - Secti	on Subj	ect to	Excisic	n com	orises all W
KD03c	SA323A & SA323B (New MCLTLocation) KD-3c (165d) - Comprises all works in SA324A	0		29-Dec-13 A				Dec-	13 A	♦ КГ	)-Bc (1)	5d) - Compris	es all works	in SA32	24A			
								[										
KD04	KD-4(1948d) - Comprises the remainder of the Works (All works except Works included in other sections)	0		30-Sep-19*		10-Jun-19	-112		ļ							ļ		
KD05	KD-5 (1978d) - Section Subject to Excision comprise Landscape Softworks in Zone 1	0		10-Jun-19*		10-Jun-19	0											
KD06	KD-6 (1978d) - Comprises Landscapes Softworks in Zone 2 excluding SA322A, SA323A, SA323B & SA324A	0		25-Sep-19*		02-Aug-19	-54	1										
KD07	KD-7 (1978d) - Comprises remainder of Landscaping Softworks	0		09-Jul-19*		09-Jul-19	0	+		-								
KD08	KD-8 (2343d) - Section Subject to Excision comprises Establishment	0		09-Jun-20*		09-Jun-20	0											
KD09	Works in Zone 1 KD-9 (2343d) - Comprises Establishment works in Zone 2 excluding	0		24-Sep-20*		08-Jul-20	-78			-								
	SA322A, SA323A, SA323B & SA324A							<b> </b>								ļļ		
KD10	KD-10 (2343d) - Comprises remainder of Establishment works	0		08-Jul-20*		08-Jul-20	0											
KD11	KD-11(1061d)- S1:Achievement: Kau Lung Hang Veh. Bridge & Enable demolish KiuTai Bridge & Nam Wah Po Footbridge	0		08-Aug-16 A										(	08-Au	g-16 A	♦ KD	-11(1061d)
KD12	KD-12 (1239d) - S2:Achievement Demolition of Nam Wa Po	0		25-Apr-17 A				1								[	25	Apr-17 A
KD13	Footbridge KD-13 (1309d) -S3: Connection of realigned Tai Wo Service Road	0		16-Aug-17 A				+										16-Aug
KD14	West at interface between Zone 2 & 3 KD-14 1523d) - S4:Achievement: Rd widening of Fanling Highway @	0		20-Apr-18 A						-								
	SBZ1 (expt. final pavement and central divider) KD-15 (707d) - N1:Achievement: Demolition of Ho Ka Yuen Footbridge	-								-						Oct	64	KD 45 (7(
KD15				13-Oct-16 A				ļ								1		KD-15 (70
KD16	KD-16 (883d) - N2: Connection of realigned Tai Wo Service Road East at interface between Zone 3 & 4	0		17-Dec-15 A									17-Dec	-15 A 🖣	KD-1	16 (883	3d) - N2	2: Connection
KD17	KD-17 (1097d) -N3: Comission of Slip Road Y (Section bet. Fanling Highway to Mini- roundabout	0		03-Jul-16 A				1						0	3-Jul-'	16A 🖣	KD-1	7 (1097d) -
KD18	KD-18(1380d) -N4:Achieve: Eastern Rd widening works at Fanling	0		15-Mar-18 A				1		-								
KD19	Highway @NBZ2(expt. final pavement and central divider) KD-19 (1734d)- N5: Acheive: Rd widening & reconst. of Fanling	0		24-Nov-18*		08-Jan-19	45	+		-								
KD20	Highway@NBZ2 for commission Link Rd 2 & 4 by CV/2012/09 KD-20 (1064d)- Stage 1: Acheivement: Whole length of Southern	0		03-Jan-17 A												03-	lan-17	A 🔶 KD-2
	Trunk Sewer(STS) at Tai Wo Service Road West			05-5411-17 A				<b> </b>										
POSSA301	Site Area SA301 (0d)	0	12-Dec-13 A							Site	Area	SA301 (0d)						
POSSA302	Site Area SA302 (0d)	0	18-Jul-13 A					♦ S	ite Are	ea SA	302 (0	d)						
POSSA310	Site Area SA 310 (395d)	0	16-Aug-14 A					1				<ul> <li>Site Area</li> </ul>	SA 310 (39	5d)				
POSSA320	Site Area SA320 (0d)	0	25-Aug-14 A					+				♦ Site Area	SA320 (0d					
POSSA320A	Site Area SA320A (120d)	0	23-Apr-14 A					+			♦ Si	te Area SA320	A (120d)					
			· .							-						ļļ		
POSSA320B		0	25-Nov-14 A					ļ					e Area SA32			ļ		
POSSA321	Site Area SA321 (120d)	0	25-Nov-14 A									♦ Sit	e Area SA32	1 (120c	1)			
POSSA322	Site Area SA322 (120d)	0	23-Apr-14 A					1			♦ Si	te Area SA322	(120d)					
POSSA322A	Site Area SA322A (180d)	0	09-Jan-15 A					1		-		•	Site Area SA	322A (*	180d)			
POSSA322B	Site Area SA322B (180d)	0	09-Jan-15 A					+		-		•	Site Area SA	322B (1	180d)			
POSSA323	Site Area SA323 (360d)	0	26-Sep-14 A					+				♦ Site Δr	ea SA323 (3	60d)				
			· .					ļ	.ļ							ļļ		
POSSA323A	Site Area SA323A (360d) (not required)	0	20-Nov-18		08-Jul-20		597											
POSSA323B	Site Area SA323B (360d)	0	26-Aug-14 A									♦ Site Area	a SA323B (3	60d)				
POSSA324	Site Area SA324 (180d)	0	09-Jul-14 A					1		- +		Site Area S	A324 (180d)					
POSSA324A	Site Area SA324A (30d)	0	25-Sep-13 A					+	Site	e Area	a SA32	4A (30d)						
			 						0.1.5		1				<u> </u>	<u> </u>		
Remaining L	Level of Effort Project File:WP Rev 07					Contrac	t No. H	1Y/2	:012	/06								
Actual Leve				Widen	ing of Fanli	ing Highway	- Tai H	lang	g to	Wo	Нор	Shek Inte	erchang	e				
Remaining V	Nork Data Date:20-Nov-18				-				-		•		5					
Milestone						Works Prog	yramm	e -	٧vP	ĸe\	. /							
Crit. Milesto	ne Page 1 of 48																	

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					 , , ,	30	D-N	lay-	19	* 🔶	KD-1(	19480	l)- Se	ction \$	Subje	ct
								2	25-	Sep-	19* 📢	KD-	2(194	8d)- C	ompr	ise
ea:	Resite	Hou	ses)		     											
orks	in SA	323A	& SA	323B	(New	MC	ĹŤ	Loc	cat	ion)						
					, , ,				30	Son	10*	KD-	1/10/	8d) - (	Comp	ric
							10-					(1978				
												KD-	`	· · · · ·		
							d	)9-Ji	ul	19*	♦ KD	7 (19	78d) -	Com	prises	re
										•••••		09-	Jun-2	0* 🔶	KD-8	(2
					     								24	-Sep-	20* 🖣	 ▶ I
												(	8-Jul	-20*	• KD	1(
S1:	Achie	veme	nt: Ka	u Lun	g Han	g \	/eh	. Br	idc	je & I	Enabl	e dem	olish	KiuTai	Bride	je
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d) -	N1:A	chiev	emen	t: Den	olitio	n o	H	o Ka	ιÝ	uen l	ootbr	idge				
n of	realio	gned	fai Wo	Serv	ice Ro	bad	Ē	ast a	it li	nterfa	ice be	tweer	Zone	3&4	ł	
3: (	Comis	sion c	of Slip	Road	Y (Se	cti	on	bet.	Fa	anling	, High	way te	o Mini	- roun	dabo	ut
	15-N	1ar-18	A 🔶	KD-1	8(138	0d	 ) -N	14:A	ch	ieve	Easte	rn Ro	wide	ning v	vorks	at
				24-N	lov-18	*	 	<b>(</b> D-1	19	(173	4d)- N	5:Acł	eive:	Rd w	denin	g
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PRev 07							P rev 7						
ivity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	13		2014 2015	2016		
POSSA325	Site Area SA325 (180d)	0	25-Aug-14 A					JASC		JF A JJASO JF A JJAS N ◆ Site Area SA325 (180d)	<u>JE A JJ</u>		
POSSA326	Site Area SA326 (180d)	0	25-Aug-14 A							◆ Site Area SA326 (180d)			
POSSA327	Site Area SA327 (180d)	0	20-Nov-18*		31-Dec-14		-1419						
POSSA327A	Site Area SA327A (730d)	0	20-Nov-18*		18-Jul-15		-1221						
POSSA328	Site Area SA328 (90d)	0	29-Aug-14 A							◆ Site Area SA328 (90d)			
POSSA329	Site Area SA329 (90d)	0	08-Aug-14 A							◆ Site Area SA329 (90d)			
POSSA340	Site Area SA340 (0d)	0	18-Jul-14 A							♦ Site Area SA340 (0d)			
POSSA340A	Site Area SA340A (0d)	0	29-Oct-13 A					1	♦ Si	te Area SA340A (0d)			
POSSA341	Site Area SA341 (90d)	0	09-Jan-14 A							♦ Site Area SA341 (90d)			
POSSA342	Site Area SA342 (90d)	0	16-Jan-14 A							♦ Site Area SA342 (90d)			
POSSA342A	Site Area SA342A (90d)	0	16-Jan-14 A							♦ Site Area SA342A (90d)			
POSSA343	Site Area SA343 (180d)	0	04-Mar-14 A							◆ Site Area SA343 (180d)			
POSSA343A	Site Area SA343A (180d)	0	04-Mar-14 A							♦ Site Area SA343A (180d)			
POSSA344	Site Area SA344 (240d)	0	15-Jan-14 A							◆ Site Area SA344 (240d)			
POSSA345	Site Area SA345 (0d)	0	20-Nov-18*		30-Nov-15		-1086						
					30-1107-13			Cito	Aroc	I SA345A (0d)			
POSSA345A	Site Area SA345A (0d)	0	18-Jul-13 A										
POSSA346	Site Area SA346 (0d)	0	27-Nov-13 A							Site Area SA346 (0d)			
Z1.1000	Instruction by The Engineer to Commence Work (Section Subject to Excision-424d)(SA310)	0		16-Sep-13 A				A 🔶 I	Instru	iction by The Engineer to Commence Work(\$	ection Subje	ct to Ex	cision-42
<b>Partial Pos</b>	ssession Status												
Contract Co													
POSSA320-10	Condition 00 SA320B/ 321	0	25-Nov-14 A							◆ \$A320B/ 321			
	10 SA320B/ ID-1	0								◆ SA320B/ID-1			
			09-Apr-14 A										
	20 SA320B/322	0	09-Apr-14 A							♦ SA320B/322			
POSSA320-13	30 SA320B/322A	0	14-Jan-14 A							◆ SA320B/322A			
POSSA320-14	40 SA320/ 323	0	26-Sep-14 A							◆ SA320/323			
POSSA320-15	50 SA320/ 324	0	09-Jan-14 A							◆ SA320/324			
POSSA320-16	60 SA320/ ID-2	0	23-Apr-14 A							◆ SA320/ ID-2			
POSSA320-17	70 SA320/ 325	0	23-Apr-14 A							♦ \$A320/ 325			
POSSA320-18	80 SA320/ 326	0	25-Aug-14 A							◆ \$A320/326			
POSSA320-19	90 SA320/ 327	0	18-Dec-13 A						•	SA320/ 327			
	00 SA320/ 328	0	04-Dec-13 A						•	SA320/ 328			
	10 SA320/ South bound	0	18-Jul-13 A					▲ SA3		South bound			
										HKY Bridge TW\$R-W side			
	00 SA340 HKY Bridge TWSR-W side	0	13-Aug-13 A					▼ 3F	4340				
		0	05-May-14 A							Site Area SA340 (0d)(except besides			
POSSA340-11	10 Site Area SA340 (0d)(except besides cycle track)									SA322A/ 322B/Hse 115, 11	/ I II		
POSSA340-11	10 Site Area SA340 (0d)(except besides cycle track)         20 SA322A/ 322B/Hse 115, 117	0	26-Sep-14 A										
POSSA340-11	20 SA322A/ 322B/Hse 115, 117	0	26-Sep-14 A										_
POSSA340-11 POSSA340-12 Site Office General	20 SA322A/ 322B/Hse 115, 117	0	26-Sep-14 A										
POSSA340-11 POSSA340-12 Site Office General Preliminary	20 SA322A/ 322B/Hse 115, 117	0	26-Sep-14A										
POSSA340-11 POSSA340-12 Site Office General Preliminary General	20 SA322A/ 322B/Hse 115, 117	0		28-Dec-13 A									
POSSA340-11 POSSA340-12 Site Office General Preliminary General PR.1030	20 SA322A/ 322B/Hse 115, 117	42	17-Nov-13 A	28-Dec-13A									
POSSA340-11 POSSA340-12 Site Office General Preliminary General	20 SA322A/ 322B/Hse 115, 117			28-Dec-13 A 31-Dec-13 A 31-Jul-13 A									

	Remaining Level of Effort	Project File:WP Rev 07	Contract No. HY/2012/06		
	Actual Level of Effort			100	
	Actual Work	Layout: WP rev 7	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange		
	Remaining Work	Data Date:20-Nov-18			
	Critical Remaining Work	Data Date:20-Nov-18	Works Programme - WP Rev. 7		
•	Milestone	Page 2 of 48			
•	Crit. Milestone	1 490 2 01 40		10000	

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	Date	Revision	Checked	Approved
12.0	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		

PRev 07	Activity Name	Original	Start	Finish	Late Start		/P rev 7							
vity ID	Activity Name	Original Duration		Finish	Late Staft	Late Finish	Total Float	13 ,]] <u>A</u> [S						
PR.1060	Erect Contractor's Office Compound	86	18-Jul-13 A	29-Oct-13 A						<u>, 1 1 1 -</u>				
PR.1070	Provision of Contract Computer Facilities for Engineer	60	30-Oct-13 A	28-Dec-13 A										
ZONE 1 (C	Ch. 5640 to 5880)													
	ier Along TWSR-West and Laying New Utilities	5												
	nce & Demolition of Existing Structure													
General ADVZ10100	Site clearance (Addition Transplant - pending for VO)	171	30-May-14 A	20-Dec-14 A							····	i		
DSD South	ern Trunk Sewer, Water Main, Fire Main Works													
	hern Trunk Sewer, Water Main Fire Main Works													
DSD0090	DSD Truck Sewer Laying complete	0	30-Nov-16 A											♦ DS
DSD0100	DSD Trunk Sewer Laying - overall testing (Zone 1 & Zone 2)	50	20-Oct-16 A	16-Dec-16 A										
DSD0110	DSD Trunk Sewer Laying - overall inspection	18	05-Dec-16 A	24-Dec-16 A										
DSD0120	DSD Trunk Sewer Laying - overall rectification	11	17-Dec-16 A	31-Dec-16 A										
	5640-5740)-TWSR West Side													
Noise Bar NB00020	VO for NB42 additional bay (303) issuance	0	07-Aug-15 A										♦ VO fo	r NB42 additional bay (303)
NB00030	Distric council comment NB42 bay 303 narrow the village access	0	21-Aug-15 A											ic council comment NB42 b
NB00040	NB42 bay 303 design revised (VO43)	26	22-Aug-15 A											
NB00050	TTA approval & process	29	08-Oct-15 A	11-Nov-15 A										
NB00060	Trial pit excavation	12	13-Nov-15 A											
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure - 8 bays	152	13-Feb-15 A											
NB00110	TTA application for road dosure	14	21-Sep-15 A											
		43												
NB00114	NB42 (bay 303) - Footing & Wall Structure - 1 bays - VO		21-Dec-15 A											
NB00115	NB42 (Ch5640-5740) - Backfilling	39	15-Jun-16 A										·····	
NB00120	NB42 (Ch5640-5740) - NB production	205	20-Oct-15 A	11-May-16 A										
NB00130	NB42 (Ch5640-5740) - NB post & panel installation	14	11-May-16 A	27-May-16 A										
DSD Sout TSZ10100	hern Trunk Sewer, Water Main Fire Main Works Sheet Piling & Excavation(~5m below ground) (along NB42)	12	30-Jan-15 A	12-Feb-15 A										
TSZ10110	DSD Trunk Sewer laying (along NB42) (completed by Gammon)	0		30-May-14 A					30-Ma	v-14 A	◆ DSD Trunk	Sewer	laving (along l	NB42) (completed by Gamm
TSZ101120	Backfill up to NB42 footing level (completed by Gammon)	0		30-May-14 A							1 1			(completed by Gammon)
			04 Mar 40 A						JU-IVIC					
TSZ10130	Watermain installation (along NB42)	64	21-Mar-16 A											
TSZ10140	Firemain installation (along NB42)	191	20-Aug-16 A	19-Apr-17 A										
Undergrou UUZ10100	Utility Works Utility cable laying by Utility companies (Along NB42)	76	21-Aug-15 A	20-Nov-15 A										
UUZ20250	Utility cable laying (Along NB42 bay 303 VO)	56	21-Jan-16 A											
	.5750-5810)-TWSR West Side													
	rier Works													
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure - 5 bays	130	13-Apr-15 A	15-Sep-15 A										
NB00195	NB42A (Ch5750-5810) - backfilling	12	15-Mar-16 A	31-Mar-16 A										
NB00200	NB42A (Ch5750-5810) - NB production	76	20-Feb-16 A	05-May-16 A										
NB00210	NB42A (Ch5750-5810) - NB post installation	26	06-May-16 A	06-Jun-16 A										•
	hern Trunk Sewer, Water Main Fire Main Works					I								
TSZ10150	Sheet Piling & Excavation(~5m below ground) (along NB42A)	42	01-Dec-15 A											
TSZ10160	DSD Trunk Sewer laying (along NB42A) (completed by Gammon)	0		30-May-14 A										NB42A) (completed by Gam
TSZ10170	Backfill up to NB42A footing level (completed by Gammon)	0		30-May-14 A					30-Ma	y-14 A	<ul> <li>Backfill up</li> </ul>	to NB42	A footing leve	l (completed by Gammon)

Project File:WP Rev 07 Contract No. HY/2012/06 Remaining Level of Effort Actual Level of Effort Layout: WP rev 7 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange Actual Work Remaining Work Data Date:20-Nov-18 Critical Remaining Work Works Programme - WP Rev. 7 Milestone ٠ Page 3 of 48 🔶 Crit. Milestone

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Date	Revision	Checked	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

PRev 07	Activity Nome		Chart	Finish			P rev 7										
vity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	13		तन	20		201		2016		
TSZ10180	Watermain installation (along NB42A)	51	11-Dec-15 A	20-Feb-16 A				JAS	<u>9</u>	JH	A J						14
TSZ10190	Firemain installation (along NB42A)	121	20-Aug-16 A	14-Jan-17 A													
Undergrou	nd Utility Works																
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	50	21-Aug-15 A	20-Oct-15 A													
NB47B (Ch.	5820-5880)-TWSR West Side																
Noise Barri		10		04.0 45.4													
NB00230	NB47B (Ch5820-5880)- Footing & Wall Structure - 4 bays	46	14-Jul-15 A	04-Sep-15 A													
NB00231	Stop works by Landload nearby	72	21-Aug-15 A	16-Nov-15 A													
NB00233	NB47B (bay 311A)- Footing & Wall Structure - VO	28	17-Nov-15 A	18-Dec-15 A													
NB00235	NB47B (Ch5820-5880)- backfilling	12	07-Jul-16 A	20-Jul-16 A													
NB00240	NB47B (Ch5820-5880) - NB production	166	20-Oct-15 A	02-Apr-16 A													
NB00250	NB47B (Ch5820-5880)- NB post installation	43	20-Aug-16 A	12-Oct-16 A												-	
	ern Trunk Sewer, Water Main Fire Main Works																
TSZ10200	Sheet Piling & Excavation(~5m below ground) (along NB47B)	19	19-Jun-15 A	13-Jul-15 A													
TSZ10210	DSD Trunk Sewer laying (along NB47B) (completed by Gammon)	0		30-May-14 A									k Sewer laying				an)
TSZ10220	Backfill up to NB47B footing level (completed by Gammon)	0		30-May-14 A					30-Ma	ay-14	A 🔶	Backfill up	to NB47B foo	ting level (co	mpleted by	Gammon)	
TSZ10230	Watermain installation (along NB47B)	163	21-Sep-15 A	18-Apr-16 A													
TSZ10240	Firemain installation (along NB47B)	146	13-Nov-15 A	20-May-16 A													
	nd Utility Works																
UUZ10120	Utility cable laying by Utility companies (Along NB47B)	23	17-Sep-15 A	15-Oct-15 A													
UUZ10121	Utility cable laying by Utility companies (along bay 311A)	131	13-Jan-16 A	30-Jun-16 A													
UUZ10130	Z1 Utility work complete is ready for energization	0		30-Jun-16 A										30-Ju	n-16A ♦	Z1 Utility work	¢om
	er Along Fanling Highway N/B																
	ace & Demolition of Existing Structure																_
General ADVZ10120	Site Clearance (for NB Along FH N/B)	27	05-Oct-17 A	07-Nov-17 A													
ADVZ10130	Zone 1 - Noise Barrier at FH N/B complete	0		02-Jan-19		30-May-19	120							····-			
Undergrou	nd Utility Works																
ADVZ10110	Existing Utility cable removed & TTA for NB construction completed	0	04-Oct-17 A														
ADVZ20175	All UU and backfill along TWSR-W complete	0		21-Dec-16 A											21-De	ec-16A ♦ All	ŲU a
ADVZ20180	Utility cable changeover period (NWT)	192	21-Dec-16 A	30-Jun-17 A													
ADVZ20182	Additional Utilitly cable changeover period (PCCW, HCG)	285	20-Dec-16 A	30-Sep-17 A													
NB43B (Ch 4	5640-5880)-FH N/B Side																
Noise Barri																	+
NB01210	NB43B-1 (0-100m) - Sheet piling & Excavation	142	19-Jul-17 A	06-Jan-18 A													
NB01211	CLP 11kV diversion jointing works (by CLP) complete	0		17-May-18 A													
NB01213	Road work & TTA (by CLP)	3	17-May-18 A	19-May-18 A													
NB01215	1200 & 450m watermain work	25	21-May-18 A	20-Jun-18 A										·			+
NB01216	NB43B-0 - Structure works of additional bay between tolo 2 & 3 - VO	66	11-Sep-18 A	29-Nov-18	10-Apr-19	23-Apr-19	115										
NB01217	NB43B-1 - Footing & Wall Structure (bay 1-2)	26	30-Nov-18	02-Jan-19	24-Apr-19	24-May-19	115										
	NB43B-1 - Footing & Wall Structure (bay 3-8)	137	08-Jan-18 A	27-Jun-18 A													
NB01220			00.0+40.4	18-Oct-18 A													
NB01220 NB01225		14	02-Oct-18 A														1
NB01225	NB43B-1 (0-100m) - Drainage Works													}			
NB01225 NB01230	NB43B-1 (0-100m) - Drainage Works NB43B-1 - backfilling	3	18-Oct-18 A	20-Oct-18 A													
NB01225 NB01230 NB01240	NB43B-1 (0-100m) - Drainage Works         NB43B-1 - backfilling         NB43B-1 - NB production	3 45	18-Oct-18 A 02-Jun-18 A	20-Oct-18 A	25 May 10	20 May 10	115										
NB01225 NB01230	NB43B-1 (0-100m) - Drainage Works NB43B-1 - backfilling	3	18-Oct-18 A	20-Oct-18 A	25-May-19	30-May-19	115										
NB01225 NB01230 NB01240 NB01250	NB43B-1 (0-100m) - Drainage Works         NB43B-1 - backfilling         NB43B-1 - NB production         NB43B-1 - NB post & panel installation         vel of Effort         Project File:WP Rev 07	3 45	18-Oct-18 A 02-Jun-18 A	20-Oct-18 A	25-May-19	30-May-19 Contrac		Y/20	012/	06							
NB01225 NB01230 NB01240 NB01250	NB43B-1 (0-100m) - Drainage Works         NB43B-1 - backfilling         NB43B-1 - NB production         NB43B-1 - NB post & panel installation         vel of Effort         Project File:WP Rev 07	3 45	18-Oct-18 A 02-Jun-18 A	20-Oct-18 A 16-Jul-18 A 08-Jan-19			t No. H				Нор	Shek I	Interchan	ge			
NB01225 NB01230 NB01240 NB01250 Remaining Lev Actual Level of	NB43B-1 (0-100m) - Drainage Works         NB43B-1 - backfilling         NB43B-1 - NB production         NB43B-1 - NB post & panel installation         vel of Effort         of Effort         Project File:WP Rev 07         Layout: WP rev 7         ork         Data Date:20-Nov=18	3 45	18-Oct-18 A 02-Jun-18 A	20-Oct-18 A 16-Jul-18 A 08-Jan-19		Contrac	t No. H - Tai H	ang	to V	No I		Shek I	Interchan	ge			

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uty D	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	13	2	201			015	201	
NB01260	NB43B-2 (100-200m) - Sheet piling & Excavation	47	16-Nov-17 A	12-Jan-18 A					<u> </u>						
NB01270	NB43B-2 - Footing & Wall Structure (bay 9-16)	219	13-Jan-18 A	10-Oct-18 A											
NB01275	NB43B-2 (100-200m) - Drainage Works	49	17-Aug-18 A	15-Oct-18 A				·							
NB01280	NB43B-2 - backfilling	10	09-Oct-18 A	20-Oct-18 A											
NB01290	NB43B-2 - NB production	88	08-Jun-18 A	03-Sep-18 A											
NB01300	NB43B-2 - NB post & panel installation	18	05-Nov-18 A	24-Nov-18	25-May-19	30-May-19	150	·							
NB01310	NB43B-3 (200-260m) - Sheet piling & Excavation	122	03-Jul-17 A	24-Nov-17 A	20 May 10		100								
NB01320	NB43B-3 - Footing & Wall Structure (bay 17-22)	103	25-Nov-17 A	05-Apr-18 A											
NB01325	NB43B-3 (200-260m) - Drainage Works	35	07-Aug-18 A	15-Sep-18 A											
NB01330	NB43B-3 - backfilling	5	15-Sep-18 A	20-Sep-18 A											
NB01340	NB43B-3 - NB production	77	20-Jun-18 A	04-Sep-18 A											
NB01350	NB43B-3 - NB post & panel installation	16	07-Nov-18 A	24-Nov-18	25-May-19	30-May-19	150								
NB03295	Z1 FHN/B NB backfilling completed	0		20-Oct-18 A											
	st Construction														
Drainage & Ch 5640-5	Road Works														
RDZ10090	Z1: New Tai Wo Service Road West - Drainage & Road works (2	221	15-Aug-16 A	20-May-17 A											
RDZ10100	lanes) Z1: New Tai Wo Service Road West - Drainage & Road works near	191	07-Aug-18 A	26-Mar-19	22-Jan-19	30-May-19	51	·							
Noise Bar	N/B noise barrier														
	5700-5760)-FH S/B Side														
Noise Bar	rier Works														
NB01360	NB44 - Sheet piling & Excavation (4 bays)	13	11-Apr-15 A	25-Apr-15 A											
NB01370	NB44 - Footing & Wall Structure (4 bays)	11	26-Apr-15 A	10-May-15 A											
NB01380	NB44 - backfilling	30	11-May-15 A	15-Jun-15 A											
NB01385	NB44 - Excavation & Footing & Wall Structure (1 bays)	64	07-Oct-15 A	21-Dec-15 A									-		
NB01390	NB44 - NB production	117	03-Aug-15 A	27-Nov-15 A											
NB01400	NB44 - NB post & panel installation	12	01-Apr-16 A	15-Apr-16 A										•	
NB45 (Ch.5	5760-5820)-FH S/B Side														
Noise Bar NB01410	NB45 - Sheet piling & Excavation	13	11-Apr-15 A	25-Apr-15 A											
NB01410	NB45 - Footing & Wall Structure		25-Apr-15 A	20-May-15 A								-			
		21													
NB01430	NB45 - backfilling	25	21-May-15 A										<u></u>		
NB01435	NB45 - Excavation & Footing & Wall Structure (2 bays)	89	01-Sep-15 A	16-Dec-15 A										<b>.</b>	
NB01440	NB45 - NB production	97	03-Aug-15 A	07-Nov-15 A											
NB01450	NB45 - NB post & panel installation	9	15-Apr-16 A	25-Apr-16 A											
	5820-5880)-FH S/B Side														
Noise Bar NB01460	NB46 - Sheet piling & Excavation	18	18-Nov-14 A	08-Dec-14 A											
NB01470	NB46 - Footing & Wall Structure	41	02-Jan-15 A	20-Feb-15 A				·							
NB01480	NB46 - backfilling	50	10-Mar-15 A	11-May-15 A											
NB01490	NB46 - NB production	59	04-Jan-16 A	02-Mar-16 A											
NB01490	NB46 - NB post & panel installation	7	21-Apr-16 A	28-Apr-16 A											
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	ghway Construction Road Works														
Ch 5640-5															
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Critical Rem	aining Work Data Date.20-NOV-10					Works Prog	Irammo	e - W	/P R	ev. 7					

Page 5 of 48

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07-Nov-16	WP Rev 4		
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tivity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	Total									
		Duration					Float		JEIA	2014 JJASO	JIE	2015		2016		20
RDZ11010	Z1 (Ch5640-5880): Fanling Highway N/B - D&R works (lane 1)(Modify	28	02-Oct-18 A	04-Nov-18 A												
RDZ11020	to final road level) Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane	24	05-Nov-18 A	01-Dec-18	20-Nov-18	01-Dec-18	0									
RDZ11030	2)(Modify to final road level) Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 3)	16	03-Dec-18	20-Dec-18	03-Dec-18	20-Dec-18	0									
RDZ11040	Z1 (Ch5640-5880) : Fanling Highway N/B - D&R works (lane 4)	16	21-Dec-18	11-Jan-19	21-Dec-18	11-Jan-19	0									
RDZ11050	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 4)	60	12-Jan-19	25-Mar-19	12-Jan-19	25-Mar-19	0									
RDZ11060	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 3)	16	26-Mar-19	13-Apr-19	26-Mar-19	13-Apr-19	0									
RDZ11070	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 2)	16	15-Apr-19	07-May-19	15-Apr-19	07-May-19	0									
RDZ11080	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 2) Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 1)	20	08-May-19	30-May-19	08-May-19	30-May-19	0									
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RDZ11090	Z1 (Ch5640-5880) : Fanling Highway Road works (8 lanes) complete	0		30-May-19		30-May-19	0									
Other Work																
Landscape S											-					
Z1.LW.1000	Landscape soft work Zone1	150	05-Dec-18	10-Jun-19	05-Dec-18	10-Jun-19	0									
Establishme	nt Works															
Establishm		0.05	44 1 40		44 4 40											
Z1.EW.1000	Establishment work Zone1	365	11-Jun-19	09-Jun-20	11-Jun-19	09-Jun-20	0									
	h. 5880 to 6930)												1			
General											_					
DRM Propos DRM Propos											_					
ADVZ20190	Utility cable duct laying & backfill complete	0		17-Dec-16 A										17-Dec-1	6A 🔶 Uti	lity ca
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	346	20-Oct-16 A	30-Sep-17 A												
ADVZ20201	Latest Date of Existing Utility cable disconnected & ready to be	0		04-Oct-17 A											(	)4-Oc
ADVZ20220	removed New TWSR-W construction period	221	15-Aug-16 A	20-May-17 A												
ADVZ20225	Divert Existing TWSR-W to New TWSR-W	5	20-May-17 A	25-May-17 A												
ADVZ20230	Construct Temp Road at NB at North bound (0.5 HS+Lane 1 & 2)	126	08-Apr-17 A	09-Sep-17 A												
ADVZ20240	Remove Existing Central Barrier at FLHY & Temp Road	25	25-Sep-17 A	25-Oct-17 A												
ADVZ20250	FLHY N/B Lane 4 ready to Start	0	25-Sep-17 A	20 000 11 11												
	,															
ADVZ20260	FLHY S/B Lane 4 ready to Start	0	25-Oct-17 A													
ADVZ20281	TTA stage 1 - Zone 1	0	20-Nov-17 A													
ADVZ20282	TTA stage 2 - Zone 2b (from TW bridge to zone 3)	0	15-Jan-18 A													
ADVZ20284	Demolish existing TW bridge & TH bridge	28	27-Feb-18 A	03-Apr-18 A												
ADVZ20285	Road work for Lane 2,3,4 from TH to TW bridge	19	06-Apr-18 A	27-Apr-18 A												
ADVZ20286	Road work for TWSR-W to FLHY transition	1	28-Apr-18 A	28-Apr-18 A												
ADVZ20288	TTA stage 3 - All N/B NB working space available	0	30-Apr-18 A													
ADVZ20290	NB at FLHY N/B construction Period (Zone 2)	460	20-Nov-17 A	11-Jun-19	20-Nov-17	07-Mar-19	-76									
ADVZ20300	TWSR-W lane 2 construction	63	12-Jun-19	24-Aug-19	08-Mar-19	25-May-19	-76		+							
ADVZ20305	FLHY HS & lane 1 construction	26	26-Aug-19	25-Sep-19	27-May-19	26-Jun-19	-76		+							
ADVZ20310	NB at FLHY N/B construction Period (Zone 1)	368	05-Oct-17 A	02-Jan-19	06-Oct-17	30-May-19	120		+			-+				
Noico Par-	er Along TWSR-West and Laying New Utilities															
	ice & Demolition of Existing Structure															
Demolition	Work															
Z2.P2N.1240	Liaison with relevant parties for re-provision of SHRINE	40	12-Nov-13 A	30-Dec-13 A												
Z2.P2N.1242	Pending for design brief from Villager/ Engineer	158	01-Jan-14 A	23-Jul-14 A												
Z2.P2N.1245	Method statement submission/ approval	132	24-Jul-14 A	30-Dec-14 A					[						]	
Remaining Lev	vel of Effort Project File:WP Rev 07	1		J	1	Contrac	t No L	Y/2012	/06	. i		1 i	1			
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ctivity ID	Activity Name		Original Duration	Start	Finish	Late Start	Late Finish	Total Float 13		2014	20	)15	2016	2017		2018		2019		2020
Z2.P2N.1250	Construction of proposed S		27	01-Aug-16 A	21 Aug 16 A									JE A JJAST						
Z2.P2N.1260		RINE	3	28-Aug-14 A	30-Aug-14 A													ļļ		
Z2.P2N.1270			27	26-Aug-14 A	26-Sep-14 A															
Z2.P2N.1290	Demolition of Man Ching L	Lung Tong	7	29-Jan-15 A	05-Feb-15 A						1									
Z2.P2N.1300	Condition survey		13	26-Aug-14 A	10-Sep-14 A					•										
Z2.P2N.1310	Existing trees felling		52	21-Jul-14 A	19-Sep-14 A															
Z2.P2N.1320	Demolition of villiage hous	ses	26	20-Oct-14 A	18-Nov-14 A					•						L				
NB47 (Ch.5	880-5930)-TWSR We	est Side																		
Noise Bar		oting & Wall Structure - 5 bays	202	11 Mor 15 A	21 Mar 16 A															
NB00270			302	11-Mar-15 A	21-Mar-16 A															
NB00275	NB47 (Ch5880-5930)- bac		12	01-Jun-16 A	15-Jun-16 A															
NB00280	NB47 (Ch5880-5930)- NB	•	77	19-Mar-16 A	03-Jun-16 A															
NB00290	NB47 (Ch5880-5930)- NB	post installation	16	20-Sep-16 A	08-Oct-16 A															
		later Main Fire Main Works																4		
TSZ10250	-	(~6m below ground) (along NB47)	17	11-Feb-15 A	10-Mar-15 A															
TSZ10260	DSD Trunk Sewer laying (a		138	17-Aug-15 A	30-Jan-16 A															
TSZ10270	Backfill up to NB47 footing	level	6	01-Feb-16 A	06-Feb-16 A															
TSZ10280	Watermain installation (alc	ong NB47)	72	20-Feb-16 A	20-May-16 A															
TSZ10290	Firemain installation (along	g NB47)	14	15-Jul-16 A	30-Jul-16 A				[											
	und Utility Works																			
UUZ20100	Utility cable laying by Utilit	y companies (Along NB47)	44	21-Apr-15 A	12-Jun-15 A															
	.5950-5975)-TWSR W	Vest Side																		
Noise Barı NB00295	NB47A - ID1-1 Pre-drilling		11	07-Nov-13 A	19-Nov-13 A				•											
NB00300	NB47A - ID1-1 piling (0.19		0	13-Mar-15 A	13-Mar-15 A															
NB00320	NB47A - ID1-1 Footing & V		40	14-Mar-15 A	04-May-15 A															
NB00330	NB47A - backfilling		240		07-Jul-16 A															
	_																			
NB00335	Backfilling (Along NB47A-	above (101)	217	06-Oct-15 A	07-Jul-16 A															
NB00340	NB47A - NB production		228	20-Oct-15 A	03-Jun-16 A															
NB00350	NB47A - NB post installation	on	23	20-Aug-16 A	15-Sep-16 A															
DSD South TSZ10350		Ater Main Fire Main Works	70	05 May 45 A	00 Aug 45 A															
	-	(~5m below ground) (along NB47A)	78	05-May-15 A																
TSZ10380	Watermain installation (Al		56		30-Oct-15 A															
TSZ10560	Watermain & Firemain inst		94	25-Aug-15 A	15-Dec-15 A															
DSD South TSZ11080		Trenchless Construction along NB47A - ID1-1)-Trenchless	28	20-Oct-14 A	20-Nov-14 A															
			20	20-000147	20-1101-14						-									
Undergrou UUZ20110	und Utility Works	y companies (Along NB47A)	199	13-Jan-16 A	20-Sep-16 A															
UUZ20240	-	y companies (Along NB47A-above ID1)	199		20-Sep-16 A															
	-		100		20 000 10/1															
NB48 (Ch.5 Noise Bari	995-6120)-TWSR We rier Works																			
NB00355	NB48 (NB48/1-5)- Pre-dril	lling	31	07-May-14 A	12-Jun-14 A							·								
NB00360	NB48 (NB48/1-5 up to THF	FB) piling (0.19m -52no)	91	14-Jun-14 A	30-Sep-14 A															
NB00380	NB48 (Ch5995-6060) - Fo	oting & Wall Structure - 4 bays	150	18-Apr-15 A	16-Oct-15 A							<u></u>								
NB00390	NB48 (Ch5995-6060) - ba	ckfilling	113	05-Oct-16 A	25-Feb-17 A															
				1																
Remaining Le		Project File:WP Rev 07					Contract	No. HY/	2012	2/06					Da 07-No		evision ( P Rev 4	necked	Approv	red
Actual Work		Layout: WP rev 7			Widen	ing of Fanli	ng Highway	- Tai Han	ng to	Wo Hop Shek	Interchar	nge			17-Au	g-17 WI	P Rev 5			
Remaining W Critical Rema		Data Date:20-Nov-18					Works Prog	ramme -	WP	Rev 7					29-Ma 03-De	r-18 WI c-18 WI	P Rev 6			
Milestone	-	Page 7 of 48					HUINS PIUY		**1						US-De	0-10 JVI	1/64 /	I		
Crit. Mileston	ne			1																

P Rev 07					WP r								Page 8	8 of 48 (3-Dec
tivity ID	Activity Name	Original Sta	ant	Finish La	Ite Start Late Finish	Float 13						2018 SIN JIF A JIJ/		
NB00400	NB48 (Ch5995-6060) - NB production	55 13·	3-Aug-15 A 0	06-Oct-15 A			<u>יין ויין</u>							<u> 11 14 1919</u>
NB00410	NB48 (Ch5995-6060) - NB post & panel installation	56 17-	7-Oct-15 A 2	22-Dec-15 A									 	
NB00415	NB48 (NB48/5-10) Pre-drilling	40 18-	B-Dec-14 A 0	05-Feb-15 A					<b></b>					
NB00420	NB48 (NB48/5-10) piling (0.19m -30no) - rigs 4	51 25	5-Feb-15 A 3	30-Apr-15 A									 	
NB00440	NB48 (Ch6060-6120) - Footing & Wall Structure - 5 bays	67 01·	-Sep-15 A 2	20-Nov-15 A						· · · · · · · · · · · · · · · · · · ·				
NB00450	NB48 (Ch6060-6120) - backfilling	12 20-	)-Sep-16A 0	04-Oct-16 A									 	
NB00460	NB48 (Ch6060-6120) - NB production	76 20-	)-Mar-16 A 0	03-Jun-16 A				 					 	
NB00470	NB48 (Ch6060-6120) - NB post & panel installation	5 15	5-Jun-16 A 2	20-Jun-16 A						•••••••			 	
DSD Sout	hern Trunk Sewer, Water Main Fire Main Works													
TSZ10400	Sheet Piling & Excavation(~5m below ground) (along NB48, 0-60m)	92 02-	2-May-15 A 2	20-Aug-15 A										
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	46 28	3-Aug-15 A 2	23-Oct-15 A										
TSZ10420	Backfill up to NB48, 0-60m footing level	85 24	-Oct-15 A 0	03-Feb-16 A					•				 	
TSZ10430	Watermain installation (along NB48, 0-60m)	58 21	-Mar-16 A 0	02-Jun-16 A									 	
TSZ10440	Firemain installation (along NB48, 0-60m)	252 20-	)-Jun-16 A 2	29-Apr-17 A									 	
TSZ10450	Sheet Piling & Excavation(~5m below ground) (along NB48, 60-110m)	72 05-	5-Aug-15 A 3	30-Oct-15 A									 	
TSZ10460	DSD Trunk Sewer laying (along NB48, 60-110m)	125 31-	-Oct-15 A 1	11-Apr-16 A									 	
TSZ10470	Backfill up to NB48, 60-110m footing level	6 12·	2-Apr-16 A 1	18-Apr-16 A									 	
TSZ10480	Watermain installation (along NB48, 60-110m)	39 19·	)-Apr-16 A 0	04-Jun-16 A									 	
TSZ10490	Firemain installation (along NB48, 60-110m)	221 20-	)-Jun-16 A 2	20-Mar-17 A									 	
Undergrou	und Utility Works													
UUZ20120	Utility cable laying by Utility companies (Along NB48, 0-60m)	201 21	-Jan-16 A 3	30-Sep-16 A									 	
UUZ20130	Utility cable laying by Utility companies (Along NB48, 60-110m)	136 05-	5-Feb-16 A 3	30-Jul-16 A									 	
NB49 (Ch.6	6145-6215)-TWSR West Side													
	rier Works	70 00											 	
NB00485	NB49 - Pre-drilling		3-Nov-14 A 0										 	
NB00490	NB49 piling (0.19m -42no) - rigs 1&2		2-Jan-15 A 1	13-Mar-15 A					<b>—</b>				 	
NB00491	VO47 issuance		I-Nov-15 A					· · · · · · · · · · · · · · · · · · ·		VO47 issuance				
NB00493	Procurement couplier			05-Dec-15 A										
NB00507	Villager Noise Compliant induce stop work	0 10	)-Jul-15 A						♦ Village	er Noise Compliant ind	uce stop work			
NB00508	VO for using silent piler & slient piler mobilisation	58 16	S-Jul-15 A 2	21-Sep-15 A										
NB00509	NB49 - Footing & Wall Structure - bays 5	75 21	-Sep-15 A 1	19-Dec-15 A										
NB00510	NB49 - Footing & Wall Structure - 4 bays	67 11-	-Nov-15 A 3	30-Jan-16 A					I					
NB00513	NB49 bays 1-4 was disrupt & stopped by Villager	40 22-	2-Sep-15 A 1	10-Nov-15 A					-					
NB00520	NB49 - backfilling	27 30-	)-May-16 A 3	30-Jun-16 A				4						
NB00530	NB49 - NB production	27 20-	)-May-16 A 1	15-Jun-16 A						•			 	
NB00540	NB49 - NB post installation	3 06-	G-Oct-16 A 0	08-Oct-16 A										
DSD Sout	hern Trunk Sewer, Water Main Fire Main Works													
TSZ10500	Sheet Piling & Excavation(~7m below ground) (along NB49)	48 01-	-Feb-16A 0											
TSZ10510	DSD Trunk Sewer laying (along NB49)	67 11-	-Apr-16 A 3	30-Jun-16 A										
TSZ10520	Backfill up to NB49 footing level	3 01-	-Feb-16 A 0	03-Feb-16 A						1				
TSZ10530	Watermain installation (along NB49)	152 01	-Jun-16 A 3	30-Nov-16 A										
TSZ10540	Firemain installation (along NB49)	72 15-	5-Sep-16 A 1	10-Dec-16 A									 	
Undergrou	und Utility Works													

Remaining Level of Effort ~ Actual Level of Effort Actual Work Remaining Work Critical Remaining Work Milestone ٠ 🔶 Crit. Milestone ٠

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 8 of 48

Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Works Programme - WP Rev. 7



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Date	Revision	Checked	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

/ ID	Activity Name	Original	Start	Finish	Late Start Late Finish	Total						 			
		Duration				Float		<u>11</u>	2014 직 [J]J[직동]기 [	JF	20  A   J	N JF	20  A  J	16 JASO	JF 14
UUZ20140	Utility cable laying by Utility companies (Along NB49, 0-70m)	252	03-Feb-16 A	14-Dec-16 A											1
	6215-6235)-TWSR West Side						_					 _			+
Noise Barri NB00536	Re-provision of Hse161 Gate complete	51	20-Aug-15 A	20-Oct-15 A			 					 			
NB00538	Pending for U-channel Design & VO	62	30-Sep-15 A	12-Dec-15 A			 					 			
NB00542	Pending for Perminent Road Works Design & VO	62	30-Sep-15 A	12-Dec-15 A			 					 			
NB00544	Construction of U-channel & perminent road for Hse 161 new access	13	14-Dec-15 A	30-Dec-15 A			 					 			
NB00545	NB49B - Pre-drilling (Deleted notified in July-14, VO issued	0	08-Jul-14 A	08-Jul-14 A			 					 			
NB00547	accordingly) Hoarding erection to change Hse 161 access	6	31-Dec-15 A	07-Jan-16 A			 					 ····			
NB00549	NB49B - Pre-drilling	13	05-Dec-15 A	19-Dec-15 A			 					 ••••			
NB00550	NB49B piling (0.19m -20no	31	28-Jan-16 A	12-Mar-16 A			 					 	•		
NB00560	NB49B- Sheet piling & Excavation	15	11-Jan-16 A	27-Jan-16 A			 					 			
NB00570	NB49B - Footing & Wall Structure - 2 bays	41	14-Mar-16 A	05-May-16 A			 					 			
NB00572	VO - revised NB49B wall height	0	12-Apr-16 A				 					 	♦ VO	- revised	NB49B M
NB00574	Pending for revised RC detail design	13	13-Apr-16 A	27-Apr-16 A			 					 			
NB00580	NB49B - backfilling	33	06-May-16 A	15-Jun-16 A			 					 			
NB00590	NB49B - NB production	32	25-Jul-16 A	25-Aug-16 A			 					 			
		7		02-Sep-16 A			 					 			
NB00600	NB49B - NB post installation	1	26-Aug-16 A	02-Sep-16 A								 			
DSD South TSZ10550	ern Trunk Sewer, Water Main Fire Main Works Sheet Piling & Excavation(~5m below ground) (along NB49B)	21	06-May-16 A	31-May-16 A			 					 			
TSZ10570	DSD Trunk Sewer laying (along NB49B - ID2-1)	17	19-Sep-16 A	08-Oct-16 A			 					 			
TSZ10580	Watermain installation (along NB49B)	29	12-Oct-16 A	14-Nov-16 A			 					 			
TSZ10590	Firemain installation (along NB49B)	18	21-Nov-16 A	10-Dec-16 A			 					 			
				10 200 10/1			 					 			
TSZ11040	ern Trunk Sewer - Trenchless Construction DSD Trunk Sewer laying (along - ID2-1)-Trenchless	34	20-Oct-14 A	27-Nov-14 A			 					 			
Undergrou	nd Utility Works														
UUZ20150	Utility cable laying by Utility companies (Along NB49B, 0-16m)	157	10-Jun-16 A	14-Dec-16 A			 					 			•
	240-6280)-TWSR West Side														
Noise Barri NB00605	er Works NB54 - ID2-1 Pre-drilling (Deleted notified on14-5-14, VO issued	0	20-Sep-14 A	20-Sep-14 A			 					 			
	accordingly)		· ·	· · · · · · · · · · · · · · · · · · ·			 					 			
NB00610	NB54 - ID2-1 piling (0.19m -18no)- (Deleted notified on14-5-14, VO issued accordingly)	0	31-Mar-15 A	31-Mar-15 A			 			<u> </u>		 			
NB00665	NB54 -Pre-drilling	91	15-Nov-14 A	12-Mar-15 A			 					 			
NB00670	NB54 piling (0.19m -16no) - rigs 1&2	70	16-Mar-15 A	10-Jun-15 A			 					 <u></u>			
NB00690	NB54 - Footing & Wall Structure - 2 bays	107	09-Sep-15 A	18-Jan-16 A			 					 			
NB00700	NB54 - backfilling	4	11-Feb-16 A	20-Feb-16 A			 					 			
NB00710	NB54 - NB production	167	20-Jan-16 A	04-Jul-16 A			 					 			
NB00720	NB54 - NB post & panel installation	5	02-May-17 A	08-May-17 A											
DSD South TSZ10600	ern Trunk Sewer, Water Main Fire Main Works Sheet Piling & Excavation(~5m below ground) (along NB54)	72	20-Aug-15 A	14-Nov-15 A			 					 			
TSZ10600	DSD Trunk Sewer laying (along NB54 excep ID2-1 section)	25	20-Aug-15 A 16-Nov-15 A	14-Nov-15 A			 					 •			
		20					 					 			
TSZ10620	Backfill up to NB54 footing level	045	15-Dec-15 A	21-Dec-15 A			 					 •			
TSZ10630	Watermain installation (along NB54)	215	20-May-16 A	11-Feb-17 A			 					 			
TSZ10640	Firemain installation (along NB54)	44	19-Dec-16 A	18-Feb-17 A											
	ern Trunk Sewer - Trenchless Construction						 				1				

Remaining Level of Effort
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Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 9 of 48 Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Works Programme - WP Rev. 7



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Page 9 of 48 (3-Dec-18)

Date	Revision	Checked	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

VP Rev 07						W	P rev 7										Page 10 of	48 (3-De
ctivity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	13		2014	2015	5	2016	2017	2018	201	)	2020
TSZ11000	DSD Trunk Sewer laying (along NB54 - ID2-1)-Trench	lless 34	20-Oct-14 A	27-Nov-14 A					JE		JF A JJ							
UUZ20160	Utility Works Utility cable laying by Utility companies (Along NB54,	0-40m) 216	21-Jan-16 A	20-Oct-16 A									·····					
NB54A (Ch	1.6290-6350)-TWSR West Side																	
	rier Works																	
NB00730	NB54A -Pre-drilling	288	26-Feb-14 A	12-Feb-15 A														
NB00740	NB54A piling (0.19m -44no) - rigs 1&2	325	05-May-14 A	11-Jun-15 A														
NB00750	NB54A pile testing	24	12-Jun-15 A	11-Jul-15 A														
NB00760	NB54A - Footing & Wall Structure - 6 bays	224	01-Aug-15 A	10-May-16 A														
NB00770	NB54A - backfilling	12	20-Dec-16 A	05-Jan-17 A										•				
NB00780	NB54A - NB production	42	20-May-16 A	30-Jun-16 A														
NB00790	NB54A - NB post & panel installation	62	15-Jan-18 A	03-Apr-18 A														
DSD Sout	hern Trunk Sewer, Water Main Fire Mai	n Works																
TSZ10650	Sheet Piling & Excavation(~5m below ground) (along		13-Jul-15 A	25-Nov-15 A														
TSZ10660	DSD Trunk Sewer laying (along NB54A)	108	26-Nov-15 A	16-Apr-16 A														
TSZ10670	Backfill up to NB54A footing level	4	16-Apr-16 A	20-Apr-16 A									1					
TSZ10680	Watermain installation (along NB54A)	330	14-Mar-16 A	02-May-17 A														
TSZ10690	Firemain installation (along NB54A)	103	19-Dec-16 A	05-May-17 A														
	und Utility Works																	
UUZ20170	Utility cable laying by Utility companies (Along NB54A	A, 0-60m) 138	05-Jul-16 A	15-Dec-16 A							-			·				
NB57 (Ch.6	6365-6445)-TWSR West Side																	
	rier Works																	
NB00800	NB57 -Pre-drilling	46	19-Jun-14 A	12-Aug-14 A														
NB00805	Pending for design information (RFI/00088)	69	17-Jul-14 A	08-Oct-14 A														
NB00810	NB57 piling (0.19m 50no) - rigs 1 & 2	37	09-Oct-14 A	20-Nov-14 A														
NB00830	NB57 - Footing & Wall Structure - 7 bays	386	15-Dec-14 A	18-Apr-16 A														
NB00840	NB57 - backfilling	13	19-Apr-16 A	04-May-16 A							-							
NB00850	NB57 - NB production	47	20-May-16 A	05-Jul-16 A														
NB00860	NB57 - NB post & panel installation	48	20-Sep-16 A	16-Nov-16 A														
DSD Sout	hern Trunk Sewer, Water Main Fire Mai	n Works																
TSZ10700	Sheet Piling & Excavation(~5m below ground) (along		15-Dec-14 A	23-Jan-15 A														
TSZ10710	DSD Trunk Sewer laying (along NB57)	44	15-Dec-15 A	06-Feb-16 A									·					
TSZ10720	Backfill up to NB57 footing level	6	17-Feb-16 A	23-Feb-16 A														
TSZ10730	Watermain installation (along NB57)	65	12-Dec-16 A	08-Mar-17 A														
TSZ10740	Firemain installation (along NB57)	20	21-Feb-17 A	15-Mar-17 A														
TSZ10770	Pending design for existing wash-out chamber divers	ion at SA325 76	10-Feb-15 A	21-May-15 A														
TSZ10774	crash with Truck Sewer Laying Completion NB57 Bay 1 & 2 and preparation works	110	02-May-15 A															
TSZ10785	PCCW drawpit by Pccw	104	29-Jan-16 A	15-Jun-16 A														
TSZ10990	Backfilling for UU and Firemain & Watermain	3	16-Mar-17 A	19-Mar-17 A									·····					
		3	10-IVIAI-17 A	19-Wal-17 A														
Undergrou	Utility Works Utility cable laying by Utility companies (Along NB57,	0-80m) 193	26-Feb-16 A	20-Oct-16 A														
	6445-6480)-TWSR West Side	- ,																
	rier Works																	
NB00870	NB58 -Pre-drilling (2nos after remove Hse 103 wall)	73	30-Jul-14 A	25-Oct-14 A														
NB00875	Pending for RSS revised detail of NB58 - piling	84	03-Sep-14 A	12-Dec-14 A														
	Level of Effort Project File:WP Rev 07			[		Cantas -	4 N - 1								Date	Revision Checke		proved
	el of Effort					Contrac									07-Nov-16	WP Rev 4		10100
Actual Work	Work			Widen	ing of Fanli	ing Highway	- Tai H	ang to	Wo H	op Shek I	nterchang	je			17-Aug-17			
Critical Rem	haining Work Data Date:20-Nov-18					Works Prod	Iramm	e - WP F	Rev. 7	7				and the set	29-Mar-18 03-Dec-18			
Milestone	Page 10 of 48		Works Programme - WP Rev. 7														1	

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Page 10 of 48

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WP Rev 07							WP	rev 7												
Activity ID	Activity Name		Original Duration	Start	Finish	Late Start	Late Finish	Total Float	13			2014		2015	5	2	016		20	17
NB00880	NB58 - piling (0.19m -24nc	)) - rias 3 & 4	16	15-Dec-14 A	05-Jan-15 A				JAS				<mark>त्र गि</mark>							JAS
NB00900	NB58 - Footing & Wall Stru		175	15-Sep-15 A	26-Apr-16 A															
NB00910	NB58 - backfilling		7	20-Aug-16 A	27-Aug-16 A												1			
NB00920	NB58 - NB production		119	20-May-16 A	15-Sep-16 A															
NB00930	NB58 - NB post & panel ins	stallation	159	20-Sep-16 A	07-Apr-17 A															
			100	20 000 10/1	07 / 01 / 17 / 1															
TSZ10750		ater Main Fire Main Works ~5m below ground) (along NB58)	63	17-Dec-15 A	11-Mar-16 A															
TSZ10760	DSD Trunk Sewer laying (a	long NB58)	27	12-Mar-16 A	16-Apr-16 A			_		• • • • • • •										
TSZ10780	Watermain installation (alo	ng NB58)	40	29-Aug-16 A	17-Oct-16 A			_		• • • • • • •								1		
TSZ10790	Firemain installation (along	J NB58)	137	29-Aug-16 A	18-Feb-17 A										·					
TSZ11010	Backfilling		21	11-Oct-16 A	03-Nov-16 A													<b>.</b>		
Undergrou	Ind Utility Works																			
UUZ20190	Utility cable laying by Utility	/ companies (Along NB58, 0-45m)	166	16-May-16 A	30-Nov-16 A												· <del> </del>   -			
NB59 (Ch.64	490-6590)-TWSR We	est Side																		
Noise Barr			145	05-May-14 A	27 Oct 14 A								<b>.</b>							
	NB59 -Pre-drilling	)	145		27-Oct-14 A															
NB00950	NB59 - piling (0.19m -50nc		41	02-Jan-15 A	18-Feb-15 A															
NB00970	NB59 - Footing & Wall Stru	cture - 9 bays	292	02-May-15 A	30-Apr-16 A															
NB00980	NB59 - backfilling		13	29-Oct-16 A	12-Nov-16 A													•••••		
NB00990	NB59 - NB production		121	20-May-16 A	17-Sep-16 A															
NB01000	NB59 - NB post installation		158	15-Oct-16 A	05-May-17 A															
DSD South TSZ10800		ater Main Fire Main Works ~5m below ground) (along NB59)	16	18-Mar-15 A	08-Apr-15 A															
TSZ10810	DSD Trunk Sewer laying (a		300	08-Apr-15 A	16-Apr-16 A															
TSZ10830	Watermain installation (alo		132	11-Apr-16 A	15-Sep-16 A															
TSZ10830	Firemain installation (along		190	20-May-16 A	05-Jan-17 A															
		J ND39)	190	20-111ay-10A	05-Jan-17 A															
Undergrou UUZ20200	Ind Utility Works Utility cable laying by Utility	/ companies (Along NB59, 0-95m)	209	29-Jan-16 A	20-Oct-16 A															
NB63 (Ch 66	610-6700)-TWSR We	est Side																		
Noise Barr																				
NB01020	NB63 - Footing & Wall Stru	cture - 6 bays	151	23-Jun-14 A	19-Dec-14 A															
NB01030	NB63 - backfilling		17	09-Mar-16 A	31-Mar-16 A										-					
NB01040	NB63 - NB production		136	20-Jan-16 A	03-Jun-16 A															
NB01050	NB63 - NB post installation		17	05-Oct-16 A	25-Oct-16 A															
NB4540	NB63 - ID3-1 Pre-drilling		16	17-Oct-13 A	04-Nov-13 A															
NB4550	NB63 - ID3-1 piling (0.19m	-18no)-1 rigs - Deleted by VO	0	14-May-14 A	14-May-14 A															
NB4560	NB63 - ID3-1 Footing & Wa	all Structure - 2 bays	158	14-Jun-14 A	19-Dec-14 A															
		ater Main Fire Main Works																		
TSZ10300		~7m below ground) (along NB63)	57	20-Jul-15 A	23-Sep-15 A			_								<u></u>				
TSZ10310	DSD Trunk Sewer laying (a		133	24-Sep-15 A	12-Mar-16 A			_												
TSZ10330	Watermain installation (alo		84	15-Feb-16 A	31-May-16 A															
TSZ10340	Firemain installation (along	J NB63)	165	20-Jun-16 A	05-Jan-17 A															
DSD South TSZ10950	nern Trunk Sewer - T Construct Pipe jacking pits	renchless Construction	55	15-Apr-15 A	19-Jun-15 A															
TSZ10960	DSD Trunk Sewer laying (a	long NB63 - ID3-1)-Trenchless	65	22-Jun-15 A	05-Sep-15 A															
Remaining Le	evel of Effort	Project File:WP Rev 07	1			1	Contract	No. H	IY/20	12/0	)6	<u>    i    i</u>		<u>    i    i   </u>	1	1	<u> </u>		1	
Actual Level of Actual Work	of Effort	Layout: WP rev 7			<b>۱۸/۱۰</b> ۰۰	ing of Ecr'						on Chr	k late	roha	10					
Remaining W	ork	Data Date:20-Nov-18			widen	ing of Fanil	ng Highway -		-			-	k inte	renang	JG					
Critical Remains	aning work						Works Progr	ammo	e - W	'P R	ev. 7	,								
Crit. Milestone	e	Page 11 of 48																		

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	07-Nov-16	WP	Re	v 4					
	17-Aug-17	WP	Re	v 5					
	29-Mar-18	WP	Re	v 6					
	03-Dec-18	WP	Re	v 7					

vity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	P rev 7						
		Duration	Otart	1 million	Late Otart	Later million	Float	13 1141510	20		2015 JF A JJ		
TSZ10970	Both end manholes construction & trench sewer connection	81	07-Sep-15 A	12-Dec-15 A									
TSZ10980	Backfilling of jacking pits	39	14-Dec-15 A	30-Jan-16 A					 			 	
TSZ11020	Watermain & Firemain installation above Trunk Sewer	154	14-Dec-15 A	30-Jun-16 A					 			 	
TSZ11035	DSD trunk sewer along NB63	198	10-Jul-15 A	12-Mar-16 A					 			 •	
Undergrou	nd Utility Works												
UUZ20230	Utility cable laying by Utility companies (Along NB63~100m)	502	29-Jan-15 A	20-Oct-16 A					 			 	
Box Culvert	Extension ID1												
Structure V									 			 	
ID1-0100	Box Culvert Extension ID1 structure	91	20-Oct-14 A	18-Feb-15 A									
	Extension ID2								 				
Structure V	Box Culvert Extension ID2 structure	91	20-Oct-14 A	18-Feb-15 A				· · · · · ·	 		<u> </u>	 	
	er Along Fanling Highway N/B ce & Demolition of Existing Structure								 				
General	ce & Demontor of Existing Structure												
ADVZ20130	Existing Utility cable disconnected & TTA for NB complete	0	20-Nov-17 A						 			 	
ADVZ20140	Site Clearance (for NB Along FH N/B)	23	24-Oct-17 A	20-Nov-17 A					 			 	
ADVZ20160	TTA for NB works	55	20-Apr-17 A	26-Jun-17 A					 			 	
ADVZ20170	Zone 2 - Noise Barrier at FH N/B backfilling complete	0		11-Jun-19		07-Mar-19	-76		 			 	
ADVZ20210	Zone 2 - Noise Barrier at FH N/B structure work complete	0		31-Jan-19		20-Feb-19	15		 			 	
ADVZ20270	Zone 2 - Noise Barrier at FH N/B complete (Without Buffer Zone SBZ1)	0		11-Jun-19		07-Mar-19	-76		 			 	
		0		TT-Jun-19		07-1011-19	-76		-				
	5880-6060)-FH N/B Side								 				
Noise Barri NB001070	Ier Works NB43A - ID1-2 Pre-drilling	12	03-Jun-17 A	16-Jun-17 A					 			 	
NB001080	NB43A- ID1-2 piling (0.19m -18no)-1 rigs (deleted)	0	22-Mar-18 A	22-Mar-18 A					 			 	
NB001090	NB43A - ID1-2 Sheet piling & Excavation	59	20-Apr-18 A	30-Jun-18 A					 			 	
NB001100	NB43A - ID1-2 Footing & Wall Structure	82		09-Aug-18 A					 			 	
NB001105	NB43A- ID1-2 Drainage Works	32	10-Aug-18 A	15-Sep-18 A									
NB001110	NB43A - ID1-2 backfilling	65	15-Sep-18 A	03-Dec-18	22-Feb-19	07-Mar-19	76						
NB001120	NB43A - ID1-2 NB production	106	20-Sep-18 A	03-Jan-19	07-May-19	20-Jun-19	168		 			 	
NB001130	NB43A - ID1-2 NB post & panel installation	5	04-Jan-19	09-Jan-19	21-Jun-19	26-Jun-19	136		 			 	
NB01510	NB43A-1 (0-61.5m) - Sheet piling & Excavation	17	06-Nov-17 A	24-Nov-17 A					 			 	
NB01520	NB43A-1 - Footing & Wall Structure (bay1-6)	96	25-Nov-17 A	23-Mar-18 A					 			 	
NB01525	NB43A-1 (0-61.5m) - Drainage Works	109	03-Jul-18 A	09-Nov-18 A					 			 	
NB01526	NB43A-1 (0-61.5m) - Drainage Works (VO on 14-6-18 - add 1	6	10-Nov-18 A	16-Nov-18 A				·····	 			 	
	manhole) NB43A-1 - backfilling	14	17-Nov-18 A	03-Dec-18	22-Feb-19	07-Mar-19	76		 			 	
NB01530					22-Feb-19	07-1011-19	70		 			 	
NB01540	NB43A-1 - NB production	76	20-Jul-18 A	03-Oct-18 A					 			 	
NB01550	NB43A-1 - NB post & panel installation	5	04-Dec-18	08-Dec-18	21-Jun-19	26-Jun-19	160						
NB01560	NB43A-2 (86.8-166.7m) - Sheet piling & Excavation (bay 7-14)	49	02-Apr-18 A	01-Jun-18 A									
NB01570	NB43A-2 - Footing & Wall Structure (bay 7-14)	203	03-Apr-18 A	04-Dec-18	21-Dec-18	08-Jan-19	27		 				
NB01575	NB43A-2 (86.8-166.7m) - Drainage Works	60	08-Oct-18 A	17-Dec-18	08-Dec-18	08-Jan-19	16		 		1	 	
NB01576	NB43A-2 (86.8-166.7m) - Drainage Works (VO on 14-6-18 - add 1	6	18-Dec-18	24-Dec-18	09-Jan-19	15-Jan-19	16		 	·	+	 	
NB01580	manhole) NB43A-2 - backfilling	12	12-Jan-19	25-Jan-19	22-Feb-19	07-Mar-19	33		 		+	 	
NB01590	NB43A-2 - NB production	137	04-Aug-18 A	18-Dec-18	23-May-19	20-Jun-19	184		 			 	
11201000		107		10 200 10	20 May 13	20 001110	104						

Remaining Level of Effort
 Actual Level of Effort
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 Milestone
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Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 12 of 48

# Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Works Programme - WP Rev. 7



	Page 12 of 48 (3-Dec-1)														10,
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ty ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	P rev 7					
		Duration	Clart				Float	13 JIAISIOLI	2014 JF A JJASO			
NB01600	NB43A-2 - NB post & panel installation	5	19-Feb-19	23-Feb-19	21-Jun-19	26-Jun-19	99					
NB03330	Bus Shelter footing at NB43A - VO86	30	05-Dec-18	11-Jan-19	16-Jan-19	21-Feb-19	33			 		
NB03340	Relocate Bus Shelter installation - VO86	30	12-Jan-19	18-Feb-19	16-May-19	20-Jun-19	99			 		
NB50 (Ch.6	6060-6130)-FH N/B Side											
	rier Works	1			1					 		
NB001140	NB50 -Pre-drilling	12	03-Jun-17 A	16-Jun-17 A						 		
NB001150	NB50 -piling (0.19m -28no)	89	05-May-18 A	20-Aug-18 A								
NB001160	NB50 -Sheet piling & Excavation	15	20-Oct-18 A	06-Nov-18 A								
NB001170	NB50 -Footing & Wall Structure	26	07-Nov-18 A	06-Dec-18	28-Dec-18	15-Jan-19	31					
NB001175	NB50 - Drainage Works	24	27-Dec-18	24-Jan-19	16-Jan-19	14-Feb-19	16					
NB001180	NB50 -backfilling	12	01-Feb-19	16-Feb-19	22-Feb-19	07-Mar-19	16			 		
NB001190	NB50 -NB production	45	07-Dec-18	20-Jan-19	07-May-19	20-Jun-19	151			 		
NB001200	NB50 -NB post & panel installation	5	18-Feb-19	22-Feb-19	21-Jun-19	26-Jun-19	100			 		
NB17571	NB50 - Drainage Works (VO on 14-6-18 - add 1 manhole)	6	25-Jan-19	31-Jan-19	15-Feb-19	21-Feb-19	16			 		
NB50A (Ch.	.6130-6450)-FH N/B Side											
Noise Barı	rier Works											
NB001210	NB50A - ID2-2 Pre-drilling	3	15-Jun-17 A	17-Jun-17 A								
NB001220	NB50A - ID2-2 piling (0.19m -18no)	76	17-Jul-18 A	15-Oct-18 A								
NB001230	NB50A - ID2-2 Sheet piling & Excavation	19	29-Oct-18 A	19-Nov-18 A								
NB001240	NB50A - ID2-2 Footing & Wall Structure	50	20-Nov-18 A	19-Jan-19	20-Aug-18	19-Oct-18	-76			 		
NB001245	NB50A - ID2-2 Drainage Works	18	21-Jan-19	12-Feb-19	20-Oct-18	09-Nov-18	-76			 		
NB001250	NB50A - ID2-2 backfilling	12	13-Feb-19	26-Feb-19	22-Feb-19	07-Mar-19	8			 		
NB001260	NB50A - ID2-2 NB production	45	19-Jan-19	05-Mar-19	07-May-19	20-Jun-19	107			 		
NB001270	NB50A - ID2-2 NB post & panel installation	5	05-Mar-19	11-Mar-19	21-Jun-19	26-Jun-19	86			 		
NB01604	NB50A (0-108m)(NB50A/1-11 ) Pre-drilling	26	01-Jun-17 A	30-Jun-17 A						 		
NB01606	NB50A (0-108m)(NB50A/1-11, 0.19m -6 0nos) Piling (s3)	114	31-May-18 A							 		
NB01610	NB50A (0-108m) - Sheet piling & Excavation	24	29-Oct-18 A	24-Nov-18	20-Nov-18	24-Nov-18	0			 		
							0			 		
NB01620	NB50A(0-108m) - Footing & Wall Structure	55	26-Nov-18	31-Jan-19	26-Nov-18	31-Jan-19				 		
NB01625	NB50A (0-108m) - Drainage Works	24	09-May-19	05-Jun-19	01-Feb-19	02-Mar-19	-76			 		
NB01626	NB50A (0-108m) - Drainage Works (VO on 14-6-18 - add 2 manholes)	12	09-May-19	22-May-19	15-Feb-19	28-Feb-19	-66			 		
NB01630	NB50A-1 - backfilling	12	28-May-19	11-Jun-19	22-Feb-19	07-Mar-19	-76					
NB01640	NB50A-1 - NB production	45	01-Feb-19	17-Mar-19	07-May-19	20-Jun-19	95					
NB01650	NB50A-1 - NB post & panel installation	5	12-Jun-19	17-Jun-19	21-Jun-19	26-Jun-19	8					
NB01654	NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling	20	20-Feb-18 A	14-Mar-18 A								
NB01656	NB50A (132-228m)(NB50A/12-S2, 0.19m -44nos) & FVMS1 (8 nos)	114	31-May-18 A	15-Oct-18 A						 		
NB01660	Piling (S3) NB50A (132-228m) - Sheet piling & Excavation	24	29-Oct-18 A	24-Nov-18	29-Aug-18	03-Sep-18	-68			 		
NB01670	NB50A (132-228m) - Footing & Wall Structure	55	26-Nov-18	31-Jan-19	04-Sep-18	09-Nov-18	-68			 		
NB01675	NB50A (132-228m) - Drainage Works (VO on 14-6-18 - remain 2	12	13-Feb-19	26-Feb-19	10-Nov-18	23-Nov-18	-76			 		
NB01676	manholes) NB50A (132-228m) - Drainage Works (VO on 14-6-18 - add 7 special	56	27-Feb-19	08-May-19	24-Nov-18	31-Jan-19	-76			 		
NB01680	manholes) NB50A-2 - backfilling	12	02-May-19	15-May-19	22-Feb-19	07-Mar-19	-54			 		
NB01690	NB50A-2 - NB production	45	01-Feb-19	17-Mar-19	07-May-19	20-Jun-19	95			 		
					-					 		
NB01700	NB50A-2 - NB post & panel installation	5	16-May-19	21-May-19	21-Jun-19	26-Jun-19	30			 	<u>.</u>	
NB01704	NB50A (228-309m)(NB50A/21-27) & ADS1 Pre-drilling	26	15-Jun-16 A	15-Jul-16 A								

Actual Level of Effort Actual Work Remaining Work Critical Remaining Work Milestone

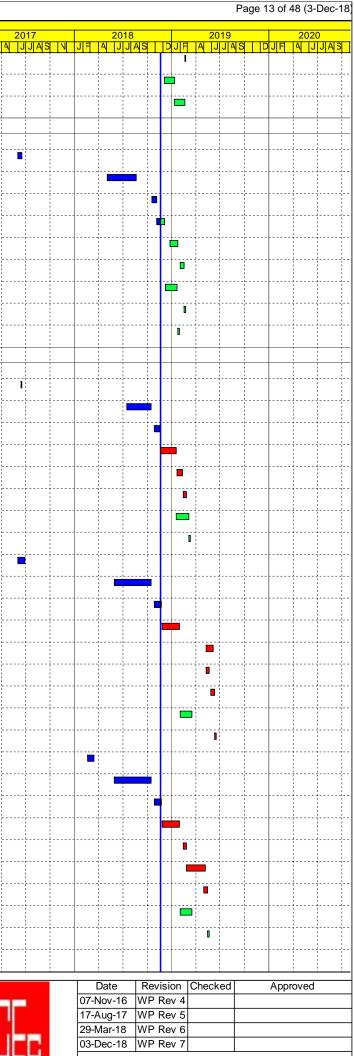
Crit. Milestone

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Layout: WP rev 7 Data Date:20-Nov-18 Page 13 of 48

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange





P Rev 07						VP rev 7								Page '	14 of 48 (3-D
ivity ID	Activity Name	Original Start Duration	Finish	Late Start	Late Finish	Total Float		2014	2015	2016	2017			2019	2020
NB01706	NB50A (228-309m)(NB50A/S4-S5, 0.19m -18nos) & ADS1	33 08-Jun-	18 A 18-Jul-18 A												<u>1961   14   19</u>
NB01708	(8nos)Piling TTA for S4-S5 structure	3 08-Dec-	18 11-Dec-18	12-Nov-18	14-Nov-18	-23				 			<mark>-</mark>		
NB01710	NB50A (225-311m) - Sheet piling & Excavation (S4-S5)	12 12-Dec-	18 27-Dec-18	15-Nov-18	28-Nov-18	-23									
NB01720	NB50A-3 - Footing & Wall Structure (S4-S5)	12 19-Dec-	18 04-Jan-19	22-Nov-18	05-Dec-18	-23				 					
NB01725	NB50A (225-311m) - Drainage Works (VO on 14-6-18 - delete 1	12 05-Jan-	19 18-Jan-19	06-Dec-18	19-Dec-18	-23				 			•••		
NB01726	manhole) NB50A (225-311m) - Drainage Works (VO on 14-6-18 - add 7 special	56 19-Jan-	19 27-Mar-19	20-Dec-18	28-Feb-19	-23				 					
NB01730	manholes) NB50A-3 - backfilling	6 28-Mar-	19 03-Apr-19	01-Mar-19	07-Mar-19	-23				 					
NB01740	NB50A-3 - NB production	45 05-Jan-	19 18-Feb-19	07-May-19	20-Jun-19	122				 					
NB01750	NB50A-3 - NB post & panel installation	5 04-Apr-	19 10-Apr-19	21-Jun-19	26-Jun-19	61		· · · · · · · · · · · · · · · · · · ·		 				0	
NB60 (Ch.6	6450-6920)-FH N/B Side														
		4 00 las								 	· · · · · · · · · · · · · · · · · · ·				
NB01751	NB60 (0-15m)(NB60/1) Pre-drilling	4 02-Jan-								 	·····				
NB01753	NB60 (0-15m)(NB60/1, 0.19m -10nos) Piling	20 29-Jun-								 					
NB01755	NB60-1 (0-15m) - Sheet piling & Excavation	6 16-Apr-	· · ·	24-May-19	30-May-19	29				 					
NB01757	NB60-1 (0-15m) - Footing & Wall Structure	12 26-Apr-	19* 10-May-19	31-May-19	14-Jun-19	29									
NB017571	NB60-1 (0-15m) - Drainage Works	6 04-May-	-19 10-May-19	08-Jun-19	14-Jun-19	29								0	
NB01758	NB60-1 (0-15m) - Backfilling	5 11-May-	19 16-May-19	15-Jun-19	20-Jun-19	29								0	
NB01759	NB60-1 (0-15m) - NB post & panel installation	5 17-May-	-19 22-May-19	21-Jun-19	26-Jun-19	29								D	
NB01760	NB60 (15-108m)(NB60/2-9) Pre-drilling	25 01-Jun-	16 A 30-Jun-16 A	<b>\</b>						 -					
NB01770	NB60 (15-63m)(NB60/1-4, 0.19m -16nos) Piling	113 08-May-	-18 A 19-Sep-18 A	4						 					
NB01780	NB60-1 (15-63m) - Sheet piling & Excavation	12 20-Sep-	18 A 05-Oct-18 A	· ·				//		 ·		••••			
NB01790	NB60-1 -(15-63m) Footing & Wall Structure	53 06-Oct-7	18 A 07-Dec-18	24-Oct-18	10-Nov-18	-23				 					
NB01795	NB60-1 (15-108m) - Drainage Works	24 21-Mar-	19 23-Apr-19	22-Dec-18	22-Jan-19	-72				 · <del>1</del>			1		
NB01796	NB60-1 (15-108m) - Drainage Works (VO on 14-6-18 & 16-10-18 - add	24 23-Apr-	19 22-May-19	23-Jan-19	21-Feb-19	-72				 					
NB01800	4 manholes) NB60-1 -(15-108m) backfilling	12 22-May-	-19 05-Jun-19	22-Feb-19	07-Mar-19	-72				 					
NB01810	NB60-1 - NB production	45 08-Dec-	18 21-Jan-19	07-May-19	20-Jun-19	150		· · · · · · · · · · · · · · · · · · ·		 					
NB01820	NB60-1 - NB post & panel installation	5 05-Jun-	19 12-Jun-19	21-Jun-19	26-Jun-19	13				 				0	
NB01830	NB60-2 (108-174m)(NB60/10-15) Pre-drilling	24 03-Jul-1	7 A 29-Jul-17 A							 					
NB01840	NB60-2 (63-174m)(NB60/5-15, 0.19m -64nos) Piling	68 15-Jan-	18 A 11-Apr-18 A	\						 					
NB01850	NB60-2 (63-174m) - Sheet piling & Excavation	75 20-Apr-	18 A 20-Jul-18 A							 					· · · · · · · · · · · · · · · · · · ·
NB01860	NB60-2 - Footing & Wall Structure	156 27-Apr-	18 A 02-Nov-18	4						 					
NB01865		24 11-Dec-	18 10-Jan-19	09-Jan-19	07-Feb-19	22				 					
NB01866	NB60-2 (108-174m) - Drainage Works (VO on 16-10-18 - add 2	12 11-Jan-		08-Feb-19	21-Feb-19	22				 					
NB01870	manholes) NB60-2 - backfilling	12 25-Jan-		22-Feb-19	07-Mar-19	22				 					
NB01880	NB60-2 - NB production	45 20-Nov-		07-May-19	20-Jun-19	168				 					
NB01890	NB60-2 - NB post & panel installation	5 11-Feb-		21-Jun-19	26-Jun-19	106				 					
NB01890	NB60 ID3-2 (174-192m), 18nos Pre-drilling	26 15-Jun-			20-0011-13	100				 					
								· · · · · · · · · · · · · · · · · · ·		 					
NB01910	NB60 ID3-2 (174-192m) 0.19m -18nos Piling	12 15-Mar-						· · · · · · · · · · · · · · · · · · ·		 					
NB01920	NB60-ID3-2 ((174-192m) - Sheet piling & Excavation	36 29-Mar-								 					ļ
NB01930	NB60-ID3-2 - Footing & Wall Structure	77 20-Jun-						· · · · · · · · · · · · · · · · · · ·		 					
NB01935	NB60-ID3-2 ((174-192m) - Drainage Works	18 20-Nov-			08-Jan-19	22							<b>P</b>		
NB01940	NB60-ID3-2 - backfilling	12 11-Dec-	18 24-Dec-18	22-Feb-19	07-Mar-19	58									

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 14 of 48

#### Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange



	Date	Revision	Checked	Approved
	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		

P Rev 07							P rev 7										Page 18	5 of 48 (3-I	·Dec-1
tivity ID	Activity Name	Original Duration		Finish	Late Start	Late Finish	Total Float 13	2014	2015	2010	6	2017		2018			.019	2020	20
NB01950	NB60-ID3-2 - NB production	45	20-Nov-18	03-Jan-19	07-May-19	20-Jun-19	JA 168	ad I ne u nu		<mark>I II∃  A II</mark> I						FAI	JIASID	JFAJ	
NB01960	NB60-ID3-2 - NB post & panel installation	5	04-Jan-19	09-Jan-19	21-Jun-19	26-Jun-19	136		 									[]	
NB01970	NB60 (192-300m)(NB60/17-25) Pre-drilling	25	03-Jul-17 A	31-Jul-17 A	2				 										
NB01980		190		22-Sep-18 A					 									;	
	NB60 (192-300m)(NB60/16-25, 0.19m -40nos) Piling		01-Feb-18 A	· ·					 						<u>.</u>				
NB01990	NB60-3 (192-300m) - Sheet piling & Excavation	100	11-Jun-18 A	09-Oct-18 A					 						<b></b>				
NB02000	NB60-3 (192-300m) - Footing & Wall Structure	82	20-Aug-18 A	26-Nov-18	24-Aug-18	30-Aug-18	-72											·	
NB02005	NB60-3 (192-300m) - Drainage Works (VO on 16-10-18 - remain 1 manholes)	6	26-Nov-18	03-Dec-18	31-Aug-18	06-Sep-18	-72								1				
NB02006	NB60-3 (192-300m) - Drainage Works (VO on 16-10-18 - add 11 special manholes)	88	03-Dec-18	21-Mar-19	07-Sep-18	21-Dec-18	-72									-		1	
NB02010	NB60-3 - backfilling	12	21-Mar-19	04-Apr-19	22-Feb-19	07-Mar-19	-24									•		1	
NB02020	NB60-3 - NB production	45	26-Nov-18	10-Jan-19	07-May-19	20-Jun-19	162												
NB02022	NB60-3 - NB post & panel installation	5	10-Jan-19	16-Jan-19	21-Jun-19	26-Jun-19	131		 +						0			+	
Undergroun	nd Utility Works																		
Undergrou	und Utility Works			1	1				 										
NB001145	CLP 11kv cable along N/B NB pile location disconnect by CLP	116	29-Dec-17 A	24-May-18 A															
NB001146	CLP 11kv cable along N/B NB base location disconnect by CLP	15	25-May-18 A	11-Jun-18 A														1	
UU0100	CLP cable laying and associated work before backfill in Zone 1 & 2	197	15-Aug-18 A	27-Feb-19	27-Nov-18	06-Mar-19	7									-			
UU0110	Towngas duct laying and associated work before backfill in Zone 1 & 2	324	20-Apr-18 A	09-Mar-19	23-Nov-18	12-Mar-19	3							j 	• <b>-</b>	-			
UU0130	TTA, duct laying and Road reinstatement by Towngas in Zone 1 & 2 (if	120	26-Sep-19	23-Jan-20	11-Mar-20	08-Jul-20	167		 +									<b>-</b> †	
Bridge Cor	required)																		+ +
	ing Footbridge																		
General									 										
THBF0100	Site Clearance	13	24-Apr-14 A	10-May-14 A															
THBF0330	Structure steel Shop drawing submission (THFB)	53	02-Oct-14 A	03-Dec-14 A														l	
THBF0335	Structure steel Shop drawing approval (THFB)	423	04-Dec-14 A	23-May-16 A															
THBF0340	Structure steel procurement (THFB)	303	22-Sep-15 A	20-Jul-16 A					-									1	
THBF0350	Steel Staircase & Ramp prefabrication (THFB-TWSR-W side)	122	20-Jul-16 A	12-Dec-16 A															
THBF0360	Steel Staircase & Ramp available on site (THFB-TWSR-W side)	0	12-Dec-16 A						 		♦ Steel	Staircase & F	Ramp availa	ble on s	te (THFE	3-TWSR	-W side)	+	
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	353	20-Jul-16 A	28-Sep-17 A					 										
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0	28-Sep-17 A						 			•	Steel Stairca	ase & Bri	dge avai	ilable or	site (THFB-T	WSR-E sic	de)
THBF0390	Steel Bridge prefabrication (THFB)	122	20-Jul-16 A	12-Dec-16 A					 						• • • • • • • • • • • • • • • • • • • •			[]	
THBF0400	Steel Bridge available on site (THFB)	0	12-Dec-16 A						 		♦ Steel	Bridge availa	able on site	(THFB)				[]	
THBF0655	Tai Hang Footbridge Complete	0	12 200 10/1	04-May-19		26-Jun-19	44		 						04-May	/-19 🔶	Tai Hang Foot	th ridate Cor	molete
THBF0665	Diversion of existing pedestrian from existing to proposed footbrdige	1	03-Feb-18 A	-		20 0011 13			 									2 ug e e e	
			03-Feb-10A	03-Feb-16 A					 										
TWSR-We THBF0110	est/ FL Highway N/B Side Section	3	12-Jun-14 A	14-Jun-14 A					 									[]	
THBF0120	THP5 - Pre-bored H pile (8 nos)	63	13-Nov-14 A						 										
									 						<b> </b>				
THBF0130	THP5 - Pile Test	28	20-Apr-15 A	17-May-15 A				·····	 <b>.</b>		<u></u>				<b> </b> - -			 	
THBF0140	THP5 - Pile cap, Pier and Pier Head	307	31-Oct-15 A	17-Nov-16 A					 · · · · · · · · · · · · · · · · · · ·									· ا	
THBF0150	THP8, THP9, - Predrilling	8	09-Jun-14 A	17-Jun-14 A														 	
THBF0160	THP8, THP9 - Pre-bored H pile (8 nos)	105	08-Nov-14 A	21-Mar-15 A														1	
THBF0170	THP8, THP9 - Pile Test	28	20-Apr-15 A	17-May-15 A															
			40.1.1.5.0	11-Nov-16 A				+	 · · · · · · · · · · · · · · · · · · ·						; <b> </b>			·	
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	394	13-Jul-15 A	11-NOV-16 A						1 1								1 I I	1 1

Remaining Level of Effort	Project File:WP Rev 07	Contract No. HY/2012/06	
Actual Level of Effort			
Actual Work	Layout: WP rev 7	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange	
Remaining Work	Data Date:20-Nov-18		
Critical Remaining Work	Data Date:20-NOV-18	Works Programme - WP Rev. 7	
♦ Milestone	Page 15 of 48		-
Crit. Milestone			

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Date	Revision	Checked	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

PRev 07	Activity Name	Original Start	Finish	Late Stort		P rev 7					i aye	e 16 of 48 (3-De
	Activity Name	Original Start Duration	Finish	Late Start	Late Finish	Float 13		2016 JFIA JJASO JFI				2020
THBF0200	THAB3 - Pre-bored H pile (4 nos)	79 08-Nov-14 A	11-Feb-15 A									
THBF0210	THAB3 - Pile Test	28 20-Apr-15 A	17-May-15 A				 					
THBF0220	THAB3 - pile cap & abutment wall	79 15-Jun-16 A	15-Sep-16 A				 					
THBF0230	THAB3 - Backfilling (~4m)	43 17-Sep-16 A	08-Nov-16 A				 	 				
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0	21-Jan-17 A				 	 21-Jan-17 A 🔶 S	teel Staircase rea	dy for erection (THF	B-TWSR-W side)	
THBF0240	THP6, THP7 - Predrilling	58 10-Jun-14 A	16-Aug-14 A				 					
THBF0250	THP6, THP7 - Pre-bored H pile (14 nos)	92 17-Nov-14 A	14-Mar-15 A				 	 				
THBF0260	THP6, THP7 - Pile Test	28 20-Apr-15 A	17-May-15 A				 					
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	271 01-Feb-16 A	06-Jan-17 A				 	 				
THBF0280	THAB2 - Predrilling	8 12-Jun-14 A	20-Jun-14 A				 	 				
THBF0290	THAB2 - Pre-bored H pile (10 nos)	64 12-Dec-14 A	07-Mar-15 A				 	 				
THBF0300	THAB2 - Pile Test	28 20-Apr-15 A	17-May-15 A				 					
THBF0310	THAB2 - pile cap & abutment wall	49 16-Sep-16 A	15-Nov-16 A				 	 				
THBF0320	THAB2 - Backfilling (~3m)	17 27-Oct-16 A	15-Nov-16 A				 	 				
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0	06-Jan-17 A				 		eel Ramp ready f	or erection (THFB-TV	VSR-W side)	
THBF0410	Erect Stairecase (THFB-TWSR-W side)	6 21-Jan-17 A	27-Jan-17 A				 	 		· · · · · · · · · · · · · · · · · · ·	, ,	
THBF0420	Erect Ramp	12 07-Jan-17 A	20-Jan-17 A				 	 				
THBF0620	Finishes Work	527 27-Feb-17 A	05-Dec-18	11-Jun-19	26-Jun-19	163	 	 				
THBF0625	Bridge Structure complete (THFB-TWSR-W side)	0	05-Dec-18		26-Jun-19	163	 	 		05-Dec-18	<ul> <li>Bridge Structure cor</li> </ul>	nnlete (THFB-TM
		0	00-Dec-10		20-5011-15	103						
THBF0530	Fanling Highway Section	12 20-Apr-17 A	05-May-17 A				 	 				
THBF0540	THP1 - Pre-bored H pile (6 nos)	20 29-Jun-17 A	22-Jul-17 A				 	 	+			
THBF0560	THP1 - Pile cap, Pier and Pier Head	94 29-Jul-17 A	18-Nov-17 A				 	 				
THBF0575	Erect Temp Tower at central divider	8 20-Nov-17 A	28-Nov-17 A				 	 				
THBF0580	Erect THFB across fanling highway	2 29-Nov-17 A	30-Nov-17 A				 	 				
THBF0590	Finishes Work	135 20-Jun-18 A	28-Nov-18	18-Jun-19	26-Jun-19	169	 	 				
THBF0600	Bridge Structure complete (THFB-Cross fanling highway)	0	28-Nov-18		26-Jun-19	169	 	 		28-Nov-18	<ul> <li>Bridge Structure con</li> </ul>	nplete (THFB-Cro
	t FL Highway S/B Side Section											
THBF0430	Precautionary work for MTRC I&P area	39 01-Apr-14 A	22-May-14 A				 	 				
THBF0432	Trial pit for locating C350 watermain	36 15-Mar-14 A	30-Apr-14 A				 	 				
THBF0435	Pending fo RE & WSD information for C350 location	45 01-May-14 A	25-Jun-14 A				 	 				
THBF0436	Trial pit for locating C350 watermain (2nd trial)	18 10-Jul-14 A	30-Jul-14 A				 	 				
THBF0440	THAB1 - Predrilling	82 20-Mar-15 A	30-Jun-15 A				 ·····	 				
THBF0470	THAB1 - pile cap & abutment wall	632 21-Nov-16 A	14-Jan-19	23-Jan-19	18-Mar-19	52	 	 	······································			
THBF0480	THAB1 - Backfilling (~3m)	20 15-Jan-19	08-Feb-19	19-Mar-19	11-Apr-19	52	 	 				
THBF0490	THP2 - Predrilling	3 19-Mar-15 A	21-Mar-15 A				 ····-	 				
THBF0500	THP2 - Pre-bored H pile (8 nos)	40 11-Nov-15 A	29-Dec-15 A				 					
THBF0510	THP2 - Pile Test	105 16-Feb-16 A	30-May-16 A				 	 				
THBF0520	THP2 - Pile cap, Pier and Pier Head	124 20-Mar-17 A	19-Aug-17 A				 	 			<b>.</b>	
THBF0520	Erect Stairecase (THFB-TWSR-E side)	30 09-Feb-19	15-Mar-19	12-Apr-19	21-May-19	52	 	 				
THBF0640	Finishes Work	30 16-Mar-19	24-Apr-19	22-May-19	26-Jun-19	52	 	 				
THBF0645	Bridge Structure complete (THFB-TWSR-E side)	0	04-May-19		26-Jun-19	44				0	1-May-19 ♦ Bridge Stru	ucture comple

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 16 of 48

### Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange



	Date	Revision	Checked	Approved
- 1 C	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		

ty ID	Activity Name	Original		Finish	Late Start	Late Finish	Total		0044		_		45		00.12	 	
		Duration					Float 13	JF	2014 JJJA	SO	JF	20 [A] [J		I JE	2016 [A] [J]J]		2017 JJJ
THBF0700	THP3 - Predrilling	4	23-Mar-15 A	26-Mar-15 A							1						
THBF0710	THP3 - Pre-bored H pile (4 nos)	27	09-Sep-15 A	12-Oct-15 A									<b></b>				
THBF0720	THP3 - Pile Test	105	16-Feb-16 A	30-May-16 A													
THBF0730	THP3 - Pile cap, Pier and Pier Head	99	26-Nov-16 A	01-Apr-17 A				 									
THBF0740	THP4 - Predrilling	6	27-Mar-15 A	02-Apr-15 A												 	
THBF0750	THP4 - Pre-bored H pile (4 nos)	17	13-Oct-15 A	02-Nov-15 A				 								 	
THBF0760	THP4 - Pile Test	105	16-Feb-16 A	30-May-16 A				 								 	
THBF0770	THP4 - Pile cap, Pier and Pier Head	207	20-Jul-16 A	01-Apr-17 A				 								 	
THBF0785	Reconstruction of existing span between P4 and existing pier	6	27-Jan-18 A	02-Feb-18 A				 								 	
THBF0790	Erect steel bridge from THP2 to THP4	33	29-Sep-17 A	09-Nov-17 A				 								 	
THBF0800	ABWF work	30	20-Nov-18	24-Dec-18	22-May-19	26-Jun-19	147	 								 	
Lift at TW	SR-W Side										-					 	
L1470	Pre-bored H Piling Rig mobilisation & set up period	11	15-Dec-15 A	29-Dec-15 A				 									
L1480	THB (W) - Pre-bored H pile (4 nos)	11	29-Dec-15 A	11-Jan-16 A												 	
L1500	Temp work & Pile cap	20	15-Jun-16 A	08-Jul-16 A				 									
L1510	Lift pit (NF115)	6	09-Jul-16 A	15-Jul-16 A				 							1	 	
L1520	Lift shaft & roof	321	16-Jul-16 A	18-Aug-17 A				 								 	
L1530	Structural Laminated glass wall installation	147	20-Apr-18 A	15-Oct-18 A				 								 	
L1540	RC Platform connect to bridge	12	23-Oct-17 A	06-Nov-17 A				 								 	
L1550	Metal cover on RC platform	42	20-Sep-18 A	10-Nov-18 A				 								 	
L1555	Glass canopy on ground level	37	12-Nov-18 A	24-Dec-18	22-May-19	26-Jun-19	147	 								 	
L1556	Lift contractor sub-letting	223	21-Sep-15 A	30-Jun-16 A				 					 			 	
L1557	Lift submission & ordering period	258	02-Jul-16 A	20-May-17 A				 								 	
L1560	Lift installation (NF115)	77	12-Nov-18 A	14-Feb-19	15-Feb-19	13-May-19	70	 								 	
L1570	Lift T&C	14	15-Feb-19	02-Mar-19	14-May-19	29-May-19	70	 								 	
L1580	EMSD inspection & approval	28	02-Mar-19	30-Mar-19	30-May-19	26-Jun-19	88	 								 	
L1590	E&M and Finishes work	120	20-Nov-18	15-Apr-19	29-Jan-19	26-Jun-19	57	 								 	
L1600	CLP Power available (by CLP)	632	21-Jun-16 A	14-Mar-18 A				 							·	 	
L1610	Lift available - NF115-Lift 1	0		15-Apr-19		26-Jun-19	57	 								 	
L1800	THFB Completion Date	0		04-May-19		26-Jun-19	44	 								 	
Lift at FLH	V C/D															 	
L1345	THB (E) - Pre-bored H pile - NF78 (8 nos)	66	31-Dec-15 A	30-Mar-16 A				 								 	
L1350	Temp work & Pipe cap	67	20-Jun-16 A	06-Sep-16 A				 								 	
L1360	Lift pit	11	07-Sep-16 A	20-Sep-16 A				 									
L1370	Lift shaft & roof	573	20-Sep-16 A	31-Aug-18 A				 								 	
L1380	Structural Laminated glass wall installation	30	22-Nov-18*	28-Dec-18	22-Nov-18	28-Dec-18	0	 								 	
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	50	20-Sep-18 A	20-Nov-18 A				 								 	
L1400	Roof cover for RC Platform	30	20-Nov-18	24-Dec-18	27-Nov-18	03-Jan-19	6	 								 	
L1410	Lift installation (NF78)	70	29-Dec-18	23-Mar-19	04-Jan-19	28-Mar-19	4	 								 	
L1420	Lift T&C	14	23-Mar-19	06-Apr-19	29-Mar-19	11-Apr-19	5	 								 	
L1430	EMSD inspection & approval	28	06-Apr-19	04-May-19	12-Apr-19	09-May-19	5	 								 	
L1440	E&M and Finishes work	100	27-Dec-18	30-Apr-19	05-Jan-19	09-May-19	7	 								 	

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 17 of 48 Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Works Programme - WP Rev. 7



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Page 17 of 48 (3-Dec-18)

	Date	Revision	Checked	Approved
	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
	29-Mar-18	WP Rev 6		
i s i	03-Dec-18	WP Rev 7		

Rev 07 vity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	'P rev 7							
		Duration					Float	13 2014 JASO JF A JJA	an	JF		015 JJAS		
L1450	CLP Power available (by CLP)	913	21-Jun-16 A	20-Dec-18	26-Feb-19	28-Mar-19	98							
L1460	Lift available - NF78	0		04-May-19		09-May-19	4							
L1490	THFB Completion Date	0		04-May-19		26-Jun-19	44							
	of Existing Tai Hang Footbridge													
Z2.THF.1040	st/ FL Highway N/B Side Section	34	17-Jul-15 A	25-Aug-15 A										
Z2.THF.1050	Modification of existing entrance of Tai Hang Footbridge	5	26-Aug-15 A	31-Aug-15 A								1		
Z2.THF.1060	Diversion of existing pedestrian to temporary steel ramp	3	01-Sep-15 A	03-Sep-15 A										
Z2.THF.1070	Temporary support installation to removal portions of Tai Hang	22	04-Sep-15 A	30-Sep-15 A										
Z2.THF.1080	Footbridge Removal of portion of Tai Hang Footbrdige for THP1 works	33	02-Oct-15 A	10-Nov-15 A										
Z2.THF.1120	Demolish existing Tai Hang footbridge (TWSR-W side)	6	05-Feb-18 A	10-Feb-18 A					+					
	Fanling Highway Section													
Z2.THF.1090	Erect Temp platform for bridge demolition	22	18-Dec-17 A	15-Jan-18 A										
Z2.THF.1100	Demolish existing Tai Hang Footbridge	2	03-Feb-18 A	05-Feb-18 A										
Z2.THF.1110	Removal of temporary platform	5	06-Feb-18 A	10-Feb-18 A										
Z2.THF.1130	Demolish remaining column	5	06-Feb-18 A	10-Feb-18 A										
New Tai Wo	Footbridge													
General					1	1								
TWFB1010	Site Clearance	53	25-Aug-14 A	28-Oct-14 A										
TWFB1020	Structure steel Shop drawing submission (TWFB)	31	29-Oct-14 A	03-Dec-14 A										
TWFB1030	Structure steel Shop drawing approval (TWFB)	450	04-Dec-14 A	24-Jun-16 A										
TWFB1040	Structure steel procurement (TWFB)	358	22-Aug-15 A	13-Aug-16 A										
TWFB1050	Steel Staircase & Ramp prefabrication (TWFB-TWSR-W side)	105	15-Aug-16 A	17-Dec-16 A										
TWFB1060	Steel Staircase & Ramp available on site (TWFB-TWSR-W side)	0	17-Dec-16 A											♦ Steel St
TWFB1090	Steel Bridge prefabrication (TWFB)	669	15-Aug-16 A	20-Nov-18 A										
TWFB1100	Steel Bridge available on site (TWFB)	0	22-Nov-18*		22-Nov-18		0							
TWFB1110	Tai Wo Footbridge Complete	0		24-May-19		10-Jun-19	13							
TWSR-Wes TWFB1130	st/ FL Highway N/B Side Section	4	02 Aug 14 A	06-Aug-14 A										
TWFB1130			02-Aug-14 A	30-Jul-15 A				1				<u> </u>		
	TWP1 - Pre-bored H pile (8 nos) TWP1 - Pile Test	82	22-Apr-15 A											
TWFB1150		25	23-Sep-15 A	17-Oct-15 A									·	
TWFB1160	TWP1 - Pile cap, Pier and Pier Head	250	18-Feb-16 A	17-Dec-16 A										
TWFB1210	TWAB2 - Predrilling	2	21-Oct-14 A	22-Oct-14 A										
TWFB1220	TWAB2 - Pre-bored H pile (4 nos)	50	18-Apr-15 A	17-Jun-15 A							+	<u> </u>		
TWFB1230	TWAB2 - Pile Test	26	25-Sep-15 A	20-Oct-15 A										
TWFB1240	TWAB2 - pile cap & abutment wall	148	20-Jul-16 A	14-Jan-17 A										
TWFB1250	TWAB2 - Backfilling (~4m)	63	12-Nov-16 A	27-Jan-17 A										
TWFB1260	Steel Staircase ready for erection (THFB-TWSR-W side)	0		27-Jan-17 A										27-Jan-17 A ♦ Steel
TWFB1270	TWP4, TWP5 - Predrilling	8	21-Jun-14 A	30-Jun-14 A				•••••			<u></u>	<u></u>		
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	71	11-May-15 A	04-Aug-15 A										
TWFB1290	TWP4, TWP5 - Pile Test	40	05-Oct-15 A	13-Nov-15 A										
TWFB1300	TWP4, TWP5 - Pile cap, Pier and Pier Head	299	16-Nov-15 A	23-Nov-16 A										
TWFB1310	TWAB1 - Predrilling	37	27-Jun-14 A	09-Aug-14 A				1 1 1 📁	1		1	1 1		

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 18 of 48 Contract No. HY/2012/06

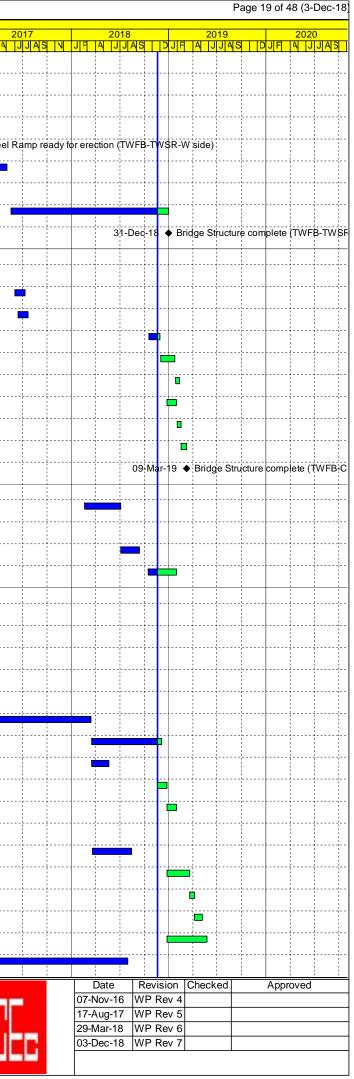
Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange



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						04	M	ay-19	<b>♦</b> 1	HFB C	ompl	etion	Date		
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12	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
_	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		
-				

Rev 07								P rev 7												
vity ID	Activity Name		Original Duration	Start	Finish	Late Start	Late Finish	Total Float	13			2014			2015			2016		
TWFB1320	TWAB1 - Pre-bored H pile	(18 nos)	66	27-Apr-15 A	16-Jul-15 A				JAS	<u>9</u>	<u>JH</u>	<u>A []]</u>						JJA		<u> 14 14</u>
TWFB1330	TWAB1 - Pile Test		27	21-Sep-15 A	17-Oct-15 A															
TWFB1340	TWAB1 - pile cap & abutme	ent wall	291	22-Oct-15 A	20-Oct-16 A															
TWFB1350	TWAB1 - Backfilling (~3m)		9	21-Oct-16 A	31-Oct-16 A															
TWFB1360	Steel Ramp ready for erecti	on (TWFB-TWSR-W side)	0		20-Jan-17 A													20-Jar	-17 A	♦ Steel
TWFB1370	Erect Stairecase (TWFB-TV	VSR-W side)	113	07-Dec-16 A	05-May-17 A															
TWFB1380	Erect Ramp		31	07-Dec-16 A	14-Jan-17 A															
TWFB1390	Finishes Work		482	20-May-17 A	31-Dec-18	30-Apr-19	10-Jun-19	129												
TWFB1400	Bridge Structure complete (	TWFB-TWSR-W side)	0		31-Dec-18		10-Jun-19	129												
Crossing E	anling Highway Sec																			
TWFB1410	TWP2 - Predrilling		12	27-Feb-17 A	11-Mar-17 A															
TWFB1420	TWP2 - Pre-bored H pile (6	nos)	33	01-Jun-17 A	10-Jul-17 A															
TWFB1430	TWP2 - Pile Test		37	15-Jun-17 A	21-Jul-17 A															
TWFB1440	TWP2 - Pile cap		38	18-Oct-18 A	30-Nov-18	02-Jan-19	12-Jan-19	34												
TWFB1445	TWP2 - Pier and Pier Head		45	01-Dec-18	25-Jan-19	14-Jan-19	08-Mar-19	34												
TWFB1447	Erect TWFB acrossTWSR-\	W (P1 to P2)	12	26-Jan-19	11-Feb-19	09-Mar-19	22-Mar-19	34												
TWFB1448	Erect Temp tower for TWFB	erection at Central Divier	30	27-Dec-18	31-Jan-19	31-Jan-19	08-Mar-19	29												
TWFB1450	Erect TWFB across fanling	highway	12	01-Feb-19	16-Feb-19	09-Mar-19	22-Mar-19	29												
TWFB1460	Finishes Work		18	18-Feb-19	09-Mar-19	23-Mar-19	13-Apr-19	29												
TWFB1470	Bridge Structure complete (	TWFB-Cross fanling highway)	0		09-Mar-19		13-Apr-19	29												
	FL Highway S/B Si																			
TWFB1480	Precautionary work for MTF		108	20-Feb-18 A	04-Jul-18 A															
TWFB1540	TWP3 - Predrilling		11	01-Mar-16 A	12-Mar-16 A												•			
TWFB1550	TWP3 - Pre-bored H pile (6	nos)	63	05-Jul-18 A	15-Sep-18 A															
TWFB1570	TWP3 - Pile cap, Pier and F	Pier Head	90	15-Oct-18 A	31-Jan-19	24-Dec-18	08-Mar-19	29												
Lift at TWS	R-W Side																			
L1620	Pre-bored H Piling Rig mot	vilisation & set up period	6	08-Aug-15 A	14-Aug-15 A										I					
L1630	TWB (W) - Pre-bored H pile	e (4 nos)	14	15-Aug-15 A	31-Aug-15 A															
L1640	Pile test		16	02-Oct-15 A	20-Oct-15 A											•				
L1650	Temp work & Pile cap		85	21-Dec-15 A	14-Apr-16 A															
L1660	Lift pit		30	15-Apr-16 A	21-May-16 A															
L1670	Lift shaft & roof		513	21-Jun-16 A	16-Mar-18 A															
L1680	Structural Laminated glass	wall installation	214	17-Mar-18 A	04-Dec-18	27-Dec-18	11-Jan-19	30												
L1690	RC Link slab connect to bri	dge	51	17-Mar-18 A	21-May-18 A															
L1700	Metal cover on RC platform		30	20-Nov-18	24-Dec-18	05-Dec-18	11-Jan-19	13												
L1710	Glass canopy on ground le	vel	30	27-Dec-18	31-Jan-19	02-Jun-20	08-Jul-20	424												
L1720	Lift contractor sub-letting		223	21-Sep-15 A	30-Jun-16 A													<b>–</b>		
L1730	Lift submission & ordering p	period	150	20-Mar-18 A	16-Aug-18 A															
L1740	Lift installation		70	27-Dec-18	21-Mar-19	28-Jan-19	25-Apr-19	26												
L1750	Lift T&C		14	22-Mar-19	08-Apr-19	26-Apr-19	13-May-19	26												
L1760	EMSD inspection & approv	al	28	09-Apr-19	06-May-19	14-May-19	10-Jun-19	35												
L1770	E&M and Finishes work		120	27-Dec-18	24-May-19	12-Jan-19	10-Jun-19	13												
L1780	CLP Power available (by C	LP)	712	20-Aug-16 A	01-Aug-18 A															
						Controo	( NIA 11	VIDO	10/											
	al Level of Effort						Contrac													
Actual Work Remaining Wor	Remaining Work			Wideni	ng of Fanli	ng Highway	- Tai H	ang	to V	No F	lop S	Shek Ir	nterch	nange						
	Critical Remaining Work Data Date:20-Nov-18						Works Prog	Irammo	e - W	/P R	lev.	7								30
<ul> <li>Milestone</li> </ul>							-											1		( <b>- 1</b> - 1



P Rev 07	Activity Name	Original	Start	Finish	Late Start	Late Finish	P rev 7			<u> </u>		
		Duration	Otart				Float	13 JIASO			2016	
L1790 L	ift available - NF116-Lift 1	0		24-May-19		10-Jun-19	13				<u> - 199799</u>	
L1810 N	New Tai Wo footbridge completion	0		24-May-19		26-Jun-19	27		 			
Temporary Tai	Wo Footbridge											
Design Work	S								 			
	Procurement of Temporary bridge Design consultant	69	24-Mar-14 A	19-Jun-14 A					 			
TWFB-T1010 D	Design preparation	274	20-Jul-15 A	27-Jun-16 A								
TWFB-T1020 E	ngineer Comment	130	28-Jun-16 A	30-Nov-16 A								
TWFB-T1030 D	Design amendment	94	01-Dec-16 A	31-Mar-17 A								
TWFB-T1040 D	Design Available	0		31-Mar-17 A					 		31-Ma	ar-17 A 🔶 Des
Construction	Works											
TWFB-T1050 T	TA for Temp ramp working space	48	20-May-15 A	17-Jul-15 A								
TWFB-T1060 E	rect Temp Ramp	138	18-Jul-15 A	31-Dec-15 A								
TWFB-T1065 T	W Bridge Ramp at TWSR-W available	0		31-Dec-16 A							31-Dec-16 A	A 🔶 TW Bridg
TWFB-T1070 T	WFB across TWSR-W available	0		25-Sep-17 A					 			25-\$ep-1
TWFB-T1072 P	Piling work for NB60 bay 1 (0.19m -10no)	19	29-Jun-17 A	21-Jul-17 A					 			
	PCCW re-access temp tower location at TWSR-W to reinstate cable	18	11-Aug-17 A	31-Aug-17 A					 			
	luct Erect Temp tower at TWSR-W	9	01-Sep-17 A	11-Sep-17 A					 			
TWFB-T1076 C	Connect Temp Bridge to new TW bridge at TWSR-W	2	12-Sep-17 A	13-Sep-17 A					 			
	ēmp footing at NB60 bay 1	6	16-Aug-17 A	22-Aug-17 A					 			
	Erect Temp tower at NB60 bay 1	5	25-Aug-17 A	30-Aug-17 A					 			
	Erect Temp bridge from TWP1 to P2 to Existing Bridge	1	12-Sep-17 A	12-Sep-17 A					 			
		1	· · · · · · · · · · · · · · · · · · ·						 			
	Diverse Pedestrain to TWFB ramp	0	13-Sep-17 A	13-Sep-17 A					 			
	Demolish Temp Ramp & laying temp road for TTA	9	14-Sep-17 A	23-Sep-17 A					 			
	TA for temp column at new FLHY central divider	2	23-Sep-17 A	24-Sep-17 A								
TWFB-T1195 G	G54 footing at central divider	29	25-Sep-17 A	31-Oct-17 A								
TWFB-T1200 E	rect temp column at new FLHY central divider	14	04-Jan-18 A	19-Jan-18 A								
	rect Temp Column & link bridge at FLHY N/B (besides TW-P2 & NB60 st bay)	1	12-Sep-17 A	12-Sep-17 A					 			
TWFB-T1208 E	Erect Temp Column & link bridge to existing bridge at FLHY S/B besides TW-P3)	32	15-Jan-18 A	23-Feb-18 A								
	Frect Temp Bridge accross FLHY	11	24-Jan-18 A	05-Feb-18 A					 			
TWFB-T1220 T	emp TW bridge complete & pedestrian diversion	0		20-Mar-18 A					 			
TWFB-T1240 R	Removed Temp Footbridge	30	11-Mar-19	15-Apr-19	15-Apr-19	23-May-19	29		 			
Demolition of F	Existing Tai Wo Footbridge											
	FL Highway N/B Side Section											
	Demolish existing ramp & staircase at TWSR-W	12	02-Jan-16 A	15-Jan-16 A								
TWFB-T1135 D	Demolish existing TWFB across TWSR-W	2	14-Nov-16 A	15-Nov-16 A					 			1
TWFB-T1230	Vatermain & Firemain at NB58 & backfill	55	29-Aug-16 A	03-Nov-16 A					 			
Crossing Fan	ling Highway Section											
	Demolish existing Tai Wo Footbridge	10	20-Mar-18 A	03-Apr-18 A								
TWFB-DE1110 D	Demolish existing Tai Wo Footbridge complete (across FH)	0		03-Apr-18 A								
Signalized Ju	Inction											
New Tai Hang												
	FL Highway N/B Side Section nstallation of Traffic Signal Poles at TWSR-W N/B (Tai hang Junction)	21	23-Apr-19	17-May-19	08-May-19	31-May-19	12		 			
	Ducting & Cable Draw Installation (Tai hang Junction)	30	18-Feb-19	23-Mar-19	04-Mar-19	08-Apr-19	12		 			
		30	10-1-60-19	20-11101-19	04-1VIAI-19	00-Abi-18	12					

V	Remaining Level of Effort	Project File:WP Rev 07	Contract No. HY/2012/06		
	Actual Level of Effort				
	Actual Work	Layout: WP rev 7	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange		
	Remaining Work	Data Data:20 Nov 10		_	
	Critical Remaining Work	Data Date:20-Nov-18	Works Programme - WP Rev. 7		
•	♦ Milestone	Page 20 of 48			de la
<b>♦</b>	Crit. Milestone	1 age 20 01 40		1.000	

Page 20 of 48 (3-Dec-18) 2017 2018 2019 2020 A JJJAS N JF A JJJAS DJF A JJJAS DJF A JJJAS 24-May-19 ♦ Lift available - NF116-Lift 1 -----24-May-19 ♦ New Tai Wo footbridge complet ----------Design Available Bridge Ramp at TWSR-W available Sep-17 A 🔶 TWFB across TWSR-W available -T ····· 1 1 ----‡ 20-Mar-18A Temp TW bridge complete & pedestrian diversion 1 ---------------03-Apr-18A • Demolish ex sting Tai Wo Footbridge complete (across Fi 1 ....į 

Date Revision Checked Approved 07-Nov-16 WP Rev 4 17-Aug-17 WP Rev 5 29-Mar-18 WP Rev 6 03-Dec-18 WP Rev 7

ity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	Total								
		Duration					Float	JFI	201 A J				N J		)16   J A S O    J F  A
THBF0660	Installation of Traffic Signal Poles at TWSR-W S/B (Tai hang Junction)	21	25-Mar-19	18-Apr-19	09-Apr-19	07-May-19	12								
THBF0670	E-prom ordering by EMSD (Tai hang Junction)	90	20-Nov-18	17-Feb-19	04-Dec-18	03-Mar-19	14			 					
THBF0680	Ducting & cable draw inspection by EMSD (Tai hang Junction)	6	25-Mar-19	30-Mar-19	29-May-19	04-Jun-19	51			 					
THBF0690	Ducting & cable draw rectification (Tai hang Junction)	12	01-Apr-19	15-Apr-19	05-Jun-19	19-Jun-19	51	 	·····	 					
THBF0692	PCCW cable installation & connection (Tai hang Junction)	6	18-May-19	24-May-19	20-Jun-19	26-Jun-19	27	 		 					
THBF0694	EMSD cable & equipment installation (Tai hang Junction)	21	18-May-19	12-Jun-19	01-Jun-19	26-Jun-19	12	 +		 					
THBF0696	Traffic Signal Installation complete (Tai hang Junction)	0		12-Jun-19		26-Jun-19	12	 		 					
TWSR-Wes	st Construction														
	Road Works														
Ch 5880-67		0		04 Aug 40		00 km 40	50	 ļļ		 					
RDZ20140	Z2 (CH5880-6930) : New TWSR- West Road works (2 lanes) complete			24-Aug-19		26-Jun-19	-50	 ļ		 					·····
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	157	01-Nov-16 A	20-May-17 A						 		]			
RDZ20170	Z2 : New TWSR-West D&R Works (lane 2)	63	12-Jun-19	24-Aug-19	08-Mar-19	25-May-19	-76								
	ier Along Fanling Highway S/B														
	5880-5935)-FH S/B Side									 					
Noise Barr	NB46A - Sheet piling & Excavation	103	03-Jun-17 A	03-Oct-17 A				 		 					
NB02210	NB46A - Footing & Wall Structure	113	17-Jun-17 A	31-Oct-17 A				 		 					
NB02220	NB46A- backfilling	16	01-Nov-17 A	18-Nov-17 A				 		 					
NB02220	NB46A - NB production	51	03-Oct-17 A	22-Nov-17 A				 		 					
								 ļ		 					
NB02240	NB46A - NB post & panel installation	7	23-Nov-17 A	30-Nov-17 A				 		 		ļļ.			
NB03070	VO70 issued	0	04-May-16 A					 		 				• V	O70 issued
NB03230	Sheet piling for DN600 watermain diversion work (VO70)	15	20-Feb-17 A	08-Mar-17 A						 					
NB03240	Excavation & DN600 pipe laying	58	08-Mar-17 A	20-May-17 A											
NB03300	DN600 water connection by WSD	2	22-May-17 A	23-May-17 A											
NB03310	DN600 watermain diversion complete	0		23-May-17 A						 					23-May-17 A
NB51 (Ch.5	935-6055)-FH S/B Side														I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I
Noise Barr		0	44.04					 ļ		 					· · · · · · · · · · · · · · · · · · ·
NB02250	NB51 ID1-3 (0-25m), 18nos Predrilling (Deleted notified on 14-5, VO issued accordingly)	0	14-May-14 A	14-May-14 A				 		 					
NB02260	NB51 ID1-3 (0-25m) 18nos Piling- (Deleted notified on 14-5, VO issued accordingly)	0	14-May-14 A	14-May-14 A				 ļ		 					
NB02270	NB51 ID1-3 (0-25m) - Sheet piling & Excavation	19	22-Jan-15 A	12-Feb-15 A											
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	62	01-Dec-16 A	22-Feb-17 A											
NB02290	NB51 ID1-3 (0-25m) - backfilling	46	23-Feb-17 A	21-Apr-17 A											
NB02300	NB51 ID1-3 (0-25m) - NB production	472	20-May-17 A	03-Sep-18 A				 		 					**
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	5	20-Nov-18	24-Nov-18	21-Jun-19	26-Jun-19	172	 		 					
NB02320	NB51(25-118m) - Sheet piling & Excavation	105	29-Oct-16 A	11-Mar-17 A				 		 					
NB02330	NB51(25-118m) - Footing & Wall Structure	88	13-Mar-17 A	30-Jun-17 A				 		 					
NB02340	NB51(25-118m)- backfilling	118	03-May-17 A	20-Sep-17 A				 		 					
NB02350	NB51(25-118m) - NB production	30	01-Jun-17 A	30-Jun-17 A				 		 	·····				
NB02360	NB51(25-118m) - NB post & panel installation	17	03-Jul-17 A	21-Jul-17 A				 		 					
NB03360	NB51(bay 15) - Footing & Wall Structure & backfill	35	06-May-19	15-Jun-19	10-May-19	20-Jun-19	4	 		 					
NB03370	NB51(bay 15) - NB post & panel installation	5	17-Jun-19	21-Jun-19	21-Jun-19	26-Jun-19	4	 		 					
11200010		5	17 5011-13	21 Jun-13	21 3011-13	20-Jun-13	4								

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 21 of 48 Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange



	Page 21 of 48 (3-Dec-18)																
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	29-Mar-18	WP Rev 6		
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Rev 07						'P rev 7								Page 22	of 48 (3-D
vity ID	Activity Name	Original Start Duration	Finish	Late Start	Late Finish	Total Float 13	2014		2015	2016	2017	2018		2019	2020
NB02370	NB52 - Sheet piling & Excavation	177 04-Nov-16 A	. 17-Jun-17 A												F A JJ
NB02380	NB52 - Footing & Wall Structure	192 18-Nov-16 A	20-Jul-17 A												
NB02390	NB52- backfilling	79 18-May-17 A	20-Aug-17 A												
NB02400	NB52 - NB production	64 18-May-17 A	20-Jul-17 A												
NB02410	NB52 - NB post & panel installation	65 16-Jun-17 A	31-Aug-17 A												
NB03380	NB52 (bay 21)- Footing & Wall Structure & backfill	50 07-Aug-18 A	05-Oct-18 A												
NB03390	NB52 (bay 21) - NB post & panel installation	5 20-Nov-18	24-Nov-18	21-Jun-19	26-Jun-19	172									
NB53 (Ch.6	125-6300) -FH S/B Side (MTRC I&P Area)														
Noise Barr	ier Works	00 00 A 45 A	00 M 45 A												
NB02420	Coordinate with MTRC for Precautionary Measure	32 20-Apr-15 A													
NB02430	Precautionary Measure installation	21 20-Jul-18 A	13-Aug-18 A												
NB02440	NB53 (0-100m) - Sheet piling & Excavation	54 09-Aug-18 A										· · · · · · · · · · · · · · · · · · ·			
NB02450	NB53 (0-100m) - Footing & Wall Structure	80 13-Aug-18 A													
NB02460	NB53 (0-100m)- backfilling	50 20-Nov-18	19-Jan-19	27-Apr-19	26-Jun-19	127									
NB02470	NB53 (0-100m) - NB production	45 20-Nov-18	03-Jan-19	07-May-19	20-Jun-19	168									
NB02480	NB53 (0-100m) - NB post & panel installation	5 04-Jan-19	09-Jan-19	21-Jun-19	26-Jun-19	136							P		
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	49 18-Aug-18 A	16-Oct-18 A												
NB02520	NB53 ID2-3 (100-125m) - Footing & Wall Structure	88 18-Oct-18 A	31-Jan-19	04-Feb-19	17-Apr-19	62									
NB02530	NB53 ID2-3 (100-125m) - backfilling	50 01-Feb-19	02-Apr-19	18-Apr-19	20-Jun-19	62									
NB02540	NB53 ID2-3 (100-125m) - NB production	45 01-Feb-19	17-Mar-19	07-May-19	20-Jun-19	95									
NB02550	NB53 ID2-3 (100-125m) - NB post & panel installation	5 03-Apr-19	09-Apr-19	21-Jun-19	26-Jun-19	62							þ		
NB02560	NB53 (125-180m) - Sheet piling & Excavation	18 02-Mar-15 A	22-Mar-15 A												
NB02570	NB53 (125-180m) - Footing & Wall Structure	64 23-Mar-15 A	10-Jun-15 A												
NB02572	NB53 (125-180m) - Drainage Works	18 21-Mar-19	11-Apr-19	22-May-19	12-Jun-19	48									
NB02574	NB53 (125-180m) - Drainage Works (VO on 14-6-18 - add 2 manhole)	12 12-Apr-19	29-Apr-19	13-Jun-19	26-Jun-19	48									
NB02580	NB53 (125-180m)- backfilling	24 11-Jun-15 A	10-Jul-15 A						•						
NB02590	NB53 (125-180m) - NB production	828 20-May-16 A	25-Aug-18 A												
NB02600	NB53 (125-180m) - NB post & panel installation	5 20-Nov-18	24-Nov-18	21-Jun-19	26-Jun-19	172									
NB55 (Ch.6	300-6360)-FH S/B Side (MTRC I&P Area)														
Noise Barr NB02610	ier Works Coordinate with MTRC for Precautionary Measure	51 01-Aug-14 A	30-Sep-14 A												
NB02620	Precautionary Measure installation	20 02-Oct-14 A	· ·												
NB02630	NB55 - Sheet piling & Excavation	60 27-Oct-14 A													
NB02640	NB55 - Footing & Wall Structure		· ·	00 4== 40	44 May 40	40									
NB02642	NB55 - Drainage Works	18 21-Feb-19	13-Mar-19	23-Apr-19	14-May-19	48									
NB02644	NB55 - Drainage Works (VO on 14-6-18 - add 1 manhole)	6 14-Mar-19	20-Mar-19	15-May-19	21-May-19	48					<u></u>		U		
NB02650	NB55- backfilling	161 10-Sep-16 A													
NB02660	NB55 - NB production	863 15-Jan-16 A										· · · · · · · · · · · · · · · · · · ·			
NB02670	NB55 - NB post & panel installation	5 20-Nov-18	24-Nov-18	21-Jun-19	26-Jun-19	172									
	360-6400)-FH S/B Side (MTRC I&P Area)														
Noise Barr NB02680	Coordinate with MTRC for Precautionary Measure	33 01-Aug-14 A	09-Sep-14 A					•							
NB02690	Precautionary Measure installation	33 10-Sep-14 A	20-Oct-14 A												

V	Remaining Level of Effort	Project File:WP Rev 07	Contract No. HY/2012/06	
	Actual Level of Effort			
	Actual Work	Layout: WP rev 7	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange	
	Remaining Work	Data Date:20-Nov-18		
	Critical Remaining Work	Data Date:20-NOV-18	Works Programme - WP Rev. 7	
•	♦ Milestone	Page 22 of 48		
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	Date	Revision	Checked	Approved
	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		

/ity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	P rev 7							
ty ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float			2014				
NB02700	NB56 - Sheet piling & Excavation	12	21-Oct-14 A	03-Nov-14 A				<u>יקאע ו</u>						
NB02710	NB56 - Footing & Wall Structure	91	20-Dec-14 A	20-Apr-15 A										 
NB02712	NB56 - Drainage Works	6	14-Feb-19	20-Feb-19	22-May-19	28-May-19	78		•   • • • • •					 
NB02714	NB56 - Drainage Works (VO on 14-6-18 - add 4 manhole)	24	21-Feb-19	20-Mar-19	29-May-19	26-Jun-19	78		-					 
NB02720	NB56- backfilling	75	20-Apr-15 A	20-Jul-15 A										 
NB02730	NB56 - NB production	827	20-Feb-16 A	26-May-18 A					-					 
NB02740	NB56 - NB post & panel installation	5	20-Nov-18	24-Nov-18	21-Jun-19	26-Jun-19	172		-					 
NB61 (Ch.64	400-6560)-FH S/B Side (MTRC I&P Area)													 
Noise Barr	ier Works		1											 
NB02750	Coordinate with MTRC for Precautionary Measure	43	19-Mar-14 A	14-May-14 A						<b></b>				 
NB02760	Precautionary Measure installation	27	15-May-14 A	16-Jun-14 A										 
NB02770	NB61 (0-50m) - Sheet piling & Excavation	64	21-Aug-17 A	06-Nov-17 A										
NB02780	NB61 (0-50m) - Footing & Wall Structure	46	08-Nov-17 A	03-Jan-18 A										
NB02782	NB61 (0-50m) - Drainage Works	12	08-Jan-19	21-Jan-19	12-Apr-19	29-Apr-19	78							
NB02784	NB61 (0-50m) - Drainage Works (VO on 14-6-18 - add 3 manhole)	18	22-Jan-19	13-Feb-19	30-Apr-19	21-May-19	78							
NB02790	NB61 (0-50m)- backfilling	274	20-Jan-18 A	21-Dec-18	24-May-19	26-Jun-19	149							 
NB02800	NB61 (0-50m) - NB production	331	20-Jan-18 A	16-Dec-18	25-May-19	20-Jun-19	186		•					 
NB02810	NB61 (0-50m) - NB post & panel installation	5	17-Dec-18	21-Dec-18	21-Jun-19	26-Jun-19	149							 
NB02820	NB61 (50-160m) - Sheet piling & Excavation	27	17-Jun-14 A	18-Jul-14 A					-					 
NB02830	NB61 (50-160m) - Footing & Wall Structure	171	19-Jul-14 A	10-Feb-15 A					-	•				 
NB02832	NB61 (50-160m) - Drainage Works	24	07-Dec-18	07-Jan-19	07-Feb-19	06-Mar-19	48		-					 
NB02834	NB61 (50-160m) - Drainage Works (VO on 14-6-18 - add 6 manhole)	36	08-Jan-19	20-Feb-19	07-Mar-19	18-Apr-19	48							 
NB02840	NB61 (50-160m) - backfilling	42	27-Feb-15 A	20-Apr-15 A					-					 
NB02850	NB61 (50-160m) - NB production	45	20-Nov-18	03-Jan-19	07-May-19	20-Jun-19	168							 
NB02860	NB61 (50-160m) - NB post & panel installation	5	04-Jan-19	09-Jan-19	21-Jun-19	26-Jun-19	136							 
NB61A (Ch 6	6560-6745)-FH S/B Side (MTRC I&P Area)													 
Noise Barr														
NB02870	Coordinate with MTRC for Precautionary Measure	85	13-Nov-13 A	04-Mar-14 A					<b>—</b>					
NB02880	Precautionary Measure installation	16	03-Mar-14 A	20-Mar-14 A										
NB02890	NB61A (0-50m) - Sheet piling & Excavation	9	26-Apr-14 A	08-May-14 A					-					 
NB02900	NB61A (0-50m) - Footing & Wall Structure	114	30-May-14 A	15-Oct-14 A										 
NB02902	NB61A (0-50m) - Drainage Works	16	12-Nov-18 A	29-Nov-18	18-Jan-19	28-Jan-19	48							 
NB02904	NB61A (0-50m) - Drainage Works (VO on 16-10-18 - add 1 manhole)	6	30-Nov-18	06-Dec-18	29-Jan-19	04-Feb-19	48		-					 
NB02910	NB61A (0-50m)- backfilling	87	20-Jan-15 A	13-May-15 A										 
NB02920	NB61A (0-50m) - NB production	957	20-Feb-16 A	03-Oct-18 A										 
NB02930	NB61A (0-50m) - NB post & panel installation	5	20-Nov-18	24-Nov-18	21-Jun-19	26-Jun-19	172		-					 
NB02940	NB61A ID2-3 (50-75m), 18nos Predrilling (Deleted notified on 14-5,	0	14-May-14 A	14-May-14 A					-					 
NB02950	VO issued accordingly) NB61A ID2-3 (50-75m) 18nos Piling- (Deleted notified on 14-5, VO	0	14-May-14 A	14-May-14 A					-					 
NB02960	issued accordingly) NB61A ID2-3 (50-75m)- Sheet piling & Excavation	54	20-Jan-15 A	31-Mar-15 A										 
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	1102	01-Apr-15 A	29-Dec-18	23-Mar-19	06-May-19	101							 
NB02980	NB61A ID2-3 (50-75m)- backfilling	20	31-Dec-18	23-Jan-19	28-May-19	20-Jun-19	119							 
NB02990	NB61A ID2-3 (50-75m) - NB production	45	29-Dec-18	12-Feb-19	07-May-19	20-Jun-19	128							 
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	5	12-Feb-19	18-Feb-19	21-Jun-19	26-Jun-19	104							 
NECCOUR		5	12100-13	10100-13	21 JUII-13	20 Juli-13	104							
Remaining Lev						Contract	No. H	Y/2012	/06					
Actual Level of Actual Work	Layout: WP rev 7			Wideni	ing of Fanli	ng Highway	Tai H	ang to	Wo	Hop S	Shek In	tercha	nge	
Remaining Wo	nrk.				J Willi	J				- 1- 4			<b>J</b> -	

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		Duration	Sidii	FILIISII	Late Start		Float	13		2014		)15				2016	2017	
NB03010	NB61A (75-190m) - Sheet piling & Excavation	49	22-Apr-14 A	20-Jun-14 A				JA				<u>i JI A</u>	S <mark>N</mark>	J				
NB03020	NB61A (75-190m) - Footing & Wall Structure	112	02-Jun-14 A	15-Oct-14 A								 						
NB03022	NB61A (75-190m) - Drainage Works	28	05-Nov-18 A	06-Dec-18	25-Feb-19	13-Mar-19	78					 						
NB03024	NB61A (75-190m) - Drainage Works (VO on 16-10-18 - add 4 manhole)	24	07-Dec-18	07-Jan-19	14-Mar-19	11-Apr-19	78					 						
NB03030	NB61A (75-190m)- backfilling	31	18-Oct-14 A	22-Nov-14 A														
NB03040	NB61A (75-190m) - NB production	805	20-Feb-16 A	04-May-18 A											1			
NB03050	NB61A (75-190m) - NB post & panel installation	169	05-May-18 A	24-Nov-18	21-Jun-19	26-Jun-19	172					 						
Box Culvert	ID3 Works																	
VO58 Exte	nsion of ID3										1	 						
ID30090	VO58 Issued	0	19-Sep-16 A													VO58 Issued		
ID30095	Preparation work	57	20-Oct-16 A	24-Dec-16 A								 						
ID30100	Demolish existing wing walls (N&S)	40	08-Feb-17 A	25-Mar-17 A							••••••	 						
ID30110	Rock fill to the box culvert level	7	27-Feb-17 A	06-Mar-17 A								 						
ID30120	Box culvert extension structure	7	27-Mar-17 A	03-Apr-17 A								 						
				· ·	10 Eab 10	06 Mar 10	7					 						
ID30130	Backfill	20	01-Feb-19	26-Feb-19	12-Feb-19	06-Mar-19						 ļ						
ID30140	Wing Wall Construction	50	01-Dec-18*	31-Jan-19	10-Dec-18	11-Feb-19	7											
Fanling Hig	hway Construction																	
	Road Works										<u> </u>	 						
Ch 5880-67		0	25 Cap 17 A									 						Z2
RDZ41190	Z2 (CH5880-6740) : Fanling Highway Road works Start	0	25-Sep-17 A									 						
RDZ41200	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 1) (Modify to final road level)	26	26-Aug-19	25-Sep-19	27-May-19	26-Jun-19	-76											
RDZ41210	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 2)(Modify to final road level)	54	20-Feb-18 A	27-Apr-18 A								 						
RDZ41220	Z2 (CH5880-6740): Fanling Highway N/B - D&R works (lane 3)	65	25-Oct-17 A	12-Jan-18 A							•	 						
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	89	25-Sep-17 A	12-Jan-18 A							·	 						
RDZ41240	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 4)	177	25-Oct-17 A	02-Jun-18 A								 						
RDZ41250	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 3)	17	04-Jun-18 A	23-Jun-18 A								 						
									ļ			 						
RDZ41260	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 2)	23	25-Jun-18 A	22-Jul-18 A														
RDZ41270	Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 1)	90	27-Feb-19	18-Jun-19	07-Mar-19	26-Jun-19	7											
RDZ41280	Z2 (CH5880-6740) : Fanling Highway Road works (8 lanes) complete	0		25-Sep-19		26-Jun-19	-76					 						
Other Worl	(S										-							
Site Format											-							
General												 						
Z2.P2N.1470	Liaison with relevant villages houses's owner and related parties	30	18-Jul-13 A	21-Aug-13 A														
Z2.P2N.1480	Submission of contractor's design for site formation	28	26-Jul-13 A	27-Aug-13 A								 						
Z2.P2N.1500	Submission of DIA & SIA report	14	12-Aug-13 A	27-Aug-13 A					-			 						
Z2.P2N.1510	Approval of contractor's Design by Engineer/Gov't Authorities	21	28-Aug-13 A	21-Sep-13 A					 	+		 						
Z2.P2N.1530	G.I. & Temporary access road construction	21	17-Aug-13 A	10-Sep-13 A								 						
				· · · · · · · · · · · · · · · · · · ·								 						
Z2.P2N.1540	Site clearance	14	10-Sep-13 A	26-Sep-13 A				ļ				 						
Z2.P2N.1550	SA324A: Tree Removal Works	15	26-Sep-13 A	15-Oct-13 A														
Z2.P2N.1560	Site fomration work in according to approved contractor's design	60	16-Oct-13 A	24-Dec-13 A										T				
Z2.P2N.1580	Handover inspection	0	27-Dec-13 A	27-Dec-13 A				1		1		 						
Site Clearar	nce & Demolition of Existing Structure										+			-				—
Contract C											+			+				
MCLT1000	Engineer Excise Section 3b Option	0		12-Jul-14 A						12-Jul-14 A 🔶 Enginee		 4						

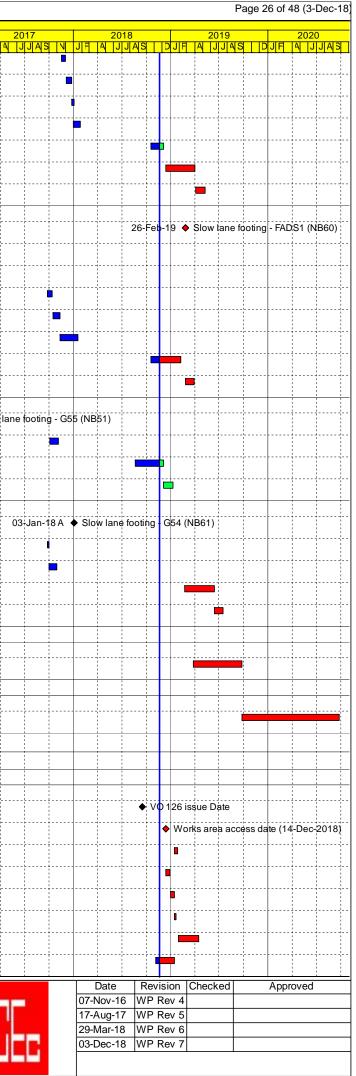
Remaining Level of Effort	Project File:WP Rev 07	Contract No. HY/2012/06			
Actual Level of Effort					1
Actual Work	Layout: WP rev 7	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange			I
Remaining Work	Data Data: 00 Nov. 40				l
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Milestone	Page 24 of 48			ηe	I
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		•	Z2 (	CH58	80-67	40) : F	an	lin	g Higl	hway	Road	works	Start			
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e -	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
_	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		
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Rev 07	Activity Norma		Chart	Finish			/P rev 7											Page	e 25 of 48	(3-Dec-
ty ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	3	2014		2015	2016		2017		2018		2019		2020
MCLT1010	Sublet Design & Build Contractor	45	14-Jul-14 A	03-Sep-14 A																
MCLT1020	Sublet Demolition Contractor	45	14-Jul-14 A	03-Sep-14 A																
MCLT1030	Design Preparation	249	06-Aug-14 A	12-Jun-15 A																
MCLT1040	Engineer approval	25	13-Jun-15 A	14-Jul-15 A																
MCLT1045	Searching Land owner for DLO exemption application	84	24-Sep-14 A	16-Dec-14 A																
MCLT1050	Apply cert for exemption by DLO by Engineer	25	01-Dec-14 A	31-Dec-14 A																
MCLT1060		0		31-Dec-14A							A Dobian a	vailable for co	potruction							
	Design available for construction		15-Jul-15 A	17.1.15.4																
MCLT1070	Method Statement submission & Demolish House for New MCLT construction (Additional requirement)	32	09-Dec-14 A	17-Jan-15 A						<b>_</b>										
MCLT1078	Additional site formation work for New MCLT location	15	25-Dec-14 A	14-Jan-15 A						•										
MCLT1080	Construct New MCLT (Structure)	242	21-Jul-15 A	20-May-16 A																
MCLT1090	New MCLT - finishes works	503	20-May-16 A	30-Jan-18 A																
MCLT1100	New MCLT completion	0		30-Jan-18 A										30-Jan	18 A 🔶 New N	ACLT com	oletion			
MCLT1110	VO - change New MCLT location from SA323A to SA322A	0	24-Sep-14 A						♦ VO	change I	New MCLT loo	cation from SA	323A to \$A	322A						
General			1		1															
Z2.P2N.1000		30	07-Jul-14 A	09-Aug-14 A																
Z2.P2N.1010	Submission of contractor's design for site formation	28	11-Aug-14 A	12-Sep-14 A																
Z2.P2N.1050	Temporary access road construction	14	22-Sep-14 A	09-Oct-14 A																
Z2.P2N.1060	Site clearance	10	26-Sep-14 A	09-Oct-14 A					P											
Z2.P2N.1070	SA322A: Tree Removal Works	14	10-Oct-14 A	25-Oct-14 A					•											
Z2.P2N.1075	Hse 116 Vacation Date	0		09-Jan-15 A					09-Jan-15 A	♦ Hse 11	6 Vacation Da	ite								
Z2.P2N.1080		51	17-Nov-14 A	17-Jan-15 A																
Z2.P2N.1100	no. 115, 116 & 117) Handover inspection	0	17-Jan-15 A	17-Jan-15 A						1										
TCSS Work	ks																			
	Construction Works																			
TCSS0170	Sign Gantry Factory production - AADS1	30	02-Apr-19	11-May-19	12-Mar-19	16-Apr-19	-18													
TCSS0190	Sign Gantry Factory production - ADS1	30	28-Feb-19	03-Apr-19	07-Feb-19	13-Mar-19	-18													
TCSS0200	Sign Gantry Factory production - FADS1	30	21-Jan-19	26-Feb-19	03-Jan-19	08-Feb-19	-15													
TCSS0210	Sign Gantry Factory production - G55	30	31-Oct-18 A	04-Dec-18	18-Dec-18	04-Jan-19	24													
TCSS0220	Sign Gantry Factory production - G54	30	10-May-19	14-Jun-19	15-Apr-19	23-May-19	-18													
<b>Civil Prov</b>	ision for TCSS Works																			
TCSS2140	M10 for CCTV	14	25-May-19	11-Jun-19	11-Jun-19	26-Jun-19	13													
TCSS2180	Pillar box, isolator & associated duct work - PL204 for G30 & G55	30	21-Aug-19	25-Sep-19	22-May-19	26-Jun-19	-76													
TCSS2190	Pillar box, isolator & associated duct work - PL205 for G54 & M10	30	21-Aug-19	25-Sep-19	22-May-19	26-Jun-19	-76													
TCSS2200	Pillar box, isolator & associated duct work - PL206 for G32	30	19-Aug-19	23-Sep-19	22-May-19	26-Jun-19	-74													
TCSS2270	Civil Provision for TCSS works available (Zone 2)	0		25-Sep-19		26-Jun-19	-76										25-	Sep-19 🔶 C	vil Provisic	on for
AADS1																				
TCSS1400	Slow lane footing - AADS1 (NB43A)	0		03-Dec-18		16-Apr-19	109		· · · · · · · · · · · · · · · · · · ·					L L	0	3-Dec-18	Slow la	ne footing - A	ADS1 (NB	43A)
TCSS1410	Fast lane footing - AADS1 (CH5880, N/B)	44	25-Sep-17 A	18-Nov-17 A																
TCSS1660	TTA application & Approval - AADS1	90	19-Jan-19	11-May-19	28-Dec-18	16-Apr-19	-18											•		
TCSS1670	Sign Gantry Erection - AADS1	28	13-May-19	14-Jun-19	17-Apr-19	23-May-19	-18													
FVMS1 (De	eleted by DWG HY/2012/06/SK/0866)																			
TCSS1420	Slow lane footing -FVMS1 (NB50A)	0		15-May-19		08-Jul-20	342									1	5-May-19	<ul> <li>Slow lane</li> </ul>	fopting -F\	/M\$1 (
ADS1																				
TCSS1440	Slow lane footing - ADS1 (NB50A)	0		03-Apr-19		13-Mar-19	-18									03-	Apr-19 🔶	Slow lane for	ting - ADS	1 (NB
Remaining Le	evel of Effort Project File:WP Rev 07					Contrac	t No. H	Y/2012/0	6						Date		ision Ch	ecked	Approve	ed
Actual Level Actual Work	Lovout: M/D roy 7			\ <b>\</b> /;	na of Farl					tore -	2000				07-Nov- 17-Aug-		Rev 4 Rev 5			
Remaining W	Vork Data Date:20-Nov-18			widen	ng or Fani			-	o Hop Shek li	itercha	ange				17-Aug- 29-Mar-					
Critical Rema	aining work					Works Prog	gramme	e - WP R	ev. 7						03-Dec-	18 WP				
<ul> <li>Crit. Mileston</li> </ul>	Page 25 of 48																			

vity ID	Activity Name	Original	Start	Finish	Late Start	W Late Finish	Total								
		Duration	Clart				Float		2014 		2015 JFAJJA	SIN		2016	
TCSS1930	Predrilling (6no, 0.19m mini pile)	13	18-Nov-17 A	03-Dec-17 A								<u>4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>			
TCSS1940	Piling (6nos, 0.19m mini pile)	18	04-Dec-17 A	25-Dec-17 A											
TCSS1950	Sheeting & excavation (4m)	6	26-Dec-17 A	03-Jan-18 A											
TCSS1960	Fast lane footing - ADS1 (CH6400, N/B)	22	02-Jan-18 A	26-Jan-18 A											
TCSS1970	Back filling & reinstatemetn road work (2m)	40	20-Oct-18 A	06-Dec-18	25-Feb-19	13-Mar-19	79								
TCSS1980	TTA application & Approval - ADS1	90	14-Dec-18	03-Apr-19	23-Nov-18	13-Mar-19	-18								
TCSS1990	Sign Gantry Erection - ADS1	28	04-Apr-19	11-May-19	14-Mar-19	16-Apr-19	-18								
FADS1			-												
TCSS1460	Slow lane footing - FADS1 (NB60)	0		26-Feb-19		08-Feb-19	-15								
TCSS2000	Predrilling (6no, 0.19m mini pile)	8	24-Aug-15 A	01-Sep-15 A											
TCSS2010	Piling (6nos, 0.19m mini pile)	26	02-Sep-15 A	03-Oct-15 A							1				
TCSS2020	Sheet piling & excavation (4m)	16	25-Sep-17 A	14-Oct-17 A											
TCSS2030	Fast lane footing - FADS1 (CH6830, N/B)	22	16-Oct-17 A	10-Nov-17 A											
TCSS2040	Back filling & reinstatemetn road work (2m)	56	11-Nov-17 A	18-Jan-18 A											
TCSS2050	TTA application & Approval - FADS1	90	20-Oct-18 A	07-Feb-19	21-Nov-18	08-Feb-19	1								
TCSS2060	Sign Gantry Erection - FADS1	28	27-Feb-19	30-Mar-19	09-Feb-19	13-Mar-19	-15								
	Sign Ganty Liection - TADST	20	27-1 60-19	50-Wai-19	09-160-19	13-1010-19	-15								
G55 TCSS1480	Slow lane footing - G55 (NB51)	0		09-Dec-16 A									0	9-Dec-16 A	Slow lar
TCSS1490	Fast lane footing - G55 (CH5970, S/B)	28	04-Oct-17 A	07-Nov-17 A											
TCSS1740	TTA application & Approval - G55	89	20-Aug-18 A	04-Dec-18	18-Dec-18	04-Jan-19	24								
TCSS1750	Sign Gantry Erection - G55	28	05-Dec-18	09-Jan-19	05-Jan-19	08-Feb-19	24								
		20	00 200 10				- '								
<b>G54</b> TCSS1500	Slow lane footing - G54 (NB61)	0		03-Jan-18 A											
TCSS2080	Sheeting & excavation (4m)	6	25-Sep-17 A	30-Sep-17 A											
TCSS2090	Fast lane footing - G54 (CH6470, S/B)	23	02-Oct-17 A	31-Oct-17 A											
TCSS2110	TTA application & Approval - G54	90			31-Jan-19	23-May-19	-18								
TCSS2120	Sign Gantry Erection - G54	28	15-Jun-19	18-Jul-19	24-May-19	26-Jun-19	-18								
		20	15-5011-13	10-501-13	24-May-13	20-0011-13	-10								
Landscape S															
	Landscape soft work Zone2	150	26-Mar-19	25-Sep-19	05-Jan-19	09-Jul-19	-66								
Establishme	ent Works														
Establishm Z2.EW.1000	ent Works Establishment work Zone2	205	00 0 - 40	04.0-= 00	40.1-140	00, 141,00	70								
		365	26-Sep-19	24-Sep-20	10-Jul-19	08-Jul-20	-78								
	Tai Hang (VO126)														
	<b>Γai Hang (VO126)</b> ai Hang (VO126)														
	Tai Hang (VO126)														
PL00900	VO 126 issue Date	0	18-Sep-18 A												
PL01000	Works area access date (14-Dec-2018)	0	14-Dec-18*		13-Dec-18		0								
PL01010	CLP relocation of Overhead Cable	12	15-Jan-19*	28-Jan-19	15-Jan-19	28-Jan-19	0								
PL01020	Excavation	12	14-Dec-18	29-Dec-18	21-Dec-18	07-Jan-19	6								
PL01030	Footing	12	31-Dec-18	14-Jan-19	08-Jan-19	21-Jan-19	6								
PL01040	backfill	6	15-Jan-19	21-Jan-19	22-Jan-19	28-Jan-19	6								
PL01050	Pai Lau Superstructure	65	29-Jan-19	17-Apr-19	29-Jan-19	17-Apr-19	0								
PL01060	Material submission for finishes works	60	05-Nov-18 A	16-Jan-19	20-Nov-18	16-Jan-19	0								
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Remaining Level of Actual Level of	of Effort					Contrac	τ ΝΟ. Η	Y/2012/06							
Actual Work Remaining Wo	Layout: WP rev 7			Widen	ing of Fanli	ing Highway	- Tai Ha	ang to Wo	Hop S	Shek lı	nterchange				
Critical Remai	Data Date:20-Nov-18					Works Prog	gramme	- WP Rev	1.7						
<ul> <li>Milestone</li> </ul>	Page 26 of 48		1				-								



P Rev 07								/P rev 7	_										
tivity ID	Activity Name		Original Duration	Start	Finish	Late Start	Late Finish	Total Float	t 13			20	)14		2	015	20		
PL01070	Material submission approva	l	30	17-Jan-19	22-Feb-19	17-Jan-19	22-Feb-19	0		<u> </u>				<u>1   1</u>		<u>่มมุศุ</u> จ			
PL01080	Material Order & delivery on	site	45	23-Feb-19	17-Apr-19	23-Feb-19	17-Apr-19	0									 		
PL01090	Finishes works		41	18-Apr-19	10-Jun-19	18-Apr-19	10-Jun-19	0									 		
PL01100	VO 126 completion		0		10-Jun-19		10-Jun-19	0									 		
South Buff	er Zone 1 (SBZ1)	(within Zone 2)(Ch.6740	to 693	80)															
General																			
General General										_						-	 		
POSSA328a	Tree Felling/Transplant		30	29-Aug-14 A	06-Oct-14 A												 		
POSSA328a10	Site Clearance/ Trip Pit etc		29	01-Sep-14 A	07-Oct-14 A								••••				 		/
POSSA329a	Tree Felling/Transplant		49	19-Jul-14 A	15-Sep-14 A												 		
POSSA329a10	Site Clearance/ Trip Pit etc		28	16-Sep-14 A	20-Oct-14 A									i			 		
Noise Barrie	er Along TWSR-Wes	st and Laying New Utilities																	-
NB63A (Ch.6	6710-6840)-TWSR We																		
Noise Barri NB01070	er Works NB63A-1 - Footing & Wall St	ructure (ch0-10.7) - 1 bays	60	28-Jul-14 A	08-Oct-14 A												 		
NB01080	NB63A-1 - backfilling		10	01-Jun-16 A	13-Jun-16 A												 		
NB01090	NB63A-1 - NB production		107	20-May-16 A	03-Sep-16 A												 		
NB01100	NB63A-1 - NB post installation	n	5	05-Sep-16 A	09-Sep-16 A												 		
NB01120	•	ructure (ch10.7-24.2) - 1 bays	31	18-Jan-16 A	02-Mar-16 A												 		
NB01130	NB63A-2 - backfilling		13	18-Jun-16 A	04-Jul-16 A												 		
NB01140	NB63A-2 - NB production		44	20-May-16 A	02-Jul-16 A												 		
NB01150	NB63A-2 - NB post installation	n	10	20-Aug-16 A	31-Aug-16 A												 		
NB01170	•	ructure (ch24.2-86.9) - 5 bays	192	18-Jan-16 A	15-Sep-16 A												 	_	
NB01180	NB63A-3 - backfilling		27	01-Jun-16 A	04-Jul-16 A												 		
NB01190	NB63A-3 - NB production		105	03-Jun-16 A	15-Sep-16 A												 		
NB01200	NB63A-3 - NB post installation	n	266	17-Sep-16 A	•												 		
	·		200	IT-Sep-10A	10-Aug-17 A					_									
TSZ10850	Sheet Piling & Excavation(~6	ter Main Fire Main Works Sim below ground) (along NB63A)	40	18-Jan-16 A	12-Mar-16 A												 •		
TSZ10860	DSD Trunk Sewer laying (alo	ng NB63A)	214	14-Mar-16 A	30-Nov-16 A												 		
TSZ10880	Watermain installation (along	g NB63A)	144	02-Nov-16 A	06-May-17 A												 		
TSZ10890	Firemain installation (along N	NB63A)	66	16-Feb-17 A	10-May-17 A												 		
Undergrou	nd Utility Works																		
UUZ20210		companies (Along NB63A, 125m)	148	18-Mar-16 A	15-Sep-16 A												 		
	4A (Ch.6860-6920)-TV	VSR West Side																	
Noise Barri NB000900	er Works Pending for Tree felling perm	it in area SA328 (REI32)	133	10-Feb-14 A	23-Jul-14 A								<b></b>				 		
NB001000	NB64 & NB64A -Pre-drilling		103	15-May-14 A													 		
NB001010	NB64 & NB64A -piling (0.19r	n -34no) - rigs 1 & 2	23	22-Nov-14 A	18-Dec-14 A							·					 		
NB001030	NB64 & NB64A -Footing & W		245	19-May-15 A													 		
NB001040	NB64 & NB64A -backfilling		12	27-Jan-17 A	17-Feb-17 A												 		
NB001050	NB64 & NB64A -NB production	on	43	30-Jan-16 A	12-Mar-16 A												 		
NB001060	NB64 & NB64A -NB post & p		368	14-Mar-16 A	17-Jun-17 A												 		
NB003060	NB64A -Footing & Wall Struc		81	19-Aug-17 A	24-Nov-17 A												 		
NB003350	Bus Shelter footing & shelter	-	191	21-May-18 A	08-Jan-19	10-May-19	26-Jun-19	137									 		
	-		191	21-11/10y-10A	00-3411-19	10-111ay-19				1015									
Remaining Lev Actual Level of	f Effort	roject File:WP Rev 07					Contrac	t No. F	1Y/2	2012	/06								
Actual Work Remaining Wo		ayout: WP rev 7			Wideni	ing of Fanli	ing Highway	- Tai H	lan	g to	Wo	Нор	She	k Inte	ercha	nge			
Critical Remain	חו	ata Date:20-Nov-18					Works Prog	gramm	e - '	WP	Rev	. 7							
<ul> <li>Milestone</li> <li>Crit. Milestone</li> </ul>	P	age 27 of 48																	

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,		Duration					Floa		2014 JJASO	JFA	2015	2016 A JJJ <i>A</i>	JF A
DSD South TSZ10900	ern Trunk Sewer, Water Main Fire Main Works Sheet Piling & Excavation(~5m below ground) (along NB64)	50	16 Apr 15 A	17-Jun-15 A				 				 	 
		52	16-Apr-15 A					 				 	 
TSZ10910	DSD Trunk Sewer laying (along NB64)	186	20-Apr-16 A	30-Nov-16 A				 				 	 
TSZ10920	Backfill up to NB64 footing level	6	01-Dec-16 A	07-Dec-16 A				 				 	 
TSZ10930	Watermain installation (along NB64)	33	08-Dec-16 A	18-Jan-17 A									
TSZ10940	Firemain installation (along NB64)	21	02-Jan-17 A	26-Jan-17 A								 	
TSZ11028	Demolish existing pile caps at Watermain	35	02-Dec-16 A	15-Jan-17 A									
Undergrou	nd Utility Works	044	20 Eab 16 A	17 Dec 16 A				 				 	 
	Utility cable laying by Utility companies (Along NB64 & NB64A, 60m)	241	29-Feb-16 A	17-Dec-16 A									 
	er Along Fanling Highway N/B 450-6920)-FH N/B Side												 
Noise Barri													
NB02030	NB60 (300-408m)(NB60/26-34 Pre-drilling	44	19-Mar-14 A	15-May-14 A									 
NB02040	NB60 (300-408m)(NB60/26-S4, 0.19m -26nos) Piling	111	27-Jan-18 A	15-Jun-18 A									 
NB02050	NB60-4 (300-408m) - Sheet piling & Excavation	22	16-Jun-18 A	13-Jul-18 A				 					 
NB02060	NB60-4 - Footing & Wall Structure	124	16-Jul-18 A	10-Dec-18	02-Nov-18	22-Nov-18	-15	 				 	 
NB02065	NB60-4 (300-408m) - Drainage Works	24	11-Dec-18	10-Jan-19	23-Nov-18	20-Dec-18	-15	 				 	 
NB02066	NB60-4 (300-408m) - Drainage Works (VO on 16-10-18 - add 3	18	11-Jan-19	31-Jan-19	21-Dec-18	14-Jan-19	-15					 	 
NB02070	manholes) NB60-4 - backfilling	20	01-Feb-19	26-Feb-19	15-Jan-19	08-Feb-19	-15	 				 	 
NB02080	NB60-4 - NB production	45	11-Dec-18	24-Jan-19	07-May-19	20-Jun-19	147	 				 	 
NB02082	NB60-4 - NB post & panel installation	5	25-Jan-19	30-Jan-19	21-Jun-19	26-Jun-19	118	 				 	 
NB02090	NB60 (408-468m)(NB60/35-39) & FADS1 Pre-drilling	5	20-Jan-18 A	25-Jan-18 A				 				 	 
NB02100	NB60 (408-468m)(NB60/18B-1 to S6, 0.19m -32nos) Piling	32	20-Jun-18 A	27-Jul-18 A				 				 	 
NB02100	NB60 (408-468m) FADS1 (8nos) Piling	12	28-Jul-18 A	10-Aug-18 A				 				 	 
				-				 				 	 
NB02103	NB60 (408-468m) Staircase S1 - Pre-drilling	26	02-Mar-15 A	31-Mar-15 A				 				 	 
NB02105	NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos)	42	06-Feb-18 A	02-Apr-18 A				 				 	 
NB02110	NB60-5 (408-468m) - Sheet piling & Excavation	28	10-Aug-18 A	11-Sep-18 A				 					 
NB02120	NB60-5 - Footing & Wall Structure	86	12-Sep-18 A	24-Dec-18	24-Nov-18	31-Dec-18	4						
NB02125	NB60-5 (408-468m) - Drainage Works	24	01-Feb-19	02-Mar-19	23-Jan-19	21-Feb-19	-8						
NB02130	NB60-5 - backfilling	12	04-Mar-19	16-Mar-19	22-Feb-19	07-Mar-19	-8					1	
NB02140	NB60-5 - NB production	26	25-Dec-18	19-Jan-19	02-Jan-19	27-Jan-19	8						
NB02142	NB60-5 - NB post & panel installation	5	21-Jan-19	25-Jan-19	28-Jan-19	01-Feb-19	6						
NB66 (Ch.69	920-6930)-FH N/B Side												
Noise Barri NB02150	ier Works NB66 - Sheet piling & Excavation	46	20-Jan-18 A	17-Mar-18 A				 				 	 
NB02160	NB66 - Footing & Wall Structure	39	18-Mar-18 A	08-May-18 A				 				 	 
					05 Nov 40	00 Nov 40	40	 				 	 
NB02165	NB66 - Drainage Works	178	08-May-18 A	07-Dec-18	05-Nov-18	22-Nov-18	-13	 				 	 
NB02170	NB66- backfilling	15	27-Dec-18	14-Jan-19	19-Feb-19	07-Mar-19	43	 				 	 
NB02180	NB66 - NB production	45	20-Nov-18	03-Jan-19	07-May-19	20-Jun-19	168						 
NB02190	NB66 - NB post & panel installation	5	15-Jan-19	19-Jan-19	21-Jun-19	26-Jun-19	127						
NB03320	Bus Shelter footing - VO86	30	20-Nov-18	24-Dec-18	12-Jan-19	18-Feb-19	43						
Bridge Con													
	ang Vehicular Bridge												 
General												 1	

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Layout: WP rev 7 Data Date:20-Nov-18 Page 28 of 48

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange



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Date	Revision	Checked	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

Rev 07 vity ID	Activity Name		Original	Start	Finish	Late Start	Late Finish	P rev 7	
			Duration	Otart		Late Otari	Later mish	Float 1	13 2014 2015 2016 2016 2016 2016 2016 2016 2016 2016
2.KLH.1060	Submission of method stat	tement to Engineer	48	02-Oct-13 A	27-Nov-13 A				
2.KLH.1070	Consent from Engineer		276	28-Nov-13 A	10-Nov-14 A				
arget Mile	estone								
/S01		k 1 Structure between West	0		17-May-16 A				17-May-16 A ◆ Completion of Bridge
MS02		k 2 Structure between VPB3 to VBP6	0		27-Apr-16 A				27-Apr 16 A ♦ Completion of Bridge D
MS03	Completion of Bridge Deck VBP6-VBP7-VBP8-East At		0		31-May-16 A				31-May-16A ♦ Completion of Bridge
MS04		of all Precast Concrete Skins	0		30-Jun-16 A				30-Jun-16A ♦ Completion of Insta
//S05	Completion of Installation	of all Parapet Walls and Planter Walls	0		16-Jul-16 A				16-Jul-16A ♦ Completion of Inst
MS06		ng Hang Vehicular Bridge to enable	0		20-Aug-16 A				20-Aug-16 A ◆ Commissioning
WSR-W P	demolition of Kiu Tau Bridg								
PC0160	Beams Precast Yards - TW		37	01-Sep-15 A	15-Oct-15 A				
PC0170	Precast Beams Fabrication	n for P3 to P4 (10 nos)	63	16-Oct-15 A	31-Dec-15 A				
PC0180	Post Tensioning Beams (1	0 nos)	21	15-Dec-15 A	11-Jan-16 A				
recast Ya	ds and Beam Fabri	cation							
PC0120	Precast Beams Fabrication		16	15-Dec-15 A	05-Jan-16 A				
C0130	Precast Beams Fabrication	n for P4-P5 (4-10 nos)	44	28-Dec-15 A	26-Feb-16 A				
PC0140	Post Tensioning Beams (1-	-3nos)	13	06-Jan-16 A	20-Jan-16 A				
°C0150	Post Tensioning Beams (4-	-10nos)	12	20-Feb-16 A	04-Mar-16 A				
ther Off-S	Site Prefabrication								
PC0260	Parapet Concrete Skin Fat	brication	94	12-Jan-16 A	16-May-16 A				
LH Bridge	e - West Ramp								
KLH.1034	West Ramp Structure Wor	k (6 bays after P3-4 beams lifting)	88	20-Feb-16 A	08-Jun-16 A				
KLH.1140	West Ramp - Backfilling &	Drainage	60	17-May-16 A	27-Jul-16 A				
LH.1180	West Ramp - Parapet skin	(92nos)	70	07-Apr-16 A	30-Jun-16 A				
LH.1240	West Ramp -Parapet Wall	& Planter Wall	56	21-May-16 A	27-Jul-16 A				
LH.1250	West Ramp - Road Surfac	e work ready to start	0	29-Jul-16 A					♦ West Ramp - Roa
LH.1260	West Ramp - barrier		21	28-Jul-16 A	20-Aug-16 A				
(LH.1280	West Ramp - Lighting		21	28-Jul-16 A	20-Aug-16 A				
KLH.1290	West Ramp - Planting		21	20-Nov-18	13-Dec-18	01-Jun-19	26-Jun-19	156	
KLH.1300	West Ramp Complete		0		20-Aug-16 A				20-Aug-16 A ♦ West Ramp Co
Z2.KLH.0900	WestAbutment- Pre-drillin	a work	4	04-Sep-14 A	08-Sep-14 A				
Z2.KLH.0910		I H-pile piling works (13nos)	30	15-Oct-14 A	18-Nov-14 A				
2.KLH.1002	West Abutment- Pile cap &		136	20-Dec-14 A	13-Jun-15 A				
			130	20-Dec-14A	13-3011-13 A				
dvance W Z2.KLH.1100	Orks for VBP3 cons VBP3 New design availab		0	07-Jul-15 A					♦ VBP3 New design available by ER
2.KLH.1103	Revised Design available	•	0	20-Aug-14 A					♦ Revised Design available for KLHVB ramp R1
2.KLH.1105	Re-design Temp ramp for I	•	50	20-Aug-14 A	20-Oct-14 A				
2.KLH.1110	Erect temp ramp for NWP		102	20-Aug-14 A	18-Feb-15 A				┟┈┊┈┟┈┊┈┊╴╤ <mark>╼╧</mark> ╸┊┈┊╴┊╴╷╷╴┊╴╷┊╴╴┊╴
2.KLH.1150	Demolish Existing ramp of	INVVF blidge	13	27-Feb-15 A	13-Mar-15 A				┃
2.KLH.1155	TTA		2	14-Mar-15 A	16-Mar-15 A				
Z2.KLH.1270	Pier VBP3 U/G works read	•	0	16-Mar-15 A					
2.KLH.1280	Pier VBP3 complete and ro		53	20-Oct-15 A	21-Dec-15 A				
2.KLH.1290	Affected NB construction a	t TWSR-W resume	0	21-Dec-15 A					♦ Affected NB construction at TW
LH Bridge	e - Deck 1		,		1				
Remaining Lev		Project File:WP Rev 07					Contract	No. H	IY/2012/06
<ul> <li>Actual Level of Actual Work</li> </ul>	f Effort	Layout: WP rev 7			Widen	ing of Fanli	ng Highway -	- Tai Ha	ang to Wo Hop Shek Interchange
Remaining Wo		Data Date:20-Nov-18							
<ul> <li>Milestone</li> </ul>	5	Page 29 of 48					works Prog	ramme	e - WP Rev. 7
Crit. Milestone									

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Rev 07	Activity Name		Finich	Lato Start		P rev 7										Page 30 of 4	40 (J-L
ty ID	Activity Name	Original Start Duration	Finish	Late Start	Late Finish	Float 13		201	5			2017		2018 IJIJIAISI	20		2020
KLH.1130	Deck 1 - Bridge deck construction (VBP2 to VBP3)	48 14-Mar-16 A	13-May-16 A														
KLH.3380	Deck 1 - Parapet skin (61nos)	62 14-Mar-16 A	31-May-16 A				 				· · · · · · · · · · · · · · · · · · ·						
KLH.3390	Deck 1 - Parapet Wall & Planter Wall	45 07-May-16 A	30-Jun-16 A				 										
KLH.3400	Deck 1 - Road Surface work ready to start	0 02-Jul-16 A					 				Deck 1 - Ro	ad Surface work	ready to star	t			
KLH.3410	Deck 1 - barrier	16 20-Jul-16 A	06-Aug-16 A				 										
KLH.3420	Deck 1 - Lighting	31 02-Jul-16 A	06-Aug-16 A				 										
KLH.3430	Deck 1 - Planting	21 20-Nov-18	13-Dec-18	01-Jun-19	26-Jun-19	156	 				·				-		
KLH.3440	Deck 1 - Complete	0	08-Aug-16 A				 			08-Aug-16 A	◆ Deck 1 -	Complete					
KLH.3630	Pedestrian walkway Roof P2 to P3	30 09-Dec-16 A	16-Jan-17 A				 										-
KLH.3640	Pedestrian walkway floor finishes P2 to P3	4 11-Apr-17 A	18-Apr-17 A				 										
Z2.KLH.1008	Pier VBP1- Pre-drilling work	3 11-Jul-14 A	14-Jul-14 A				 										
Z2.KLH.1010	Pier VBP1- Pre-bored H-pile piling works (6 Nos.)	25 23-Oct-14 A	20-Nov-14 A				 										
	Pier VBP1- Pile testing	68 20-Nov-14 A	10-Feb-15 A				 										
Z2.KLH.1014	Pier VBP1- Pile caps, pier and pier head construction	143 11-Feb-15 A	12-Aug-15 A				 		•								
Z2.KLH.1016	Pier VBP2- Pre-drilling work	3 07-Jul-14 A	09-Jul-14 A				 										
	Pier VBP2- Pre-bored H-pile piling works (8 Nos.)	23 21-Nov-14 A	17-Dec-14 A				 										
	Pier VBP2- Pile caps, pier and pier head construction	143 03-Mar-15 A	24-Aug-15 A				 										
Z2.KLH.1030	Pier VBP3 - Pre-drilling work	4 24-Apr-14 A	, , , , , , , , , , , , , , , , , , ,				 										
	Pier VBP3 -Pre-bored H-pile piling works (9 Nos.)	29 01-Apr-15 A	· ·				 										
	Pier VBP3 Pile test	5 09-May-15 A					 										
Z2.KLH.1047	Pending for Town gas diversion, due to VBP3 resizing VO	12 15-May-15 A					 										
Z2.KLH.1050	Pier VBP3 Pile caps, pier and pier head construction	153 30-May-15 A					 										
Z2.KLH.1120	Deck 1 - Bridge deck construction (West Abutment to VBP1)	90 10-Oct-15 A					 										
	Deck 1 - Bridge deck construction (VBP1 to VBP2)	82 20-Oct-15 A					 			<b>_</b>							
							 			<b>—</b>							
KLH.3030	e - Deck 2 Beam Erection (P5 to P6)- D2c-7	1 31-Oct-15 A	31-Oct-15 A														
KLH.3040	Beam Erection (P5 to P6)- D2c-3	1 07-Nov-15 A	07-Nov-15 A				 		<u> </u>								
KLH.3050	Beam Erection (P5 to P6)- D2c-8	1 14-Nov-15 A	4 14-Nov-15 A				 										
KLH.3060	Beam Erection (P5 to P6)- D2c-2	1 21-Nov-15 A	21-Nov-15 A				 										
KLH.3070	Beam Erection (P5 to P6)- D2c-9	1 28-Nov-15 A	28-Nov-15 A				 										
KLH.3080	Beam Erection (P5 to P6)- D2c-1	1 05-Dec-15 A	05-Dec-15 A				 										
KLH.3090	Beam Erection (P5 to P6)- D2c-10	1 12-Dec-15 A	12-Dec-15 A				 										
KLH.3100	2nd Edge Working Platform	1 09-Jan-16 A	09-Jan-16 A				 										
KLH.3110	Insitu concrete top slab (P5 to P6)	32 09-Jan-16 A	08-Apr-16 A				 			-							
KLH.3120	2nd Pre-Stressing of Beams (P5 to P6)	3 13-Apr-16 A	18-Apr-16 A				 										
KLH.3122	Diaphragm construction (steel fixing & formwork)	6 20-Apr-16 A					 										
KLH.3124	Diaphragm concreting	1 27-Apr-16 A					 										
KLH.3130	Precast Concrete Skin (P5 to P6)(14nos)	13 29-Apr-16 A					 										
KLH.3140	Parapet wall (P5 to P6)	46 23-May-16 A					 										
KLH.3150	Finished Surface of Road ready for P5-P6	0 16-Jul-16 A					 				<ul> <li>Finished S</li> </ul>	urface of Road re	eady for P5-P	6			
KLH.3160	Pedestrian walkway Roof P5-P6	53 09-Dec-16 A	20-Feb-17 A				 										
KLH.3170	Pedestrian walkway floor finishes P5-P6 (include barrier and lighting)	5 11-Apr-17 A					 										
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Layout: WP rev 7 Data Date:20-Nov-18 Page 30 of 48

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange





Date	Revision	Checked	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

VP Rev 07					W	P rev 7	 								Pag	e 31 of 48	, (3-Dec
Activity ID	Activity Name	Original Start Duration	Finish	Late Start	Late Finish	Total Float 13	2014	20					018		2019		2020
KLH.3190	Beam Erections P4 to P5 (1-3nos)	1 26-Jai	-16 A 26-Jan-16	A		JĮ			JAS				JJAS				<u> I</u> IIA
KLH.3200	Beam Erections P4 to P5 (4-10nos)	9 27-Fel	-16 A 08-Mar-16	A A			 +										
KLH.3205	Edge Working Platform for P4 to P5	3 12-Ma	-16 A 15-Mar-16	A A			 			1				-			
KLH.3210	Insitu concrete top slab (P4 to P5)	18 21-Ma	-16 A 14-Apr-16	A			 										
KLH.3230	Precast Concrete Skin (P4 to P5)(12nos)	39 30-Ap	-16A 17-Jun-16	A			 										
KLH.3240	Parapet wall (P4 to P5)	28 18-Ma	-16A 20-Jun-16	A			 				•						
KLH.3250	Finished Surface of Road ready for P4 to P5	0 20-Ju					 				Finished Surface of	Road ready for P4 to P	5				
KLH.3260	Pedestrian walkway Roof P4 to P5	53 09-De		'A			 										
KLH.3270	Pedestrian walkway floor finishes P4 to P5 (include barrier and	4 11-Ap					 										
KLH.3290	lighting) Beam Erections P3 to P4 (1-5nos)	6 28-De					 										
KLH.3300	Beam Erections P3 to P4 (5-10nos)	7 11-Jar					 										
KLH.3305	Edge Working Platform for P3 to P4	1 01-Ma					 										
KLH.3310	Insitu concrete top slab (P3 to P4)	15 21-Ma	· · ·				 										
KLH.3330	Precast Concrete Skin (P3 to P4)(11nos)	31 23-Ap					 										
KLH.3340	Parapet wall (P3 to P4)	39 18-Ma		A			 										
KLH.3350	Finished Surface of Road ready for P3 to P4	0 05-Jul									Finished Surface of Contract of Contrac	of Road ready for P3 to F	94				
KLH.3360	Pedestrian walkway Roof P3 to P4	30 09-De	-16 A 16-Jan-17	A							•						
KLH.3370	Pedestrian walkway floor finishes P3 to P4 (include barrier and lighting)	3 11-Ap	17 A 13-Apr-17	A							I						
Z2.KLH.1144	0 0/	137 16-Ma	-15 A 30-Jul-15	A													
Z2.KLH.1146	Deck 2 Precast concrete beam available on site	0	30-Jul-15	A			 	30-Jul-15 A	♦ De	ck 2 Precast co	oncrete beam available	e on site					
Z2.KLH.1157	TTA for VBP4	34 20-Ap	-15 A 30-May-1	5 A			 										
Z2.KLH.1158	VBP4-Pre-drilling work	15 01-Ju	-15 A 17-Jun-15	A			 										
Z2.KLH.1159	Piling Rig Remobilisation Period due to TGC VO	48 30-Ma	/-15 A 27-Jul-15	A			 										
Z2.KLH.1160	VBP4- Pre-bored H-pile piling works (9 Nos.)	30 28-Jul	15 A 31-Aug-1	5A			 +										
Z2.KLH.1170	VBP4- Pile cap, pier & pier head construction	79 01-Se	-15 A 04-Dec-1	5A			 										
Z2.KLH.1180	VBP4 - Backfilling & Road Work for TTA for VBP3	12 05-De	-15 A 18-Dec-1	5A			 			••••							
Z2.KLH.1190	Temp road diversion at TWSR-W for TTA for VBP5 works	28 20-Oc	14 A 20-Nov-14	I A			 	1									
Z2.KLH.1200	VBP5- Pre-drilling work	10 21-Ap	-14 A 03-May-1-	1 A			 •										
Z2.KLH.1210	VBP5- Pre-bored H-pile piling works (12 Nos.)	75 20-No	-14 A 18-Feb-15	A			 										
Z2.KLH.1220		109 27-Fe	-15 A 11-Jul-15	A			 										
Z2.KLH.1255		24 01-Ap					 										
																_	
KLH.1370	ge - Deck 3 Deck - East abutment to VBP8	127 28-Oc	-15 A 09-Apr-16	A			 										
KLH.1380	Deck - VBP6 to VBP7	80 20-Fe	-16 A 30-May-1	6A			 										
KLH.1400	Deck - VBP7 to VBP8	108 28-De					 										
KLH.3450	Deck 3 - Parapet skin (61nos)	30 26-Ma					 										
KLH.3460	Deck 3 - Parapet Wall & Planter Wall	35 03-Ju					 										
KLH.3470	Deck 3 - Road Surface work ready to start	0 16-Jul					 				◆ Deck 3 - Road Si	urface work ready to star	t				
KLH.3480	Deck 3 - barrier	16 20-Jul		3Δ			 										
KLH.3490	Deck 3 - Lighting	16 20-Jul			40.1		 										
KLH.3500	Deck 3 - Planting	21 20-No			10-Jun-19	142	 l										
KLH.3510	Deck 3 - Complete	0	08-Aug-16	δA						08-Aug-16	A   Deck 3 - Compl	ete					
Remaining L	evel of Effort Project File:WP Rev 07				Contrac		 					Date		vision Cł		Appro	

Remaining Level of Effort	Project File:WP Rev 07	Contract No. HY/2012/06
Actual Level of Effort		
Actual Work	Layout: WP rev 7	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange
Remaining Work	Data Date:20-Nov-18	
Critical Remaining Work	Data Date.20-NOV-18	Works Programme - WP Rev. 7
♦ Milestone	Page 31 of 48	
<ul> <li>Crit. Milestone</li> </ul>		





Date	Revision	Checked	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

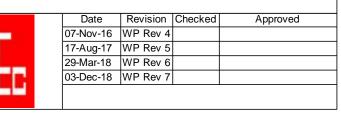
Rev 07 vity ID	Activity Name	Original Start Finish	Late Start Late Fi	WP rev 7							Page 3	32 of 48 (3-[
vity ID		Original Start Finish Duration		Float 13	2014		9 INI 117					
KLH.3650	Pedestrian walkway Roof P6 to P7	59 01-Dec-16 A 18-Feb-17	A	<u> </u>								
KLH.3660	Pedestrian walkway floor finishes P6 to P7 (include barrier and lighting)	23 20-Mar-17 A 19-Apr-17	A		 		 				 	
Z2.KLH.1325	Construct Temp Road - For diversion of existing TWR east	20 20-Oct-14 A 11-Nov-14	A			••••	 				 	
Z2.KLH.1330	VBP6 - Diversion of TWSR east to temporary diversion work	0 12-Nov-14 A 12-Nov-14	A				 1				 	
Z2.KLH.1340	VBP6 - Pre-drilling work	5 13-Nov-14 A 18-Nov-14	A		 		 				 	
Z2.KLH.1350	VBP6 - Pre-bored H-pile piling works (13 Nos.)	48 22-Dec-14 A 18-Feb-15	A								 	
Z2.KLH.1360	VBP6 - Pile cap, pier construction	115 26-Feb-15 A 18-Jul-15	A		 						 	
Z2.KLH.1780	EastAbutment - Pre-drilling work	13 10-Feb-14 A 24-Feb-14	A				 				 	
Z2.KLH.1785	Relocation Lamp post by CLP	24 24-Feb-14 A 22-Mar-14	A				 				 	
Z2.KLH.1790	EastAbutment - Pre-bored H-pile piling works (13 Nos.)	60 28-Mar-14 A 13-Jun-14	A				 				 	
Z2.KLH.1800	East Abutment - Pile testing	44 20-Aug-14 A 13-Oct-14	A		 		 				 	
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	188 20-Oct-14 A 12-Jun-15	A		 		 				 	
Z2.KLH.1820	VBP7 - Pre-drilling work	13 25-Feb-14 A 11-Mar-14	A		•		 				 	
Z2.KLH.1830	VBP7 - Pre-bored H-pile piling works (7 Nos.)	77 09-Apr-14 A 15-Jul-14	A		 		 				 	
Z2.KLH.1840	VBP7- Pile testing	44 20-Aug-14 A 13-Oct-14	A			<b>—</b>	 				 	
Z2.KLH.1850	VBP7 - Pile caps, pier and pier head construction	174 18-May-15 A 12-Dec-15	A		 		 				 	
Z2.KLH.1860	VBP8 - Pre-drilling work	5 21-Feb-14 A 26-Feb-14	A				 				 	
Z2.KLH.1870	VBP8 - Pre-bored H-pile piling works (6 Nos.)	40 03-May-14 A 20-Jun-14	A				 				 	
Z2.KLH.1880	VBP8 - Pile testing	44 20-Aug-14 A 13-Oct-14	Α			<b></b>	 				 	
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	103 20-Jul-15 A 19-Nov-15	A		 		 				 	
KLH Bridge	e - East Ramp											
KLH.3520	East Ramp Structure Work (5/8 remaining)	171 02-Oct-15 A 07-May-16	A		 		 				 	
KLH.3530	East Ramp - Backfilling & Drainage	65 09-May-16 A 26-Jul-16	A				 				 	
KLH.3540	East Ramp - Parapet skin (79nos)	53 23-Mar-16 A 30-May-16	A				 					
KLH.3550	East Ramp -Parapet Wall & Planter Wall	76 07-May-16 A 06-Aug-16	A				 				 	
KLH.3560	East Ramp - Road Surface work ready to start	0 08-Jul-16 A					 	♦ East Ra	amp - Road Surface v	ork ready to start		
KLH.3570	East Ramp - barrier	17 20-Jul-16 A 08-Aug-16	A				 				 	
KLH.3580	East Ramp - Lighting	17 20-Jul-16 A 08-Aug-16	A				 					
KLH.3590	East Ramp - Planting	34 20-Nov-18 31-Dec-18	28-May-20 08-Jul-	20 450	 		 					
KLH.3600	East Ramp Complete	0 08-Aug-16	A		 		 08-Au	ug-16 A 🔶 East	Ramp Complete		 	
	e - Ramp R1											
Z2.KLH.1430	Ramp R1 - Pre-drilling work (R1P1-P3)	52 15-May-14 A 16-Jul-14										
Z2.KLH.1440	Ramp R1 - Pre-bored H-pile piling works (R1P1-P3) (9 Nos.)	50 30-Sep-14 A 28-Nov-14	A									
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	335 02-Jul-15 A 20-Aug-16	A									
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	183 02-Jul-15 A 06-Feb-16	A									
Z2.KLH.1665	Additional Disruption to R1P3 period by UU duct laying	16 01-Nov-16 A 18-Nov-16	A									
Z2.KLH.1667	Additional Disruption to R1P1 period by UU duct laying	28 01-Nov-16 A 02-Dec-16	A									
Z2.KLH.1670	Ramp R1 - Pile caps and pier construction (R1P3)	84 08-Aug-16 A 16-Nov-16	A									
Z2.KLH.1680	Ramp R1 - Ramp construction (Abutment R1 to R1P1)	101 20-Aug-16 A 19-Dec-16	A									
Z2.KLH.1685	Ramp R1 - Ramp construction (R1P1 to P1P3)	35 19-Nov-16 A 31-Dec-16	A				 	I				
Z2.KLH.1690	Ramp R1 - Abutment R1 - Predrilling	4 30-Aug-14 A 03-Sep-14	A		 	•	 					
Z2.KLH.1700	Ramp R1 - Abutment R1 - Pre-bored H-pile (8 nos)	13 20-Sep-14 A 07-Oct-14	A			•	 				 	

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 32 of 48

Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange





PRev 07	Activity Name	Original	Start	Finish	Late Start		P rev 7									Page	33 of 48 (3-D
ivity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	3	2014		2015	2016	2017	2018		2019	2020
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	368	22-Jun-15 A	20-Sep-16 A													
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	25	20-Sep-16 A	20-Oct-16 A									••••••••••••••••••••••••••••••••••••••				
Z2.KLH.1730	Ramp R1 - Abutment R1 - Staircase	25	20-Sep-16 A	20-Oct-16 A													
	•		20-3ep-10A											aamalata			
Z2.KLH.1740	Ramp R1 complete	0		17-Apr-17 A									-Apr-17A ✦ Ramp R1	complete			
Z2.KLH.3610	Ramp R1 - Steel roof	549	19-Jan-17 A	30-Nov-18	15-Jun-19	26-Jun-19	167										
Z2.KLH.3620	Ramp R1 - finishes work (include barrier and lighting)	9	03-Apr-17 A	17-Apr-17 A													
	e - Ramp R2																
Z2.KLH.1510	Ramp R2 - Pre-drilling work	259	06-Feb-14 A	20-Dec-14 A													
Z2.KLH.1520	Ramp R2 - Pre-bored H-pile piling works (9 Nos.) - R2P1-3	25	27-Jun-14 A	26-Jul-14 A													
Z2.KLH.1521	VO 028 - Re-provision of Boundary Wall to Hse 190B issued	0	08-Jan-15 A								VO 028 - Re-provisio	on of Boundary Wa	all to Hse 190B issued				
Z2.KLH.1522	VO 028 - Design Information available	55	08-Jan-15 A	20-Mar-15 A													
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	19	20-May-17 A	12-Jun-17 A													
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	20	19-May-17 A	12-Jun-17 A													
Z2.KLH.1525	Ramp R2 - mini piling (0.32m-30nos) works - R2P4-5 & R2 Abutment -	101	19-Mar-15 A	22-Jul-15 A													
	rig 3 new	60															
Z2.KLH.1526	Ramp R2 - Abutment cap & P2P1 cap		03-Oct-15 A	12-Dec-15 A													
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	330	20-Nov-15 A	06-Jan-17 A													
Z2.KLH.1540	Ramp R2 - Ramp construction	54	17-Nov-16 A	21-Jan-17 A													
Z2.KLH.1545	Ramp R2 - Ramp construction (section after VBP6-7 deck)	54	17-Nov-16 A	21-Jan-17 A													
Z2.KLH.1550	Ramp R2 - Steel roof	510	14-Mar-17 A	30-Nov-18	15-Jun-19	26-Jun-19	167										
Z2.KLH.1590	Land Possession forHouse 190B	0		30-Sep-14 A					30-Sep-14 A	🔶 Lai	nd Possession forHouse	190B					
Z2.KLH.1920	Ramp R2 - finishes work (include barrier and lighting)	6	11-Apr-17 A	20-Apr-17 A									•••••				
Z2.KLH.1990	VO of Ramp R2 Roof design amendment	0	08-Dec-16 A										♦ VO of Ramp R2 R	oof design amendmen			
Z2.KLH.2000	Prepare Shop drawing re-submission	21	08-Dec-16 A	04-Jan-17 A													
		6															
Z2.KLH.2010	Shop drawing approval		05-Jan-17 A	11-Jan-17 A													
Z2.KLH.2050	Factory fabrication	45	12-Jan-17 A	13-Mar-17 A													
	Staircase S1 S1 - Staircase steel work, handrail Shop drawing submission &	100	00 Apr 10 A	27 Aug 18 A													
	approval	122	28-Apr-18 A	27-Aug-18 A										·····			
	S1 - Steel work ordering	79	28-Aug-18 A	14-Nov-18 A													
Z2.KLH.1464	S1 - Steel work prefabrication	33	15-Nov-18 A	17-Dec-18	05-Jan-19	01-Feb-19	46										
Z2.KLH.1466	S1 - Steel frame available on site	0		17-Dec-18		01-Feb-19	37							17-Dec-1	8 🔶 S1 - St	eel frame avai	lable on site
Z2.KLH.1470	NB60-5 post installation completed for S1	0	26-Jan-19		02-Feb-19		6								♦ N₿6	0-5 post instal	lation comple
Z2.KLH.1480	S1- Deck Steel Frame erection	30	26-Jan-19	04-Mar-19	02-Feb-19	11-Mar-19	6										
Z2.KLH.1490	S1- RC deck slab	20	05-Mar-19	27-Mar-19	12-Mar-19	03-Apr-19	6										
Z2.KLH.1500	S1 - Roof steel frame installation	30	28-Mar-19	07-May-19	04-Apr-19	14-May-19	6										
Z2.KLH.1750	S1 - Corrugated steel roof	18	08-May-19	28-May-19	15-May-19	04-Jun-19	6									-	
	S1 - Handrail	18			-		6										
			29-May-19	19-Jun-19	05-Jun-19	26-Jun-19											
Z2.KLH.1770	S1 - Lighting & finishes works	18	29-May-19	19-Jun-19	05-Jun-19	26-Jun-19	6									-	
Bridge Roa		26	09 141 46 4	06 Aug 16 A													
	Road Pavement Works (East Ramp)	26	08-Jul-16 A	06-Aug-16 A													
Z2.KLH.1940	Road Pavement Works (Deck 1)	14	23-Jul-16 A	08-Aug-16 A								• • • • • • • • • • • • • • • • • • • •					
Z2.KLH.1950	Road Pavement Works (Deck 2)	23	13-Jul-16 A	08-Aug-16 A													
Z2.KLH.1960	Road Pavement Works (Deck 3)	17	20-Jul-16 A	08-Aug-16 A													
Z2.KLH.1970	Road Pavement Works (West Ramp)	17	20-Jul-16 A	08-Aug-16 A	_				-								
Remaining Lev	vel of Effort Project File:WP Rev 07					Contract	No H	Y/2012	2/06	:				Date Re	vision Ch	ecked	Approved
Actual Level of	of Effort												DDE		PRev 4		
Actual Work Remaining Wo	Layout: WP rev 7			Widen	ing of Fanli	ng Highway -	Tai Ha	ang to	Wo Hop Sh	nek l	nterchange		1 1 1	17-Aug-17 WF			
	Data Date:20-Nov-18					Works Prog	rammo	- WP	Rev. 7					29-Mar-18 WF 03-Dec-18 WF			
Critical Remain						<b>WORKS FIGU</b>	annie					I		100 000 10 101	1.00 / 1		

vity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	Total										
		Duration					Float		2014 F A JJASO	JFA	2015 JJJAS						
Z2.KLH.1980	KLHVB road work complete	0		08-Aug-16 A								08-Au	ug-16 A	♦ KLHVE	road w	vork compl	ete
Z2.KLH.2020	Completion of Stage S1 of works (KD11)	0		08-Aug-16 A								08-Ai	ug-16 A	Complete	etion of	Stage S1	٥f
Z2.KLH.2030	Diversion of existing pedestrian to proposed Kiu Lung Hang Vehicular bridge	1	20-Apr-17 A	20-Apr-17 A													
Z2.KLH.2040	Landscape work of KLHVB	120	20-Nov-18	15-Apr-19	29-Jan-19	26-Jun-19	57										
Lift at TWS	R-W Side																
L00900	Lift VO35 received date	0	07-Aug-15 A								♦ Lìf	ft VO35 re	eceived d	ate			
L01000	KLHVB completed	0	08-Aug-16 A											♦ KLHVE	compl	eted	
L01015	Pre-bored H Piling Rig mobilisation & set up period	10	01-Sep-16 A	12-Sep-16 A													
L01020	KLH (W) lift -Pre-bored H pile (4 nos)	5	13-Sep-16 A	19-Sep-16 A										I			
L01030	Pile test (As Confirmed by ER, No pile test is required)	0	20-Sep-16 A	20-Sep-16 A										1			
L01040	Temp work & Pile cap	21	20-Jun-17 A	14-Jul-17 A												•••••	
L01050	Lift pit	16	15-Jul-17 A	02-Aug-17 A													
L01060	Lift shaft & roof	113	03-Aug-17 A	15-Dec-17 A													<b>—</b>
L01070	Structural Laminated glass wall installation	13	01-Aug-18 A	15-Aug-18 A													
L01080	RC Platform connect to bridge	20	23-Oct-17 A	15-Nov-17 A													
L01090	Glass canopy (As Confirmed by ER, No glass canopy is required)	0	24-Nov-18*	24-Nov-18	23-Nov-18	23-Nov-18	0										
L01093	Lift contractor sub-letting	284	10-Aug-15 A	30-Jul-16 A													;·
L01094	Lift submission & ordering period	471	01-Aug-16 A	07-Mar-18 A													
					04 Dec 40	00 E-1 40	0										
L01100		70	01-Dec-18*	26-Feb-19	01-Dec-18	26-Feb-19	0										·
L01110	Lift T&C	14	27-Feb-19	14-Mar-19	03-Jun-19	19-Jun-19	77										
L01120	EMSD inspection & approval (Assume 7 days is required instead of 28 days)	7	15-Mar-19	21-Mar-19	20-Jun-19	26-Jun-19	97										
L01130	Finishes work	88	24-Nov-18	12-Mar-19	09-Mar-19	26-Jun-19	85										
L01140	CLP Power available (by CLP)	869	04-Apr-16 A	20-Aug-18 A													_
L01150	Lift available - NF117-Lift 1	0		21-Mar-19		26-Jun-19	77										
Lift at FLH																	
L01160	Piling Rig mobilisation & set up period	61	10-Aug-15 A	22-Oct-15 A								<b>.</b>					
L01170	KLH (E) lift - pile (9 nos)	25	23-Oct-15 A	20-Nov-15 A													
L01180	Earliest date for lift construction resume	0	01-Feb-17 A												♦ Ea	rliest date	or
L01190	Set up & Pile test	28	01-Feb-17 A	09-Mar-17 A													1
L01200	Temp work & Pier cap	44	10-Mar-17 A	06-May-17 A													
L01210	Lift pit	18	23-Jun-17 A	14-Jul-17 A												•••••	
L01220	Lift shaft & roof	67	15-Jul-17 A	30-Sep-17 A													
L01230	Structural Laminated glass wall installation	58	20-Apr-18 A	29-Jun-18 A													
L01240	RC Platform connect to bridge	41	01-Sep-17 A	20-Oct-17 A													-
L01250	Glass canopy (As Confirmed by ER, No glass canopy is required)	0	20-Jun-18 A	20-Jun-18 A													
L01260	Lift installation	101	12-Sep-18 A	14-Jan-19	10-Apr-19	05-Jun-19	115										
L01270	Lift T&C	14	15-Jan-19	28-Jan-19	06-Jun-19	19-Jun-19	142										
L01280	EMSD inspection & approval (Assume 7 days is required instead of 28	7	29-Jan-19	04-Feb-19	20-Jun-19	26-Jun-19	142										, ·
	days) Finishes work	88	18-Oct-18 A	31-Jan-19	12-Apr-19	26-Jun-19	142										
101900	CLP Power available (by CLP)				12-Api-19	20-Juli-19	117										;
L01290		869	04-Apr-16 A	20-Aug-18 A		00.1											 
L01300		~		04-Feb-19		26-Jun-19	114							1			_
L01300 L01310	Lift available - NF117-Lift 2	0															
L01300 L01310 Demolition o		0															
L01300 L01310 Demolition o General	Lift available - NF117-Lift 2 f Existing Nam Wa Po Footbridge	0															_
L01300 L01310 Demolition o	Lift available - NF117-Lift 2  f Existing Nam Wa Po Footbridge  vel of Effort f Effort f Effort f Effort	0				Contract	: No. H	Y/2012/06	<b>)</b>								
L01300 L01310 Demolition o General Remaining Lev Actual Level o Actual Work	Lift available - NF117-Lift 2 <b>f Existing Nam Wa Po Footbridge</b> /el of Effort         f Effort         Project File:WP Rev 07         Layout: WP rev 7	0		Wideni	ng of Fanli	Contract					nange						
L01300 L01310 Demolition o General Remaining Lev Actual Level o	Lift available - NF117-Lift 2         of Existing Nam Wa Po Footbridge         vel of Effort         f Effort         Project File:WP Rev 07         Layout: WP rev 7         prk         Data Date:20-Nove18	0		Wideni	ng of Fanli		- Tai H	ang to W	o Hop Shek		nange						

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Date	Revision	Checked	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

ivity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	Total						
		Duration					Float	13 J[A[S	JF	20 	9	2015 JF A JJAS N JF A	2016 JJJASO JJF A
Z2.NWP.0500	Site Clearance	44	29-Aug-14 A	22-Oct-14 A									
Z2.NWP.1060	Work Temporary support installation at existing Fanling Highway	7	12-Apr-17 A	22-Apr-17 A					 		 		
Z2.NWP.1070	Removal of existing NWP Footbridge	2	23-Apr-17 A	25-Apr-17 A					 		 		
Z2.NWP.1070	Existing Nam Wa Po Footbridge removed	0	23-Api-17 A	25-Apr-17 A					 		 		25-Apr-17 A 🔶
Z2.NWP.11030	RMO additional road closure stopping period	6	23-Jan-17 A	28-Jan-17 A					 		 		257,0177,4
Z2.NWP.1100	Original period for Disconnecting existing lighting power by HyD	-							 		 		
	Lighting Division	57	08-Dec-16 A	02-Feb-17 A					 		 		
Z2.NWP.1120	VO for Temp lighting of NWP bridge issue	0	25-Jan-17 A						 		 		◆ VO fo
Z2.NWP.1130	Procurment period for VO	47	25-Jan-17 A	28-Mar-17 A					 		 		
Z2.NWP.1140	Temp Lighting Design and submission	4	08-Apr-17 A	12-Apr-17 A					 		 		
Z2.NWP.1150	Design approval	14	29-Mar-17 A	18-Apr-17 A					 		 		
Z2.NWP.1160	Temp lighting installation	5	18-Apr-17 A	22-Apr-17 A							     		1
Signalized											   		
	ang Vehicular Bridge										     		
Z2.KLH.1031	Ducting & Cable Draw Installation at TWSR-W N/B (KLHVB)	0		20-Aug-17 A					 		 		20-Aug-1
Z2.KLH.1032	completed Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	21	30-Mar-19	27-Apr-19	08-May-19	31-May-19	28		 		 		
Z2.KLH.1042	Ducting & Cable Draw Installation (KLHVB)	30	28-Jan-19*	05-Mar-19	28-Jan-19	05-Mar-19	0		 		 		
Z2.KLH.1052	Installation of Traffic Signal Poles at TWSR-W S/B (KLHVB)	21	06-Mar-19	29-Mar-19	09-Apr-19	07-May-19	28		 		  -		
Z2.KLH.1062	E-prom ordering by EMSD (KLHVB)	90	30-Oct-18 A	27-Jan-19	21-Nov-18	27-Jan-19	0		 		 		
Z2.KLH.1072	Ducting & cable draw inspection by EMSD (KLHVB)	6	06-Mar-19	12-Mar-19	22-May-19	28-May-19	61		 		 		
Z2.KLH.1082	Ducting & cable draw rectification (KLHVB)	12	13-Mar-19	26-Mar-19	29-May-19	12-Jun-19	61		 				
Z2.KLH.1092	PCCW cable installation & connection (KLHVB)	6	29-Apr-19	06-May-19	13-Jun-19	19-Jun-19	37		 		 		
Z2.KLH.1102	EMSD cable & equipment installation (KLHVB)	21	29-Apr-19	23-May-19	01-Jun-19	26-Jun-19	28		 		 		
Z2.KLH.1112	Traffic Signal Installation complete (KLHVB)	0	2070010	23-May-19		26-Jun-19	28		 		 		
		0		23-1viay-19		20-3011-19	20				 , , ,		
	t Construction										 		
Drainage & F	KOAU WOIKS												
CW01	1st interface connection to CW at S/B	0		31-Jan-17 A					 		 		31-Jan-17 A ♦ 1st in
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	49	20-Jun-17 A	16-Aug-17 A					 		 		
Noise Barri	er Along Fanling Highway S/B												
NB62 (Ch.67	745-6910)-FH S/B Side (MTRC I&P Area)										1 1 1 1		
Noise Barri	NB62 (0-80m) - Sheet piling & Excavation	35	01-Nov-16 A	10-Dec-16 A					 		 		
NB03090	NB62 (0-80m) - Footing & Wall Structure	317	12-Dec-16 A	12-Jan-18 A					 				
NB03090	NB62 (0-80m) - Drainage Works		02-Oct-18 A	26-Oct-18 A					 		 		
		21							 		 		
NB03094	NB62 (0-80m) - Drainage Works (VO on 16-10-18 - add 1 manhole)	1	27-Oct-18 A	03-Nov-18 A					 		 		
NB03100	NB62 (0-80m) - backfilling	244	27-Mar-17 A	20-Jan-18 A					 		 		·····
NB03110	NB62 (0-80m) - NB production	44	20-Apr-18 A	02-Jun-18 A					 		 		
NB03120	NB62 (0-80m) - NB post & panel installation	77	04-Jun-18 A	03-Sep-18 A					 		 		
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	15	18-Feb-17 A	07-Mar-17 A									
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	150	22-Apr-17 A	20-Oct-17 A							 		
NB03150	NB62 (80-110m) Under bridge - backfilling	87	21-May-18 A	01-Sep-18 A					 		 		

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 35 of 48

# Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange



				Pa	age 35	o of 48	3 (3-Dec-18)
2017	2018			2019			2020
			JF	A JJAS		J[F <mark>]  </mark> 4	
Existing Nam W	a Po Footbrid	ge rem	oved				
or Temp lighting c	of NWP bridge	issue					
17 A 🔶 Ducting	& Cable Draw	Install	ation	at TWSR-W	N/B (K	LHVB	) completed
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nterface connecti	ion to CW at S	/B					
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	Date	Revision	Checked	Approved
- 10	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		

WP Rev 07						W	P rev 7								
Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Tota Floa		2	014		2015	2016		20
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	30	20-Oct-18 A	23-Nov-18	22-Jun-19	26-Jun-19	174	JASO	JEA	<mark>JJJAJO</mark>		JJJAS		T JE	
NB03180	NB62 (10-170m) - Sheet piling & Excavation	11	01-Feb-17 A	17-Feb-17 A	22-5011-19	20-5011-19	1/4						 		
NB03190	NB62 (110-170m) - Footing & Wall Structure	50	18-Feb-17 A	21-Apr-17 A									 		
NB03200	NB62 (110-170m) - backfilling	20	21-May-18 A	13-Jun-18 A									 		
NB03210	NB62 (110-170m) - NB production	107	20-May-18 A	03-Sep-18 A									 		
NB03220	NB62 (110-170m) - NB post & panel installation	5	03-Sep-18 A	07-Sep-18 A										_	
	910-6930)-FH S/B Side														
Noise Barr NB03250	NB70 - Sheet piling & Excavation	18	20-May-16 A	10-Jun-16 A											
NB03260	NB70 - Footing & Wall Structure	69	11-Jun-16 A	31-Aug-16 A									 		
NB03270	NB70- backfilling	24	19-Aug-16 A	15-Sep-16 A									 		
NB03280	NB70 - NB production	75	20-Sep-16 A	03-Dec-16 A										•	
NB03290	NB70- NB post & panel installation	13	11-Dec-17 A	27-Dec-17 A									 		
Eanling Hig	hway Construction														
	Road Works														
Ch 6740-69	30												 		
RDZ20440	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 1) (Modify to final road level)	24	26-Aug-19	23-Sep-19	29-May-19	26-Jun-19	-74								
RDZ20450	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 2) (Modify to final road level)	65	25-Oct-17 A	12-Jan-18 A											
RDZ20460	Z2 (CH6740-6930): Fanling Highway N/B - D&R works (lane 3)	65	25-Oct-17 A	12-Jan-18 A											
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	89	25-Sep-17 A	12-Jan-18 A											
RDZ20490	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 4)	177	25-Oct-17 A	02-Jun-18 A											
RDZ20500	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 3)	17	04-Jun-18 A	23-Jun-18 A									 		
RDZ20510	Z2 (CH6740-6930): Fanling Highway S/B - D&R works (lane 2)	23	25-Jun-18 A	22-Jul-18 A									 		
RDZ20520	Z2 (CH6740-6930) : Fanling Highway S/B - D&R works (lane 1)	24	27-Feb-19	26-Mar-19	29-May-19	26-Jun-19	73						 		
RDZ20530	Z2 (CH6740-6930): Fanling Highway Road works (8 lanes) complete	0		23-Sep-19		26-Jun-19	-74						 		
North Buff	er Zone 2 (NBZ2) (within Zone 4) (Ch. 792	5 to 81	00)												
Site Format															
Site Formati															     
Site Forma Z4SF1000	Tree felling plan and permit from Engineer	0	06-Nov-13 A					♦ T	ree felling	plan and	permit from	Engineer	 		
Z4SF1010	Tree felling	42	27-Nov-13 A	17-Jan-14 A									 		
Z4SF1020	Install temp filter dam at existing box culvert	4	11-Jan-14 A	15-Jan-14 A									 		
Z4SF1030	Laying temp drainage pipe for drainage diversion	3	16-Jan-14 A	18-Jan-14 A									 		
Z4SF1040	Construct earth bund	9	21-Jan-14 A	04-Feb-14 A					<b>.</b>				 		
		10		20-Feb-14 A									 		
Z4SF1050	Remove existing unsutiable material		06-Feb-14 A						<u></u>				 		
Z4SF1060	Backfilling up to formation level for Drainage work	59	20-Feb-14 A	06-May-14 A						<u>.</u>			 		
Z4SF1065	Drainage Work	82	10-May-14 A	15-Aug-14 A									 		     
Z4SF1070	Backfilling (~20000m3)	254	10-May-14 A	19-Mar-15 A											
Retaining W															
RW761080	Base slab - W76 (~7m high)	35	20-Aug-14 A	30-Sep-14 A									 		
RW761085	Wall construction - W76 (~7m high)	113	03-Oct-14 A	14-Feb-15 A									 		
Z4SF1090	Watermains installation	65	10-Mar-15 A	29-May-15 A									 		
Z4SF1110	Backfilling up to road finishes level	58	22-Jun-15 A	28-Aug-15 A									 		
				207.009.1071									 	_	
Bridge Con						Control	. N.a. 1			1 1		1 1			<u>:</u>
Remaining Level     Actual Level of	of Effort					Contract	L INO. I	11/2012/	00						
Actual Work	Layout: WP rev 7			Widen	ing of Fanli	ng Highway ·	- Tai ł	lang to N	Wo Ho	o Shek	Interch	ange			I
Critical Remai	Data Date:20-Nov-18					Works Prog	ramm	e - WP F	Rev. 7						
<ul> <li>Milestone</li> <li>Crit. Milestone</li> </ul>	Page 36 of 48					-								-1-1	-   -

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P Rev 07					WP rev 7		
ivity ID	Activity Name	Original Duration	Start	Finish Late Start	Late Finish Tota Floa		2
	Yuen Footbridge						
General HKY1020	Site Clearance (TWSR-W side)	30	05-May-14 A	10-Jun-14 A			
HKY1025	Site Clearance (TWSR-E side)(SA346)	53	27-Nov-13 A	30-Jan-14 A			
HKY1030	Structure steel Shop drawing submission (HKYB)	54	20-Jun-14 A	22-Aug-14 A			
HKY1040	Structure steel Shop drawing approval (HKYB)	67	25-Aug-14 A	13-Nov-14 A			
HKY1050	Structure steel procurement (HKYB)	195	10-Dec-14 A	22-Jun-15 A			
HKY1060	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W side)	90	01-Apr-16 A	20-Jul-16 A			
HKY1070	Steel Staircase & Ramp available on site (HKYB-TWSR-W side)	0	22-Aug-16 A			◆ Steel S	Staircase
HKY1080	Steel Staircase & Ramp prefabrication (HKYB-TWSR-E side)	69	21-Oct-15 A	13-Jan-16 A			
HKY1090	Steel Staircase & Ramp available on site (HKYB-TWSR-E side)	0	27-Jan-16 A			♦ Steel Staircase & Ra	amp avai
HKY1100	Steel Bridge prefabrication (HKYB)	60	01-Apr-16 A	14-Jun-16 A			
HKY1110	Steel Bridge available on site (HKYB)	0	15-Jun-16 A			◆ Steel Bridg	je availab
HKY1180	Ho Ka Yuen Footbridge Complete	0		13-Oct-16 A		13-Oct-16 A ♦ Ho	Ka Yuen
HKY1190	Existing Ho Ka Yuen Footbridge Demolished	0		13-Oct-16 A		13-Oct-16 A ♦ Exis	sting Ho ł
HKY1200	VO - Delete P1 loading schedule available	0	28-Oct-14 A			♦ VQ - Delete P1 loading schedule available	
HKY1210	HKY footbridge design available for FLHY & TWSR-W section	223	28-Oct-14 A	03-Aug-15 A			
TWSR-We	st/ FL Highway N/B Side Section						
HKY1130	Soil Nail besides P6 & AB3 - VO	0	22-May-14 A			♦ Soil Nail besides P6 & AB3 - VO	
HKY1135	Soil Nail Works	76	15-Nov-14 A	14-Feb-15 A			
HKY1140	HKYP6 - Predrilling	9	06-Oct-14 A	15-Oct-14 A			
HKY1160	Revised Layout of HKY-P6	0	13-Apr-16 A			◆ Revised Layou	t of HKY-I
HKY1162	Mobilisation, backfill & remove completed ELS & Redesign ELS	25	14-Apr-16 A	13-May-16 A			
HKY1164	HKYP6 - additional rock breaking	23	16-May-16 A	11-Jun-16 A			
HKY1170	HKYP6 - Pile cap, Pier and Pier Head	60	13-Jun-16 A	22-Aug-16 A			
HKY1220	HKYAB3 - Predrilling	15	15-Oct-14 A	31-Oct-14 A			
HKY1230	HKYAB3 - Pre-bored H pile (6 nos) - VO40	6	03-Dec-15 A	09-Dec-15 A			
HKY1240	HKYAB3 - Pile Test	43	16-Dec-15 A	06-Feb-16 A			
HKY1250	HKYAB3 - pile cap & abutment wall	132	20-Aug-16 A	27-Jan-17 A			
HKY1260	HKYAB3 - Backfilling (~4m)	10	28-Jan-17 A	16-Feb-17 A			
HKY1270	Steel Staircase ready for erection (THFB-TWSR-W side)	0		16-Feb-17 A		16-Feb-17 A	🔶 Stee
HKY1273	Erect Stairecase (HKY-TWSR-W side)	18	23-Jun-17 A	14-Jul-17 A			
HKY1275	Existing HKY bridge structure removed (TWSR-W)	0		20-Nov-14 A		20-Nov-14 A ◆ Existing HKY bridge structure removed (TWSR	-W)
HKY1278	HKYP7 - ELS & Remove existing structure	64	20-Jul-15 A	03-Oct-15 A			
HKY1280	HKYP7 - Predrilling	5	10-Feb-15 A	14-Feb-15 A			
HKY1288	TMLG additional stop work period	6	17-Oct-15 A	25-Oct-15 A			
HKY1289	Additional re-set up works after stop work period	21	08-Nov-15 A	02-Dec-15 A			
HKY1290	HKYP7 - Pre-bored H pile (6 nos)	6	10-Dec-15 A	16-Dec-15 A			
HKY1310	HKYP7 - Pile cap, Pier and Pier Head	93	18-Jan-16 A	20-May-16 A			
HKY1314	TTA Closure for Ching Ming Festival	32	20-Mar-15 A	20-Apr-15 A			
HKY1315	Sheet piling for HKYAB4	18	20-Apr-15 A	11-May-15 A			
HKY1320	HKYAB4 - Predrilling	3	14-Feb-15 A	17-Feb-15 A			
HKY1330	HKYAB4 - Pre-bored H pile (16 nos)	55	12-May-15 A	17-Jul-15 A			
Remaining Le	evel of Effort Project File:WP Rev 07				Contract No.	HY/2012/06	
Actual Level	of Effort						
Actual Work Remaining W	/ork			Widening of Fanl	iing Highway - Tai l	Hang to Wo Hop Shek Interchange	
Critical Rema <ul> <li>Milestone</li> </ul>					Works Programn	ne - WP Rev. 7	
<ul> <li>Crit. Milestone</li> </ul>	Page 37 of 48						

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y ID	Activity Name		Original Duration	Start	Finish	Late Start	Late Finish	Total Float	13			2014		11-11-1-1-1	2015		20	16		2017
IKY1350	HKYAB4 - pile cap & abutr	nent wall	104	21-Mar-16 A	28-Jul-16 A				JAS	<u> </u>	JI-I A					<mark>₹ [N   J </mark> F				
HKY1360	HKYAB4 - Backfilling (~3m	ı)	12	29-Jul-16 A	11-Aug-16 A															
HKY1370	Steel Ramp ready for erec	tion (HKY-TWSR-W side)	0		22-Aug-16 A											22-	Aug-16	A 🔶 S	Steel Ramp re	eady for ere
HKY1390	Erect Ramp (HKY-TWSR-	N)	19	23-Aug-16 A	13-Sep-16 A															
HKY1400	Finishes Work		23	14-Sep-16 A	13-Oct-16 A														•	
HKY1410	Bridge Structure complete	(HKY-TWSR-W side)	0		13-Oct-16 A								<u> </u>				13-Oct-	16 A	♦ Bridge Stru	ucture comp
HKY1440	Remaining Finishes works	s of HKYFB	596	21-Nov-16 A	29-Nov-18	02-Apr-19	12-Apr-19	109												
HKY1520	VO11 - slope improvemen		45	30-Nov-18	24-Jan-19	13-Apr-19	10-Jun-19	109					<u> </u>							
Crossing I	Fanling Highway Sec	tion																		
HKY1420	HKYP2 - Predrilling (1nos		8	04-Jan-16 A	12-Jan-16 A								+			•••••				
HKY1430	HKYP2 - Pre-bored H pile	(8 nos)	24	20-Jan-16 A	25-Feb-16 A															
HKY1450	HKYP2 - Pile cap, Pier and	d Pier Head	78	26-Feb-16 A	02-Jun-16 A															
HKY1460	Erect HKY bridge Structure	e across fanling highway	12	15-Aug-16 A	27-Aug-16 A															
HKY1470	Finishes Work		19	20-Sep-16 A	13-Oct-16 A														•	
HKY1480	Bridge Structure complete	(THFB-Cross fanling highway)	0		13-Oct-16 A												13-Oct-	16 A	♦ Bridge Stru	ucture comp
TWSR-Eas	t FL Highway S/B S	ide Section																		
HKY1490	Temp Access formation		18	20-Feb-14 A	12-Mar-14 A															
HKY1500	HKYAB1 - Predrilling		12	29-May-14 A	12-Jun-14 A							•								
HKY1510	HKYAB1 - Pre-bored H pile	e (4 nos)	16	09-Jul-14 A	26-Jul-14 A							•								
HKY1530	HKYAB1 - pile cap & abutr	nent wall	71	24-Nov-14 A	17-Feb-15 A															
HKY1540	HKYAB1 - Backfilling (~3m	)	12	27-Feb-15 A	12-Mar-15 A									•						
HKY1550	HKYP3 - Predrilling		2	18-Jan-14 A	20-Jan-14 A						I									
HKY1560	HKYP3 - Pre-bored H pile	(8 nos)	28	04-Jul-14 A	05-Aug-14 A															
HKY1570	HKYP3 - Pile Test		31	18-Sep-14 A	18-Oct-14 A								 							
HKY1580	HKYP3 - Pile cap, Pier and	d Pier Head	209	24-Nov-14 A	13-Aug-15 A									·						
HKY1590	Erect Stairecase (HKYFB-	TWSR-E side)	17	15-Jan-16 A	03-Feb-16 A															
HKY1600	Finishes Work		44	20-Aug-16 A	13-Oct-16 A														•	
HKY1610	Bridge Structure complete	(HKYFB-TWSR-E side)	0		13-Oct-16 A												13-Oct-	16 A	♦ Bridge Stru	ucture comp
HKY1730	HKYP4 - Predrilling		5	21-Jan-14 A	25-Jan-14 A						I									
HKY1740	HKYP4 - Pre-bored H pile	(6 nos)	16	22-Jul-14 A	08-Aug-14 A							•								
HKY1760	HKYP4 - Pile cap, Pier and	d Pier Head	353	15-Oct-14 A	23-Dec-15 A											÷				
HKY1770	HKYP5 - Predrilling		12	20-May-14 A	03-Jun-14 A							•								
HKY1780	HKYP5 - Pre-bored H pile	(8 nos)	49	22-Jul-14 A	17-Sep-14 A											<u></u>				
HKY1800	HKYP5 - Pile cap, Pier and		243	15-Oct-14 A	13-Aug-15 A															
HKY1810	HKYAB2 - Predrilling		91	14-Jan-14 A	15-May-14 A											<u> </u>				
HKY1820	HKYAB2 - Pre-bored H pile	e (18 nos)	78	10-Jun-14 A	10-Sep-14 A															
HKY1830	HKYAB2 - Pile Test	·	29	20-Oct-14 A	17-Nov-14 A															
HKY1840	HKYAB2 - pile cap & abutr	nent wall	78	17-Nov-14 A	18-Feb-15 A															
HKY1850	HKYAB2 - Backfilling (~4m		12	27-Feb-15 A	12-Mar-15 A															
HKY1860	Erect Steel Ramp (HKYFB		118	20-Feb-16 A	15-Jul-16 A											<u> </u>				
HKY1870	Steel Ramp finishes work		670	13-Oct-16 A	19-Jan-19	08-Apr-19	10-Jun-19	113								·				
			070					113												
	of Existing Ho Ka Yue <b>st/ FL Highway N/B</b>																			
Remaining Le		Project File:WP Rev 07					Contract	No H	17/20	)12/	06	•						· · · · ·		
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Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float 13	20'	14	2015		201	6	20	)17	20	)18		2019		2020
HKY1875	Design and Procurement of Temp Ramp		01-Feb-14 A	10-Jun-14 A																	
HKY1877	Notified Soil nail is requird for AB3 & P6, decide start Temp Ramp first	0	22-May-14 A					• N	lotified Soil na	ail is requird	for AB3 & F	P6. decide	start Temp	Ramo firs	start						
HKY1880	start Construct Temp Ramp for existing HKY footbridge	77	11-Jun-14 A	10-Sep-14 A																	
HKY1890	Pedestrian diversion	0	06-Oct-14 A	06-Oct-14 A																	
HKY1900	Erect temp platform for demolishing Ramp & staircase at TWSR-W	24	17-Sep-14 A	16-Oct-14 A																	
HKY1910	Demolish existing ramp & staircase at TWSR-W	30	17-Sep-14 A	20-Nov-14 A																	
		30	17-00-14 A	20-110V-14 A																	
HKY1690	Fanling Highway Section Demolish existing HKY Footbridge	2	10-Oct-16 A	12-Oct-16 A																	
HKY1700	Removal of temporary platform	2	13-Oct-16 A	14-Oct-16 A									·····								
TWSR-Fa	st FL Highway S/B Side Section																				
HKY1670	Demolish existing HKY footbridge (TWSR-E side)	2	11-Oct-16 A	12-Oct-16 A									1								
HKY1920	Decide Erect Temp Ramp for Slip Road Y at TWSR-E side	0	19-Aug-14 A						♦ Decide E	rect Temp R	amp for Sli	p Road Y	at TWSR-E	side				•			
HKY1930	Procurement of Temp Ramp	190	20-Sep-14 A	28-Mar-15 A														•			
HKY1940	Demolish existing TWSR-E Existing Staircase	8	20-Mar-15 A	28-Mar-15 A														•			
HKY1950	Erection of Temp Ramp at TWSR-E Existing Staircase location	103	30-Mar-15 A	04-Aug-15 A							·							•			
HKY1960	Demolish existing TWSR-E existing Ramp	36	05-Aug-15 A	15-Sep-15 A								·						•			
HKY1970	1 lane of slip road Y space available	0		16-Sep-15 A					1	6-Sep-15 A	♦ 1 lane (	of slip road	l Y space a	/ailable				•			
TWSR-Eas	st Construction																				
	Road Works																				
	st FL Highway S/B Side Section Road work for New TWSR-East	128	15-May-15 A	16 Oct 15 A																	
		120	13-Way-13 A	10-001-10 A																	
Other Wor Slope Work																					
TWSR-Eas	st FL Highway S/B Side Section																				
S1000	Slope S51-Fill ~3m	40	20-Apr-17 A	08-Jun-17 A																	
	Ch. 7925 to 8700)																				
	rier Along TWSR-West and Laying New Utilities																				
	nd Utility Works Watermain "A" (Ch 1989-2529)																				
DI0100	DN450 DI watermain laying (0-50m)	24	07-Aug-17 A	02-Sep-17 A																	
DI0110	DN450 DI watermain laying (50-100m)	15	04-Sep-17 A	20-Sep-17 A																	
DI0120	DN450 DI watermain laying (100-150m)	25	20-Sep-17 A	20-Oct-17 A																	
DI0130	DN450 DI watermain laying (150-200m)	26	20-Oct-17 A	20-Nov-17 A																	
DI0140	DN450 DI watermain laying (200-250m)	30	20-Nov-17 A	23-Dec-17 A																	
DI0150	DN450 DI watermain laying (250-300m)	30	27-Dec-17 A	31-Jan-18 A														1-1			
DI0160	DN450 DI watermain laying (300-350m)	38	01-Feb-18 A	20-Mar-18 A											· · · · · · · · · · · · · · · · · · ·			1-1			
DI0170	DN450 DI watermain laying (350-400m)	24	20-Mar-18 A	20-Apr-18 A														· <b> </b>			
DI0180	DN450 DI watermain laying (400-450m)	177	20-Apr-18 A	20-Nov-18 A											·		<u> </u>	<b> </b> +	 		
DI0190	DN450 DI watermain laying (450-500m)	30	20-Nov-18	24-Dec-18	24-Jan-19	01-Mar-19	53											•			
DI0200	DN450 DI watermain laying (500-540m)	30	27-Dec-18	31-Jan-19	02-Mar-19	06-Apr-19	53											· <b> </b> <del> </del>			
Noise Barr	rier Along Fanling Highway N/B																				
NB75 (Ch.7	7930-8090)-FH N/B Side																				
	rier Works NB75 -Pre-drilling (Ch7930-7990)	40	28-Nov-16 A	25- lop-17 A																	
NB4040		48	28-Nov-16 A	25-Jan-17 A																	
NB4050	NB75 - piling (NB75/01-05, 0.19m -24no)	22	10-Jan-17 A	11-Feb-17 A										<b>.</b>							
NB4060	NB75 - Footing & Wall Structure (Ch7930-7990)	70	20-Mar-17 A	16-Jun-17 A										1							
Remaining L						Contract	No. HY/2	2012/06								Date 07-Nov-1		vision ( Rev 4	Checked	A	proved
Actual Work	Layout: WP rev 7			Wideni	ng of Fanli	ng Highway -	Tai Han	g to Wo Hop	Shek Inte	erchang	е					17-Aug-1	7 WP	Rev 5			
Remaining V Critical Rem	Data Data: 20 Nov 19				-	Works Prog				5						29-Mar-1 03-Dec-1		Rev 6			
Milestone	Page 39 of 48					WUINS FIUS		WF INGV. /								US-Dec-1	<u>5  VVP</u>	ILEV /			
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	Activity Name	Duration	Start			Float		<u>a</u> 1	2014 JF A JJASO			20 JF A J
NB4070	NB75 - backfilling (Ch7930-7990)	27	21-Aug-17 A	20-Sep-17 A				<u> </u>				
NB4080	NB75 - NB production (Ch7930-7990)	32	20-Oct-17 A	20-Nov-17 A						 		
NB4090	NB75 - NB post installation (Ch7930-7990)	116	20-Dec-17 A	16-May-18 A						 		
NB4100	NB75 -Pre-drilling (Ch7990-8000)-(HKY-P1) & G34	48	28-Nov-16 A	25-Jan-17 A						 		
NB4110	NB75 - piling (NB75/06, 0.19m -4no) & G34 (10 nos)	4	08-Feb-17 A	11-Feb-17 A						 		1
NB4120	NB75 - Footing & Wall Structure (Ch7990-8000) & G34	50	08-Jun-17 A	05-Aug-17 A						 		•
NB4130	NB75 - backfilling (Ch7990-8000)	27	21-Aug-17 A	20-Sep-17 A						 		
NB4140	NB75 - NB production (Ch7990-8000)	32	20-Oct-17 A	20-Nov-17 A						 		
NB4150	NB75 - NB post installation (Ch7990-8000)	111	28-Dec-17 A	16-May-18 A						 		
NB4160	NB75 -Pre-drilling (Ch8000-8050)	10	26-Jan-17 A	14-Feb-17 A						 		
NB4170	NB75 - piling (NB75/07-10, 0.19m -20no)	19	15-Feb-17 A	08-Mar-17 A						 		
NB4180	NB75 - Footing & Wall Structure (Ch8000-8050)	23	08-Jun-17 A	05-Jul-17 A						 		
NB4190	NB75 - backfilling (Ch8000-8050)	27	21-Aug-17 A	20-Sep-17 A						 		
NB4200	NB75 - NB production (Ch8000-8050)	32	20-Oct-17 A	20-Nov-17 A						 		
NB4210	NB75 - NB post installation (Ch8000-8050)	116	20-Dec-17 A	16-May-18 A						 		
NB4220	NB75 -Pre-drilling (Ch8050-8090)	9	26-Jan-17 A	13-Feb-17 A						 		-
NB4230	NB75 - piling (NB75/11-14, 0.19m -18no)	14	21-Feb-17 A	08-Mar-17 A						 		•
NB4240	NB75 - Footing & Wall Structure (Ch8050-8090)	26	20-Jun-17 A	20-Jul-17 A						 		
NB4250	NB75 - backfilling (Ch8050-8090)	27	21-Aug-17 A	20-Sep-17 A						 		
NB4260	NB75 - NB production (Ch8050-8090)	152	20-Nov-17 A	20-Apr-18 A						 		
NB4270	NB75 - NB post installation (Ch8050-8090)	21	21-Apr-18 A	16-May-18 A						 		
NB4275	NB75 - NB panel installation	20	20-Nov-18	12-Dec-18 17-Dec-18	11-Jan-19	23				 		
NB4280	NB75 complete	0		12-Dec-18	11-Jan-19	23				 		
NB4580	NB75 backfilling complete	0		31-Jan-18 A						 		
NB4600	NB75 structure complete	0		20-Aug-17 A						 		20-Aug-17
NB4610	NB75 Drainage Works	162	20-Jul-17 A	31-Jan-18 A						 		
	8090-8450)-FH N/B Side											
•	rier Works											
NB4285	TTA for FH N/B (Stage 6) start	0	26-Nov-16 A								•	TTA for FH
NB4290	NB77 -Pre-drilling (Ch8090-8190)	51	01-Dec-16 A	09-Feb-17 A								
NB4300	NB77 - piling (NB77/01-08, 0.19m -32no)	63	28-Feb-17 A	18-May-17 A						 		
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	399	20-Jul-17 A	20-Nov-18 A								
NB4320	NB77 - backfilling (Ch8090-8190)	16	02-Nov-18 A	20-Nov-18 A								
NB4330	NB77 - NB production (Ch8090-8190)	31	21-Nov-18 A	21-Dec-18 20-Nov-18	21-Dec-18	0						
NB4340	NB77 - NB post & panel installation (Ch8090-8190)	15	22-Dec-18	11-Jan-19 22-Dec-18	11-Jan-19	0						
NB4350	NB77 -Pre-drilling (Ch8190-8290)	4	10-Feb-17 A	14-Feb-17 A						 		1
NB4360	NB77 - piling (NB77/09-17, 0.19m -36no)	46	20-Mar-17 A	18-May-17 A						 		
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	144	20-Sep-17 A	16-Mar-18 A						 		
NB4380	NB77 - backfilling (Ch8190-8290)	17	01-Mar-18 A	20-Mar-18 A						 		
NB4390	NB77 - NB production (Ch8190-8290)	62	17-Mar-18 A	17-May-18 A						 		
NB4400	NB77 - NB post & panel installation (Ch8190-8290)	15	20-Nov-18	06-Dec-18 22-Dec-18	11-Jan-19	28			·	 		
NB4410	NB77 -Pre-drilling (Ch8290-8390)	5	15-Feb-17 A	20-Feb-17 A			+k			 		

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 40 of 48

# Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange



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	Date	Revision	Checked	Approved
12.0	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		

P Rev 07 tivity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	/P rev 7										
		Duration	Start	THISH			Float			JIF		JIF	201 A		JIE	2016 AUJJASOU	
NB4420	NB77 - piling (NB77/18-26, 0.19m -36no)	87	08-Apr-17 A	26-Jul-17 A					1911								
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	144	03-Nov-17 A	02-May-18 A						+							
NB4440	NB77 - backfilling (Ch8290-8390)	19	13-Nov-18 A	04-Dec-18	20-Nov-18	04-Dec-18	0			+							
NB4450	NB77 - NB production (Ch8290-8390)	221	03-May-18 A	09-Dec-18	02-Dec-18	21-Dec-18	12			+							
NB4460	NB77 - NB post & panel installation (Ch8290-8390)	15	10-Dec-18	28-Dec-18	22-Dec-18	11-Jan-19	11										
NB4465	TTA for bay 27-32	1	20-May-17 A	20-May-17 A										····-			
NB4470	NB77 -Pre-drilling (Ch8390-8450)& G35	34	20-May-17 A	29-Jun-17 A													
NB4475	NB77 - piling (NB77/27 - 28, 0.19m -8no)	42	01-Jul-17 A	19-Aug-17 A													
NB4480	NB77 - piling (NB77/N1-N2, 0, 19m -24no) (confirming design by	65	26-Jul-17 A	11-Oct-17 A													
NB4482	instruction (HY/2012/06)/R10/115/(256) NB77 - Footing & Wall Structure (NB77/27 - 28, N1-N2)	145	20-Apr-18 A	12-Oct-18 A													
NB4485	(Ch8390-8450) NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos)	52	19-Aug-17 A	20-Oct-17 A					÷					····-			
NB4490	NB77 - Footing & Wall Structure (NB77/31 - 32, 0.19m & G35)	40	15-Oct-18 A	30-Nov-18	27-Nov-18	07-Dec-18	6										
	(Ch8390-8450) NB77 - backfilling (Ch8390-8450)				20-Nov-18		0										
NB4500		13	20-Nov-18 A	04-Dec-18		04-Dec-18					¦						
NB4510	NB77 - NB production (Ch8390-8450)	30	01-Dec-18	30-Dec-18	08-Dec-18	06-Jan-19	7	ļ									
NB4520	NB77 - NB post & panel installation (Ch8390-8450)	5	31-Dec-18	05-Jan-19	07-Jan-19	11-Jan-19	5										
NB4530	NB77 complete	0		11-Jan-19		11-Jan-19	0										
NB4570	NB77 backfilling complete	0		04-Dec-18		04-Dec-18	0										
NB4590	1650 Drainage Lining installation	90	28-Dec-18	16-Apr-19	19-Feb-19	10-Jun-19	42										
NB4620	NB77 Drainage Works	134	10-May-18 A	19-Oct-18 A													
Bridge Con																	
	p Shek Pedstrian & Cycle Bridge																
General WHS1000	Site Clearance (Main bridge area SA344)	20	20-Jan-14 A	20-Feb-14 A													
WHS1010	Site Clearance & Temp Platform erection (SA340)	9	05-May-14 A	15-May-14 A													
WHS1020	Structure steel Shop drawing submission (WHSB)	29	21-Jul-14 A	22-Aug-14 A													
WHS1030	Structure steel Shop drawing approval (WHSB)	68	23-Aug-14 A	13-Nov-14 A													
WHS1040	Structure steel procurement (WHSB)	256	10-Dec-14 A	22-Aug-15 A													
WHS1050	Steel Ramp prefabrication (WHSB)	152	24-Aug-15 A	03-Mar-16 A											<u>.</u>		
WHS1060	Steel Ramp available on site (WHSB)		04-Mar-16 A	03-101ai-10 A												Steel Ramp avai	ilabla on si
		0		00.14.40.4													
WHS1070	Steel Staircase prefabrication (WHSB)	152	24-Aug-15 A	03-Mar-16 A													
WHS1080	Steel Staircase available on site (WHSB)	0	04-Mar-16 A					ļ			, , , , , , , , , , , , , , , , , , ,				•	Steel Staircase a	
WHS1105	W77A & W77B & backfilling work complete	0		03-Jan-18 A							· · · · · · · · · · · · · · · · · · ·						03
WHS1110	Wo Hop Shek Bridge Complete	0		27-Mar-19		10-Jun-19	58										
WHS1120	Diversion of existing pedestrian from existing to proposed footbrdige	1	26-Nov-16 A	26-Nov-16 A													
WHS1140	Existing Wo Hop Shek Bridge Demolished	0		10-Oct-17 A													10-Oct
	st/ FL Highway N/B Side Section																
WHS1150	WHSP2 - Predrilling	7	19-Mar-14 A	26-Mar-14 A						L							
WHS1160	WHSP2 - Pre-bored H pile (8 nos)	27	23-Mar-15 A	25-Apr-15 A													
WHS1170	WHSP2 - Pile Test	35	27-May-15 A	30-Jun-15 A													
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	113	17-Aug-15 A	31-Dec-15 A													
WHS1190	WHSP6 - Predrilling	9	27-Mar-14 A	07-Apr-14 A													
WHS1200	WHSP6 - Pre-bored H pile (6 nos)	48	05-Mar-15 A	04-May-15 A													
WHS1220	WHSP6 - Pile cap, Pier and Pier Head	74	21-Dec-15 A	31-Mar-16 A													
Remaining Le	vel of Effort Project File:WP Rev 07	1	1	1	1	Contrac	t No F	17/2	012	/06	<u> </u>	1	. i	1	<u> </u>		
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Actual Work Remaining Wo				Wideni	ng of Fanli	ng Highway	- Tai H	lang	j to	Wo	Hop Shek I	ntero	chan	ge			
Critical Remai	Page 41 of 48					Works Prog	gramm	e - V	NP I	Rev.	7						

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	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Float	13 JIASO I						20	17 JASIN JIF	201					020
WHS1222	WHSP7 - Predrilling	12	19-Mar-14 A	01-Apr-14 A																	
WHS1224	WHSP7 - Pre-bored H pile (6 nos)	29	05-Mar-15 A	10-Apr-15 A							i	 									
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	45	27-Dec-18	20-Feb-19	08-Mar-19	04-May-19	58					 									
WHS1230	WHSAB1 - Predrilling	13	16-May-14 A	30-May-14 A						1		 									
WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	39	23-Mar-15 A	11-May-15 A								 									
WHS1260	WHSAB1 - pile cap & abutment wall	56	20-Jul-18 A	22-Sep-18 A								 									
WHS1270	WHSAB1 - Backfilling (~4m)	27	20-Nov-18 A	20-Dec-18	29-Mar-19	04-May-19	106					 									
WHS1280	Steel Staircase ready for erection (WHS-TWSR-W side)	0		20-Feb-19		04-May-19	58					 					20-Feb	-19 ♦ \$I	eel Stairca	ise ready fαr e	rec
WHS1290	Erect Stairecase (WHS-TWSR-W side)	30	21-Feb-19	27-Mar-19	06-May-19	10-Jun-19	58					 									
WHS1300	Existing WHS bridge structure removed	0		26-Jan-17 A								 2	6-Jan-17A ♦	Existing	WHS bridge stru	cture re	moved				
WHS1350	WHSAB2 - Predrilling (VO018)	13	03-Feb-17 A	20-Feb-17 A								 	•••••								
WHS1360	WHSAB2 - Pre-bored H pile (9 nos) (VO018)	26	20-Feb-17 A	21-Mar-17 A								 									
WHS1362	WHSP8, P9 - Predrilling (VO018)	0	23-Feb-15 A	27-Feb-15 A								 									
WHS1364	WHSP8, P9 - Pre-bored H pile (12 nos) (VO018)	10	27-Feb-15 A	10-Mar-15 A								 									
WHS1370	WHSAB2, P8, P9 - Pile Test	31	21-Mar-17 A	20-Apr-17 A								 									
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	225	20-Jun-17 A	20-Mar-18 A								 		·							
WHS1390	WHSAB2, P8, P9 - Backfilling (~3m)		20-Mar-18 A	16-Apr-18 A								 									
WHS1400	2nd half Steel Ramp ready for erection (WHS-TWSR-W side)	0	20-1viai-10 A	16-Apr-18 A								 			16-Apr 18 A	• 2nd	half Sta	ol Pamp	roady for a	rection (WHS-	 TV
			00 May 40 A									 			то-Арі-То А	<ul> <li>211u</li> </ul>			eauy ioi e		
WHS1410	Erect 2nd half Ramp	28	03-May-18 A	05-Jun-18 A	00.1.10							 									
WHS1420	Ramp Finishes Work	138	13-Jul-18 A	24-Dec-18	30-Jan-19	07-Mar-19	58					 									
WHS1430	Bridge Structure complete (WHS-TWSR-W side)	0		27-Mar-19		10-Jun-19	58					 					27-N	ar-19 🔶	Bridge Str	ucture comple	ίе 
WHS1892	WHSP3 - Predrilling	6	11-Mar-14 A	17-Mar-14 A								 									
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	26	10-Apr-15 A	11-May-15 A								 									
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	152	02-Jul-15 A	31-Dec-15 A																	
WHS1900	WHSP4 - Predrilling	6	09-Apr-14 A	15-Apr-14 A					I												
WHS1910	WHSP4 - Pre-bored H pile (8 nos)	48	05-Mar-15 A	04-May-15 A								 									
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	335	02-Jul-15 A	20-Aug-16 A								 		· l							
WHS1940	WHSP5 - Predrilling	12	06-May-14 A	20-May-14 A								 									
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	33	23-Mar-15 A	04-May-15 A							·	 									
WHS1970	WHSP5 - Pile cap, Pier and Pier Head	69	29-Dec-15 A	31-Mar-16 A								 									
WHS1980	1st half Steel Ramp ready for erection (WHS-TWSR-W side)	0		20-Aug-16 A								 20-Aug-16 A	A ♦ 1st half St	eel Ram	p ready for erecti	on (WH	IS-TWS	R-W side	)		
WHS1990	Erect 1st half ramp	119	10-May-16 A	29-Sep-16 A								 									
WHS2000	Erect temp pedestrian ramp besides 1st half ramp	56	27-Jul-16 A	30-Sep-16 A								 									
WHS2010	Erect temp access between existing bridge to 1st half ramp	71	27-Jul-16 A	20-Oct-16 A								 									
WHS2020	Diverse pedestrian from existing ramp to new ramp	0		26-Nov-16 A								 26-No	ov-16A ♦ Dive	erse ped	estrian from exis	ting ram	np to ne	w ramp			
WHS2040	Verbal instruction of VO for WHS Ramp modification (1st stage)	0	23-Oct-17 A									 			♦ Verbal ir	structio	on of VC	for WHS	Ramp mo	dification (1st	sta
WHS2100	Shop Drawing preparation, submission & approval	90	20-Oct-17 A	06-Feb-18 A								 									
WHS2110	Material procurement & testing	64	21-Nov-17 A	06-Feb-18 A								 									
WHS2120	Ramp fabrication		07-Feb-18 A	02-May-18 A								 									
		50																			
WHS1440	Fanling Highway Section WHSP1 - Predrilling	4	27-Jan-14 A	30-Jan-14 A					T			 									
WHS1450	WHSP1 - Pre-bored H pile (6 nos)	65	03-Mar-14 A	23-May-14 A								 									
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Remaining Le	evel of Effort Project File:WP Rev 07					Contrac	t No. H	IY/2012/	ne			 				Date	Rev	ision Ch	necked	Approve	ЭС

V	Remaining Level of Effort	Project File:WP Rev 07	Contract No. HY/2012/06	
	Actual Level of Effort			
	Actual Work	Layout: WP rev 7	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange	
	Remaining Work	Data Data 20 Nav. 40		
	Critical Remaining Work	Data Date:20-Nov-18	Works Programme - WP Rev. 7	
•	♦ Milestone	Page 42 of 48		
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Date	Revision	Спескеа	Approved
07-Nov-16	WP Rev 4		
17-Aug-17	WP Rev 5		
29-Mar-18	WP Rev 6		
03-Dec-18	WP Rev 7		

P Rev 07 ivity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	P rev 7			
		Duration					Float	13 2014 2015 JANSON JIF A JJANSON JIF A JJANSON JF A		JIF IN
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	346	18-Jun-14 A	19-Aug-15 A						
WHS1480	Erect WHS bridge Structure across fanling highway	93	20-Jan-16 A	23-May-16 A						
WHS1490	Finishes Work	57	20-Sep-16 A	26-Nov-16 A						
WHS1500	Bridge Structure complete (WHSB-Cross fanling highway)	0		26-Nov-16 A				2	6-Nov-16A 🔶	Bridge Str
WHS1510	TTA for new WHS bridge submission & approval	33	20-Feb-18 A	02-Apr-18 A						
WHS1520	Remove railing	7	03-Apr-18 A	11-Apr-18 A						
WHS1530	Bridge floor marking	2	12-Apr-18 A	13-Apr-18 A						
WHS1540	Install bollards	5	13-Apr-18 A	18-Apr-18 A						
WHS2042	t FL Highway S/B Side Section	91	20-Dec-13 A	22-Apr-14 A						
WHS2045	Temp footbridge $\infty$ nstruction for pedestrian diversion	0	20-May-14 A	20-May-14 A						
WHS2050	North Abutment Wall (AW1) - Predrilling	9	20-Jun-14 A	30-Jun-14 A						
WHS2060	North Abutment Wall (AW1) - Pre-bored H pile (4 nos)	38	20-Aug-14 A	06-Oct-14 A						
WHS2070	North Abutment Wall (AW1) - Pile Test	0	06-Oct-14 A	06-Oct-14 A						
WHS2075	North Abutment Wall (AW1) - Temp Shoring	56	24-Nov-14 A	30-Jan-15 A						
WHS2080	North Abutment Wall (AW1) -pile cap & abutment wall	45	31-Jan-15 A	01-Apr-15 A						
WHS2090	North Abutment Wall (AW1) - Backfilling (~6m)	173	02-Apr-15 A	31-Oct-15 A						
	of Existing Wo Hop Shek Pedstrian & Cycle Bridge									
TWSR-Wes WHS1870	st/ FL Highway N/B Side Section Install Temp support to remove existing ramp	2	26-Dec-16 A	29-Dec-16 A						
WHS1880	Remove existing ramp for 2nd half new ramp construction	25	29-Dec-16 A	28-Jan-17 A						
WHS1890	Demolish existing WHS footbridge (TWSR-W side)	25	26-Dec-16 A	26-Jan-17 A						<b>-</b>
WHS2030	Remove temp filled platform	1	27-Jan-17 A	28-Jan-17 A						
Crossing F WHS1790	Fanling Highway Section	95	17-Oct-16 A	15-Feb-17 A						
		26		17-Mar-17 A				<b> </b>		
WHS1800	Demolish existing WHS Footbridge		16-Feb-17 A							
WHS1820	Remove existing column	9	10-Mar-17 A	20-Mar-17 A						
TWSR-East WHS1840	t FL Highway S/B Side Section Demolish existing WHS Footbridge abutment wall at W77A (Instructed	16	20-Sep-17 A	10-Oct-17 A						
	by letter (HY/2012/06)/M15/200/(45))	10	20-0ep-17 A							
	t Construction Road Works									
	st/ FL Highway N/B Side Section									
RDZ41180	TWSR -W Road Works rectification	50	01-Feb-19	02-Apr-19	08-Apr-19	10-Jun-19	53			
Slip Road Y	<b>Construction</b>									
	Road Works									
TWSR-East RDZ41000	t FL Highway S/B Side Section Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4 TTA-Stage 1)	239	02-Mar-15 A	16-Dec-15 A				·····		
RDZ41010	Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4 TTA-Stage 2)	132	13-Jul-15 A	16-Dec-15 A						
								·····		
RDZ41020	Construct Slip Rd Y @ existing TWSR-E junction (Ch8050-8100)(SA341) (Z4 TTA-Stage 3)	207	01-Dec-15 A	19-Aug-16 A						
	Construct Slip Rd Y - 1st Lane (Ch8370-8650)(SA340) (Z4 TTA-Stage	119	20-Jul-17 A	08-Dec-17 A						
RDZ41060	4)		09-Dec-17 A	09-Dec-17 A						
RDZ41060 RDZ41070		1	09-Dec-17 A							
	4)	1 55	15-Mar-19	23-May-19	15-Mar-19	23-May-19	0			
RDZ41070	<ul> <li>4)</li> <li>Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4)</li> <li>Construct Slip Rd Y- 2nd lane (Ch8370-8650)(SA340) (Z4 TTA-Stage 5)</li> <li>Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @ Existing</li> </ul>			23-May-19 07-Jun-16 A	15-Mar-19	23-May-19	0			
RDZ41070 RDZ41080	<ul> <li>4)</li> <li>Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4)</li> <li>Construct Slip Rd Y- 2nd lane (Ch8370-8650)(SA340) (Z4 TTA-Stage 5)</li> </ul>	55	15-Mar-19		15-Mar-19	23-May-19	0		•	
RDZ41070 RDZ41080 RDZ41082	4) Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4) Construct Slip Rd Y- 2nd lane (Ch8370-8650)(SA340) (Z4 TTA-Stage 5) Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @ Existing Ramp location	55 207	15-Mar-19 17-Sep-15 A	07-Jun-16 A	15-Mar-19	23-May-19	0			
RDZ41070 RDZ41080 RDZ41082 RDZ41084 RDZ41085	4) Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4) Construct Slip Rd Y- 2nd lane (Ch8370-8650)(SA340) (Z4 TTA-Stage 5) Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @ Existing Ramp location Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 temp lane Construct Slip Rd Y (Ch7925-8050)(SA346) - remaining lane	55 207 163	15-Mar-19 17-Sep-15 A 11-Nov-15 A	07-Jun-16 A	15-Mar-19					
RDZ41070 RDZ41080 RDZ41082 RDZ41084	4)         Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4)         Construct Slip Rd Y- 2nd lane (Ch8370-8650)(SA340) (Z4 TTA-Stage 5)         Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @ Existing Ramp location         Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 temp lane         Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 temp lane         Construct Slip Rd Y (Ch7925-8050)(SA3460) - remaining lane         wel of Effort         Project File:WP Rev 07	55 207 163	15-Mar-19 17-Sep-15 A 11-Nov-15 A	07-Jun-16 A	15-Mar-19			IY/2012/06		
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RDZ41070 RDZ41080 RDZ41082 RDZ41084 RDZ41085	4)       Traffic diversion to slip rd Y - half lane(Z4 TTA-Stage 4)         Construct Slip Rd Y- 2nd lane (Ch8370-8650)(SA340) (Z4 TTA-Stage 5)         Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @ Existing Ramp location         Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 temp lane         Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 temp lane         Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 temp lane         Construct Slip Rd Y (Ch7925-8050)(SA346) - remaining lane         evel of Effort         of Effort         Project File:WP Rev 07         Layout: WP rev 7         ork         Data Date:20-Nove18	55 207 163	15-Mar-19 17-Sep-15 A 11-Nov-15 A	07-Jun-16 A 07-Jun-16 A 19-Dec-16 A		Contract ng Highway -	No. H Tai H			

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PRev 07		<u></u>					/P rev 7													P	age 44 of	48 (3-Dec
ivity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float	13		2014		2015		2016		)17	201			2019		2020
RDZ41088	Gazettal period for Slip Road Y commissioning	183	22-Nov-18	23-May-19	22-Nov-18	23-May-19	0															
RDZ41089	Slip Road Y (Ch7925-8650) complete	0		23-May-19		23-May-19	0											2	3-May-1	9 🔶 Şlip R	oad Y (Ch	7925-8650
Underground	d Utility Works																					
DN600 and	DN900 Watermain																					
DN0900	Design Information available for construction - DN600 stage 1 (Horizontal alignment)	0	11-Jun-14 A												00 stage 1 (Hori							
DN0910	Design Information available for construction - DN600 stage 1 (Vertical alignment)	0	18-Jul-14 A							♦ De	ign Informati	ion availab	le for consti	ruction - DI	1600 stage 1 (Ve	rtical alignm	nent)					
DN0990	DN600 & DN900 watermain laying (Ch8250-8370)(SA340) (near Z4 TTA-Stage 1) (W76A bay 3 to 7)	12	31-Oct-14 A	13-Nov-14 A																		
DN1000	DN600 & DN900 watermain laying (Ch8250-8370)(SA340) (near Z4 TTA-Stage 1) (W76A bay 7 to petrol station)	26	29-Nov-14 A	31-Dec-14 A							•											
DN1010	DN600 & DN900 watermain laying (Ch8100-8250)(SA342) (near Z4	50	15-May-15 A	15-Jul-15 A																		
DN1020	TTA-Stage 2) DN600 & DN900 watermain laying (Ch8050-8100)(SA341) (near Z4	50	15-May-15 A	15-Jul-15 A																		
DN1030	TTA-Stage 3) DN600 & DN900 watermain laying (Ch7925-8050)(SA346)	117	15-Nov-14 A	15-Apr-15 A																		
DN1040	DN600 & DN900 watermain laying(Ch8370-8650)(SA340) (near Z4	45	29-Jul-15 A	19-Sep-15 A																		
DN1050	TTA-Stage 4) DN600 & DN900 watermain laying complete (except DN600 lapping	0		19-Sep-15 A							19-Se	p-15A ♦	DN600 & D	N900 wate	rmain laying cor	nplete (exce	pt DN600 la	pping s	ection)			
DN1054	section) Watermain (DN900/1200) changeover for DN600 Works	85	20-Oct-15 A	30-Jan-16 A																		
DN1056	Laying DN600 section after DN900 changeover Works	148	01-Feb-16 A	09-Aug-16 A																		
		5																				
DN1060	Watermain (DN600) changeover for TTA stage 4		22-Aug-16 A	26-Aug-16 A																		
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to W77B)(30m/section)	33	14-Aug-17 A	20-Sep-17 A																		
	6A Construction																					
Retaining W	all W 76A t FL Highway S/B Side Section																					
W76A1000	Design Information available for construction - W76A	0	26-May-14 A							Design	Information	available f	or construct	tion - W76A	\							
W76A1015	Temp. road work for TTA for DN600 & W76A (bay4-8)(TTA-1)	59	11-Jun-14 A	19-Aug-14 A																¦¦		
W76A1016	W76A construction (bay 3, 6-8,10)	85	20-Aug-14 A	30-Nov-14 A																		
W76A1017	W76A backfilling work (bay 3, 6-8,10)	32	14-Nov-14 A	20-Dec-14 A																		
W76A1018	PCCW drawpit construction	27	19-Jan-15 A	18-Feb-15 A																		
W76A1019	W76A construction (bay 4.5 wall)	27	15-Jan-15 A	14-Feb-15 A																		
W76A1020	W76A construction (bay 9)	57	27-Jun-15 A	02-Sep-15 A				·····				·····										
W76A1024	Watermain installation	56	02-Mar-15 A	09-May-15 A																		
W76A1026	WSD installation for Caltex (CS)	5	22-Jun-15 A	26-Jun-15 A								<b>I</b>										
W76A1030	W76A backfilling work (bay 4,5,9)	23	02-Sep-15 A	29-Sep-15 A																		
W76A1032	W76A construction (bay 1-2 & 11-13)	81	19-May-14 A	22-Aug-14 A																		
W76A1035	W76A backfilling work (bay 1-2 & 11-13)	23	23-Aug-14 A	19-Sep-14 A																ii		
W76A1050	Drainage work for Caltex access road	148	20-Jul-17 A	15-Jan-18 A																		
W76A1060	Road work for Caltex access road	160	16-Jan-18 A	02-Aug-18 A																		
Fanling Hig	hway Construction																					
Drainage & I																						
	st/ FL Highway N/B Side Section Construct FH N/B Lane 1 (at NBZ2)	50	20-Feb-18 A	30-Apr-18 A																		
RDZ41102		56						ļļ														
RDZ41104	Construct FH N/B Lane 2 (at NBZ2)	20	21-May-18 A	13-Jun-18 A																		
RDZ41105	TTA N14A Lane 2 (at NBZ2) with Chun Wo	0		14-Jul-18 A												14	4-Jul-18 A	▶ 1TA N	14A Lan	e 2 (at NBZ	2) with Chu	ın Wo
RDZ41106	Construct FH N/B Lane 3 (at NBZ2)	30	16-Jul-18 A	18-Aug-18 A																		
RDZ41107	TTA N15A Lane 3 (at NBZ2) with Chun Wo	0		18-Aug-18 A													18-Aug-18 A	♦ TTA	N15A La	ane 3 (at Ni	3Z2) with C	hun Wo
RDZ41108	Construct FH N/B Lane 4 (at NBZ2)	81	20-Aug-18 A	24-Nov-18	29-Nov-18	04-Dec-18	8												•			
RDZ41109	TTA Lane 4 (at NBZ2) with Chun Wo	0		24-Nov-18		04-Dec-18	8									L	24-N	lov-18	TTA L	ane 4 (at NI	3Z2) with C	hun Wo
	vel of Effort Project File:WP Rev 07					<b>O</b> err fre	4 N - 1		2/02					<u> </u>	!	: : 	Date	Por	ision IC	Checked		proved
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Actual Work Remaining Wo	Layout: WP rev 7			Widen	ing of Fanl	ing Highway	- Tai H	lang to	o Wo H	op She	k Interch	nange					17-Aug-17	' WP	Rev 5			
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Milestone	Page 44 of 48																		•			

ID	Activity Name	Original	Start	Finish	Late Start	W	Total											
		Duration	Start	1 111511		Late I mish	Float		สถา	JIE		)14 ILIIAISI		201   F   A   J .		201		
RDZ41110	Construct FH N/B Lane 1 (Ch8100-8600)	18	05-Dec-18	27-Dec-18	05-Dec-18	27-Dec-18	0		<u>44 I</u>				<u> </u>		1111		111	<u> </u>
RDZ41112	Construct FH N/B Lane 2 (Ch8100-8600)	18	28-Dec-18	18-Jan-19	28-Dec-18	18-Jan-19	0									 		
RDZ41114	Construct FH N/B Lane 3 (Ch8100-8600)	18	19-Jan-19	11-Feb-19	19-Jan-19	11-Feb-19	0									 		
RDZ41119	Construct FH N/B lane 4 (Ch8100-8600)	18	12-Feb-19	04-Mar-19	12-Feb-19	04-Mar-19	0									 		
WSR-East	FL Highway S/B Side Section							_										
HKY1412	Construct temp road for TWSR-East & FH S/B diversion	26	01-Aug-15 A	31-Aug-15 A												 		
RDZ41002	TTA approval period	120	02-Oct-13 A	29-Jan-14 A					-							 		
RDZ41004	Site Clearance & Tree Felling	60	20-May-14 A	30-Jul-14 A												 		
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 TTA-Stage 1)	240	02-Mar-15 A	17-Dec-15 A						+						 		
RDZ41015	Construct FH S/B Lane 1.2 (Ch8100-8250)(SA342) (Z4 TTA-Stage 2)	183	12-May-15 A	17-Dec-15 A												 		
RDZ41025	Construct FH S/B Lane 1.2 @ existing TWSR-E junction	210	18-Dec-15 A	09-Sep-16 A												 		
RDZ41020	(Ch8050-8100)(SA341) (Z4 TTA-Stage 3) Realign Temp Road from TWSR-E to Petrol station (Z4 TTA-Stage 3)	40	01-Sep-15 A	19-Oct-15 A												 		
			· .													 		
RDZ41040	Construct FH S/B Lane 1,2 (Ch8000-8050)(SA340)(Z4 TTA-Stage 3)	49	19-Oct-15 A	15-Dec-15 A				ļ								 		
RDZ41042	TTA for HKY P2 works	5	28-Dec-15 A	02-Jan-16 A												 		
RDZ41050	Traffic Diversion for FH S/B road construction (Z4 TTA-Stage 4)	6	10-Sep-16 A	17-Sep-16 A													I	
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY bridge demolition)	21	20-Feb-18 A	15-Mar-18 A														
RDZ41090	Remove FH central barrier & road work for TTA	59	17-Sep-16 A	26-Nov-16 A				1									<b></b>	
RDZ41100	TTA for FH N/B Lan e 1, 2, 3 construction (Ch7925-8600)(SA340) (Z4 TTA-Stage 6)	0		26-Nov-16 A												 26-No	v-16 A	۹. 🔶
RDZ41121	Drainage work at central divider (at NBZ2)	201	01-Feb-17 A	09-Oct-17 A				1								 		
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	11	30-Jan-18 A	10-Feb-18 A				1								 		
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	15	12-Jan-18 A	29-Jan-18 A												 		
RDZ41131	Drainage work at central divider (Ch8100-8600)	240	10-Oct-17 A	02-Aug-18 A						+						 		
RDZ41133	Construct FH S/B Lane 3 (Ch8100-8470)	196	27-Mar-18 A	22-Nov-18	01-Mar-19	04-Mar-19	82									 		
RDZ41135	Construct FHS/B Lane 4 (Ch8100-8470)	196	27-Mar-18 A	22-Nov-18	01-Mar-19	04-Mar-19	82	+								 		
RDZ41137	Construct FHS/B Lane 1,2,3 (Ch8470-8600)	60	02-Jan-19	14-Mar-19	19-Jan-19	01-Apr-19	15									 		
RDZ41140	Fanling Highway road work complete (except final pavement and	0		04-Mar-19		04-Mar-19	0									 		
RDZ41150	Central Divider construction	24	05-Mar-19	01-Apr-19	05-Mar-19	01-Apr-19	0									 		
RDZ41160		18				· ·	0									 		
	Final pavement & final road marking		02-Apr-19	26-Apr-19	02-Apr-19	26-Apr-19										 		
RDZ41170	Complete Slip road V and associated slope work	120	12-Jan-19	10-Jun-19	12-Jan-19	10-Jun-19	0											
her Work																 		
etaining Wa	all W77A • FL Highway S/B Side Section							-										
RWZ4.1050	Site Clearance	30	05-May-14 A	10-Jun-14 A												 		
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.20-92)	169	27-Feb-15 A	19-Sep-15 A												 		
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.20-92)	71	21-Sep-15 A	15-Dec-15 A				+								 		
RWZ4.1075	Temp Shoring & Excavation	47	01-Feb-17 A	31-Mar-17 A												 		
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-20)	109	01-Apr-17 A	15-Aug-17 A												 		
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	47	24-Aug-17 A	19-Oct-17 A												 		
RWZ4.1140	Base slab & Wall (0-3m high)- RW77A (Ch.92-120)	111	13-Sep-16 A	26-Jan-17 A												 		
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	163	01-Feb-17 A	23-Aug-17 A												 		
RWZ4.1160	CLP 132kV cable diversion	119	15-Nov-16 A	18-Apr-17 A														
RWZ4.1170	Base slab & Wall (0-3m high)- RW77A last 1 bay at CH120	66	26-May-17 A	12-Aug-17 A														
RWZ4.1180	DN600 pipe installation ready to start	0	14-Aug-17 A					1										
Remaining Lev	el of Effort Project File:WP Rev 07	1	1	ſ	1	Contrac	t No H	17/2	2012	/06				i		 		
Actual Level of	f Effort											_	_					
Actual Work	rk Layout: WP rev 7			Wideni	ng of Fanli	ing Highway	- Tai H	lang	g to	Wo	Нор	She	k In	erchan	ge			
	ing Work Data Date:20-Nov-18					Works Prog		_		_								

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Rev 07 vity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	P rev 7												
		Duration					Float	13 JIAIS		JIFI		014 JIJIA	ISID	L J		2015 JJJ	JI	201   A   JI.	
RWZ4.1190	Temporary diversion of existing watermain under new slip road Y	4	12-Jun-17 A	15-Jun-17 A									1991		<u> </u>				
Retaining W	all W77B																		
	t FL Highway S/B Side Section	100	04.1.1.4.4.4	04.01.444										<u>.</u>			 		 
RWZ4.1092	Site Clearance	106	21-Jul-14 A	24-Nov-14 A										• • • • • • • •			 		 
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-23)	155	20-Jan-17 A	05-Aug-17 A															 
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	30	07-Aug-17 A	09-Sep-17 A															
RWZ4.1115	Temp Shoring & Excavation	250	01-Mar-16 A	31-Dec-16 A															
RWZ4.1120	Base slab & Wall (3-4m high)- RW77B (Ch.23-75)	199	01-Jun-16 A	27-Jan-17 A															 1
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	33	11-Sep-17 A	20-Oct-17 A					L	+							 		 
Retaining W	all W78																		
	t FL Highway S/B Side Section																 		 
RWZ4.0900	Site Clearance	12	11-Dec-17 A	23-Dec-17 A				 									 		 
RWZ4.0910	Demolition of existing retaining wall (Instructed in 2-Jun-17 ad-hoc site meeting)	56	27-Jun-18 A	31-Aug-18 A															
RWZ4.1010	Base slab & Wall (6-11m high)- RW78 (Ch.0-50)	188	02-Jan-18 A	21-Aug-18 A															
RWZ4.1020	Backfilling (6-11m high) - RW78 (Ch.0-50) (Slope S55)	83	01-Sep-18A	10-Dec-18	08-Dec-18	31-Dec-18	16												
RWZ4.1030	Base slab & Wall (0-6m high)- RW78 (Ch.50-129)	99	01-Sep-18 A	31-Dec-18	20-Nov-18	31-Dec-18	0										 		 
RWZ4.1040	Backfilling (0-6m high) - RW78 (Ch.50-101) (Slope S55)	30	02-Jan-19	07-Feb-19	02-Jan-19	07-Feb-19	0			+							 		 
Slope Works	5																		 
TWSR-Eas	t FL Highway S/B Side Section									İ							 		 
S1030	Slope S53-Fill ~5m (Deleted on 20-July-18, VO pending)	0	20-Jul-18 A	20-Jul-18 A															
S1040	Slope S54A-Cut ~4m	40	20-Nov-18	08-Jan-19	07-Mar-19	26-Apr-19	87												
S1050	Slope S54B-Cut ~5m	40	20-Nov-18	08-Jan-19	07-Mar-19	26-Apr-19	87										 		 
S1060	Slope S55-Fill ~10m	30	08-Feb-19	14-Mar-19	08-Feb-19	14-Mar-19	0		L	+							 		 
TCSS Work	S																		
	Construction Works																 		 
TCSS0100	Acquire Design Criteria from Drawing & procurement	256	27-Feb-15 A	06-Jan-16 A							]						 		 
TCSS0110	Confirm Design criteria with Engineer	29	20-Feb-16 A	19-Mar-16 A															
TCSS0120	Prepare Shop Drawing-TCSS	125	20-Dec-17 A	28-May-18 A															
TCSS0130	Shop Drawing Comment & Approval	43	29-May-18 A	10-Jul-18 A															 
TCSS0140	Revised & Re-submission TCSS shop Drawing	95	11-Jul-18 A	01-Nov-18 A					L								 		 
TCSS0150	Confirm Shop drawing & ready for material ordering & factory	0		01-Nov-18 A						+							 		 
TCSS0160	production Raw material procurement	219	09-Jan-18 A	15-Aug-18 A													 		 
TCSS0180	Sign Gantry Factory production - FVMS1 (Deleted)	0	20-Nov-18	20-Nov-18	08-Jul-20	08-Jul-20	484										 		 
TCSS0230	Sign Gantry Factory production - G34 (Z4)	35	02-Nov-18 A	12-Dec-18	23-Nov-18	15-Dec-18	3										 		 
	Sign Gantry Factory production - G35 (Z4)	30	25-Mar-19	03-May-19	28-Mar-19	07-May-19	3										 		 
TCSS0240		00	20 110	oo may ro													 		 
TCSS0240		30	11-Dec-18	17- Jan-19	11-Dec-18	21_lan_10	2				1				1				
TCSS0250	Sign Gantry Factory production - G36 (Z4)	30	11-Dec-18	17-Jan-19	14-Dec-18	21-Jan-19	3		 								 		 
TCSS0250 TCSS0260	Sign Gantry Factory production - G36 (Z4) Sign Gantry Factory production - DS50 (Z4)	30	16-Jan-19	21-Feb-19	19-Jan-19	25-Feb-19	3		L								 		 
TCSS0250	Sign Gantry Factory production - G36 (Z4)																 		 
TCSS0250 TCSS0260 TCSS0270 Civil Provi	Sign Gantry Factory production - G36 (Z4) Sign Gantry Factory production - DS50 (Z4) Sign Gantry Factory production - FADS8 (Z4) Sion for TCSS Works	30 30	16-Jan-19	21-Feb-19 26-Mar-19	19-Jan-19	25-Feb-19 29-Mar-19	3										 		 
TCSS0250 TCSS0260 TCSS0270 <b>Civil Provi</b> TCSS2130	Sign Gantry Factory production - G36 (Z4) Sign Gantry Factory production - DS50 (Z4) Sign Gantry Factory production - FADS8 (Z4) Sion for TCSS Works Civil Provision for TCSS works available (Zone 4)	30 30 0	16-Jan-19 20-Feb-19	21-Feb-19 26-Mar-19 10-Jun-19	19-Jan-19 23-Feb-19	25-Feb-19 29-Mar-19 10-Jun-19	3 3 0										 		 
TCSS0250 TCSS0260 TCSS0270 <b>Civil Provi</b> TCSS2130 TCSS2150	Sign Gantry Factory production - G36 (Z4)         Sign Gantry Factory production - DS50 (Z4)         Sign Gantry Factory production - FADS8 (Z4)         sion for TCSS Works         Civil Provision for TCSS works available (Zone 4)         M12 for CCTV	30 30 0 14	16-Jan-19 20-Feb-19 27-Apr-19	21-Feb-19 26-Mar-19 10-Jun-19 14-May-19	19-Jan-19 23-Feb-19 08-May-19	25-Feb-19 29-Mar-19 10-Jun-19 23-May-19	3 3 0 8										 		
TCSS0250 TCSS0260 TCSS0270 Civil Provi TCSS2130	Sign Gantry Factory production - G36 (Z4) Sign Gantry Factory production - DS50 (Z4) Sign Gantry Factory production - FADS8 (Z4) Sion for TCSS Works Civil Provision for TCSS works available (Zone 4)	30 30 0	16-Jan-19 20-Feb-19 27-Apr-19 24-May-19	21-Feb-19 26-Mar-19 10-Jun-19	19-Jan-19 23-Feb-19	25-Feb-19 29-Mar-19 10-Jun-19 23-May-19 10-Jun-19	3 3 0												
TCSS0250 TCSS0260 TCSS0270 Civil Provi TCSS2130 TCSS2150	Sign Gantry Factory production - G36 (Z4)         Sign Gantry Factory production - DS50 (Z4)         Sign Gantry Factory production - FADS8 (Z4)         sion for TCSS Works         Civil Provision for TCSS works available (Zone 4)         M12 for CCTV	30 30 0 14	16-Jan-19 20-Feb-19 27-Apr-19	21-Feb-19 26-Mar-19 10-Jun-19 14-May-19	19-Jan-19 23-Feb-19 08-May-19	25-Feb-19 29-Mar-19 10-Jun-19 23-May-19	3 3 0 8												

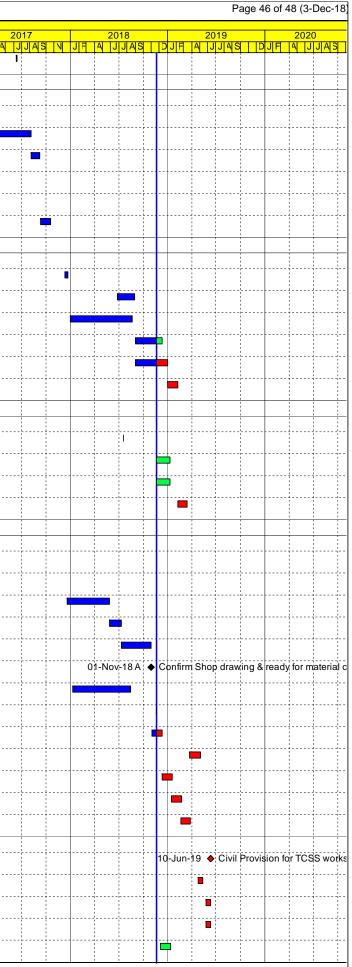
<b>V</b>	Remaining Level of Effort
	Actual Level of Effort
	Actual Work
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	Critical Remaining Work
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• •	Crit. Milestone

Project File:WP Rev 07 Layout: WP rev 7 Data Date:20-Nov-18 Page 46 of 48

#### Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

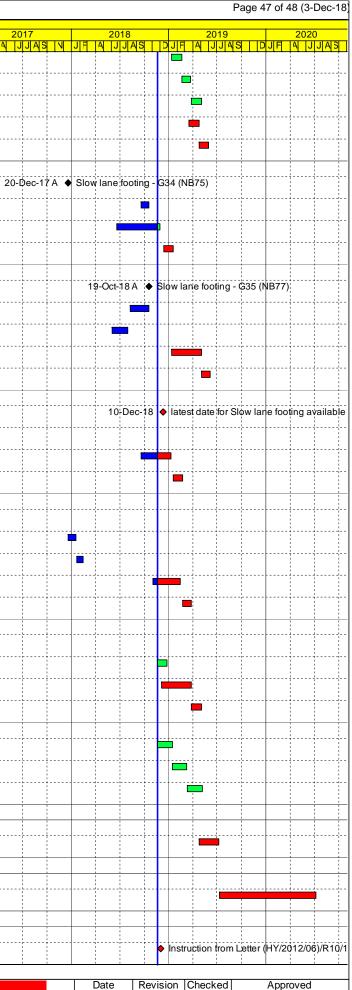




	Date	Revision	Checked	Approved
8	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
_	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		
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ity ID	Activity Name	Original	Start	Finish	Late Start	Late Finish	Total														_
		Duration					Float	13 J A S		JIF	20			2   F   A	2015 JJJAS		गनाग	2016 A JJJ			नार
TCSS2220	Pillar box, isolator & associated duct work - PL252 for G52	30	12-Jan-19	18-Feb-19	19-Feb-19	25-Mar-19	30														<b></b>
TCSS2230	Pillar box, isolator & associated duct work - PL251 for G51 & FL01	30	19-Feb-19	25-Mar-19	26-Mar-19	04-May-19	30														
TCSS2240	Pillar box, isolator & associated duct work - PL208 for M12, G36, P51, P52 & FL02	30	26-Mar-19	04-May-19	06-May-19	10-Jun-19	30														
TCSS2250	FL01 mounted on top of DS53	30	19-Mar-19	26-Apr-19	26-Mar-19	04-May-19	6														
TCSS2260	FL02 mounted on top of ADS52	30	27-Apr-19	01-Jun-19	06-May-19	10-Jun-19	6														
G34																					
TCSS1520	Slow lane footing - G34 (NB75)	0		20-Dec-17 A																	
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	23	20-Sep-18 A	19-Oct-18 A																	
TCSS1780	TTA application & Approval - G34 (Z4)	136	20-Jun-18 A	29-Nov-18	06-Dec-18	15-Dec-18	14														
TCSS1790	Sign Gantry Erection - G34 (Z4)	28	13-Dec-18	17-Jan-19	17-Dec-18	21-Jan-19	3														
G35		0																			
TCSS1540	Slow lane footing - G35 (NB77)	0	40.4.40.4	19-Oct-18 A																	
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	58	10-Aug-18 A	19-Oct-18 A																	
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	48	04-Jun-18 A	31-Jul-18 A																	
TCSS1800	TTA application & Approval - G35 (Z4)	90	11-Jan-19	03-May-19	15-Jan-19	07-May-19	3														
TCSS1810	Sign Gantry Erection - G35 (Z4)	28	04-May-19	05-Jun-19	08-May-19	10-Jun-19	3														
G36 TCSS1570	Interest data for Slow long facting available. C26 (NP by other)	0		10-Dec-18		13-Dec-18	3														
	latest date for Slow lane footing available - G36 (NB by other)	0		20-Dec-13 A		13-Dec-16		00.1	2 ^	Fact	lano	ooting	636	(CH861		) (by oth					
TCSS1580	Fast lane footing - G36 (CH8610, N/B)(by other)		00.0 40.4		00 Nov 40	04 1 40			ŞА <b>ч</b>				- 630		U, IN/D,						
TCSS1820	TTA application & Approval - G36 (Z4)	91	20-Sep-18 A	10-Jan-19	30-Nov-18	21-Jan-19	9	ļ													
TCSS1830	Sign Gantry Erection - G36 (Z4)	28	18-Jan-19	21-Feb-19	22-Jan-19	25-Feb-19	3														
DS50 TCSS1590	Slow lane footing -DS50 (NB74)	0		20-Aug-15 A									20	)-Aug-1	5A 🔶	; Slow la	ane foc	otina -C	0850	(NB74	)
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	25	19-Dec-17 A	19-Jan-18 A																	
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	23	20-Jan-18 A	15-Feb-18 A													·				
TCSS1840		84	02-Nov-18 A	13-Feb-19	01-Dec-18	25-Feb-19	10														
TCSS1840	TTA application & Approval - DS50 (Z4)	-			26-Feb-19	29-Mar-19	3														
	Sign Gantry Erection - DS50 (Z4)	28	22-Feb-19	26-Mar-19	20-FED-19	29-10181-19	3				1 1 1										
FADS8 TCSS1620	Slow lane footing - FADS8 (CH8220, S/B)	42	04-Aug-15 A	21-Sep-15 A																	
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	30	20-Nov-18	24-Dec-18	23-Feb-19	29-Mar-19	77														
TCSS1860	TTA application & Approval - FADS8 (Z4)	90	06-Dec-18	26-Mar-19	10-Dec-18	29-Mar-19	3														
TCSS1870	Sign Gantry Erection - FADS8 (Z4)	28	27-Mar-19	03-May-19	30-Mar-19	07-May-19	3														
		20					Ű														
TCSS1900	TCSS Hub Room Structure	45	20-Nov-18	14-Jan-19	22-Dec-18	18-Feb-19	28														
TCSS1910	TCSS Hub Room Finishes	45	15-Jan-19	09-Mar-19	19-Feb-19	12-Apr-19	28														
TCSS1920	TCSS Hub Room BS provision	45	11-Mar-19	07-May-19	13-Apr-19	10-Jun-19	28														
Landscape S	Softwork																				
Landscape																					
Z4.LW.1000	Landscape soft work Zone4	60	27-Apr-19	09-Jul-19	27-Apr-19	09-Jul-19	0														
Establishme																					
Establishm Z3.EW.1000	ent Works Establishment work Zone4	365	10-Jul-19	08-Jul-20	10-Jul-19	08-Jul-20	0														
							Ű									+				$\rightarrow$	
	on of Traffic Sign at Pak Wo Road tion of Traffic Sign at Pak Wo Road												+			$\frac{1}{1}$					_
TS00990	Instruction from Letter (HY/2012/06)/R10/115/(391) on 3-Dec-18	5	03-Dec-18*		07-Dec-18		5														
									1		9										

Remaining Level of Effort	Project File:WP Rev 07	Contract No. HY/2012/06	
Actual Level of Effort			
Actual Work	Layout: WP rev 7	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange	
Remaining Work	Data Date:20-Nov-18		
Critical Remaining Work	Data Date:20-Nov-18	Works Programme - WP Rev. 7	
♦ Milestone	Page 47 of 48		
Crit. Milestone	Fage 47 01 40		



DateRevisionCheckedApproved07-Nov-16WP Rev 417-Aug-17WP Rev 529-Mar-18WP Rev 603-Dec-18WP Rev 7

Rev 07						N	/P rev 7							
vity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Total Float			JIF	201		2016	
TS01000	VO issue date	0	14-Dec-18*		14-Dec-18		0						<u> </u>	<u></u>
TS01010	XP application period	90	14-Dec-18	13-Mar-19	18-Oct-18	15-Jan-19	-57	 				 		 
TS01020	STLA application period	151	14-Dec-18	13-May-19	18-Aug-18	15-Jan-19	-118	 				 		 
TS01030	TTA submission & approval	30	14-Dec-18	21-Jan-19	08-Dec-18	15-Jan-19	-5	 	÷	+		 		 
TS01040	TTA	2	14-May-19	15-May-19	16-Jan-19	17-Jan-19	-94	 				 		 
TS01050	Sheet piling & excavation	18	16-May-19	05-Jun-19	18-Jan-19	09-Feb-19	-94	 	÷			 		 
TS01060	Footing (FVMS & ADS52)	45	06-Jun-19	30-Jul-19	11-Feb-19	03-Apr-19	-94	 				 		 
TS01070	Post & sign installation (FVMS & ADS52)	21	31-Jul-19	23-Aug-19	04-Apr-19	03-May-19	-94	 				 		 
TS01080	Demolished existing sign AD4	6	24-Aug-19	30-Aug-19	04-May-19	10-May-19	-94	 	 			 		 
TS01090	Reinstatement of cycle track	25	31-Aug-19	30-Sep-19	11-May-19	10-Jun-19	-94	 				 		 
TS01100	Traffic sign (FVMS & ADS52) complete	0		30-Sep-19		10-Jun-19	-94	 	÷			 		 
TS01110	TTA	2	14-May-19	15-May-19	05-Mar-19	06-Mar-19	-55	 		+		 		 
TS01120	Sheet piling & excavation	12	16-May-19	29-May-19	07-Mar-19	20-Mar-19	-55	 		+		 		 
TS01130	Footing (ADS51)	30	30-May-19	05-Jul-19	21-Mar-19	29-Apr-19	-55	 		+		 		 
TS01140	Post & sign installation (ADS51)	10	06-Jul-19	17-Jul-19	30-Apr-19	11-May-19	-55	 		+		 		 
TS01150	Reinstatement of slope	24	18-Jul-19	14-Aug-19	13-May-19	10-Jun-19	-55	 				 		 
TS01160	Traffic sign (ADS51) complete	0		14-Aug-19		10-Jun-19	-55	 	+			 		 

Project File:WP Rev 07

Layout: WP rev 7

Data Date:20-Nov-18

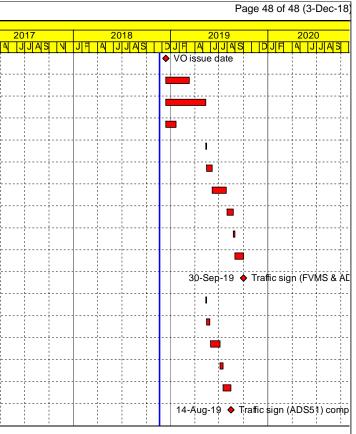
Page 48 of 48

Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Works Programme - WP Rev. 7





	Date	Revision	Checked	
	07-Nov-16	WP Rev 4		
	17-Aug-17	WP Rev 5		
.L	29-Mar-18	WP Rev 6		
	03-Dec-18	WP Rev 7		

Approved

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD. Contract No. 02/HY/2015 Works Order Nos: CB128519-0 & CB128520-5 Progarmme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

 Revised Program Duration	Rev	Date	Description
Programmed Duration	00	28/02/17	initial issue
Actual Progress	01	29/03/17	refer RE's comments
 Critical Path Activities	02	22/5/17	add plate load test program
 Early Start & Early Finsih	03	28/9/2017	revise program of task 5-8
Float = 3 weeks	04	23/1/2018	add mass wall & revise installation of NB & BBI

upper part of stem wall

-

	Week No. 1 2	3 4 5	6 7 8	9 10 11	12 13 14	15 16	17 18 1	20 21	22 23	24 2	5 26	27 28	29 30	31	32 33	34	35	36 37	38	39	40 41	1 42	43	44 4	5 46	47 4	8 49	50 51	52	53 54	4 55	56 57	58	59 60	61 62	63 64	4 65 66	6
Act. No		11 3/18 3/25 4/	/1 4/8 4/15 4/	22 4/29 5/6 5/	13 5/20 5/27	6/3 6/10 6	/17 6/24 7/	7/8 7/15	7/22 7/29	8/5 8/	12 8/19 8	8/26 9/2	9/9 9/1	6 9/23	9/30 10/7	10/14 1	10/21 10	/28 11/4	11/11	11/18 11	125 12/2	2 12/9	12/16 1	2/23 12/3	0 1/6	1/13 1/2	0 1/27	2/3 2/10	2/17	2/24 3/3	3/10 2	8/17 3/24	3/31 4	/7 4/14	1/21 4/28	5/5 5/12	2 5/19 5/26	5
	WO No. CB128520-5		+																																			1
1	Setting out and UU detection	100%	<u>'</u>																																			
2			100%																																			1
	Construction of Footings ( 6 stages): ( Assume 2 sections in one stage, 6 weeks cycle per standard section)																																					
3	Stage 1 : NB74-6 , NB 74-7				00%													_																				
4	Stage 2 : NB74-5, NB-74- 4				Alter and the state			10																														
5	Stage 3: NB-74-3 , NB-74-2								an an an an an an an an an an an an an a	in Such	and the second		a and				100	10																				
6	Stage 4: NB74-1, Footing A (1 wk allowed for plate lo	oad test)							6		1997 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	aller in the	電台港					10																				1
7	Stage 5: NB74-8, & Footing B (1 wk allowed for plate	load test)													_		1			STI SAL	N. C.	10	0	0														
8	Stage 6: 74-9, NB74-10																					高潮分	24 A			1	00											1
8a	Stage 7 : Upper part of stem wall																<b>Bench</b>	-								-		100%										1
8 b	Mass concrete wall near bay 1																								Π							10	6%					1
9	Submit workshop drawings for steelworks of Noise Barriers and Covered Walkway for approval		ES					EF		- 1	60	6																	Holidays									
10	Fabrication of NB and CW																19500					10	10	6					Year									1
11	Site installation of NB ( include steel posts and panels)																			Traine and	Y KAR		11-18.						Lunar New Year		10	50%						
	WO No. CB128519-0																												Lun		$\square$			$\square$				1
12	Site installation of Covered Walkway																														10	0%	ø					
13	Electrical Installation							-										1			÷					E												
14	Allow for Works by Bus Companies														1											E		-				Constant of	100	1				
15	Drainage Works																																國道總		0%	T I		
16	Footpath Construction																													_						100	1	
17	Cycle Track Modification nr Tai Hang																																		ALCURSON	- 14	00%	
18	Road surfacing																																		<b>KOJES</b>			
19	Allow for UU laying ducts																																100	%				
20	Allow for fixing street furnitures by C3/ LT																																		-			

#### 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

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

### ## Breakdown of Item 6

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

#### \$\$Breakdown of Item 8a ( for 2 sections of stem wall)

	Posts calendar days	
Fwk	4	
Re-bar	2	
Concreting	1	
Fix HD bolts	2	
Remove Fwk	1	
Total :	10 d	ays

App. A

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100%

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											Imple	menta	tion St	atus										
				_	-			HY/20		-		-	-	_		_				02/HY/2		-		<del></del>		
			Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	18	Aug 18	Sep 18	Oct 18	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18
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	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	All stockpiles of excavated materials or spoil of more than		@	@	@	@	@	@	V	@	@	@	@	@	V	V	V	V	@	@	V	-	-	-	-	-
	50m <sup>3</sup> shall be enclosed, covered or dampened during dry or windy conditions.																									
	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	V	@	V	@	V	V	@	V	V	V	V	-	-	-	-	-
	All spraying of materials and surfaces shall avoid excessive water usage.	-	V	V	V	V	V	V	V	V	V	V	V	V	V	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	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	Materials shall be dampened, if necessary, before transportation.		V	V	V	V	V	V	V	V	V	V	V	V	V	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	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		@	V	@	@	@	@	@	V	@	V	@	@	@	@	@	V	V	V	V	-	-	-	-	-

#### Noise - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing						HY/20 <sup>-</sup>	12/06				Imple	ementa	tion St	atus				02/HY	/2015					
			Nov	Dec 17	Jan	Feb	Mar	Apr	May	Jun	Jul 18	Aug	Sep		Nov	Dec	Jan	Feb 18	Mar 18	Apr	May 18	Jun 18	Jul 18	Aug 18	Sep	Oct
Noise during Construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	17 V	17 V	18 V	18 V	18 V	18 V	18 V	18 V	18 V	18 V	<u>18</u> V	18 V	17 V	17 V	18 V	18 V	18 V	18 V	18 V	- 18	-	-	-	-
	Reduce the number of equipment and their percentage on- time.		V	V	V	V	V	V	V	V	V	V	V	V	V	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	V	V	V*	V*	V*	V*	V*	V*	V*	N. A.	N. A.	N. A.	N. A.	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	V	V	V*	V*	V*	V*	V*	V*	V*	N. A.	N. A.	N. A.	N. A.	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	V	V	V*	V*	V*	V*	V*	V*	V*	N. A.	N. A.	N. A.	N. A.	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	V	V	V*	V*	V*	V*	V*	V*	V*	N. A.	N. A.	N. A.	N. A.	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	V	V	V*	V*	V*	V*	V*	V*	V*	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	-	-	-	-	-
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo		V	V	V	V	V	V*	V*	V*	V*	V*	V*	V*	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	-	-	-	-	-
	Footbridge work area (Figure 2d of the Environmental Permit).																									
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V	V	V	V*	V*	V*	V*	V*	V*	V*	N. A.	N. A.	N. A.	N. A.	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.	V*	V*	V*	V*	V*	V*	V*	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	-	-	-	-	-

\* Permanent noise barriers have been erected.

#### Water Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing											Impl	ement	ation S	tatus										
								HY/20				•	•							02/HY/						
			Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18
Water quality during Construction	<ul> <li>Demolition and reconstruction of bridges</li> <li>Prevent off-site migration through use of sheet piles.</li> <li>Minimise duration of works as far as practical.</li> <li>All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains.</li> <li>Site surface runoff should be settled to remove sand/silt before it is discharged into the existing</li> </ul>	During construction	@	@	@	@	@	@	V	V	@	V	V	V	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	-	-	-	-	-
	storm drains. Road Widening Works, Earthworks and Culvert Extension Works	-	@	@	@	@	@	@	V	@	@	@	@	@	V	V	@	V	V	V	V	-	-	-	-	-
	<ul> <li>Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable 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.</li> <li>Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.</li> <li>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.</li> <li>Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system.</li> <li>Open stockpiles should be covered with a tarpaulin cover.</li> <li>During the wet season, any exposed top soils should be covered with a tarpaulin drains.</li> <li>Fuels should be stored in bunded areas such that spillage can be easily collected.</li> </ul>																									

#### Waste - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing											Impl	ement	ation S	tatus					los : -					
			Nov	Dec	Jan	Feb	Mar	HY/20 Apr	12/06 May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	02/HY Apr	/2015 May	Jun	Jul	Αυσ	Sep	Oct
			17	17	18	18	18	18	18	18	18	18	18	18	17	17	18	18	18	18	18	18	18	Aug 18	18	18
Waste Management during	General Waste - Transport of wastes off site as soon as possible.	During construction	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
Construction	<ul> <li>Maintenance of accurate waste records.</li> <li>Minimisation of waste generation for disposal (via reduction/recycling/re-use).</li> <li>No on-site burning will be permitted.</li> <li>Use of re-useable metal hoardings/signboards.</li> </ul>																									
	Vegetation from site clearance	-	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	- Segregation of materials to facilitate disposal. Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.																									
	Demolition Wastes		V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	- Segregation of materials to facilitate disposal. Appropriate stockpile management.																									
	Excavated Materials		V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	<ul> <li>Segregation of materials to facilitate disposal / reuse.</li> <li>Appropriate stockpile management.</li> <li>Re-use of excavated material on or off site (where possible).</li> <li>Special handling and disposal procedures in the event that contaminated materials are excavated.</li> </ul>																									
	Construction Wastes		V	@	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	@	V	-	-	-	-	-
	<ul> <li>Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).</li> <li>Appropriate stockpile management.</li> <li>Planning to reduce over ordering and waste generation.</li> <li>Recycling and re-use of materials where possible (e.g. metal, wood from formwork)</li> <li>For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.</li> </ul>																									
	<ul> <li>Bentonite Slurries</li> <li>Bentonite slurries should be reused as far as possible.</li> <li>Disposal in accordance with Practice Note For Professional Persons</li> <li>ProPECC PN 1/94.</li> </ul>		#	#	#	#	#	#	#	#	#	#	#	#	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	-	-	-	-
	Chemical Wastes		@	@	@	@	@	V	@	@	@	V	V	@	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	-	-	-	-	+
	<ul> <li>Storage within locked, covered and bunded area.</li> <li>The storage area shall not be located adjacent to sensitive receivers e.g. drains.</li> <li>Minimise waste production and recycle oils/solvents where possible.</li> <li>A spill response procedure shall be in place and absorption material available for minor spillages.</li> </ul>																									

<ul> <li>Use appropriate and labelled containers</li> <li>Educate site workers on site cleanliness/waste management procedures.</li> <li>If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer.</li> <li>The chemical wastes shall be collected by a licensed chemical waste collector.</li> </ul>																						
<ul> <li>Municipal Wastes</li> <li>Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.</li> <li>Regular, daily collections are required by an approved waste collector.</li> </ul>	V	V	V	V	V	V	V	V	V	V	V V	V	V	V	V	V	V	V	-	-	-	

#### Ecology - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing											Imple	ementa	ation S	tatus										,
-		_			I			HY/20						T		I	T			02/HY						
			Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18
Ecology during construction	<ul> <li>Accurate Delineation of Works Area</li> <li>Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.</li> <li>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.</li> </ul>	During construction	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	<ul> <li>Vegetation</li> <li>Clearance</li> <li>No fires shall be lit within the works area for the purpose of burning cleared vegetation.</li> <li>The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area /</li> </ul>		V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	adjacent land.		@	@	@	@	@	@	@	@	@	@	@	@	@	@	@	V	V	V	V					ا ــــــــــــــــــــــــــــــــــــ
	<ul> <li>Dust generation</li> <li>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:</li> <li>Vehicle washing facilities to be provided at every discernible or designated vehicle exit point;</li> <li>All temporary site access roads shall be sprayed with water to suppress dust as necessary;</li> <li>All dusty materials should be sprayed with water immediately prior to any handling; and</li> <li>All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.</li> </ul>																	V	V	V	V	-	-	-	-	
	<ul> <li>Surface Run-off</li> <li>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</li> <li>Bund and cover stock piles to avoid run-off;</li> <li>Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;</li> <li>All vehicle maintenance to be undertaken within a bunded area; and</li> <li>Maximise vegetation retention on-site to maximise absorption (minimise transport).</li> </ul>		@	@	@	@	@	@	V	V	@	@	@	@	V	V	@	V	V	V	V	-	-	-	-	-

#### Landscape and Visual Impact - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing											Impl	ementa	ation S	tatus										
				•				HY/20				•								02/HY						l
			Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18
Landscape and Visual during Construction	<ul> <li>Preservation of Existing Vegetation</li> <li>Trees identified for retention within the project limit would be protected during the works;</li> <li>The tree transplanting and planting works shall be implemented by approved Landscape Contractors.</li> </ul>	During construction	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	<ul> <li>Temporary Works Areas</li> <li>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.</li> </ul>		V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	-	-	-
	<ul> <li>Hoarding</li> <li>A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.</li> </ul>		V	V	V	V	V	V	V	V	V	V	V	V	N.A.	-	-	-	-	-						
	<ul> <li>Top Soils</li> <li>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.</li> </ul>		#	#	#	#	#	#	#	#	#	#	#	#	N.A.	-	-	-	-	-						
	<ul> <li>Protection of Important Landscape Features</li> <li>Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.</li> </ul>		#	#	#	#	#	#	#	#	#	#	#	#	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 – Act	ion and I	imit Levels	for 1-hc	
	ion anu i			

Location	Action Level	Limit Level			
AM2	317.8 μg/m3	500 μg/m3			

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

Location	Action Level	Limit Level		
AM2	200.7 μg/m3	260 μg/m3		

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

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

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

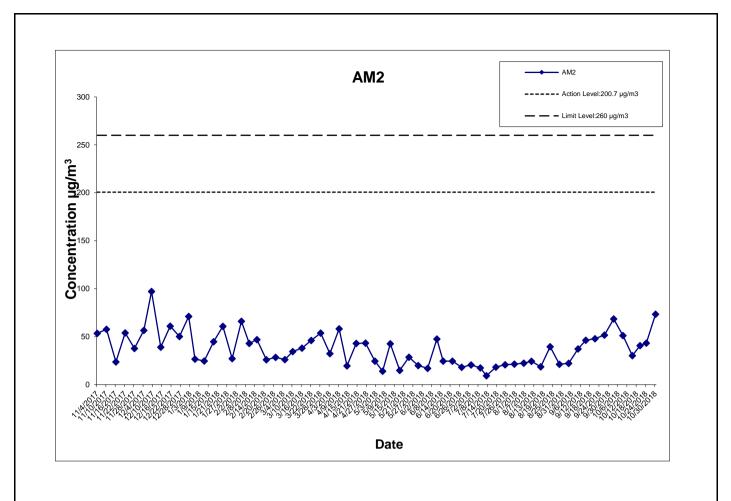
APPENDIX E IMPACT AIR QUALITY MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

#### Impact Air Quality Monitoring Results

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

Date	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.		/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Actino Level	Limit Leve
	Condition	Temp. (°C	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µq/m <sup>3</sup> )
4-Nov-17	Cloudy	23.6	1018.9	1.314	1.314	1.314	1892.2	2.7728	2.8740	0.1012	9450.02	9474.02	24.00	53.5	200.7	260
10-Nov-17	Sunny	25.0	1014.9	1.314	1.314	1.314	1892.2	2.5779	2.6869	0.1090	9474.02	9498.02	24.00	57.6	200.7	260
16-Nov-17	Sunny	23.4	1015.1	1.314	1.314	1.314	1892.2	2.7702	2.8150	0.0448	9498.02	9522.02	24.00	23.7	200.7	260
22-Nov-17	Fine	19.8	1016.5	1.314	1.314	1.314	1892.2	2.5905	2.6925	0.1020	9522.02	9546.02	24.00	53.9	200.7	260 260
28-Nov-17	Cloudy	22.2	1017.4	1.314	1.314	1.314	1892.2	2.6048	2.6761	0.0713	9546.02	9570.02	24.00	37.7	200.7	
4-Dec-17	Fine	20.1	1018.3	1.314	1.314	1.314	1892.2 1892.2	2.7948 2.5645	2.9017	0.1069 0.1837	9570.02 9594.02	9594.02	24.00	56.5	200.7	260
9-Dec-17 15-Dec-17	Sunny Cloudy	15.5 19.6	1019.7 1019.2	1.314 1.314	1.314 1.314	1.314 1.314	1892.2	2.5939	2.7482 2.6676	0.1837	9594.02	9618.02 9642.02	24.00 24.00	97.1 39.0	200.7 200.7	260 260
21-Dec-17	Sunny	15.0	1013.2	1.314	1.314	1.314	1892.2	2.7486	2.8639	0.1153	9642.02	9666.02	24.00	60.9	200.7	260
27-Dec-17	Sunny	17.6	1021.2	1.314	1.314	1.314	1892.2	2.7844	2.8794	0.0950	9666.02	9690.02	24.00	50.2	200.7	260
2-Jan-18	Sunny	17.8	1019.3	1.314	1.314	1.314	1892.2	2.7513	2.8859	0.1346	9690.02	9714.02	24.00	71.1	200.7	260
6-Jan-18	Rainy	16.2	1014.6	1.314	1.314	1.314	1892.2	2.6527	2.7031	0.0504	9714.02	9738.02	24.00	26.6	200.7	260
12-Jan-18	Sunny	12.8	1027.1	1.314	1.314	1.314	1892.2	2.6116	2.6581	0.0465	9738.02	9762.02	24.00	24.6	200.7	260
18-Jan-18	Sunny	19.2	1016.6	1.314	1.314	1.314	1892.2	2.6277	2.7125	0.0848	9762.02	9786.02	24.00	44.8	200.7	260
24-Jan-18	Fine	17.7	1015.5	1.314	1.314	1.314	1892.2	2.6559	2.7710	0.1151	9786.02	9810.02	24.00	60.8	200.7	260
30-Jan-18	Sunny	10.1	1020.4	1.314	1.314	1.314	1892.2	2.6385	2.6897	0.0512	9810.02	9834.02	24.00	27.1	200.7	260
5-Feb-18	Sunny	9.8	1026.6	1.314	1.314	1.314	1892.2	2.6299	2.7550	0.1251	9834.02	9858.02	24.00	66.1	200.7	260
10-Feb-18 15-Feb-18	Sunny Sunny	18.0 19.8	1017.4 1016.0	1.314 1.304	1.314 1.304	1.314 1.304	1892.2 1877.8	2.6218 2.7064	2.7029 2.7942	0.0811 0.0878	9858.02 9882.02	9882.02 9906.02	24.00 24.00	42.9 46.8	200.7 200.7	260 260
21-Feb-18	Sunny	19.8	1016.0	1.304	1.304	1.304	1877.8	2.7064	2.7942	0.0878	9882.02	9906.02	24.00	25.9	200.7	260
27-Feb-18	Sunny	19.1	1014.9	1.304	1.304	1.304	1877.8	2.7051	2.0053	0.0480	9930.02	9954.02	24.00	28.3	200.7	260
5-Mar-18	Rainy	14.5	1019.4	1.304	1.304	1.304	1877.8	2.7194	2.7684	0.0490	9954.02	9978.02	24.00	26.1	200.7	260
10-Mar-18	Sunny	16.7	1010.4	1.324	1.324	1.324	1906.6	2.7396	2.8052	0.0656	9978.02	10002.02	24.00	34.4	200.7	260
16-Mar-18	Sunny	22.7	1014.8	1.324	1.324	1.324	1906.6	2.7142	2.7867	0.0725	10002.02	10026.02	24.00	38.0	200.7	260
22-Mar-18	Sunny	19.5	1016.9	1.324	1.324	1.324	1906.6	2.7397	2.8275	0.0878	10026.02	10050.02	24.00	46.1	200.7	260
28-Mar-18	Sunny	22.7	1014.7	1.324	1.324	1.324	1906.6	2.7216	2.8239	0.1023	10050.02	10074.02	24.00	53.7	200.7	260
3-Apr-18	Fine	24.7	1013.6	1.324	1.324	1.324	1906.6	2.5332	2.5947	0.0615	10074.02	10098.02	24.00	32.3	200.7	260
9-Apr-18	Sunny	22.0	1017.6	1.324	1.324	1.324	1906.6	2.5558	2.6666	0.1108	10098.02	10122.02	24.00	58.1	200.7	260
14-Apr-18	Sunny	26.7	1011.3	1.324	1.324	1.324	1906.6	2.5912	2.6284	0.0372	10122.02	10146.02	24.00	19.5	200.7	260
20-Apr-18 26-Apr-18	Sunny Rainy	23.2 24.6	1014.6 1013.6	1.324 1.324	1.324 1.324	1.324 1.324	1906.6 1906.6	2.5630 2.5346	2.6448 2.6169	0.0818 0.0823	10146.02	10170.02 10194.02	24.00 24.00	42.9 43.2	200.7 200.7	260 260
26-Apr-18	Sunny	24.6	1013.6	1.324	1.324	1.324	1906.6	2.5665	2.6131	0.0823	10170.02	10194.02	24.00	24.4	200.7	260
7-May-18	Sunny	27.9	1012.4	1.324	1.324	1.324	1906.6	2.5698	2.5963	0.0466	10194.02	10218.02	24.00	13.9	200.7	260
12-May-18	Cloudy	26.5	1012.3	1.324	1.324	1.324	1906.6	2.5649	2.6462	0.0203	10242.02	10290.02	24.00	42.6	200.7	260
18-May-18	Cloudy	29.8	1007.7	1.324	1.324	1.324	1906.6	2.5772	2.6055	0.0283	10290.02	10314.02	24.00	14.8	200.7	260
24-May-18	Fine	30.0	1009.3	1.324	1.324	1.324	1906.6	2.5708	2.6254	0.0546	10314.02	10338.02	24.00	28.6	200.7	260
30-May-18	Sunny	31.2	1009.7	1.324	1.324	1.324	1906.6	2.5794	2.6172	0.0378	10338.02	10362.02	24.00	19.8	200.7	260
5-Jun-18	Rainy	27.1	1006.8	1.324	1.324	1.324	1906.6	2.5755	2.6079	0.0324	10362.02	10386.02	24.00	17.0	200.7	260
11-Jun-18	Fine	30.5	1002.4	1.324	1.324	1.324	1906.6	2.5494	2.6399	0.0905	10386.02	10410.02	24.00	47.5	200.7	260
15-Jun-18	Fine	27.1	1001.8	1.324	1.324	1.324	1906.6	2.6021	2.6488	0.0467	10410.02	10434.02	24.00	24.5	200.7	260
21-Jun-18	Sunny	30.0	1005.9	1.324	1.324	1.324	1906.6	2.6176	2.6642	0.0466	10434.02	10458.02	24.00	24.4	200.7 200.7	260
27-Jun-18	Fine	29.2	1010.0	1.324	1.324	1.324	1906.6	2.5551	2.5894	0.0343	10458.02	10482.02	24.00	18.0		260
3-Jul-18 9-Jul-18	Fine	29.7 28.2	1002.5	1.324 1.324	1.324 1.324	1.324 1.324	1906.6 1906.6	2.5630 2.6762	2.6020 2.7094	0.0390 0.0332	10482.02 10506.02	10506.02 10530.02	24.00 24.00	20.5 17.4	200.7 200.7	260 260
9-Jul-18 13-Jul-18	Rainy Rainy	28.2	1005.7 1003.9	1.324	1.324	1.324	1906.6	2.6762	2.6939	0.0332	10506.02	10530.02	24.00	9.2	200.7	260
19-Jul-18	Rainy	27.9	1003.9	1.324	1.324	1.324	1906.6	2.6427	2.6774	0.0347	10554.02	10578.02	24.00	18.2	200.7	260
25-Jul-18	Fine	29.4	1004.0	1.324	1.324	1.324	1906.6	2.6561	2.6956	0.0395	10578.02	10602.02	24.00	20.7	200.7	260
31-Jul-18	Rainy	30.2	1005.5	1.324	1.324	1.324	1906.6	2.6356	2.6764	0.0408	10602.02	10626.02	24.00	21.4	200.7	260
6-Aug-18	Cloudy	30.2	1005.4	1.324	1.324	1.324	1906.6	2.6707	2.7133	0.0426	10626.02	10650.02	24.00	22.3	200.7	260
11-Aug-18	Rainy	27.0	998.7	1.324	1.324	1.324	1906.6	2.6242	2.6706	0.0464	10650.02	10674.02	24.00	24.3	200.7	260
17-Aug-18	Rainy	27.2	1000.2	1.324	1.324	1.324	1906.6	2.6755	2.7110	0.0355	10674.02	10698.02	24.00	18.6	200.7	260
23-Aug-18	Rainy	27.7	1001.7	1.324	1.324	1.324	1906.6	2.6326	2.7080	0.0754	10698.02	10722.02	24.00	39.5	200.7	260
29-Aug-18	Rainy	27.4	1002.5	1.324	1.324	1.324	1906.6	2.6521	2.6924	0.0403	10722.02	10746.02	24.00	21.1	200.7	260
4-Sep-18	Fine	29.1	1005.7	1.324	1.324	1.324	1906.6	2.6206	2.6629	0.0423	10746.02	10770.02	24.00	22.2	200.7	260
10-Sep-18	Sunny Rainy	26.1 30.7	1012.5 1002.8	1.324 1.324	1.324 1.324	1.324 1.324	1906.6 1906.6	2.6729 2.6734	2.7440 2.7615	0.0711 0.0881	10770.02 10794.02	10794.02 10818.02	24.00 24.00	37.3 46.2	200.7 200.7	260 260
15-Sep-18 21-Sep-18	Sunny	29.2	1002.8	1.324	1.324	1.324	1906.6	2.6734	2.7615	0.0881	10794.02	10818.02	24.00	46.2	200.7	260
27-Sep-18	Rainy	29.2	1009.8	1.324	1.324	1.324	1906.6	2.6686	2.7622	0.0914	10818.02	10866.02	24.00	51.6	200.7	260
3-Oct-18	Sunny	26.9	1015.3	1.324	1.324	1.324	1906.6	2.6345	2.7650	0.1305	10866.02	10890.02	24.00	68.4	200.7	260
9-Oct-18	Sunny	26.5	1013.7	1.324	1.324	1.324	1906.6	2.6330	2.7305	0.0975	10890.02	10030.02	24.00	51.1	200.7	260
15-Oct-18	Cloudy	25.6	1014.6	1.324	1.324	1.324	1906.6	2.6903	2.7476	0.0573	10914.02	10938.02	24.00	30.1	200.7	260
20-Oct-18	Cloudy	24.0	1018.6	1.324	1.324	1.324	1906.6	2.6661	2.7436	0.0775	10938.02	10962.02	24.00	40.6	200.7	260
24-Oct-18	Rainy	25.2	1016.8	1.324	1.324	1.324	1906.6	2.6769	2.7592	0.0823	10962.02	10986.02	24.00	43.2	200.7	260
		25.7	1014.8	1.324	1.324	1.324	1906.6	2.6823	2.8222	0.1399	10986.02	11010.02	24.00	73.4	200.7	260
30-Oct-18	Fine	23.7	1014.0	1.324	1.024	1.524	1500.0	2.0020	LIGELE	0.1000	10000.02	11010.02	21.00	10.1	200.1	

Minimum for the reporting period (Nov 17 to Oct 18) Maximum for the reporting period (Nov 17 to Oct 18) 9.2 97.1

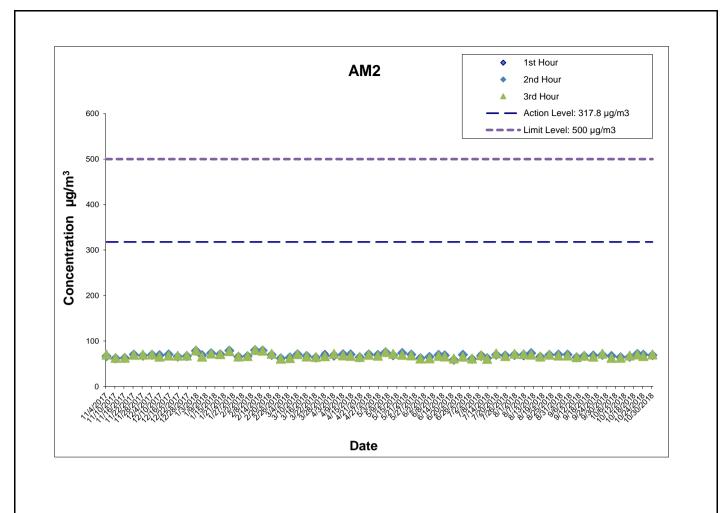


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CONTRACT NO. HY/2012/06		
WIDENING OF FANLING HIGHWAY		AECOM
- TAI HANG TO WO HOP SHEK INTERCHANGE		
	Graphical Presentation of Impact 24-hour TSP Monitoring Results	
Project No.: 60307376 Date:	Jan-19	Appendix E

# Impact Air Quality Monitoring Results

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

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
4-Nov-17 10-Nov-17	14:00 12:12	65.8 63.4	66.8 61.9	70.2 62.9
16-Nov-17	12:12	62.1	62.7	63.4
22-Nov-17	11:05	69.8	70.1	69.9
28-Nov-17	13:38	67.9	67.8	70.2
4-Dec-17	10:48	72.0	69.6	70.4
9-Dec-17	10:20	71.1	68.5	65.9
15-Dec-17	12:05	67.8	70.5	68.1
21-Dec-17	10:30 14:00	66.2 65.0	65.9	67.8 68.1
27-Dec-17 2-Jan-18	10:00	79.1	66.7 78.6	79.7
6-Jan-18	13:30	71.2	68.5	65.6
12-Jan-18	9:30	70.6	73.2	72.8
18-Jan-18	10:45	69.5	70.8	71.1
24-Jan-18	13:10	78.1	78.7	77.8
30-Jan-18	13:00	64.6	65.3	66.2
5-Feb-18	12:30	65.4	66.7	67.2
10-Feb-18 15-Feb-18	13:06	80.4	79.8	80.6
15-Feb-18 21-Feb-18	13:05 15:00	78.6 72.0	79.3 69.6	78.8 71.8
27-Feb-18	13:30	60.6	62.1	61.3
5-Mar-18	13:00	65.0	64.0	62.8
10-Mar-18	13:45	72.3	70.8	71.1
16-Mar-18	10:25	65.5	67.2	66.0
22-Mar-18	13:00	61.6	63.7	64.9
28-Mar-18	14:35	72.1	68.1	66.9
3-Apr-18	9:40	71.1	67.8	72.0
9-Apr-18 14-Apr-18	13:35 11:05	67.7 72.2	70.8 70.5	68.6 67.6
20-Apr-18	9:30	63.8	64.2	64.9
26-Apr-18	10:35	67.9	70.7	69.8
2-May-18	13:00	72.0	69.2	67.9
7-May-18	13:30	75.6	75.3	76.1
12-May-18	13:00	66.5	68.7	72.1
18-May-18	13:10	72.7	73.6	69.8
24-May-18	13:10	71.2	70.3	68.6
30-May-18	14:00 13:35	60.6	62.4	61.7
5-Jun-18 11-Jun-18	13:35	63.3 67.9	65.2 69.6	62.0 67.4
15-Jun-18	10:45	70.5	68.6	66.1
21-Jun-18	13:00	60.0	58.8	61.7
27-Jun-18	10:30	68.6	69.9	65.8
3-Jul-18	13:30	58.9	60.4	61.6
9-Jul-18	9:45	70.6	67.2	68.8
13-Jul-18	13:20	61.7	62.2	60.9
19-Jul-18 25-Jul-18	11:35	67.7 67.5	69.8 68.1	72.6
25-Jul-18 31-Jul-18	11:25 11:35	67.5 72.3	68.1 69.2	67.2 71.8
6-Aug-18	11:25	66.2	69.8	71.1
11-Aug-18	10:35	72.5	73.3	70.1
17-Aug-18	14:02	67.3	65.4	66.1
23-Aug-18	13:50	68.2	69.7	70.1
29-Aug-18	11:20	68.6	70.3	68.1
4-Sep-18	13:50	69.9	70.2	68.1
10-Sep-18	13:30	66.1	63.9	64.8
15-Sep-18 21-Sep-18	10:30 13:55	65.4 66.7	67.2 68.0	67.8 65.7
27-Sep-18	11:45	71.6	69.7	72.4
3-Oct-18	11:25	65.9	67.1	63.1
9-Oct-18	11:05	62.9	64.5	63.3
15-Oct-18	10:55	67.2	65.3	68.2
20-Oct-18	13:10	71.1	71.5	70.7
24-Oct-18	13:30	68.8	69.8	67.2
30-Oct-18	13:15	68.0	68.9	70.7
		period (Nov 17		68.4 58.8
		period (Nov 1 period (Nov 1		58.8 80.6
				00.0



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CONTRACT NO. HY/2012/06		
WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE		AECOM
	Graphical Presentation of Impact 1-hour TSP Monitoring Results	
Project No.: 60307376 Date:	Jan-19	Appendix E

APPENDIX F METEROLOGICAL DATA

#### Appendix F Meteorological Data

#### November 2017

The weather in Hong Kong was gloomier and more humid than usual in November 2017. The duration of bright sunshine in the month was only 114.3 hours, about 37 percent below the normal figure of 180.1 hours and the third lowest for November on record. The monthly mean temperature was 22.2 degrees, 0.4 degree above the normal figure of 21.8 degrees. Despite the rather cloudy and more humid conditions for most part of the month, the monthly rainfall was only 31.2 millimetres, about 17 percent below the normal of 37.6 millimetres. The accumulated rainfall this year up to November was 2572.1 millimetres, a surplus of about 8 percent above the normal of 2371.7 millimetres for the same period.

#### December 2017

In contrast to November, the weather in Hong Kong was sunny and bright in December 2017 and, apart from three days on 13, 17 and 23 December, the territory enjoyed more than two hours of sunshine each day during the month. The monthly total sunshine duration amounted to 209.6 hours, 37.4 hours and 22 percent above the December normal of 172.2 hours. The monthly mean temperature was 17.8 degrees, 0.1 degree below the December normal of 17.9 degrees. Only traces of rainfall were recorded in the month, with most of them occurring during a surge of strong easterly monsoon on 12 – 14 December. The only rain-free December was way back in 1909, and December 2017 was one of ten Decembers with traces of rainfall since records began in 1884. Nevertheless, the total rainfall of 2572.1 millimetres accumulated in 2017 still exceeded the annual normal of 2398.5 millimetres by about 7 percent.

#### January 2018

Despite some mild interludes, January 2018 was dominated by the northeast monsoon with two episodes of cold weather during the first half and towards the end of the month. Overall, the month was slightly cooler than usual with a mean temperature of 16.1 degrees, 0.2 degree below the normal figure of 16.3 degrees. It also had more rain than usual with 62.2 millimetres of rainfall recorded in the month, more than double the normal figure of 24.7 millimetres.

#### February 2018

With the persistence of an intense winter monsoon during the early part of the month, the weather of February 2018 was overall cooler than usual. The monthly mean temperature of 16.0 degrees was 0.8 degree below the normal figure of 16.8 degrees. It was also relatively dry with only 4.5 millimetres of rainfall recorded in the month, less than 10 percent of the February normal of 54.4 millimetres. The accumulated rainfall for the first two months of the year was 66.7 millimetres, about 15 percent below the normal figure of 78.9 millimetres for the same period.

#### March 2018

March 2018 was unseasonably warm and sunny with little rain. The total duration of bright sunshine of 196.2 hours in the month was more than twice the normal of 90.8 hours and was the highest on record for March. The monthly mean temperature was 20.8 degrees, 1.7 degrees higher than the normal of 19.1 degrees and one of the fourth highest on record for March. The total rainfall in the month was 22.7 millimetres, only about 28 percent of the normal of 82.2 millimetres. The accumulated rainfall of 89.4 millimetres since 1 January was about 45 percent below the normal of 161.3 millimetres for the same period.

#### April 2018

April 2018 was warmer than usual with a mean temperature of 23.6 degrees, 1.0 degree above the normal of 22.6 degrees. The month was also much drier than usual with only 28.1 millimetres of rainfall recorded in the month, about one-sixth of the normal of 174.7 millimetres and the eighth lowest on record for April. The accumulated rainfall recorded in the first four months of the year was 117.5 millimetres, a deficit of 65 percent compared to the normal of 336.1 millimetres for the same period.

#### May 2018

Under the dominance of an upper-air anticyclone over the northern part of the South China Sea, Hong Kong experienced an exceptionally hot and dry May with a 20-day fine spell that lasted till the end of the month. The monthly mean temperature of 28.3 degrees and monthly mean minimum temperature of 26.1 degrees were 2.4 degrees and 2.0 degrees above their respective normals and were the highest ever on record for May. The mean maximum temperature of 31.7 degrees was 3.3 degrees above normal and the second highest on record for May. There were in total 16 very hot days, including a heat wave of 15 consecutive very hot days that started from 17 May, and 6 hot nights in the month, all breaking the records for May. The total duration of bright sunshine was 236.9 hours, 96.5 hours above the normal of 140.4 hours and the fourth highest on record for May. The mean cloud amount of 62% and the mean relative humidity of 77% were respectively the joint fifth and joint third lowest on record for May. Rainfall in the month amounted to only 57.5 millimetres, less than one-fifth of the normal of 304.7 millimetres. The accumulated rainfall recorded in the first five months of the year was 175.0 millimetres, a deficit of 73 percent compared to the normal of 640.8 millimetres and the second lowest record for the same period.

#### June 2018

After a very dry May, the long awaited rainfall eventually returned to Hong Kong in June 2018, mainly due to the passage of tropical cyclone Ewiniar in early June, as well as showery activities associated with troughs and an active southerly airstream later in the month. The monthly rainfall was 458.8 millimetres, slightly above the normal of 456.1 millimetres in June. However, with well below normal rainfall in the first five months, the accumulated rainfall recorded in the first half of the year was 633.8 millimetres, a deficit of 42 percent compared to the normal of 1096.9 millimetres for the same period. The month was also warmer than usual with a mean temperature of 28.6 degrees, 0.7 degree above the normal of 27.9 degrees.

#### July 2018

The weather in Hong Kong was cloudier than usual in July 2018. The mean amount of cloud in the month was 77 percent, 8 percent above the normal of 69 percent. The duration of bright sunshine in the month was only 181.1 hours, about 15 percent below the normal figure of 212.0 hours. The month was also warmer than usual with the mean temperature of 29.1 degrees, 0.3 degrees above the normal of 28.8 degrees. Despite the cloudy and rather showery conditions for most part of the month, the monthly rainfall was 341.1 millimetres, about 9 percent below the normal of 376.5 millimetres in July. The accumulated rainfall recorded in the first seven months of the year was 974.9 millimetres, a deficit of 34 percent compared to the normal of 1473.3 millimetres for the same period.

#### August 2018

Affected by the outer rainbands of tropical cyclone Bebinca in mid-August and the heavy showers associated with an active trough of low pressure towards the end of the month, the weather in Hong Kong was wetter and much gloomier than usual in August 2018. The mean amount of cloud in the month was 84 percent, 15 percent above the normal of 69 percent and one of the highest on record for August. The duration of bright sunshine in the month was only 116.2 hours, about 38 percent lower than the normal figure of 188.9 hours and the lowest on record for August. The monthly rainfall was 615.1 millimetres, about 42 percent above the normal of 432.2 millimetres in August. The accumulated rainfall recorded in the first eight months of the year was 1590.0 millimetres, a deficit of 17 percent compared to the normal of 1905.5 millimetres for the same period.

#### September 2018

September 2018 was marked by the ferocious strike of severe typhoon Mangkhut which necessitated the issuance of the No. 10 Hurricane Signal in Hong Kong for 10 hours on 16 September. This is the second longest duration of No. 10 Hurricane Signal in Hong Kong since 1946, just next to the record of 11 hours set by Typhoon York in 1999. Mainly attributing to the rainfall brought by Mangkhut, the month was wetter than usual. The monthly rainfall was 383.3 millimetres, about 17 percent above the normal of 327.6 millimetres, a deficit of 12 percent compared to the normal of 2233.1 millimetres for the same period. The month was also hotter than usual with a mean temperature of 28.0 degrees, 0.3 degrees above normal of 27.7 degrees.

#### October 2018

With the northeast monsoon successively affecting south China coastal areas, October 2018 was slightly cooler than usual in Hong Kong. The monthly mean temperature of 25.3 degrees was 0.2 degrees below the normal figure of 25.5 degrees. The monthly rainfall was 104.3 millimetres, slightly above the normal of 100.9 millimetres in October. The accumulated rainfall recorded in the first ten months of the year was 2077.6 millimetres, a deficit of 11 percent compared to the normal of 2334.0 millimetres for the same period.

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

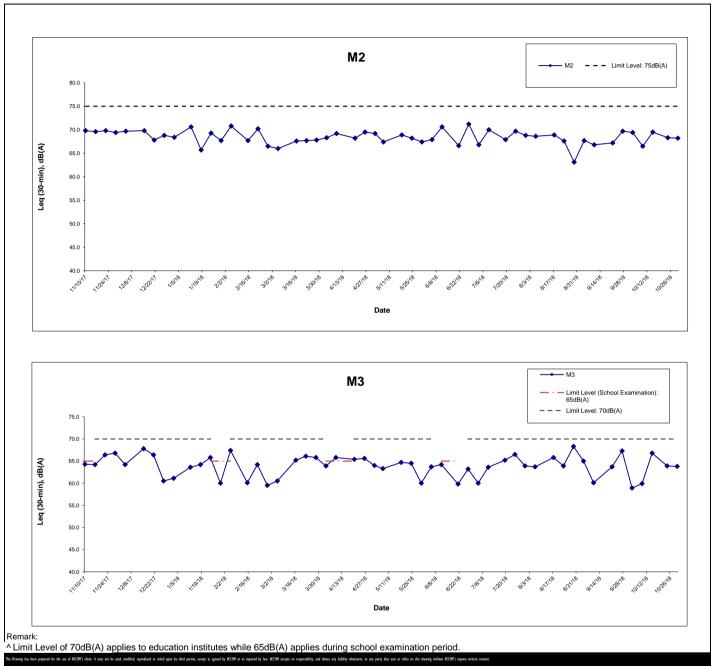
Location : M2 (West Tai Wo - Free Field) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	ured Noise Lev	vel for 30-min, d	B(A)	Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
10-Nov-17	14:46	69.8	71.1	65.6	75	N
16-Nov-17	14:40	69.6	71.0	67.0	75	N
22-Nov-17	11:09	69.8	71.7	67.2	75	N
28-Nov-17	14:38	69.4	70.5	67.3	75	N
4-Dec-17	10:30	69.7	72.6	64.2	75	N
15-Dec-17	13:30	69.8	71.7	67.2	75	N
21-Dec-17	11:30	67.8	70.0	65.5	75	N
27-Dec-17	14:30	68.8	70.0	66.0	75	N
2-Jan-18	10:30	68.4	70.0	66.5	75	Ν
12-Jan-18	10:20	70.6	73.6	67.2	75	N
18-Jan-18	11:20	65.7	66.4	64.3	75	N
24-Jan-18	14:10	69.3	71.8	67.0	75	N
30-Jan-18	13:20	67.7	69.0	63.5	75	N
5-Feb-18	13:35	70.8	72.3	68.7	75	N
15-Feb-18	13:30	67.7	69.5	65.5	75	N
21-Feb-18	14:10	70.2	73.9	66.2	75	N
27-Feb-18	14:30	66.5	68.0	64.5	75	N
5-Mar-18	14:00	66.0	68.0	64.0	75	N
16-Mar-18	11:30	67.6	69.2	65.3	75	N
22-Mar-18	14:00	67.7	69.0	65.0	75	N
28-Mar-18	15:35	67.8	69.5	65.2	75	N
3-Apr-18	9:53	68.3	69.8	66.2	75	Ν
9-Apr-18	15:00	69.2	71.1	66.3	75	N
20-Apr-18	10:15	68.2	70.5	65.6	75	N
26-Apr-18	10:15	69.5	71.1	67.2	75	N
2-May-18	13:30	69.2	72.0	65.6	75	N
7-May-18	14:25	67.4	69.8	65.7	75	N
18-May-18	14:10	68.9	70.5	65.8	75	N
24-May-18	15:30	68.2	70.6	66.0	75	N
30-May-18	13:55	67.4	69.0	65.0	75	N
5-Jun-18	14:45	67.9	69.3	65.5	75	Ν
11-Jun-18	13:12	70.6	74.3	66.2	75	N
21-Jun-18	13:20	66.6	67.5	64.0	75	N
27-Jun-18	10:10	71.2	74.6	67.8	75	N
3-Jul-18	14:10	66.8	70.0	64.5	75	N
9-Jul-18	10:08	70.0	76.2	66.5	75	N
19-Jul-18	14:18	67.9	69.6	65.2	75	N
25-Jul-18	10:25	69.7	71.4	67.2	75	N
31-Jul-18	13:35	68.8	70.5	65.9	75	N
6-Aug-18	13:05	68.6	70.3	65.9	75	N
17-Aug-18	14:49	68.9	71.5	66.3	75	N
23-Aug-18	13:45	67.6	69.2	65.5	75	N
29-Aug-18	13:25	63.1	65.0	60.5	75	N
4-Sep-18	15:05	67.7	69.0	65.2	75	N
10-Sep-18	14:20	66.8	69.5	65.0	75	N
21-Sep-18	14:45	67.2	69.0	65.0	75	N
27-Sep-18	11:35	69.7	72.3	66.9	75	N
3-Oct-18	11:45	69.4	71.0	66.5	75	N
9-Oct-18	11:20	66.5	68.5	64.0	75	N
15-Oct-18	9:52	69.5	71.8	67.2	75	N
24-Oct-18	15:00	68.3	70.4	66.8	75	N
30-Oct-18	14:15	68.2	69.8	66.1	75	N
Minimum for Nov	17 to Oct 18	63.1	65.0	60.5		
Maximum for Nov	v 17 to Oct 18	71.2	76.2	68.7		
	17 to Oct 18	68.7	70.9	66.0		

# Location : M3 (Fanling Government Secondary School- Façade) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

<b></b>	Meas	sured Noise Le	vel for 30-min, d	B(A)	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
10-Nov-17	12:12	64.3	66.0	61.8	65	N
16-Nov-17	12:25	64.2	65.5	61.5	70	N
22-Nov-17	13:35	66.4	68.0	63.9	70	N
28-Nov-17	13:25	66.8	68.7	64.3	70	N
4-Dec-17	10:48	64.2	67.9	60.5	70	N
15-Dec-17	14:50	67.8	70.5	65.3	70	N
21-Dec-17	13:35	66.4	68.0	63.9	70	N
27-Dec-17	14:00	60.5	61.5	56.5	70	N
2-Jan-18	10:00	61.1	62.0	56.6	70	N
12-Jan-18	9:30	63.6	66.7	60.6	70	N
18-Jan-18	10:45	64.2	65.5	63.8	70	N
24-Jan-18	13:15	65.8	67.7	63.6	70	N
30-Jan-18	13:00	60.0	61.0	57.0	65	N
5-Feb-18	14:40	67.4	69.5	65.7	70	N
15-Feb-18	13:05	60.1	61.0	57.5	70	N
21-Feb-18	15:09	64.2	67.5	60.2	70	N
27-Feb-18	13:30	59.5	60.5	57.0	70	N
5-Mar-18	13:00	60.5	61.5	58.0	70	N
16-Mar-18	10:27	65.2	67.0	63.1	70	N
22-Mar-18	13:00	66.1	61.5	57.5	70	N
28-Mar-18	14:40	65.8	67.7	63.2	70	N
3-Apr-18	9:40	63.9	65.6	62.1	70	N
9-Apr-18	13:37	65.8	67.3	62.9	65	Y
20-Apr-18	9:30	65.4	67.3	62.7	70	N
26-Apr-18	10:30	65.6	67.3	61.5	70	N
	14:19	64.0	67.3	60.5	70	N
2-May-18 7-May-18	13:35	63.3	66.1	60.8	70	N
-	13:15	64.7	65.8	62.9	70	N
18-May-18 24-May-18	14:25	64.5	66.1	62.9	70	N
30-May-18	13:05	60.0	61.0	57.0	70	N
	13:40	63.7	65.6	61.8	70	N
5-Jun-18	14:10	64.2	66.9	60.6	65	N
11-Jun-18 21-Jun-18	13:00	59.8	60.5	56.5	65	N
27-Jun-18	10:30	63.2	66.7	59.6	70	N
	13:30	60.0	61.0	56.5	70	N
3-Jul-18	9:45		67.2	57.8	70	N
9-Jul-18	9.45	63.6 65.2	66.8	62.6	70	N
19-Jul-18	11:28				70	N
25-Jul-18 31-Jul-18	14:30	66.5 63.9	68.9 65.6	64.3 61.5	70	N
6-Aug-18	14:15	63.7 65.8	65.5 67.1	61.4	70 70	N N
17-Aug-18	15:50		67.1	63.2	70	N N
23-Aug-18	14:02 14:40	63.9 68.3	65.5 69.8	61.8 65.5	70	N
29-Aug-18						N N
4-Sep-18	14:00	65.0	66.7	63.2	70	
10-Sep-18	13:30 13:50	60.1 63.7	61.5 65.2	57.0	70 70	N N
21-Sep-18				61.3		
27-Sep-18	13:49	67.3	69.4	65.6 56.5	70	N
3-Oct-18	11:30	58.9	60.5	56.5	70	N
9-Oct-18	11:05	59.9	60.5	56.5	70	N
15-Oct-18	10:50	66.8	68.7	64.3	70	N
24-Oct-18	13:35	63.9	65.5	60.7	70	N
30-Oct-18	13:20	63.8	65.8	60.9	70	N
Minimum for Nov		58.9	60.5	56.5	-1	
Maximum for No		68.3	70.5	65.7	-1	
Average for Nov	17 to Uct 18	64.5	66.4	62.0		

\* +3dB(A) Façade effect correction included
 ^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



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: Jan-19

Appendix G

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

# Appendix H Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental	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		
complaints	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	- 0	8

# 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
		EPD referred an air complaint on 24 October 2014.			
		A resident complained against the excavation works of Tai Wo			
	23 October	Service Road West between Nam Wah Po & Tai Hang Tsuen, which			
	2014	have piled up high stockpiles, causing serious dust nuisance to his house.	Closed		
		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.			
		EPD referred a water complaint on 31 December 2014.			
	31 December 2014	The complainant complained about the muddy river outside Tai Hang	Closed		
		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.			
		EPD referred a water complaint on 25 March 2015.			
		The complainant complained about the generation of the smell of	Closed		
	25 March	gasoline from the Widening of Fanling Highway construction site on			
	2015	Tai Wo Service Road West, causing serious nuisance to nearby			
		houses.			
		The situation has continued for a few weeks and she asked the EPD			
		to follow up as soon as possible.			

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
5 January 2017 (Referred by the Contractor on 13 January 2017)	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. 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. 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.	Closed		
22 May 2017 (Referred by the Contractor on 23 May 2017)	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. 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). The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	25 February 2018 (Referred by the Contractor on 1 March 2018)	The 1823 enquiry and complaint hotline received a complaint on 25 February 2018. The complaint was referred to the Environmental Team by the Contractor on 1 March 2018. A complainant complained that noise nuisance was caused continuously by road construction works at Fanling Highway near Tai Hang Village during 01:30 to 04:00 on 25 February 2018. The complainant concerned that the nuisance affects residence and asked for follow-up action from the related department.			
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

	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