

Civil Engineering and Development Department

**Agreement No. CE 67/2015 (HY)
Cycle Tracks from Tuen Mun
to Sheung Shui – Remaining Works
Design and Construction**

**Quarterly EM&A Report
(Version 1.0)**

May 2020 to July 2020

Approved By



(Mr. KS Lee,
Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
Introduction.....	3
Environmental Monitoring Works	3
Environmental Licenses and Permits	5
Key Information in the Reporting Quarter.....	5
1. INTRODUCTION.....	6
Background	6
Project Organizations.....	7
2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS	8
Monitoring Parameters and Monitoring Locations	8
Monitoring Methodology	8
Environmental Quality Performance Limits (Action and Limit Levels).....	8
Implementation Status of Environmental Mitigation Measures.....	8
Site Audit Summary	9
Status of Waste Management	9
3. MONITORING RESULTS AND NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)	10
Weather Conditions.....	10
Air Quality.....	10
Construction Noise.....	10
Landscape and Visual	10
Influencing Factors on the Monitoring Results	10
Comparison of EM&A results with EIA predictions	11
4. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS	12
Review of the Reasons for and the Implications of Non-compliance.....	12
Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme	12
Effectiveness of Mitigation Measures	12
Recommendations.....	12

LIST OF TABLE

Table I	Summary Table for Non-compliance Recorded in the Reporting Quarter
Table II	Summary Table for Key Information in the Reporting Quarter
Table 1.1	Key Project Contacts
Table 2.1	Status of Required Submissions under EP
Table 3.1	Major Noise Sources during the Monitoring in the Reporting Period

LIST OF FIGURES

Figure 1	Layout Plan of the Project
Figure 2	Locations of Construction Noise Monitoring Stations

LIST OF APPENDICES

A	Construction programme
B	Monitoring Requirements
C	Action and Limit Levels for Noise
D	Noise Monitoring Results and Graphical Presentations
E	Environmental Mitigation Implementation Schedule (EMIS)
F	Site Audit Summary
G	Monthly Summary Waste Flow Table
H	Summary of Exceedances

LIST OF ANNEXES

Annex I	Comparison of EM&A Data and EIA Predictions
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EXECUTIVE SUMMARY

Introduction

1. This is the 15th Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted between 1st May 2020 and 31st July 2020.
2. The construction programme is presented in **Appendix A**. The construction activities undertaken in the reporting quarter were:

Portion A	- General Cleaning
Portion B	- Internal Finishing & E&M Works for Subway A, Installation of Steel Roof, Construction of Cycle Track, Modification of Existing Carriageway
Portion C	- General Cleaning, Installation of Water Point
Portion D	- Installation of Traffic Aids, General Cleaning, CCTV for drainage pipe, Installation of Road Lighting
Portion E	- Realignment and resurfacing Mai Po Lung Road, Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Installation of Road Lighting
Portion F	- Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Construction of Footpath, Construction of Drainage Pipe / Channel, Installation of Traffic Aids, CCTV for Drainage Pipe, Installation of Road Lighting
Portion G	- General Cleaning
Portion H	- Construction of Road Kerb, Laying Bituminous for Cycle Track, Installation of Bicycle Parapet and Railing, Construction of Drainage Pipe / Channel, Construction of Cross Ducting for Traffic Signal, Realignment of Castle Peak Road, Installation of Road Lighting
Portion I	- Modification of Carriageway and Removal of Temporary Steel Bridge of TTA, Installation of Traffic Aids
Portion J	- Construction of Drainage / Channel, Construction of Road Kerb, Laying Bituminous Pavement for Cycle Track, Installation of Bicycle Parapet and Type II Railing, Installation of Road Lighting
Portion K	- General Cleaning, Installation of Road Lighting
Portion M	- Installation of Lighting for Bridge E, Installation of Road Lighting
Portion N	- Construction of Road Kerb, Installation of Traffic Aids

Environmental Monitoring Works

3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

4. Summary of the non-compliance in the reporting quarter for the Project is tabulated in **Table I**.

Table I Non-compliance Record for the Project in the Reporting Quarter

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
May 2020			
Noise	0	0	N/A
June 2020			
Noise	0	0	N/A
July 2020			
Noise	0	0	N/A

5. No exceedance was recorded at any noise monitoring station during the reporting period.

Environmental Licenses and Permits

6. Licenses/Permits granted to the Project include:
- Environmental Permits (EP) for the Project,
 - EP-450/2013 issued on 30 May 2013 and EP-450/2013/A issued on 25 August 2015; and
 - EP-501/2015 issued on 2 September 2015
 - Billing Account for Waste Disposal (Acc No.: 7025411)
 - Discharge License
 - WT00028748-2017, WT00027672-2017, WT00027661-2017, WT00027606-2017, WT00027510-2017, WT00027509-2017, WT00027603-2017, WT00027605-2017, WT00027508-2017, WT00027834-2017, WT00028431-2017, WT00027607-2017, WT00028850-2017, WT00030236-2018, WT00034612-2019
 - Chemical Waste Producers
 - No.: WPN5213-524-K3261-01

Key Information in the Reporting Quarter

7. Summary of key information in the reporting quarter is tabulated in **Table II**.

Table II Summary Table for Key Information in the Reporting Quarter

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	--
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

No complaints were received in this quarter.

8. Environmental monitoring works for the Project are considered effective and is generating data to categorically identify the environmental impacts from the works and influencing factors in the vicinity of monitoring stations.

1. INTRODUCTION

Background

- 1.1 “Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River” (the EIA Report) is a Schedule 2 Designated Project (DP) under Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) Report (Registered No.: AEIAR-133/2009) and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 12 March 2009.
- 1.2 Civil Engineering and Development Department (CEDD) implemented the DP in two stages, i.e. Stage 1 and Stage 2. An Environmental Permit (EP) No. EP-450/2013 has been granted for Stage 1 works on 30 May 2013. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-450/2013) based on the Application No. VEP-478/2015 and the EP (Permit No. EP-450/2013/A) was issued on 25 August 2015 to CEDD as the Permit Holder.
- 1.3 An Environmental Review (ER) Report of the “Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2” had been prepared in July 2015 and the Environmental Monitoring and Audit Manual (EM&A Manual) was also included as part of the ER report in the application (Application No.: AEP-501-2015). An Environmental Permit No. EP-501/2015 was issued on 2 September 2015 for Stage 2 works to CEDD as the Permit Holder.
- 1.4 “Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction” (hereinafter called the “Project”) covers the Stage 1 (Part) and Stage 2 works of the DP. This Project was commissioned to Sang Hing – Kuly Joint Venture (hereinafter called the “Contractor”) for “Contract No.: YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works”. The site location is shown in **Figure 1a-1h** respectively.
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of the Project was on 23rd November 2016. This is the 15th Quarterly EM&A Report summarizing the EM&A works for the Project from 1st May 2020 – 31st July 2020.

Project Organizations

1.6 Different parties with different levels of involvement in the project organization include:

- Project Proponent – Civil Engineering and Development Department (CEDD)
- Supervisor Representative – Mannings (Asia) Consultants Limited (Mannings)
- Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
- Independent Environmental Checker (IEC) – ANewR Consulting Limited (ANewR)
- Contractor – Sang Hing – Kuly Joint Venture (SKJV)

1.7 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Chu Wai Lun, Thomas	2417 6370	2412 0358
Mannings	Supervisor Representative	Mr. Simon Ng	3168 2028	3168 2022
Cinotech	Environmental Team	Mr. KS Lee	2151 2091	3107 1388
		Ms. Betty Choi	2151 2072	
ANewR	Independent Environmental Checker	Mr. Adi Lee	2618 2836	3007 8648
SKJV	Contractor	Mr. Ma Kin Man	9552 1734	2890 8205

2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

- 2.1 The monitoring locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters designed for the routine impact monitoring were complied with the requirements stipulated under the EM&A Manual.

Monitoring Parameters and Monitoring Locations

- 2.2 The EM&A Manual designates locations for the ET to monitor environmental impacts in terms of air quality, noise, landscape and visual due to the Project. The Project area and monitoring locations are depicted in **Figures 2a-2c**. **Appendix B** gives details of monitoring requirements.

Monitoring Methodology

- 2.3 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

- 2.4 Should the environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix C**.

Implementation Status of Environmental Mitigation Measures

- 2.5 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix E**. Status of required submissions under the Environmental Permit (EP) of the reporting period is presented in **Table 2.1**.

Table 2.1 Status of Required Submissions under EP

EP Condition	Submission	Submission Date
3.5	Monthly Environmental Monitoring & Audit Report (May 2020)	13 June 2020
	Monthly Environmental Monitoring & Audit Report (June 2020)	13 July 2020
	Monthly Environmental Monitoring & Audit Report (July 2020)	17 August 2020

Site Audit Summary

- 2.6 Site audits were carried out on a weekly basis. During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made during the reporting period are summarized in **Appendix F**.

Status of Waste Management

- 2.7 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix G**.

3. MONITORING RESULTS AND NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

- 3.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix H**.

Weather Conditions

- 3.2 The detail of weather conditions for each individual monitoring session was presented in monthly EM&A report.

Air Quality

- 3.3 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no air quality monitoring is required for the Project.

Construction Noise

- 3.4 All construction noise monitoring was conducted as scheduled in the reporting period. No Action and Limit Level exceedance was recorded.
- 3.5 The graphical presentations of the noise monitoring results are shown in **Appendix D**.

Landscape and Visual

- 3.6 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures of this project. No non-compliance of the landscape and visual impact was recorded in the reporting quarter.

Influencing Factors on the Monitoring Results

- 3.7 During the reporting period, the major noise sources identified at the designated monitoring stations are as follows:

Table 3.1 Major Noise Sources during the Monitoring in the Reporting Period

Monitoring Stations	Locations	Major Noise Source(s)
N1	HKMLC Wong Chan Sook Ying Memorial School	Road traffic noise Noise from daily school activities
N2	Bethel High School	Road traffic noise Noise from daily school activities
N3	No. 159 Mai Po San Tsuen	Road traffic noise
N5	Block 2, Dills Corner Garden	Road traffic noise
N6	Home of Loving Faithfulness	Road traffic noise Noise from activities at the premise and workshops near the premise
N7	Village House in Shek Wu Wai	Road traffic noise Noise from activities at workshops near the village house

Comparison of EM&A results with EIA predictions

- 3.8 According to Section 12.5.1 (viii) of the EM&A Manual, the EM&A data are compared with the EIA predictions and summarized in **Annex I**.
- 3.9 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results at N1 were slightly lower than the range of predicted mitigated construction noise levels in the EIA Report in this quarter.
- 3.10 The results at N2 were lower than the range of predicted mitigated construction noise levels in the EIA Report in this quarter.
- 3.11 The results at N3 was lower than the range of predicted mitigated construction noise levels in the EIA Report in May, but slightly lower than the range in June and July.
- 3.12 The results at N5 were lower than the range of the predicted mitigated construction noise levels in the EIA Report in this quarter.
- 3.13 The results at N6 were slightly lower than the range of the predicted mitigated construction noise levels in the EIA Report in this quarter.

4. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

Review of the Reasons for and the Implications of Non-compliance

- 4.1 No Action/Limit Level exceedance was recorded at all noise monitoring stations in the reporting quarter.

Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme

- 4.2 The EM&A methodology has been effective in monitoring the environmental impacts of the Project and the effectiveness of the mitigation measures. The data collected were useful in determining whether the Project had caused unacceptable impacts on the sensitive receivers. Analysis of all EM&A data collected throughout the baseline and the impact periods demonstrated the environmental acceptability of the Project.

Effectiveness of Mitigation Measures

- 4.3 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.
- 4.4 The Contractor has implemented the recommended mitigation measures except those mitigation measures not applicable at this stage.
- 4.5 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed. No non-compliance (exceedances) of Action/Limit Level was recorded.
- 4.6 Three environmental complaints were received in the reporting quarter. No environmental prosecution were received in the reporting quarter.
- 4.7 The effectiveness of environmental management is satisfactory given that the recommendations given in the site inspections performed in the reporting period (as shown in **Appendix F**) are met.

Recommendations

- 4.8 According to the environmental audits performed in the reporting quarter, the following recommendations were made:

Air Quality

- Water spraying should be provided frequently to unpaved and exposed area, and haul roads for dust suppression.
- Proper tarpaulin coverage should be provided to all stockpiles in the Site to prevent dust generation.

Water Quality

- Wheel washing bays in all Portions within the Site should be maintained as far as practicable by means of removing silty water or using cleaner water in order to enhance the effectiveness of wheel washing in every portion within the Site.
- Embankment or dikes should be established at the site boundary to direct any untreated wastewater from the Site to wastewater treatment facility during rain events to perform water treatment before discharge.
- Standing or ponding water within the Site should be cleared as far as practicable.

Waste/Chemical Management

- General refuse should be removed regularly to prevent accumulation on-site. Proper enclosed bin should be provided with maintenance for collection of general refuse from workforce.
- Drip tray should be provided to oil/chemical containers and generator to avoid oil leakage. Any oil stain observed on ground should be properly removed as chemical waste.

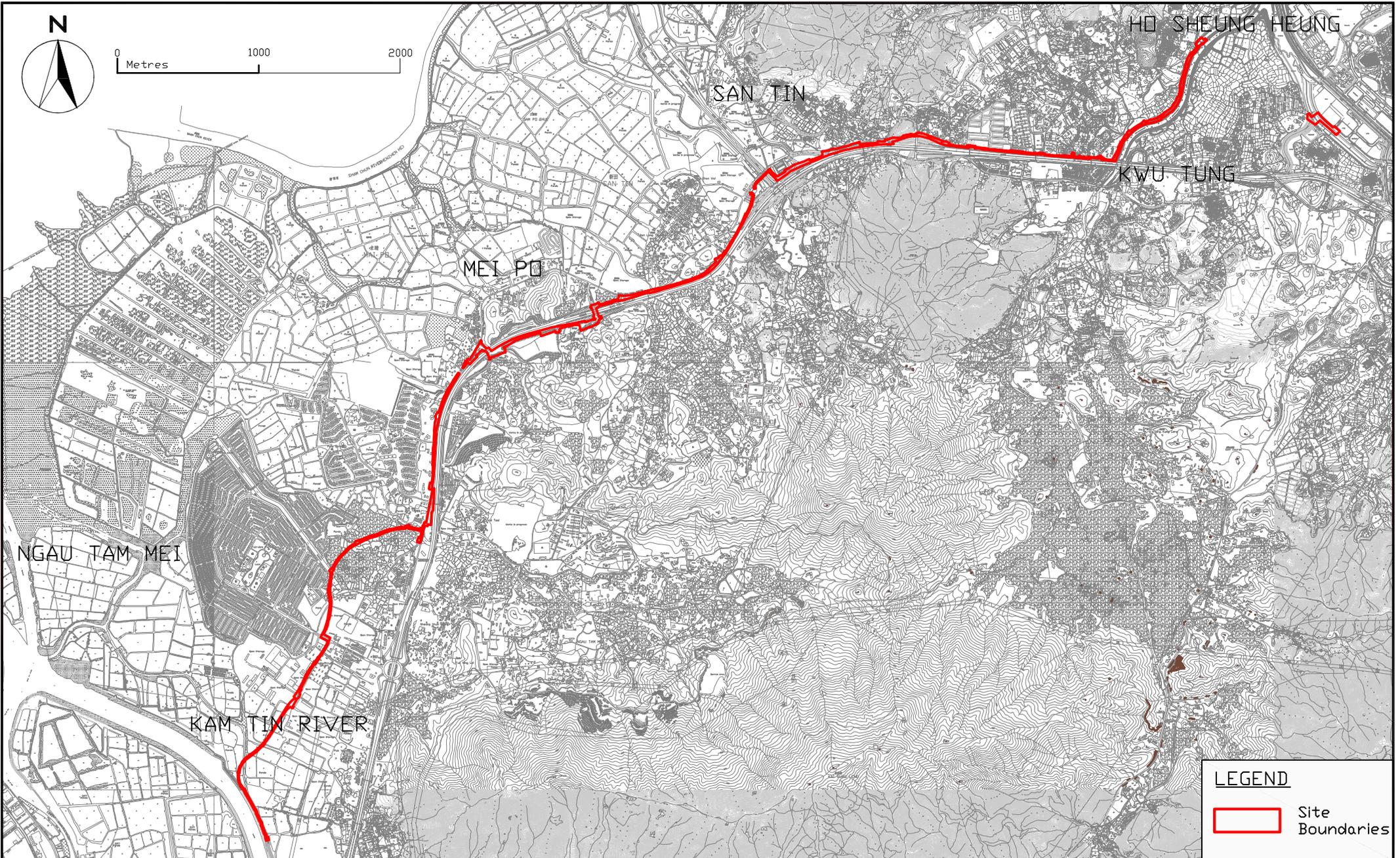
Landscape and Visual

- Adequate tree protection zones should be established to protect retained and existing trees. Conspicuous signs of status of trees should be clearly shown to avoid damage from PME or workers.

FIGURES



0 Metres 1000 2000



LEGEND

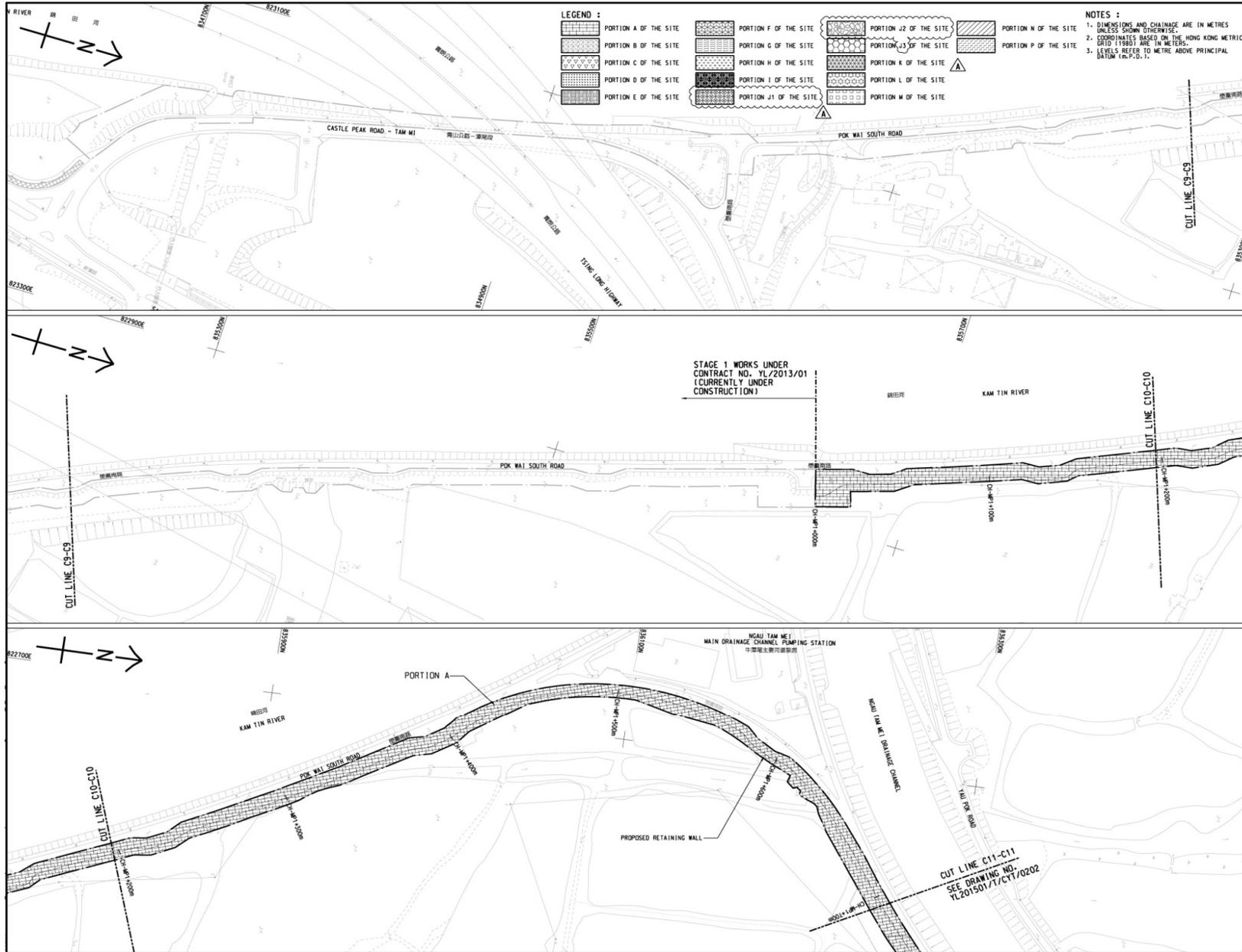
 Site Boundaries



Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

SITE LAYOUT PLAN

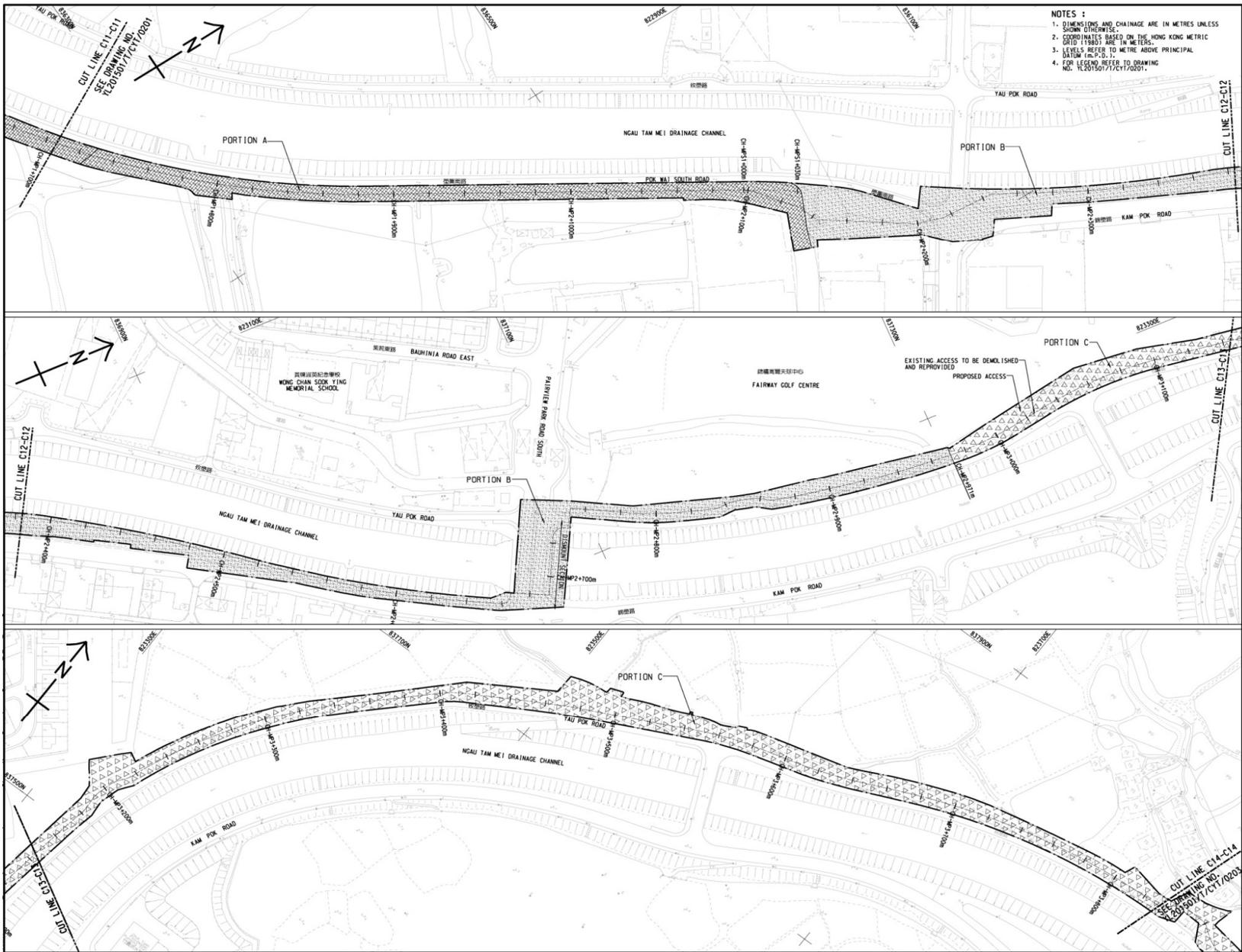
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JOB No.	MA16036	FIGURE NO.	1a	REV	-



Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1b

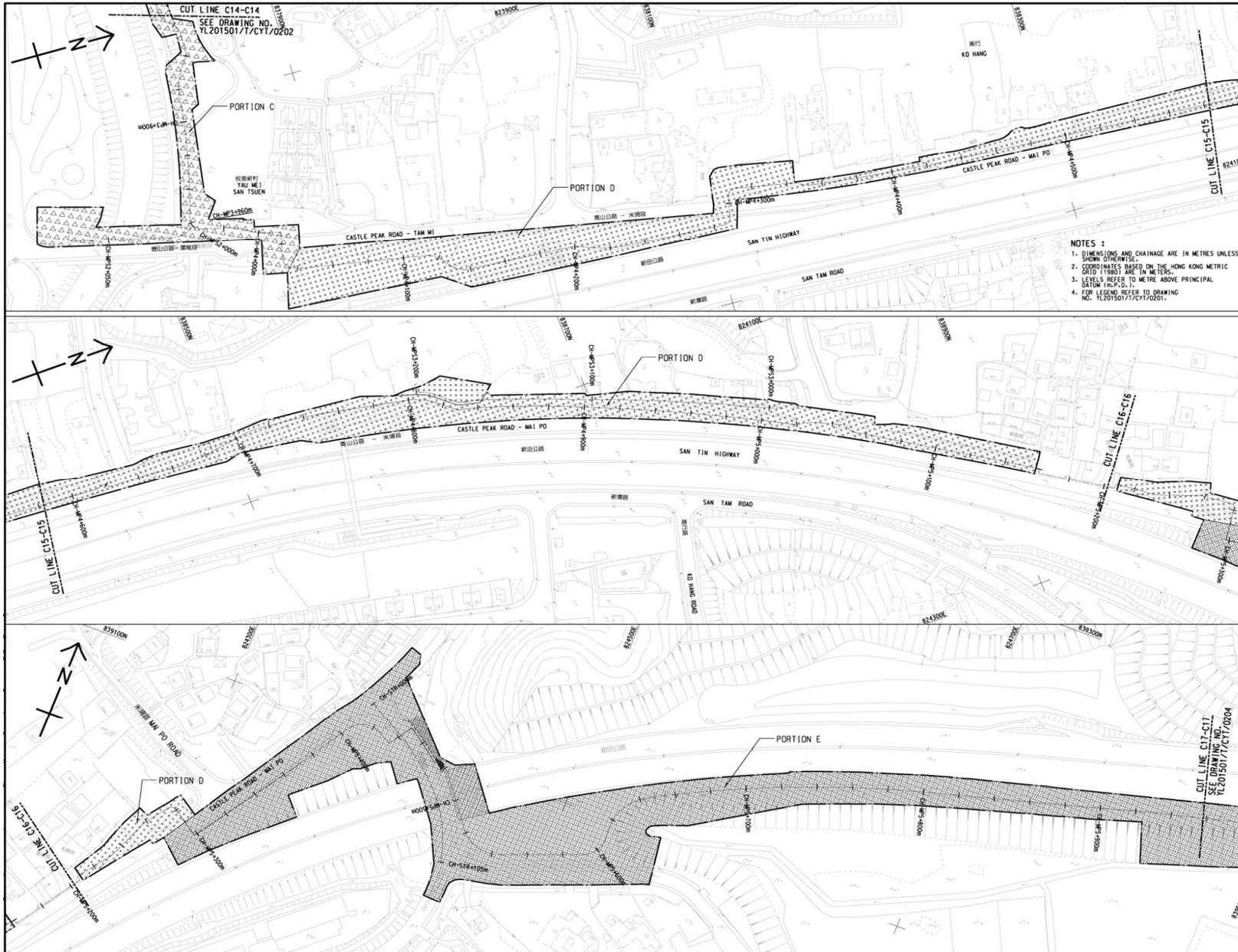
CINOTECH



Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1c

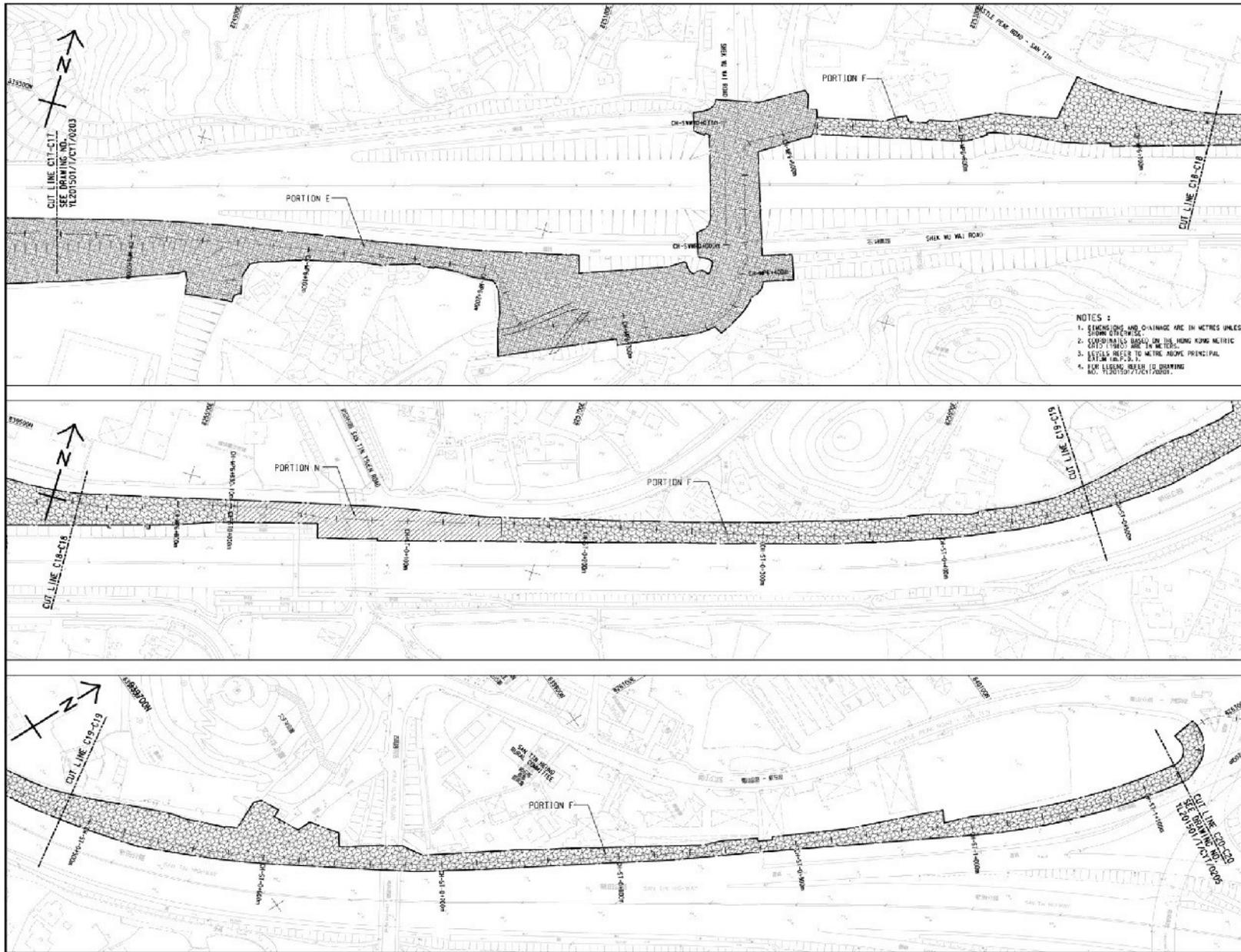




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1d

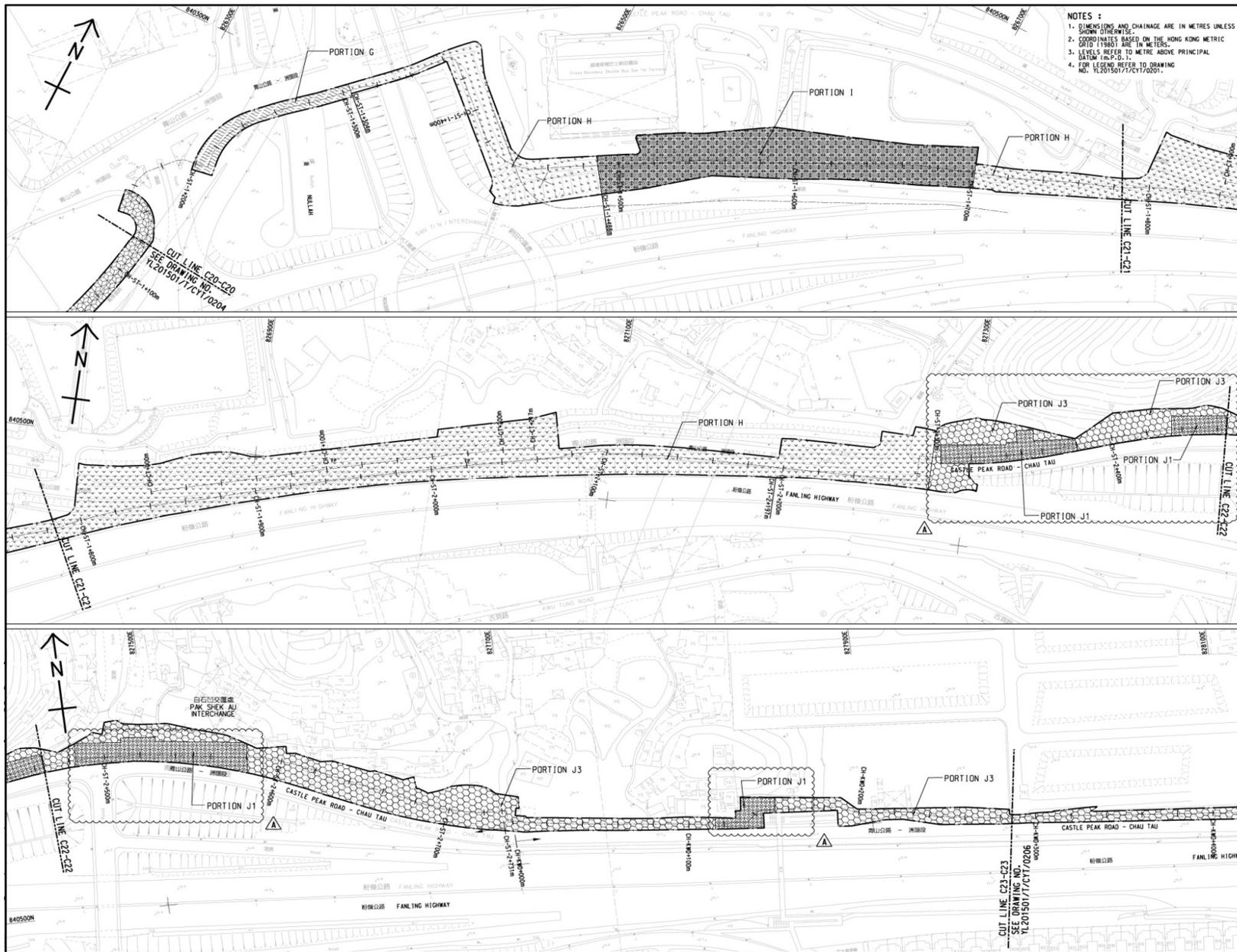




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1e

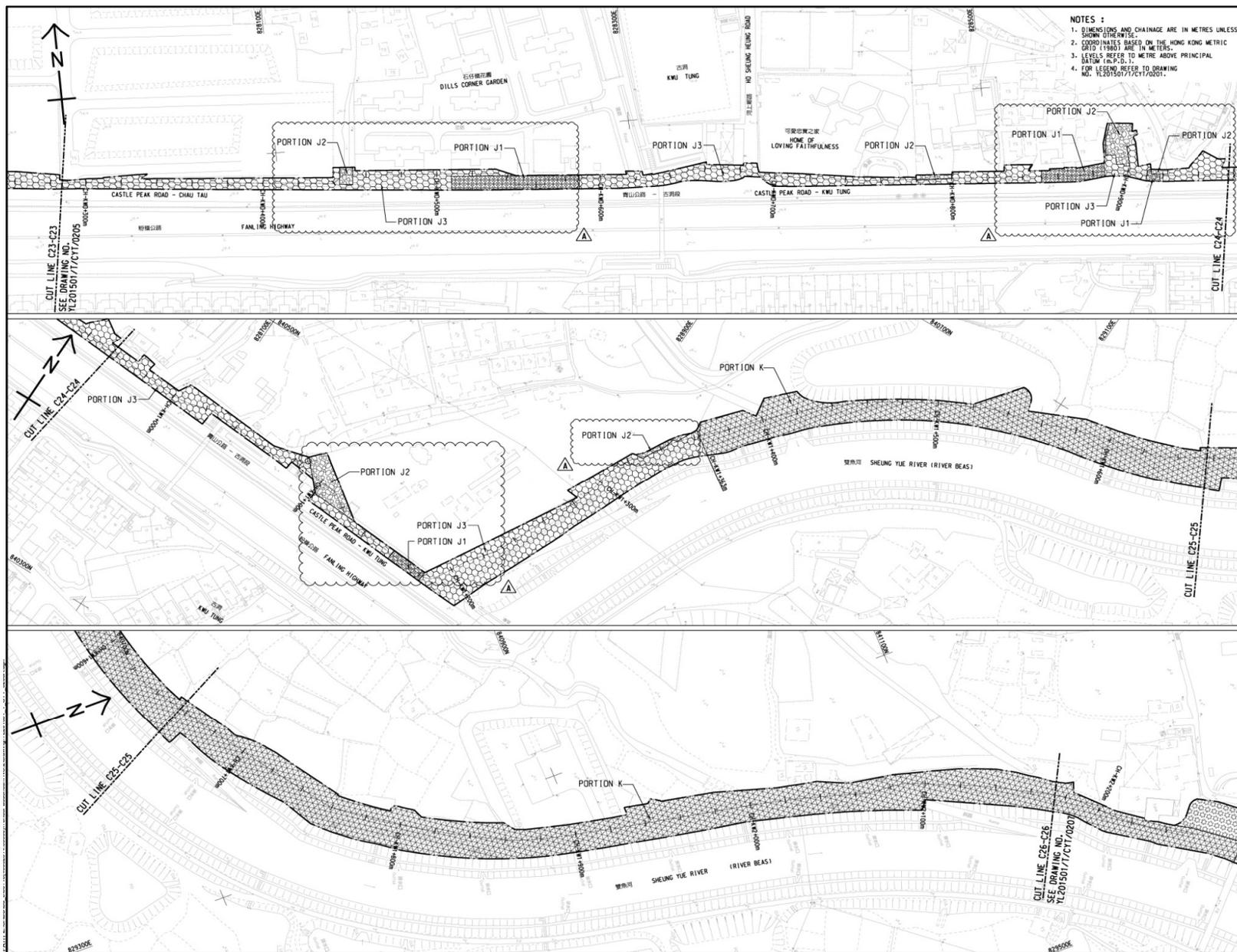




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1f

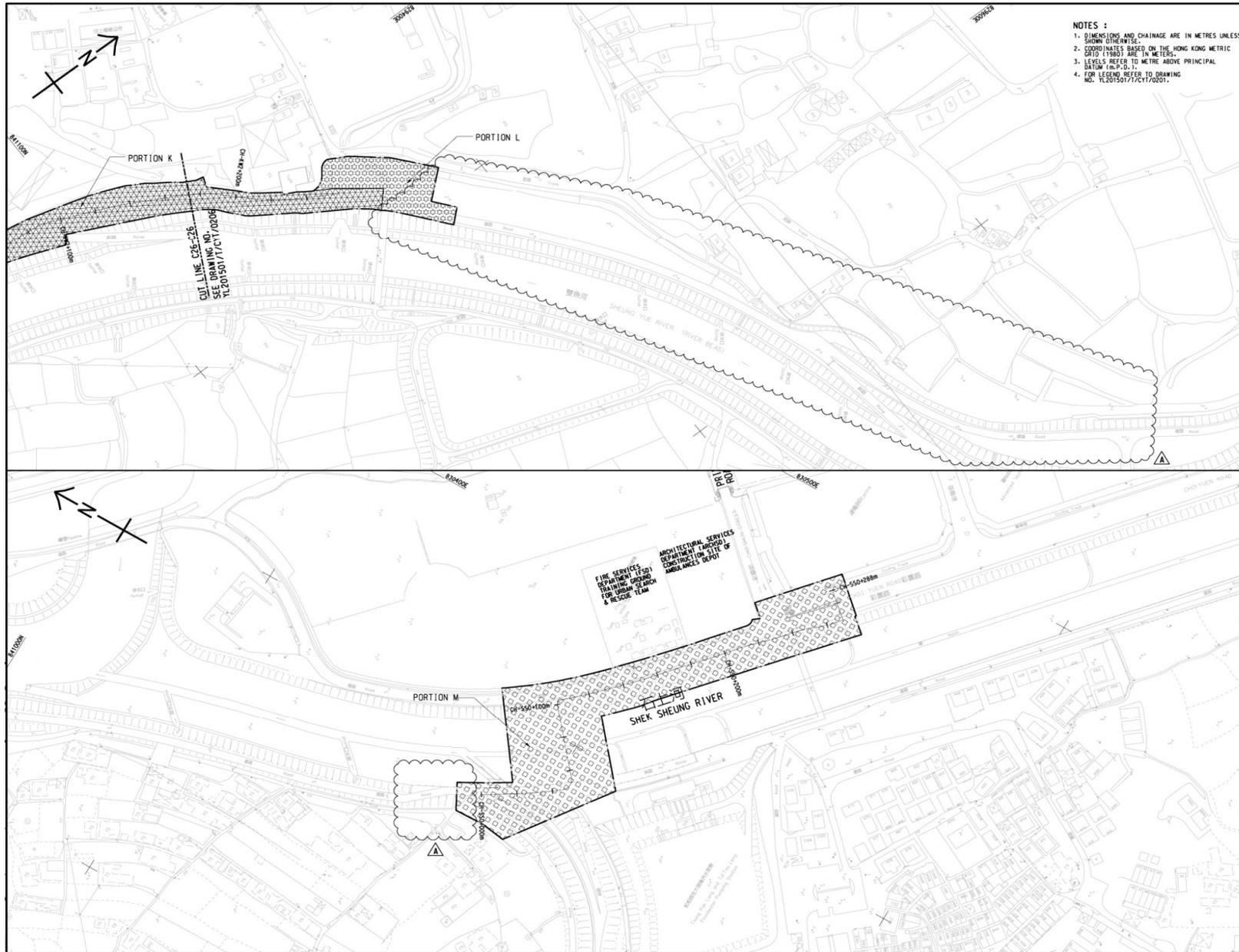




Title Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1g





Title

Agreement No. CE 67/2015(HY)
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works
 Design and Construction
 Site Layout Plan

Scale	N.T.S	Project No.	MA16036
Date	Dec-16	Figure	1h





LEGEND

 Site Boundary

 Noise Monitoring Stations



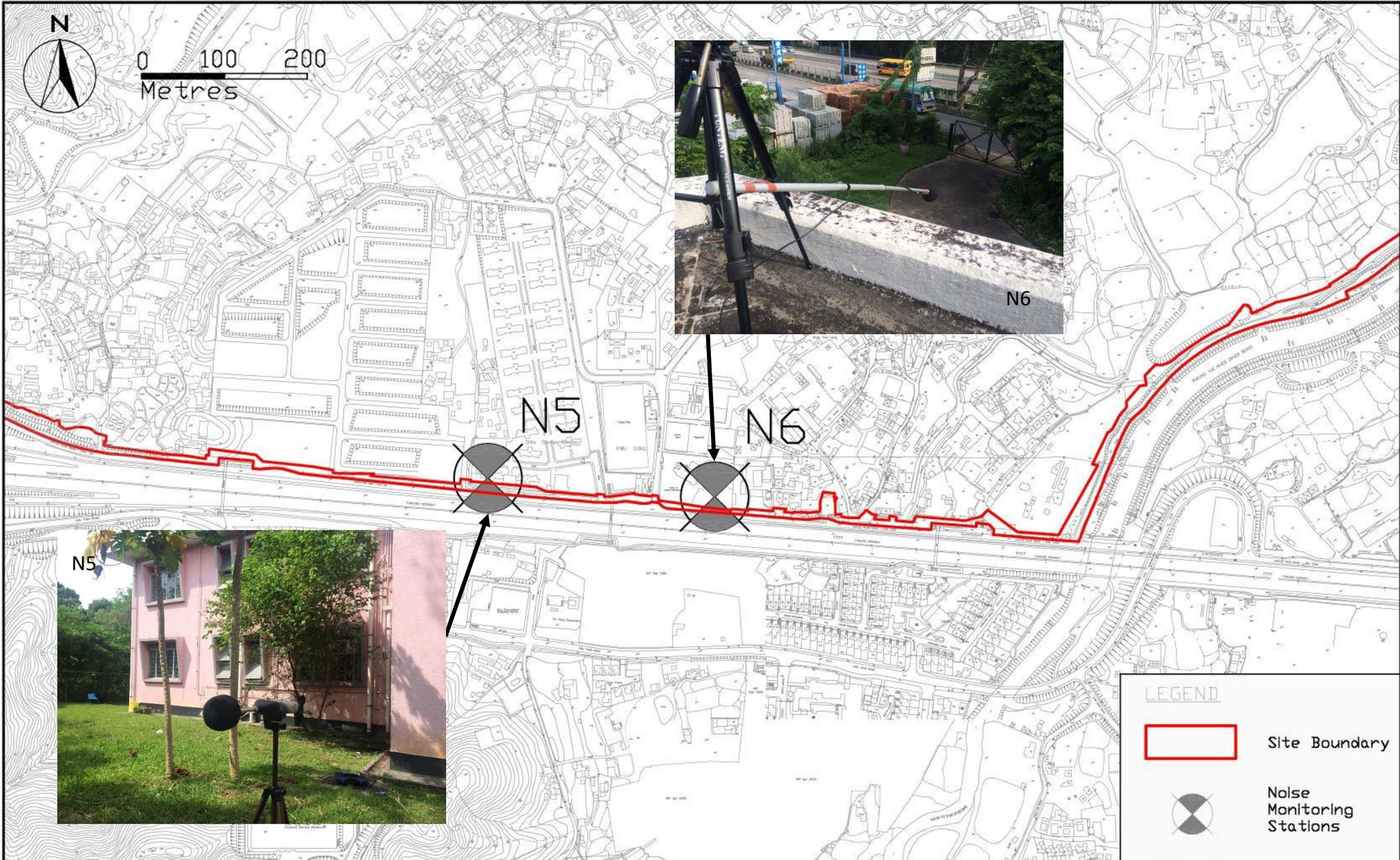
Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

Locations of the Noise Monitoring Stations (N1, N2)

SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2a
		REV	-



SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2b
		REV	-



SCALE	A4 1:6m	DATE	Aug 2016
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JOB No.	MA16036	FIGURE NO.	2c
		REV	-

**APPENDIX A
CONSTRUCTION PROGRAMME**



生興 - 豐利聯營
Sang Hing - Kuly Joint Venture

28th June 2019

Our ref.: SKJV/W52/SO/3497

Mannings (Asia) Consultants Ltd.
5/F, Winning Commercial Building,
46-48 Hillwood Road,
Tsim Sha Tsui,
Kowloon

By fax & post
Fax no.: 3168 2022

Attn.: Mr. Mole Tam (Senior Resident Engineer)

Dear Sirs,

Contract No. YL/2015/01
Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works
Updated Programme

Enclosed please find our updated programme for your information and acceptance. A summary is also attached herewith this letter for your easy reference.

In several meetings, we understand that CEDD and your Office would request us to complete the proposed Cycle Track by the end of this year. However, our programme are hindered by some external constraints such as Street Lighting Works by Highways Department, approval of GRP Roofing at Subway A & D, utilities diversions at Retaining Walls RW49 and RW50 and additional walls at Portions J1 to J3, etc.

In view of this requirement, we would like to arrange an ad hoc meeting to seek a better solution to accelerate the works.

Thank you for your kind attention

Yours faithfully,
For and on behalf of
Sang Hing - Kuly Joint Venture

Tang Wing Kai
Site Agent

WKT/MKM/TL/tl

Encl.

Summary of Updating Programme upto end of June 2019

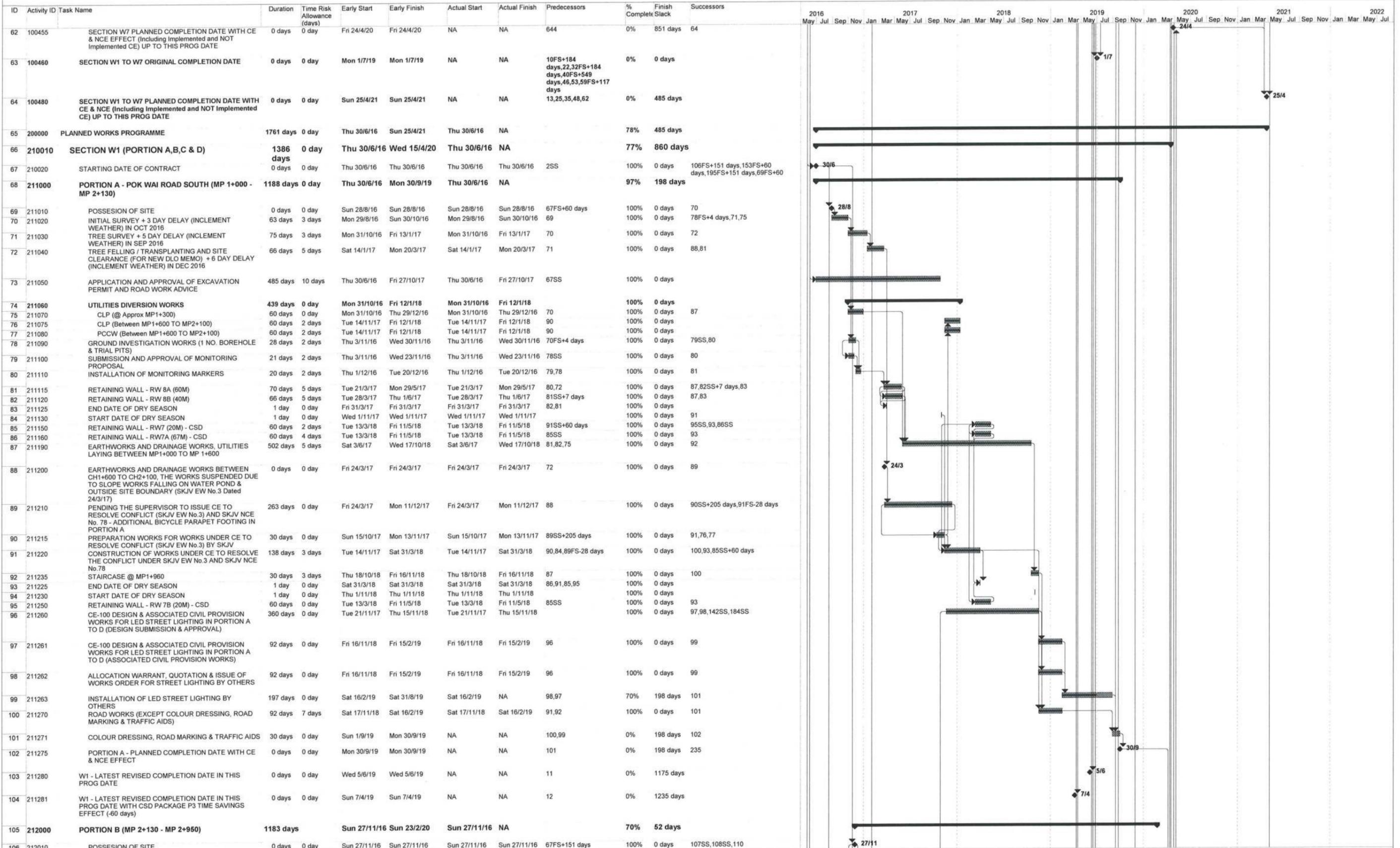
Section	Portion	Revised Completion Date	Revised Completion Date (Including with Time Saving)	Updated Programme Completion Date	Major outstanding work / critical work	Target Completion	Critical Priority	Remark	
W1	A			30/9/2019	1) Street Lighting works and Colour Dressing	30-Sep-19			
					1) Subway A Bay 12 to Bay 16	16-Oct-19			
	B		5/6/2019	7/4/2019	23/2/2020	2) GRP Roofing Approval	15-Jul-19	2nd	Assume GRP approval obtained on 15/7/19
						3) GRP Roofing Order and Delivery	15-Oct-19		
						4) GRP installation	13-Jan-20		
						5) Road work inside subway	23-Feb-20		
						5) Street Lighting works and colour Dressing	30-Sep-19		
	C			11/7/2019	1) Street Lighting works and Colour Dressing	7-Nov-19			
					2) Additional Proposed staircase, ramp at Yau Po Road	16-Oct-19			
	D			15/4/2020	1) Approval of Street Lighting	30-Jun-19	1st		
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20			
					3) Colour Dressing	15-Apr-20			

W2	E			15/4/2020	1) Retaining Wall RW D03	26-Mar-20	3rd	
					2) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					4) Colour Dressing	15-Apr-20		
	F			15/4/2020	1) RW 42 (CSD)	30-Dec-19	3rd	
					2) RW 44 and Ramp PR3	19-Dec-19		
					3) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
	4) Allocation Warrant and Installation of Street Lighting	6-Mar-20						
	G			31/3/2020	5) Colour Dressing	15-Apr-20		
					1) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
	H		16/11/2019	1/9/2019	25/4/2021	3) Colour Dressing	31-Mar-20	
1) Additional RW49 & RW50						10/2/2020	1st	
2) Additional Diversion of utilities along RW49 & RW50						8/8/2020		
3) Drainage and Gullies for re-alignment carriageway for RW49 & RW50						7/10/2020		
4) Road Works for re-alignment of DW1 and DW2 and street lighting works						25/4/2021		
1) Subway D E&M works						1-Nov-19		
I			13/3/2020	2) GRP Roofing Approval	15-Jul-19	2nd	Assume GRP approval obtained on 15/7/19	
				3) GRP Roofing Order and Delivery	15-Oct-19			
				4) GRP installation	13-Jan-20			
				5) Road work inside subway	13-Mar-20			
				1) Bridge B - Substructure	30-Sep-19			3rd
2) Bridge B - Superstructure	30-Nov-19							
3) Bridge B - Site formation	20-Jan-20							
N			20/3/2020	4) Approval of Street Lighting	30-Jun-19	2nd	Assume Approval given on 30 June 2019	
				5) Allocation Warrant and Installation of Street Lighting	6-Mar-20			
				6) Colour Dressing	20-Mar-20			

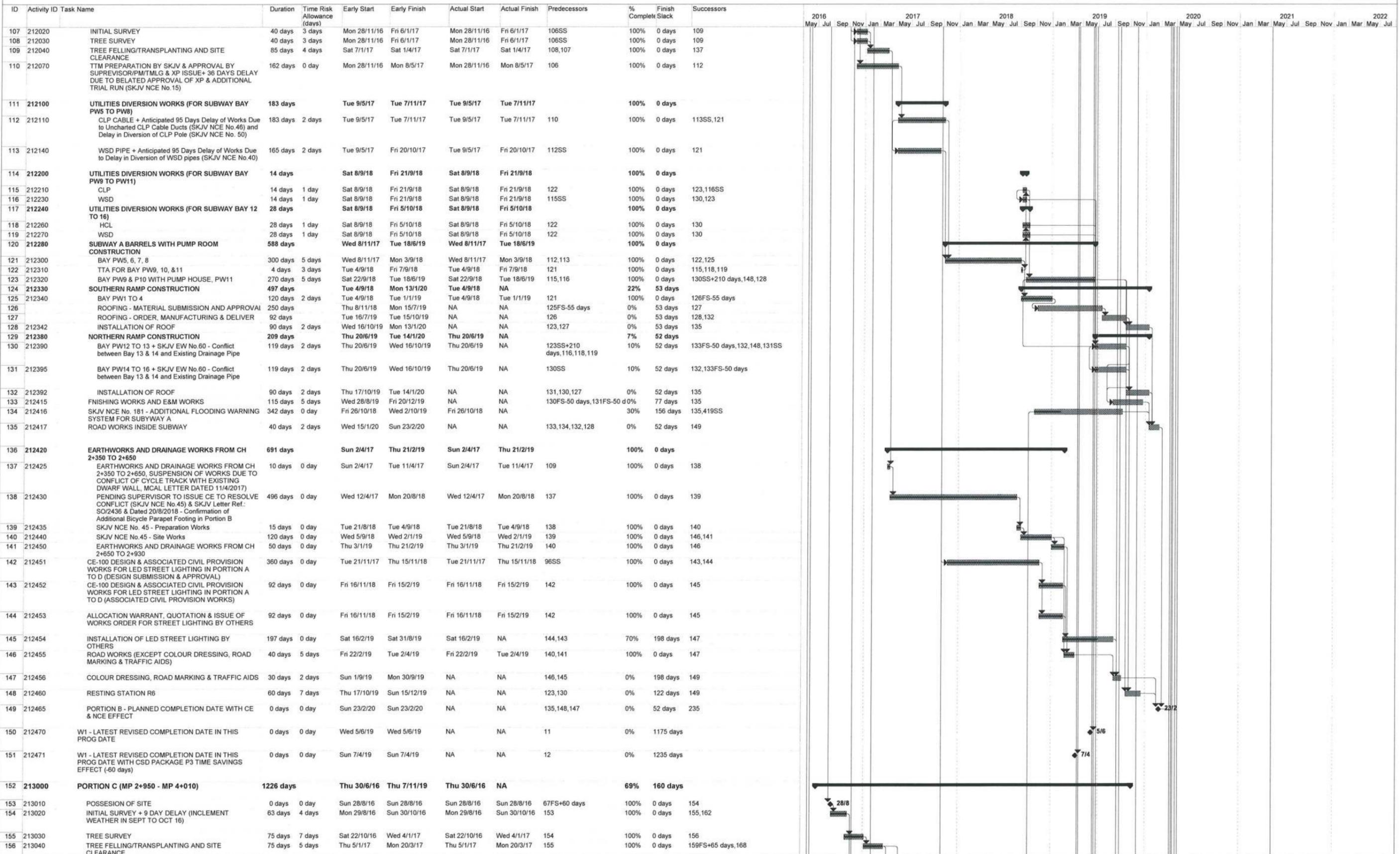
W3	K&J1	30/5/2019	1/4/2019	5/4/2020	1) Approval of Street Lighting	30-Jun-19	1st	Assume Approval given on 30 June 2019
					2) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					3) Colour Dressing	5-Apr-20		

W5	M	11/9/2019	11/9/2019	31/3/2020	1) Steel roofing and E&M of Bridge E	27-Dec-19	1st	Assume Approval given on 30 June 2019
					2) Approval of Street Lighting	30-Jun-19		
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20		
					4) Colour Dressing	31-Mar-20		

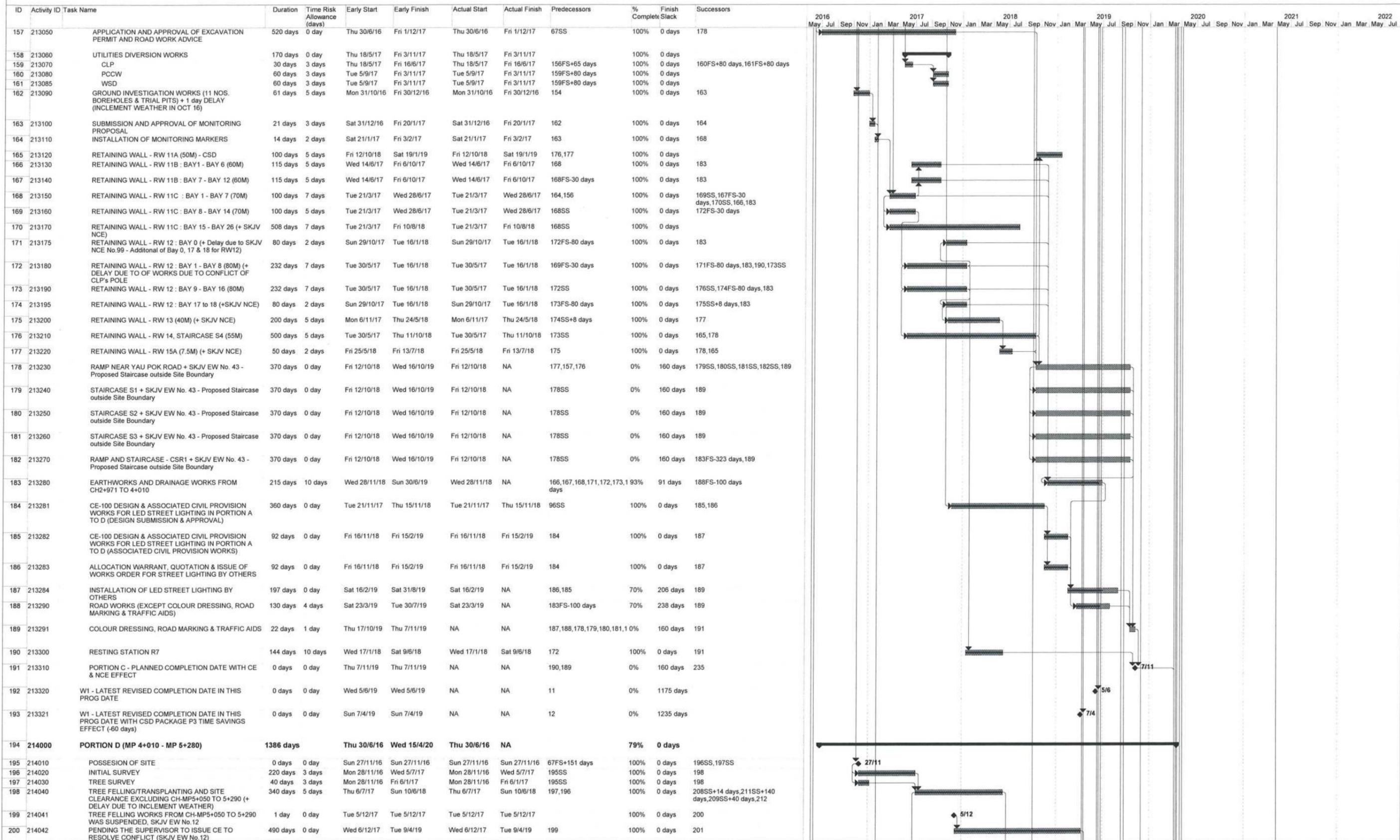
W7	J1,J2,J3	14/6/2019	16/4/2019	20/4/2020	1) RW48, RW24A, RW24AAA, etc	31-Dec-19	1st			
					2) Earthwork and Drainage works	29-Feb-20				
					3) Road Work (except colour dressing)	30-Mar-20				
					2) Approval of Street Lighting	30-Jun-19			2nd	Assume Approval given on 30 June 2019
					3) Allocation Warrant and Installation of Street Lighting	6-Mar-20				
					4) Colour Dressing	24-Apr-20				



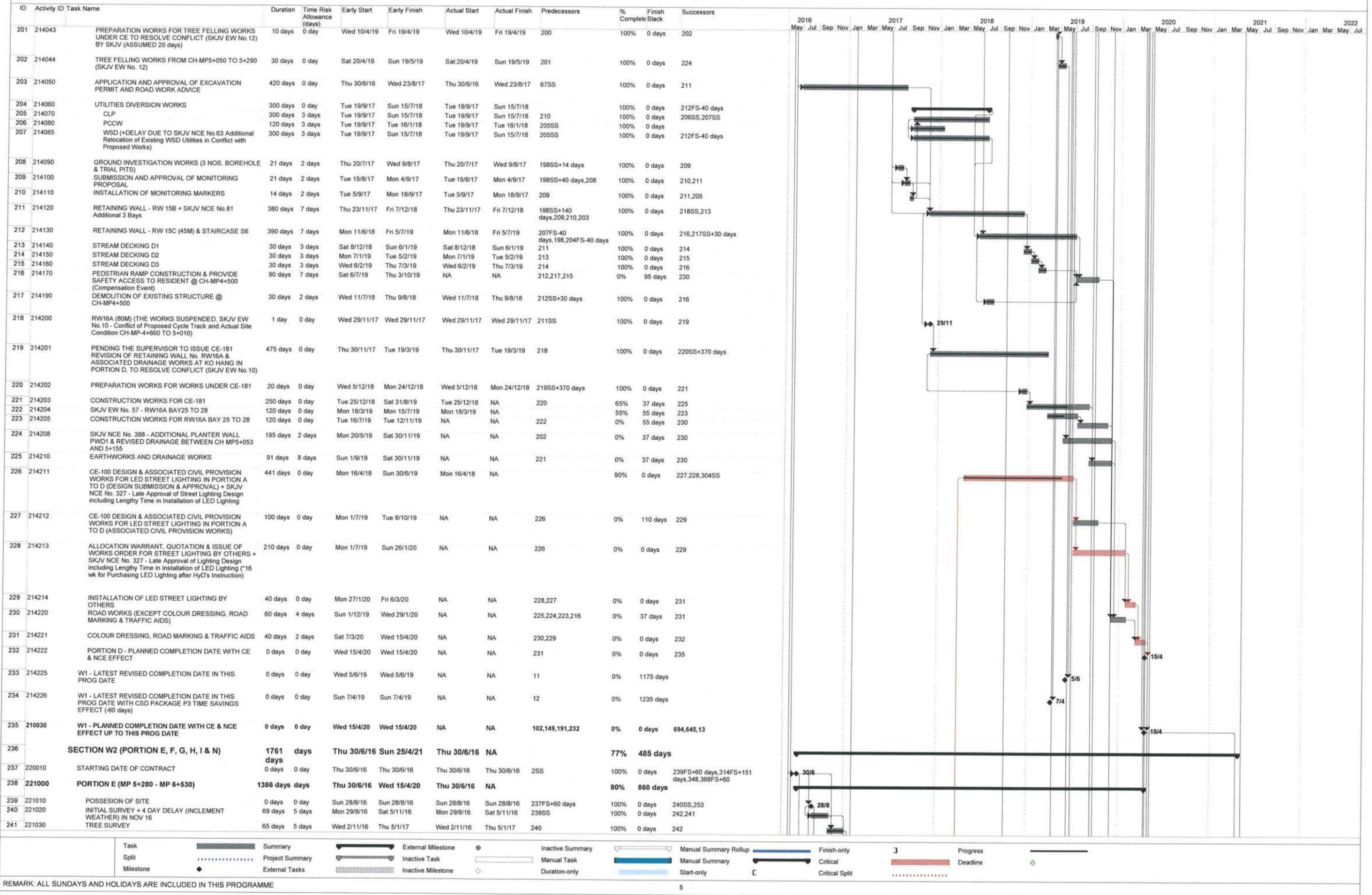
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



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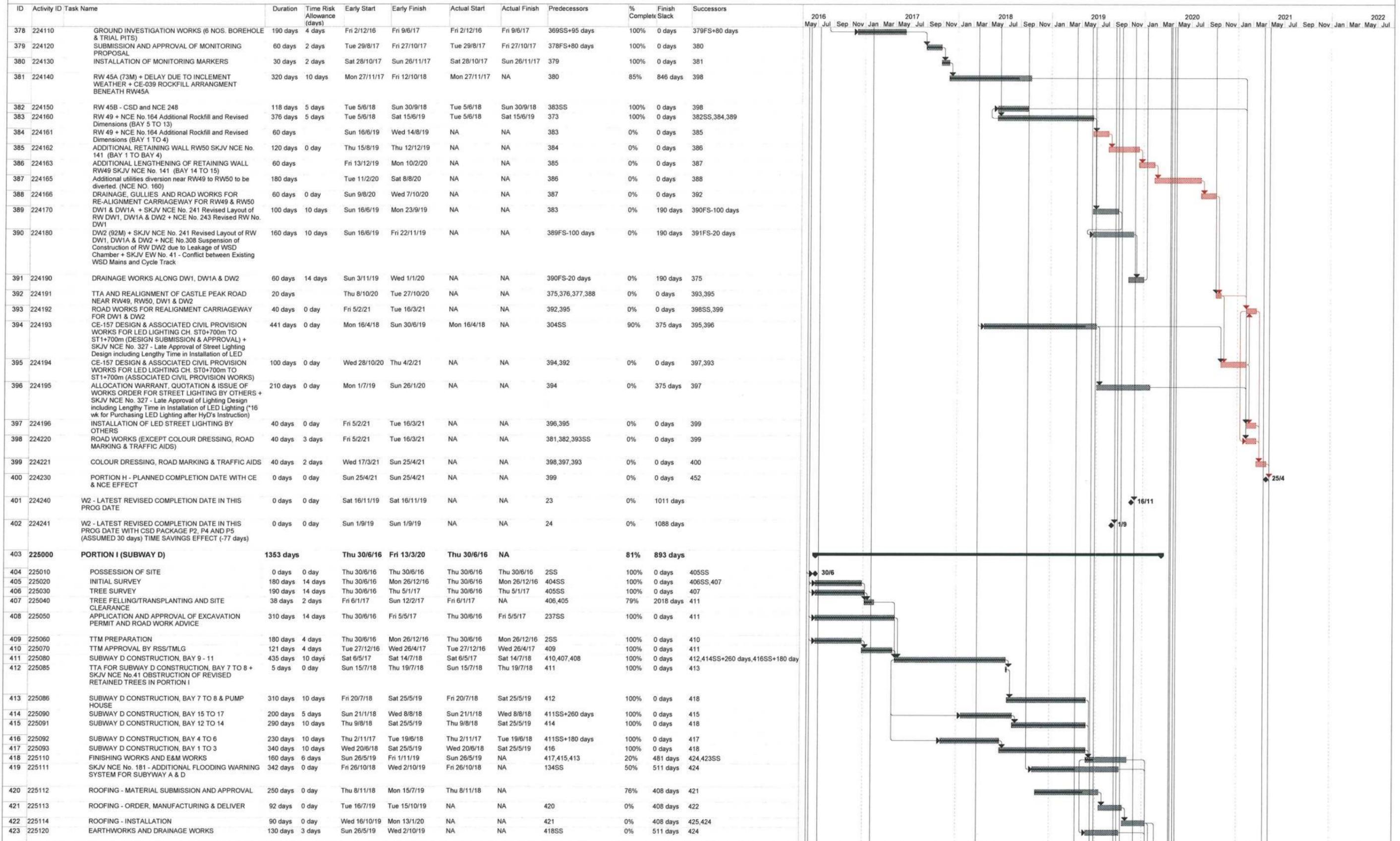
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Timeline (2016-2022)																											
302	221545	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS FROM MP6+020 TO 6+530	350 days	10 days	Thu 4/10/18	Wed 18/9/19	Thu 4/10/18	NA	289,291,292,296,298,299,300	30%	545 days	308FF	Gantt chart bar starting in 2018, ending in 2020.																											
303	221546	CE-180 DESIGN AND CONSTRUCTION OF BOUNDARY WALL ALONGSIDE SAN TIN HIGHWAY IN PORTION E	300 days	5 days	Thu 1/11/18	Tue 27/8/19	Thu 1/11/18	NA		70%	567 days	308FF	Gantt chart bar starting in 2018, ending in 2019.																											
304	221547	CE-143 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING IN PORTION E (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 days	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	226SS	90%	375 days	305,306,337SS,358SS,394SS,443SS	Gantt chart bar starting in 2018, ending in 2020.																											
305	221548	CE-143 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION E (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 days	Mon 1/7/19	Tue 8/10/19	NA	NA	304	0%	485 days	307	Gantt chart bar starting in 2019, ending in 2019.																											
306	221549	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 days	Mon 1/7/19	Sun 26/1/20	NA	NA	304	0%	375 days	307	Gantt chart bar starting in 2019, ending in 2020.																											
307	221550	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 days	Mon 27/1/20	Fri 6/3/20	NA	NA	305,306	0%	375 days	309	Gantt chart bar starting in 2020, ending in 2020.																											
308	221551	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	310 days	5 days	Tue 13/11/18	Wed 18/9/19	NA	NA	302FF,276,303FF	0%	545 days	309	Gantt chart bar starting in 2018, ending in 2020.																											
309	221552	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	0 days	Sat 7/3/20	Wed 15/4/20	NA	NA	308,307	0%	375 days	310	Gantt chart bar starting in 2020, ending in 2020.																											
310	221555	PORTION E - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 days	Wed 15/4/20	Wed 15/4/20	NA	NA	270,282,309	0%	375 days	452	Milestone diamond at Wed 15/4/20.																											
311	221560	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 days	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days		Milestone diamond at Sat 16/11/19.																											
312	221561	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 days	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days		Milestone diamond at Sun 1/9/19.																											
313	222000	PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)	1386 days		Thu 30/6/16	Wed 15/4/20	Thu 30/6/16	NA		80%	375 days		Summary bar from Thu 30/6/16 to Wed 15/4/20.																											
314	222010	POSSESSION OF SITE	0 days	0 day	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	Sun 27/11/16	237FS+151 days	100%	0 days	315SS,316SS	Milestone diamond at Sun 27/11/16.																											
315	222020	INITIAL SURVEY	215 days	4 days	Mon 28/11/16	Fri 30/6/17	Mon 28/11/16	Fri 30/6/17	314SS	100%	0 days	317,327SS+115 days	Gantt chart bar starting in 2016, ending in 2017.																											
316	222030	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	Mon 28/11/16	Fri 6/1/17	314SS	100%	0 days	317	Gantt chart bar starting in 2016, ending in 2017.																											
317	222040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE (+ DELAY DUE TO INCREMENT WEATHER)	150 days	5 days	Sat 1/7/17	Mon 27/11/17	Sat 1/7/17	Mon 27/11/17	316,315	100%	0 days	318,336	Gantt chart bar starting in 2017, ending in 2018.																											
318	222050	UTILITIES DIVERSION WORKS (CLP, TOWN GAS)	90 days	0 day	Tue 28/11/17	Sun 25/2/18	Tue 28/11/17	Sun 25/2/18	317	100%	0 days		Gantt chart bar starting in 2017, ending in 2018.																											
319	222120	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	565 days	0 day	Thu 30/6/16	Mon 15/1/18	Thu 30/6/16	Mon 15/1/18	2SS	100%	0 days	320	Gantt chart bar starting in 2016, ending in 2018.																											
320	222130	ARRANGEMENT OF SITE INVESTIGATION WORKS	7 days	0 day	Tue 16/1/18	Mon 22/1/18	Tue 16/1/18	Mon 22/1/18	319	100%	0 days	321	Gantt chart bar starting in 2018, ending in 2018.																											
321	222140	SITE INVESTIGATION WORKS AND TESTING	60 days	0 day	Tue 23/1/18	Fri 23/3/18	Tue 23/1/18	Fri 23/3/18	320	100%	0 days	322,324,331	Gantt chart bar starting in 2018, ending in 2018.																											
322	222145	AWAITING FOR INSTRUCTION FOR REMEDIAL WORKS FOR CONTAMINATED SOIL	363 days	2 days	Sat 24/3/18	Thu 21/3/19	Sat 24/3/18	Thu 21/3/19	321	100%	0 days	323,325SS	Gantt chart bar starting in 2018, ending in 2019.																											
323	222146	ISSUED DATE OF CE-158 TREATMENT OF CONTAMINATED SOIL IN PORTION F	1 day	0 day	Fri 22/3/19	Fri 22/3/19	Fri 22/3/19	Fri 22/3/19	322	100%	0 days		Milestone diamond at Fri 22/3/19.																											
324	222150	PREPARATION WORKS FOR TREATMENT OF CONTAMINATED SOIL	30 days	3 days	Sat 24/3/18	Sun 22/4/18	Sat 24/3/18	Sun 22/4/18	321	100%	0 days	325SS	Gantt chart bar starting in 2018, ending in 2018.																											
325	222155	IMPLEMENTATION OF DE-CONTAMINATION WORKS & ASSOCIATED EARTHWORK & DRAINAGE WORKS	479 days	5 days	Sat 24/3/18	Mon 15/7/19	Sat 24/3/18	Mon 15/7/19	324SS,322SS	100%	0 days	326SS+55 days,332	Gantt chart bar starting in 2018, ending in 2019.																											
326	222156	ADDITIONAL RETAINING WALL RWD26A, RWD26B, RWD26C at Chainage CH-ST-6+500 to CH-6+650 (SKJV NCE No. 149 - Additional Drainage and Revised Retaining Wall RWD26A, RWD26B and RWD26C)	280 days	0 day	Fri 18/5/18	Thu 21/2/19	Fri 18/5/18	Thu 21/2/19	325SS+55 days	100%	0 days		Gantt chart bar starting in 2018, ending in 2019.																											
327	222160	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	14 days	2 days	Thu 23/3/17	Wed 5/4/17	Thu 23/3/17	Wed 5/4/17	315SS+115 days	100%	0 days	328	Gantt chart bar starting in 2017, ending in 2017.																											
328	222165	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Thu 6/4/17	Wed 26/4/17	Thu 6/4/17	Wed 26/4/17	327	100%	0 days	329	Gantt chart bar starting in 2017, ending in 2017.																											
329	222170	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Thu 27/4/17	Wed 17/5/17	Thu 27/4/17	Wed 17/5/17	328	100%	0 days		Gantt chart bar starting in 2017, ending in 2017.																											
330	222180	RW 42 (60M) - CSD	60 days	7 days	Fri 1/11/19	Mon 30/12/19	NA	NA	441SS	0%	382 days	341FS-15 days	Gantt chart bar starting in 2019, ending in 2020.																											
331	222190	RW 43 (+ SKJV NCE No. 91 Additional Bays/Revised Details and Realignment of Storm Drain Pipe, No. 118 Revised RC Details, No.148 Additional Rockfill Arrangement, No.195 Revised Details of Bay 5,)	285 days	5 days	Sat 24/3/18	Wed 21/1/19	Sat 24/3/18	Wed 21/1/19	321	100%	0 days	335	Gantt chart bar starting in 2018, ending in 2019.																											
332	222200	RW 44 (36M U)	80 days	5 days	Tue 1/10/19	Thu 19/12/19	NA	NA	325,334	0%	398 days	341FS-20 days	Gantt chart bar starting in 2019, ending in 2020.																											
333	222210	RAMP PR3 CONSTRUCTION	80 days	3 days	Tue 1/10/19	Thu 19/12/19	NA	NA	334	0%	398 days	341FS-20 days	Gantt chart bar starting in 2019, ending in 2020.																											
334	222212	CE-180 DESIGN AND CONSTRUCTION OF BOUNDARY WALL ALONGSIDE SAN TIN HIGHWAY IN PORTION F	214 days	5 days	Fri 1/3/19	Mon 30/9/19	Fri 1/3/19	NA		70%	398 days	341,332,333	Gantt chart bar starting in 2019, ending in 2020.																											
335	222215	EARTHWORKS AND DRAINAGE WORK RW43, RWD26A, RWD26B & RWD26C, RW43	130 days	10 days	Thu 3/1/19	Sun 12/5/19	Thu 3/1/19	Sun 12/5/19	331	100%	0 days	341	Gantt chart bar starting in 2019, ending in 2019.																											
336	222220	EARTHWORKS AND DRAINAGE WORKS AT LOCATION OTHER THAN RW42, RW43, RW44, RW26A, RW26B, RW26C AND BOUNDARY WALL AT PORTION F	270 days	3 days	Tue 28/11/17	Fri 24/8/18	Tue 28/11/17	Fri 24/8/18	317	100%	0 days	341	Gantt chart bar starting in 2017, ending in 2018.																											

Legend for Gantt chart symbols:
Task: Solid black bar
Split: Dotted line
Milestone: Diamond symbol
Summary: Solid grey bar
External Milestone: Diamond with text
Inactive Summary: Solid white bar
Manual Summary Rollup: Solid blue bar
Finish-only: Solid black bar with arrow
Progress: Solid black bar with arrow
Manual Task: Solid white bar with arrow
Manual Summary: Solid blue bar with arrow
Critical: Solid black bar with arrow
Deadline: Solid red bar with arrow
Inactive Task: Solid grey bar
Manual Task: Solid white bar
Manual Summary: Solid blue bar
Start-only: Solid blue bar with arrow
Critical Split: Solid black bar with arrow

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	Timeline (2016-2022)																											
													2016	2017	2018	2019	2020	2021	2022																					
337	222221	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING IN PORTION F & N (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	375 days	338,339	[Gantt chart showing task progress for ID 337 across the timeline]																											
338	222222	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION F & N (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	337	0%	485 days	340	[Gantt chart showing task progress for ID 338 across the timeline]																											
339	222223	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	337	0%	375 days	340	[Gantt chart showing task progress for ID 339 across the timeline]																											
340	222224	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	338,339	0%	375 days	342	[Gantt chart showing task progress for ID 340 across the timeline]																											
341	222230	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	75 days	8 days	Mon 16/12/19	Fri 28/2/20	NA	NA	335,334,336,333FS-20 days,332FS-20 days,330FS-15 days	0%	382 days	343SS-30 days,362SS,342	[Gantt chart showing task progress for ID 341 across the timeline]																											
342	222231	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	40 days	2 days	Sat 7/3/20	Wed 15/4/20	NA	NA	340,341	0%	375 days	344	[Gantt chart showing task progress for ID 342 across the timeline]																											
343	222240	RESTING STATION R8	110 days	10 days	Sat 16/1/19	Wed 4/3/20	NA	NA	341SS-30 days	0%	417 days	344	[Gantt chart showing task progress for ID 343 across the timeline]																											
344	222250	PORTION F - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Wed 15/4/20	Wed 15/4/20	NA	NA	343,342	0%	375 days	452	[Gantt chart showing task progress for ID 344 across the timeline]																											
345	222260	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days	16/11	[Gantt chart showing task progress for ID 345 across the timeline]																											
346	222261	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days	1/9	[Gantt chart showing task progress for ID 346 across the timeline]																											
347	223000	PORTION G - (BRIDGE C) CH ST 1+210 - CH ST 1+310)	1371 days		Thu 30/6/16	Tue 31/3/20	Thu 30/6/16	NA		72%	390 days		[Gantt chart showing task progress for ID 347 across the timeline]																											
348	223010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	237	100%	0 days	352SS,349SS	[Gantt chart showing task progress for ID 348 across the timeline]																											
349	223020	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	Thu 30/6/16	Sun 28/8/16	348SS	100%	0 days	350,351	[Gantt chart showing task progress for ID 349 across the timeline]																											
350	223030	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	Mon 29/8/16	Thu 5/1/17	349	100%	0 days	351	[Gantt chart showing task progress for ID 350 across the timeline]																											
351	223040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	120 days	10 days	Fri 6/1/17	Fri 5/5/17	Fri 6/1/17	Fri 5/5/17	350,349	100%	0 days	355	[Gantt chart showing task progress for ID 351 across the timeline]																											
352	223080	PREPARATION OF TDMP FOR GI WORKS	202 days	10 days	Thu 30/6/16	Tue 17/1/17	Thu 30/6/16	Tue 17/1/17	348SS	100%	0 days	353	[Gantt chart showing task progress for ID 352 across the timeline]																											
353	223090	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Wed 18/1/17	Tue 31/1/17	Wed 18/1/17	Tue 31/1/17	352	100%	0 days		[Gantt chart showing task progress for ID 353 across the timeline]																											
354	223110	STARTING DATE OF DRY SEASON	0 days	0 day	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17	Wed 1/11/17		100%	0 days	355	[Gantt chart showing task progress for ID 354 across the timeline]																											
355	223111	BRIDGE C WORKS (CSD)	151 days	5 days	Wed 1/11/17	Sat 31/3/18	Wed 1/11/17	Sat 31/3/18	354,351	100%	0 days	357	[Gantt chart showing task progress for ID 355 across the timeline]																											
356	223160	END DATE OF DRY SEASON	0 days	0 day	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18	Sat 31/3/18		100%	0 days		[Gantt chart showing task progress for ID 356 across the timeline]																											
357	223200	EARTHWORKS AND DRAINAGE WORKS	180 days	2 days	Sun 1/4/18	Thu 27/9/18	Sun 1/4/18	Thu 27/9/18	355	100%	0 days		[Gantt chart showing task progress for ID 357 across the timeline]																											
358	223201	CE-157 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING CH. ST0+700m TO ST1+700m (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	390 days	359,360	[Gantt chart showing task progress for ID 358 across the timeline]																											
359	223202	CE-157 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING CH. ST0+700m TO ST1+700m (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	358	0%	500 days	361	[Gantt chart showing task progress for ID 359 across the timeline]																											
360	223203	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	358	0%	390 days	361	[Gantt chart showing task progress for ID 360 across the timeline]																											
361	223204	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	360,359	0%	390 days	363	[Gantt chart showing task progress for ID 361 across the timeline]																											
362	223210	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	60 days	10 days	Mon 16/12/19	Thu 13/2/20	NA	NA	341SS	0%	412 days	363	[Gantt chart showing task progress for ID 362 across the timeline]																											
363	223211	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	0 day	Sat 7/3/20	Tue 31/3/20	NA	NA	362,361	0%	390 days	364	[Gantt chart showing task progress for ID 363 across the timeline]																											
364	223230	PORTION G - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	363	0%	390 days	452	[Gantt chart showing task progress for ID 364 across the timeline]																											
365	223240	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days	16/11	[Gantt chart showing task progress for ID 365 across the timeline]																											
366	223241	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days	1/9	[Gantt chart showing task progress for ID 366 across the timeline]																											
367	224000	PORTION H (CH ST 1+310 - 1+525, 1+700 - 2+270)	1761 days		Thu 30/6/16	Sun 25/4/21	Thu 30/6/16	NA		65%	0 days		[Gantt chart showing task progress for ID 367 across the timeline]																											
368	224010	POSSESSION OF SITE	0 days	0 day	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	Sun 28/8/16	237FS+60 days	100%	0 days	369SS	[Gantt chart showing task progress for ID 368 across the timeline]																											
369	224020	INITIAL SURVEY	300 days	4 days	Mon 29/8/16	Sat 24/6/17	Mon 29/8/16	Sat 24/6/17	368SS	100%	0 days	370,371FS+40 days,378SS+95 days	[Gantt chart showing task progress for ID 369 across the timeline]																											
370	224030	TREE SURVEY	65 days	4 days	Wed 2/11/16	Thu 5/1/17	Wed 2/11/16	Thu 5/1/17	369	100%	0 days		[Gantt chart showing task progress for ID 370 across the timeline]																											
371	224040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	580 days	7 days	Fri 4/8/17	Wed 6/3/19	Fri 4/8/17	Wed 6/3/19	369FS+40 days	100%	0 days		[Gantt chart showing task progress for ID 371 across the timeline]																											
372	224050	APPLICATION AND APPROVAL OF EXCAVATION PERMIT AND ROAD WORK ADVICE	420 days	10 days	Thu 30/6/16	Wed 23/8/17	Thu 30/6/16	Wed 23/8/17	237SS	100%	0 days	373,375	[Gantt chart showing task progress for ID 372 across the timeline]																											
373	224060	APPLIED TTA APPROVAL FOR REALIGNMENT FOR RW49	285 days	14 days	Thu 24/8/17	Mon 4/6/18	Thu 24/8/17	Mon 4/6/18	372	100%	0 days	383	[Gantt chart showing task progress for ID 373 across the timeline]																											
374	224070	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	90 days	0 day	Thu 2/1/20	Tue 31/3/20	NA	NA		0%	190 days		[Gantt chart showing task progress for ID 374 across the timeline]																											
375	224080	HKB	90 days	5 days	Thu 2/1/20	Tue 31/3/20	NA	NA	372,391	0%	190 days	376SS,377SS,392	[Gantt chart showing task progress for ID 375 across the timeline]																											
376	224090	TGT	90 days	5 days	Thu 2/1/20	Tue 31/3/20	NA	NA	375SS	0%	190 days	392	[Gantt chart showing task progress for ID 376 across the timeline]																											
377	224100	CLP	90 days	5 days	Thu 2/1/20	Tue 31/3/20	NA	NA	375SS	0%	190 days	392	[Gantt chart showing task progress for ID 377 across the timeline]																											

Task [Symbol] Summary [Symbol] External Milestone [Symbol] Inactive Summary [Symbol] Manual Summary Rollup [Symbol] Finish-only [Symbol] Progress [Symbol]
 Split [Symbol] Project Summary [Symbol] Inactive Task [Symbol] Project Manual Task [Symbol] Manual Summary [Symbol] Critical [Symbol] Deadline [Symbol]
 Milestone [Symbol] External Tasks [Symbol] Inactive Milestone [Symbol] Duration-only [Symbol] Start-only [Symbol] Critical Split [Symbol]

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ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors																																												
													2016		2017				2018				2019				2020				2021				2022																					
													May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul
424	225130	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	35 days	3 days	Tue 14/1/20	Mon 17/2/20	NA	NA	418,423,419,422	0%	408 days	425																																												
425	225131	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	1 day	Tue 18/2/20	Fri 13/3/20	NA	NA	424,422	0%	408 days	426																																												
426	225140	PORTION I - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 13/3/20	Fri 13/3/20	NA	NA	425	0%	408 days	452																																												
427	225150	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days																																													
428	225151	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days																																													
429	226000	PORTION N (BRIDGE B)	1360 days		Thu 30/6/16	Fri 20/3/20	Thu 30/6/16	NA		75%	401 days																																													
430	226010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	237	100%	0 days	431SS																																												
431	226020	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	Thu 30/6/16	Sun 28/8/16	430SS	100%	0 days	433,432																																												
432	226030	TREE SURVEY + 5 DAY DELAY (INCLEMENT WEATHER) IN AUG 2016	135 days	10 days	Mon 29/8/16	Tue 10/1/17	Mon 29/8/16	Tue 10/1/17	431	100%	0 days	433																																												
433	226040	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	250 days	5 days	Fri 6/1/17	Tue 12/9/17	Fri 6/1/17	Tue 12/9/17	432,431	100%	0 days	437SS+55 days																																												
434	226050	UTILITIES DIVERSION WORKS (CLP & TOWN GAS)	420 days	10 days	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18		100%	0 days																																													
435	226080	CLP (LIAISON)	420 days	0 day	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18	437SS	100%	0 days	436SS																																												
436	226090	TOWN GAS	420 days	0 day	Thu 2/3/17	Wed 25/4/18	Thu 2/3/17	Wed 25/4/18	435SS	100%	0 days																																													
437	226091	INSPECTION PITS TO IDENTIFY CLP CABLES & GAS MAINS	560 days	0 day	Thu 2/3/17	Wed 12/9/18	Thu 2/3/17	Wed 12/9/18	433SS+55 days	100%	0 days	435SS																																												
438	226101	COST SAVINGS DESIGN OF BRIDGE B & RW42 & APPROVAL	625 days	1 days	Sun 29/10/17	Mon 15/7/19	Sun 29/10/17	NA		90%	382 days	439																																												
439	226111	BRIDGE B CSD - SUBSTRUCTURE	77 days	4 days	Tue 16/7/19	Mon 30/9/19	NA	NA	438	0%	382 days	440																																												
440	226121	BRIDGE B CSD - SUPERSTRUCTURE	61 days	1 days	Tue 1/10/19	Sat 30/11/19	NA	NA	439	0%	382 days	442FS-140 days,441FS-30 days																																												
441	226131	RW42 CSD - SITE FORMATION WORKS	81 days	5 days	Fri 1/11/19	Mon 20/1/20	NA	NA	440FS-30 days	0%	382 days	330SS,447																																												
442	226180	EARTHWORKS AND DRAINAGE WORKS	200 days	2 days	Sun 14/7/19	Wed 29/1/20	NA	NA	440FS-140 days	0%	413 days	447																																												
443	226181	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED LIGHTING IN PORTION F & N (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	401 days	444,445																																												
444	226182	CE-153 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION F & N (ASSOCIATED CIVIL PROVISION WORKS) + SKJV NCE No. 327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	443	0%	511 days	446																																												
445	226183	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	443	0%	401 days	446																																												
446	226184	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	445,444	0%	401 days	448																																												
447	226190	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	25 days	2 days	Thu 30/1/20	Sun 23/2/20	NA	NA	442,441	0%	413 days	448																																												
448	226191	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	14 days	0 day	Sat 7/3/20	Fri 20/3/20	NA	NA	446,447	0%	401 days	449																																												
449	226210	PORTION N - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Fri 20/3/20	Fri 20/3/20	NA	NA	448	0%	401 days	452																																												
450	226220	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Sat 16/11/19	Sat 16/11/19	NA	NA	23	0%	1011 days																																													
451	226221	W2 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE WITH CSD PACKAGE P2, P4 AND P5 (ASSUMED 30 days) TIME SAVINGS EFFECT (-77 days)	0 days	0 day	Sun 1/9/19	Sun 1/9/19	NA	NA	24	0%	1088 days																																													
452	220030	W2 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT UP TO PROG DATE	0 days	0 day	Sun 25/4/21	Sun 25/4/21	NA	NA	344,364,400,426,310,449	0%	0 days	645,698,25																																												
453		SECTION W3 (PORTION K & J1)	1376 days		Thu 30/6/16	Sun 5/4/20	Thu 30/6/16	NA		78%	870 days																																													
454	230010	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	456																																												
455	231000	PORTION K (CH KW 1+360 - CH KW 2+070)	1376 days		Thu 30/6/16	Sun 5/4/20	Thu 30/6/16	NA		77%	0 days																																													
456	231010	POSSESSION OF SITE	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	454	100%	0 days	458SS,457SS																																												
457	231020	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	180 days	0 day	Thu 30/6/16	Mon 26/12/16	Thu 30/6/16	Mon 26/12/16	456SS	100%	0 days																																													
458	231030	INITIAL SURVEY (+ 8 DAY DELAY IN AUG & SEP 16)	128 days	2 days	Thu 30/6/16	Fri 4/11/16	Thu 30/6/16	Fri 4/11/16	456SS	100%	0 days	460,459,463																																												
459	231040	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	Thu 28/7/16	Wed 24/8/16	458	100%	0 days	460																																												
460	231050	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	Thu 25/8/16	Tue 22/11/16	459,458	100%	0 days	466																																												
461	231060	UTILITIES DIVERSION WORKS (CLP)	60 days	0 day	Sat 26/8/17	Tue 24/10/17	Sat 26/8/17	Tue 24/10/17		100%	0 days																																													
462	231070	CLP	60 days	5 days	Sat 26/8/17	Tue 24/10/17	Sat 26/8/17	Tue 24/10/17	467SS+90 days	100%	0 days																																													
463	231100	GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS + 12 DAYS DELAY IN AUG, SEP & OCT 16)	80 days	5 days	Sat 5/11/16	Mon 23/1/17	Sat 5/11/16	Mon 23/1/17	458	100%	0 days	466,464SS,465																																												
464	231110	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16	Sun 2/10/16	Mon 12/9/16	Sun 2/10/16	463SS	100%	0 days	466																																												
465	231120	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 24/1/17	Mon 13/2/17	Tue 24/1/17	Mon 13/2/17	463	100%	0 days	466																																												
466	231130	RW 29C (66m) (+SKJV NCE No.89 - Additional Bay 0 to RW29C)	252 days	7 days	Tue 14/2/17	Mon 23/10/17	Tue 14/2/17	Mon 23/10/17	460,463,465,464	100%	0 days	467SS+103 days,468SS+103 days,470																																												
467	231140	RW 29B (50m)	195 days	7 days	Sun 28/5/17	Fri 8/12/17	Sun 28/5/17	Fri 8/12/17	468SS+103 days	100%	0 days	462SS+90 days,470,469																																												
468	231150	RW 29A (90m)	240 days	7 days	Sun 28/5/17	Mon 22/1/18	Sun 28/5/17	Mon 22/1/18	466SS+103 days	100%	0 days	469,471																																												
469	231160	RW 27 (90m) - CSD	30 days	7 days	Thu 22/2/18	Fri 23/3/18	Thu 22/2/18	Fri 23/3/18	470,467,468	100%	0 days																																													
470	231170	STREAM DECKING D9	75 days	7 days	Sat 9/12/17	Wed 21/2/18	Sat 9/12/17	Wed 21/2/18	467,466	100%	0 days	469																																												

Task	Summary	External Milestone	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Split	Project Summary	Inactive Task	Manual Task	Manual Summary	Critical	Deadline
Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	Critical Split	

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

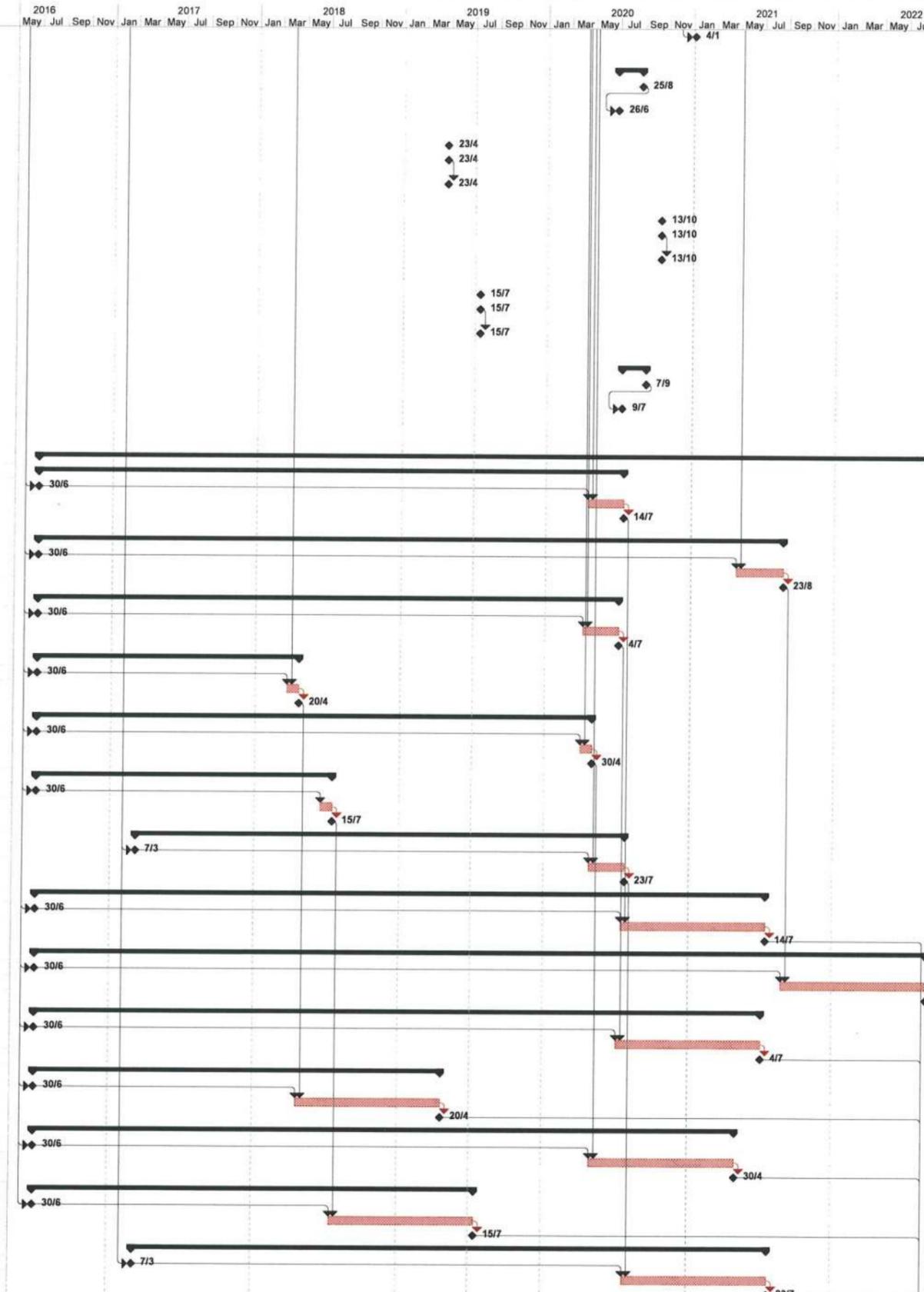
ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors	2016	2017	2018	2019	2020	2021	2022		
570	251270	PILE CAP & COLUMN AT GRID 1	320 days	3 days	Fri 16/3/18	Tue 29/1/19	Fri 16/3/18	Tue 29/1/19	569	100%	0 days	571									
571	251275	RAMP & RETAINING WALL AT GRID 1	115 days	2 days	Wed 30/1/19	Fri 24/5/19	Wed 30/1/19	Fri 24/5/19	570	100%	0 days										
572	251285	INSTALLATION OF MJ	70 days	0 day	Sat 25/5/19	Fri 2/8/19	NA	NA	555	0%	30 days	573									
573	251290	DRAINAGE & ROADWORKS AT GRID 1	60 days	4 days	Sat 3/8/19	Tue 1/10/19	Sat 3/8/19	NA	572	50%	137 days	592									
574	251300	STARTING DATE OF DRY SEASON	1 day	0 day	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18	Thu 1/11/18	574	100%	0 days	575									
575	251305	TEMPORARY DRAINAGE WORKS	7 days	2 days	Thu 1/11/18	Wed 7/11/18	Thu 1/11/18	Wed 7/11/18	574	100%	0 days	587,577,586									
576	251310	PIER AT GRID 2	34 days	2 days	Mon 11/12/17	Sat 13/1/18	Mon 11/12/17	Sat 13/1/18	560	100%	0 days	577									
577	251315	BRIDGE DECK CONSTRUCTION	140 days	10 days	Thu 8/11/18	Wed 27/3/19	Thu 8/11/18	Wed 27/3/19	575,576	100%	0 days	578,583									
578	251320	REMOVAL OF TEMPORARY DRAINAGE WORK	4 days	2 days	Thu 28/3/19	Sun 31/3/19	Thu 28/3/19	Sun 31/3/19	577	100%	0 days	579,583,580									
579	251330	END DATE OF DRY SEASON	1 day	0 day	Sun 31/3/19	Sun 31/3/19	Sun 31/3/19	Sun 31/3/19	578	100%	0 days										
580	251331	INSTALLATION OF STEEL STRUCTURAL ROOF ON BRIDGE DECK	150 days	0 day	Mon 14/4/19	Wed 28/8/19	Mon 14/4/19	NA	578,582FS-100 days	70%	121 days	585									
581	251341	NCE ISSUES FOR INSTALLATION OF ROOFING TOP SKJV NCE No. 215 - ROOFING SYSTEM IF BRIDGE E & SKJV EW No.55 - ROOFING SYSTEM OF BRIDGE E	185 days	0 day	Wed 28/11/18	Fri 31/5/19	NA	NA		0%	0 days	582									
582	251342	SUBMISSION OF SHOP DRAWING AND APPROVAL	30 days		Sat 1/6/19	Sun 30/6/19	NA	NA	581	0%	0 days	583,580FS-100 days									
583	251343	ORDER & MANUFACTURING OF STEEL STRUCTURAL ROOF ON BRIDGE DECK AT GRID 1 & 3	120 days	5 days	Mon 1/7/19	Mon 28/10/19	NA	NA	578,577,582	0%	0 days	584									
584	251344	INSTALLATION OF STEEL STRUCTURAL ROOF ON BRIDGE DECK AT GRID 1 & 3	60 days		Tue 29/10/19	Fri 27/12/19	NA	NA	583	0%	0 days	585									
585	251360	RAILING, DRAINAGE & E&M WORKS	50 days	4 days	Sat 28/12/19	Sat 15/2/20	NA	NA	580,584	0%	0 days	592									
586	251361	ADDITION OF RETAINING WALL RW30A (SKJV NCE No. 98) + SKJV NCE No. 175 Delay of Watermain Diversion Works in RW30A, NCE No. 182 - Trimming of Existing Bend Block of Watermain & NCE No. 283 Diversion of Watermain in RW30A	289 days	0 day	Sat 1/12/18	Sun 15/9/19	Sat 1/12/18	NA	588SS+30 days,575	72%	153 days	592									
587	251362	ADDITION OF RETAINING WALL RW30B (SKJV NCE No. 98)	200 days	0 day	Thu 8/11/18	Sun 26/5/19	Thu 8/11/18	Sun 26/5/19	575	100%	0 days	592									
588	251363	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (DESIGN SUBMISSION & APPROVAL) + SKJV NCE No.327 - Late Approval of Street Lighting Design including Lengthy Time in Installation of LED Lighting	441 days	0 day	Mon 16/4/18	Sun 30/6/19	Mon 16/4/18	NA	304SS	90%	0 days	589,590									
589	251364	CE-165 DESIGN & ASSOCIATED CIVIL PROVISION WORKS FOR LED STREET LIGHTING IN PORTION J & M (ASSOCIATED CIVIL PROVISION WORKS)	100 days	0 day	Mon 1/7/19	Tue 8/10/19	NA	NA	588	0%	110 days	591									
590	251365	ALLOCATION WARRANT, QUOTATION & ISSUE OF WORKS ORDER FOR STREET LIGHTING BY OTHERS + SKJV NCE No. 327 - Late Approval of Lighting Design including Lengthy Time in Installation of LED Lighting (*16 wk for Purchasing LED Lighting after HyD's Instruction)	210 days	0 day	Mon 1/7/19	Sun 26/1/20	NA	NA	588	0%	0 days	591									
591	251366	INSTALLATION OF LED STREET LIGHTING BY OTHERS	40 days	0 day	Mon 27/1/20	Fri 6/3/20	NA	NA	589,590	0%	0 days	593									
592	251370	ROAD WORKS (EXCEPT COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS)	20 days	4 days	Sun 16/2/20	Fri 6/3/20	NA	NA	573,587,586,585	0%	0 days	593									
593	251371	COLOUR DRESSING, ROAD MARKING & TRAFFIC AIDS	25 days	0 day	Sat 7/3/20	Tue 31/3/20	NA	NA	592,591	0%	0 days	594									
594	251385	PORTION M - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	593	0%	0 days	596									
595	251390	W5 - LATEST REVISED COMPLETION DATE IN THIS PROG DATE	0 days	0 day	Wed 11/9/19	Wed 11/9/19	NA	NA	47	0%	1077 days										
596	251390	W5 - PLANNED COMPLETION DATE WITH CE & NCE EFFECT	0 days	0 day	Tue 31/3/20	Tue 31/3/20	NA	NA	594	0%	0 days	48,710,645									
597	260000	SECTION W6 (PORTION P)	716 days		Thu 30/6/16	Fri 15/6/18	Thu 30/6/16	Fri 15/6/18		100%	0 days										
609	270000	SECTION W7 (PORTION J1, J2 & J3)	1395 days		Thu 30/6/16	Fri 24/4/20	Thu 30/6/16	NA		73%	851 days										
610	270010	STARTING DATE OF CONTRACT	0 days	0 day	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	Thu 30/6/16	2SS	100%	0 days	479FS+60 days,613FS+250 days,612									
611	271000	PORTION J2, J3	1145 days		Tue 7/3/17	Fri 24/4/20	Tue 7/3/17	NA		73%	0 days										
612	271010	INSTRUCTION TO EXECISE	0 days	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	610	100%	0 days	613SS,614SS									
613	271020	POSSESSION OF SITE (J2, J3)	0 days	0 day	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	Tue 7/3/17	612SS,610FS+250 days	100%	0 days	615FS+200 days,616SS,617SS									
614	271030	APPLICATION OF EXCAVATION PERMIT	200 days	0 day	Tue 7/3/17	Fri 22/9/17	Tue 7/3/17	Fri 22/9/17	612SS	100%	0 days	633									
615	271040	CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORES HEIGHT TEMP. BLDG @ APPROX. CH. K0+900	30 days	2 days	Sat 23/9/17	Sun 22/10/17	Sat 23/9/17	Sun 22/10/17	613FS+200 days	100%	0 days	633									
616	271050	INITIAL SURVEY	190 days	2 days	Tue 7/3/17	Tue 12/9/17	Tue 7/3/17	Tue 12/9/17	613SS	100%	0 days	618									
617	271060	TREE SURVEY	90 days	2 days	Tue 7/3/17	Sun 4/6/17	Tue 7/3/17	Sun 4/6/17	613SS	100%	0 days	617									
618	271070	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	200 days	3 days	Mon 5/6/17	Thu 21/12/17	Mon 5/6/17	Thu 21/12/17	617	100%	0 days	620,623FS-50 days									
619	271072	UTILITIES DIVERSION WORKS (CLP, WSD)	90 days	3 day	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18	618	100%	0 days	621SS									
620	271074	CLP	90 days	3 days	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18	618	100%	0 days	620SS									
621	271076	WSD	90 days	3 days	Fri 22/12/17	Wed 21/3/18	Fri 22/12/17	Wed 21/3/18	618	100%	0 days	623SS+80 days									
622	271080	RW 46 + SKJV NCE No. 190 - Amendment of Arrangement of Bay 0	560 days	7 days	Sun 2/11/18	Sat 3/8/19	Sun 2/11/18	NA	618FS-50 days	90%	30 days	628SS+215 days,624SS+250 days,634									
623	271090	RW 47 - CSD	640 days	0 day	Thu 2/11/17	Sat 3/8/19	Thu 2/11/17	NA	622SS+250 days	90%	0 days	634FS-120 days									
624	271100	RW 48 + SKJV NCE No. 192 - Revised Details of RW + NCE No.219 Existing 132kV Cables and Joint Box at Castle Peak Road in Conflict with Construction Works + NCE No. 226 Trial Pits Excavation & Torodial Cable Detection + NCE No. 384 Revised Details of RW	460 days	5 days	Fri 28/9/18	Tue 31/12/19	Fri 28/9/18	NA	628SS+15 days	80%	0 days	634									
625	271110	RW24A + SKJV NCE No. 146 - Revised Bay 1 & 2 and Additional Bay 3 to Bay 6 + NCE No. 171 - Reinforcement and Const. Details + NCE No. 177 - Bay 1 to 3 as Obstructed by Existing Utilities + NCE No. 202 - Additional Bay 1A + NCE No.278 Suspension in Const.	330 days	2 days	Mon 8/10/18	Mon 2/9/19	Mon 8/10/18	NA	626	0%	0 days	627									
626	271120	RW 24B	90 days	2 days	Thu 11/4/19	Tue 9/7/19	NA	NA	626	0%	0 days	634FS-69 days									
627	271130	RW 24C + SKJV NCE No. 307 - Additional Retaining Wall RW24C, Box Culvert D8A and Drainage System	124 days	7 days	Wed 10/7/19	Sun 10/11/19	Wed 10/7/19	NA	622SS+215 days	100%	0 days	625SS+15 days,630SS,632SS+30 days,629									
628	271140	RW 25 + SKJV NCE No. 147 - Revised Setting Out + NCE No. 194 - Backfilling using Filter Type A between SP and RW + NCE No.231 - Excavation of Trial Pits	280 days	7 days	Fri 24/8/18	Thu 30/5/19	Fri 24/8/18	Thu 30/5/19	628	0%	0 days	634FS-120 days									
629		RW24AA AND ADDITIONAL DRAINAGE ; NCE 389	215 days		Fri 31/5/19	Tue 31/12/19	NA	NA	628	0%	0 days	634FS-120 days									

Task [Solid Grey] **Summary** [Dotted Grey] **External Milestone** [Diamond] **Inactive Summary** [Dotted Grey] **Manual Summary Rollup** [Blue Box] **Finish-only** [Blue Arrow] **Progress** [Green Arrow]

Split [Dotted Line] **Project Summary** [Dotted Grey] **Inactive Task** [Dotted Grey] **Manual Task** [White Box] **Manual Summary** [Blue Arrow] **Critical** [Black Arrow] **Deadline** [Red Arrow]

Milestone [Diamond] **External Tasks** [Dotted Grey] **Inactive Milestone** [Dotted Grey] **Duration-only** [Blue Arrow] **Start-only** [Blue Arrow] **Critical Split** [Black Arrow] [Dotted Line]

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Actual Start	Actual Finish	Predecessors	% Complete	Finish Slack	Successors
674	300281	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Mon 4/1/21	Mon 4/1/21	NA	NA	673FS-77 days	0%	597 days	
675	300290	SECTION W9C	60 days		Fri 26/6/20	Tue 25/8/20	NA	NA		0%	729 days	
676	300301	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 25/8/20	Tue 25/8/20	NA	NA		0%	729 days	677FS-60 days
677	300311	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Fri 26/6/20	Fri 26/6/20	NA	NA	676FS-60 days	0%	789 days	
678	300320	SECTION W9D	0 days		Tue 23/4/19	Tue 23/4/19	NA	NA		0%	1219 days	
679	300331	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 23/4/19	Tue 23/4/19	NA	NA		0%	1219 days	680
680	300341	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Tue 23/4/19	Tue 23/4/19	NA	NA	679	0%	1219 days	
681	300350	SECTION W9E	0 days		Tue 13/10/20	Tue 13/10/20	NA	NA		0%	680 days	
682	300361	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Tue 13/10/20	Tue 13/10/20	NA	NA		0%	680 days	683
683	300371	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Tue 13/10/20	Tue 13/10/20	NA	NA	682	0%	680 days	
684	300380	SECTION W9F	0 days		Mon 15/7/19	Mon 15/7/19	NA	NA		0%	1136 days	
685	300391	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 15/7/19	Mon 15/7/19	NA	NA		0%	1136 days	686
686	300401	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Mon 15/7/19	Mon 15/7/19	NA	NA	685	0%	1136 days	
687	300410	SECTION W9G	60 days		Thu 9/7/20	Mon 7/9/20	NA	NA		0%	716 days	
688	300421	REVISED COMPLETION DATE UP TO THIS PROG DATE	0 days		Mon 7/9/20	Mon 7/9/20	NA	NA		0%	716 days	689FS-60 days
689	300431	REVISED COMPLETION DATE (INCLUDING CSD TIME SAVING EFFECT) UP TO THIS PROG DATE	0 days		Thu 9/7/20	Thu 9/7/20	NA	NA	688FS-60 days	0%	776 days	
690												
691	400000	PLANNED WORK PROGRAMME	2246 days		Thu 30/6/16	Tue 23/8/22	NA	NA		0%	0 days	
692	400010	SECTION W8A	1476 days		Thu 30/6/16	Tue 14/7/20	NA	NA		0%	0 days	
693	400020	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1386 days	694
694	400030	LANDSCAPING SOFTWORKS	90 days	7 days	Thu 16/4/20	Tue 14/7/20	NA	NA	235,693	0%	0 days	695
695	400040	PLANNED COMPLETION OF SECTION W8A	0 days		Tue 14/7/20	Tue 14/7/20	NA	NA	694	0%	0 days	722
696	400050	SECTION W8B	1881 days		Thu 30/6/16	Mon 23/8/21	NA	NA		0%	0 days	
697	400060	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1761 days	698
698	400070	LANDSCAPING SOFTWORKS	120 days	10 days	Mon 26/4/21	Mon 23/8/21	NA	NA	697,452	0%	0 days	699
699	400080	PLANNED COMPLETION OF SECTION W8B	0 days		Mon 23/8/21	Mon 23/8/21	NA	NA	698	0%	0 days	726
700	400090	SECTION W8C	1466 days		Thu 30/6/16	Sat 4/7/20	NA	NA		0%	0 days	
701	400100	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1376 days	702
702	400110	LANDSCAPING SOFTWORKS	90 days	7 days	Mon 6/4/20	Sat 4/7/20	NA	NA	485,701	0%	0 days	703
703	400120	PLANNED COMPLETION OF SECTION W8C	0 days		Sat 4/7/20	Sat 4/7/20	NA	NA	702	0%	0 days	730
704	400130	SECTION W8D	660 days		Thu 30/6/16	Fri 20/4/18	NA	NA		0%	0 days	
705	400140	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	630 days	706
706	400150	LANDSCAPING SOFTWORKS	30 days	3 days	Thu 22/3/18	Fri 20/4/18	NA	NA	537,705	0%	0 days	707
707	400160	PLANNED COMPLETION OF SECTION W8D	0 days		Fri 20/4/18	Fri 20/4/18	NA	NA	706	0%	0 days	734
708	400170	SECTION W8E	1401 days		Thu 30/6/16	Thu 30/4/20	NA	NA		0%	0 days	
709	400180	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1371 days	710
710	400190	LANDSCAPING SOFTWORKS	30 days	3 days	Wed 1/4/20	Thu 30/4/20	NA	NA	709,596	0%	0 days	711
711	400200	PLANNED COMPLETION OF SECTION W8E	0 days		Thu 30/4/20	Thu 30/4/20	NA	NA	710	0%	0 days	738
712	400210	SECTION W8F	746 days		Thu 30/6/16	Sun 15/7/18	NA	NA		0%	0 days	
713	400220	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	716 days	714
714	400230	LANDSCAPING SOFTWORKS	30 days	3 days	Sat 16/6/18	Sun 15/7/18	NA	NA	713,608	0%	0 days	715
715	400240	PLANNED COMPLETION OF SECTION W8F	0 days		Sun 15/7/18	Sun 15/7/18	NA	NA	714	0%	0 days	742
716	400250	SECTION W8G	1235 days		Tue 7/3/17	Thu 23/7/20	NA	NA		0%	0 days	
717	400260	INSTRUCTION TO EXERCISE	0 days		Tue 7/3/17	Tue 7/3/17	NA	NA	56SS	0%	1145 days	718
718	400270	LANDSCAPING SOFTWORKS	90 days	7 days	Sat 25/4/20	Thu 23/7/20	NA	NA	717,644	0%	0 days	719
719	400280	PLANNED COMPLETION OF SECTION W8G	0 days		Thu 23/7/20	Thu 23/7/20	NA	NA	718	0%	0 days	746
720	400290	SECTION W8A	1841 days		Thu 30/6/16	Wed 14/7/21	NA	NA		0%	0 days	
721	400300	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1476 days	722
722	400310	ESTABLISHMENT WORKS	365 days	30 days	Wed 15/7/20	Wed 14/7/21	NA	NA	695,721	0%	0 days	723
723	400320	PLANNED COMPLETION OF SECTION W8A	0 days		Wed 14/7/21	Wed 14/7/21	NA	NA	722	0%	0 days	748FS+405 days
724	400330	SECTION W8B	2246 days		Thu 30/6/16	Tue 23/8/22	NA	NA		0%	0 days	
725	400340	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1881 days	726
726	400350	ESTABLISHMENT WORKS	365 days	30 days	Tue 24/8/21	Tue 23/8/22	NA	NA	725,699	0%	0 days	727
727	400360	PLANNED COMPLETION OF SECTION W8B	0 days		Tue 23/8/22	Tue 23/8/22	NA	NA	726	0%	0 days	748
728	400370	SECTION W8C	1831 days		Thu 30/6/16	Sun 4/7/21	NA	NA		0%	0 days	
729	400380	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1466 days	730
730	400390	ESTABLISHMENT WORKS	365 days	30 days	Sun 5/7/20	Sun 4/7/21	NA	NA	703,729	0%	0 days	731
731	400400	PLANNED COMPLETION OF SECTION W8C	0 days		Sun 4/7/21	Sun 4/7/21	NA	NA	730	0%	0 days	748FS+415 days
732	400410	SECTION W8D	1025 days		Thu 30/6/16	Sat 20/4/19	NA	NA		0%	0 days	
733	400420	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	660 days	734
734	400430	ESTABLISHMENT WORKS	365 days	30 days	Sat 21/4/18	Sat 20/4/19	NA	NA	707,733	0%	0 days	735
735	400440	PLANNED COMPLETION OF SECTION W8D	0 days		Sat 20/4/19	Sat 20/4/19	NA	NA	734	0%	0 days	748FS+1221 days
736	400450	SECTION W8E	1766 days		Thu 30/6/16	Fri 30/4/21	NA	NA		0%	0 days	
737	400460	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	1401 days	738
738	400470	ESTABLISHMENT WORKS	365 days	30 days	Fri 1/5/20	Fri 30/4/21	NA	NA	711,737	0%	0 days	739
739	400480	PLANNED COMPLETION OF SECTION W8E	0 days		Fri 30/4/21	Fri 30/4/21	NA	NA	738	0%	0 days	748FS+480 days
740	400490	SECTION W8F	1111 days		Thu 30/6/16	Mon 15/7/19	NA	NA		0%	0 days	
741	400500	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	NA	NA	2SS	0%	746 days	742
742	400510	ESTABLISHMENT WORKS	365 days	30 days	Mon 16/7/18	Mon 15/7/19	NA	NA	715,741	0%	0 days	743
743	400520	PLANNED COMPLETION OF SECTION W8F	0 days		Mon 15/7/19	Mon 15/7/19	NA	NA	742	0%	0 days	748FS+1135 days
744	400530	SECTION W8G	1600 days		Tue 7/3/17	Fri 23/7/21	NA	NA		0%	0 days	
745	400540	INSTRUCTION TO EXERCISE	0 days		Tue 7/3/17	Tue 7/3/17	NA	NA	56SS	0%	1235 days	746
746	400550	ESTABLISHMENT WORKS	365 days	30 days	Fri 24/7/20	Fri 23/7/21	NA	NA	719,745	0%	0 days	747
747	400560	PLANNED COMPLETION OF SECTION W8G	0 days		Fri 23/7/21	Fri 23/7/21	NA	NA	746	0%	0 days	748FS+396 days



Task [Solid Bar] **Summary** [Dotted Bar] **External Milestone** [Diamond] **Inactive Summary** [Dashed Bar] **Manual Summary Rollup** [Large Arrow] **Finish-only** [Thin Blue Bar] **Progress** [Thin Red Bar] **Deadline** [Thin Green Bar]

Split [Dotted Bar] **Project Summary** [Dotted Bar] **Inactive Task** [Dashed Bar] **Manual Task** [Thin Blue Bar] **Manual Summary** [Thin Red Bar] **Critical** [Thin Blue Bar]

Milestone [Diamond] **External Tasks** [Dotted Bar] **Inactive Milestone** [Diamond] **Duration-only** [Thin Blue Bar] **Start-only** [Thin Red Bar] **Critical Split** [Thin Blue Bar]

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

**APPENDIX B
MONITORING REQUIREMENTS**

Appendix B - Environmental Impact Monitoring Requirements

Remarks: # The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Construction Noise	L _{eq} , L ₉₀ & L ₁₀ at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	<ul style="list-style-type: none"> • N1 - HKMLC Wong Chan Sook Ying Memorial School • N2 – Bethel High School • N3 – No. 159 Mai Po San Tsuen • N5 – Block 2, Dills Corner Garden • N6 – Home of Loving Faithfulness • N7 – Village House in Shek Wu Wai 	<ul style="list-style-type: none"> • N1 – Façade measurement at Rooftop (about 5/F) area • N2 – Façade measurement at Rooftop (about 4/F) area • N3 – Free field measurement at G/F area • N5 – Free field measurement at G/F area • N6 – Façade measurement at Rooftop (about 3/F) area • N7 – Free field measurement at G/F area

**APPENDIX C
ACTION AND LIMIT LEVELS FOR
NOISE**

Appendix C - Action and Limit Levels

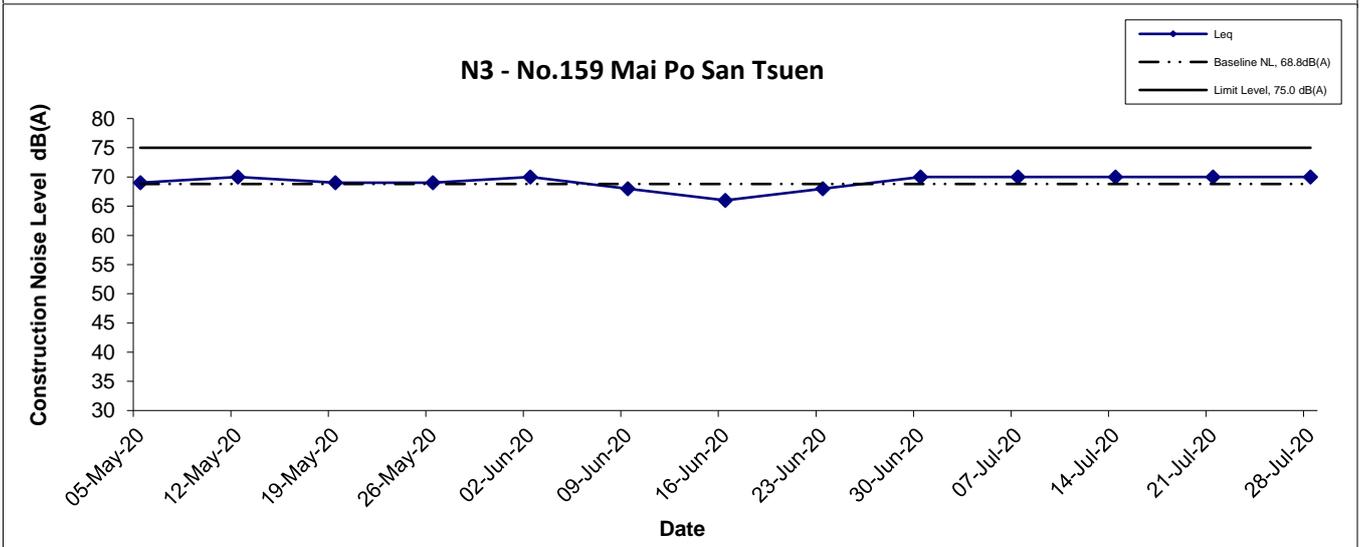
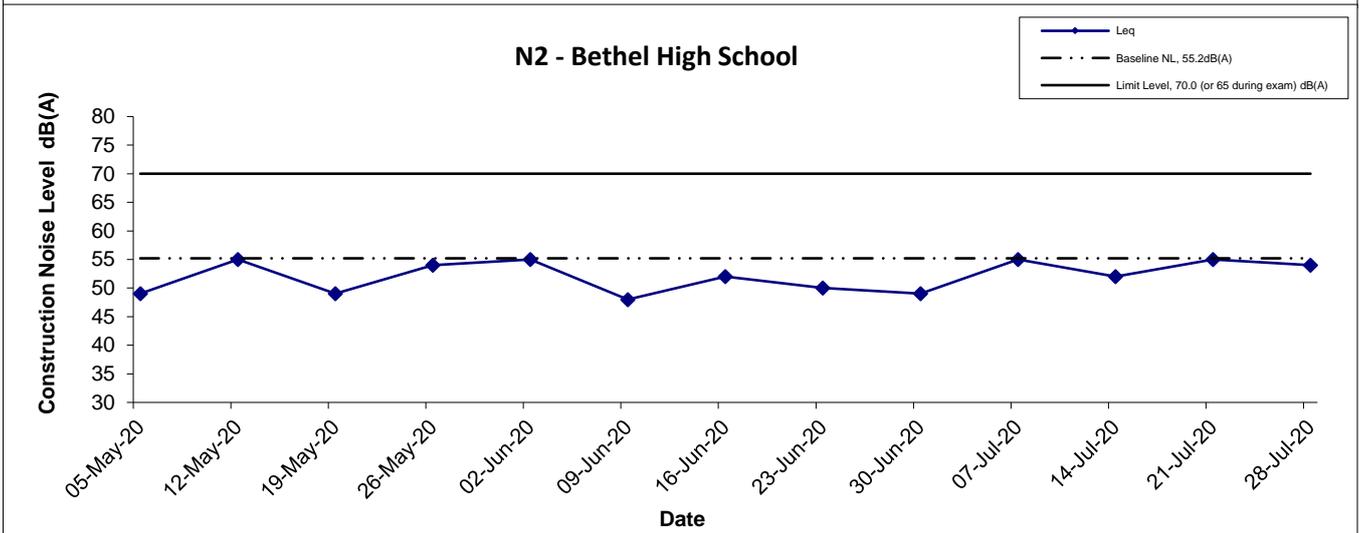
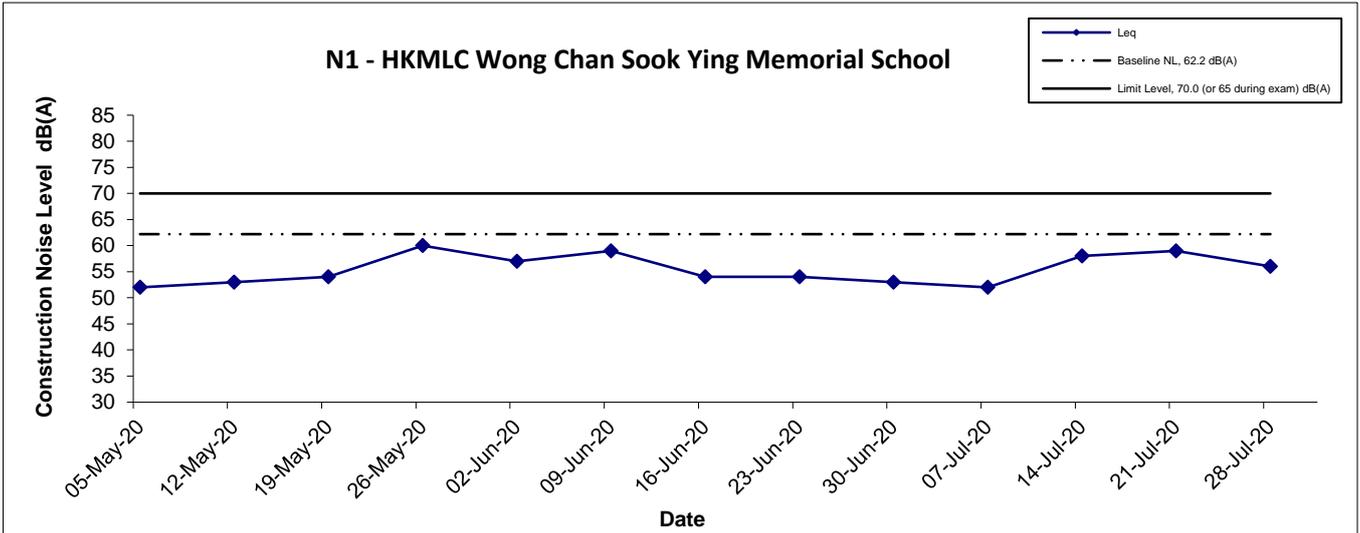
Table B-1 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

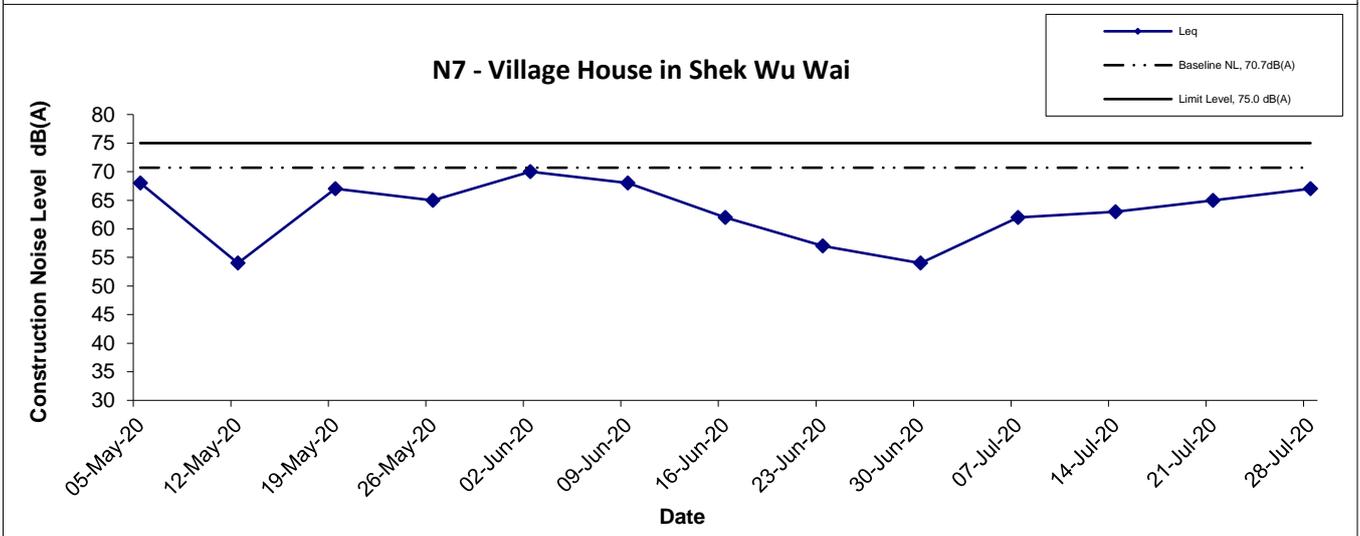
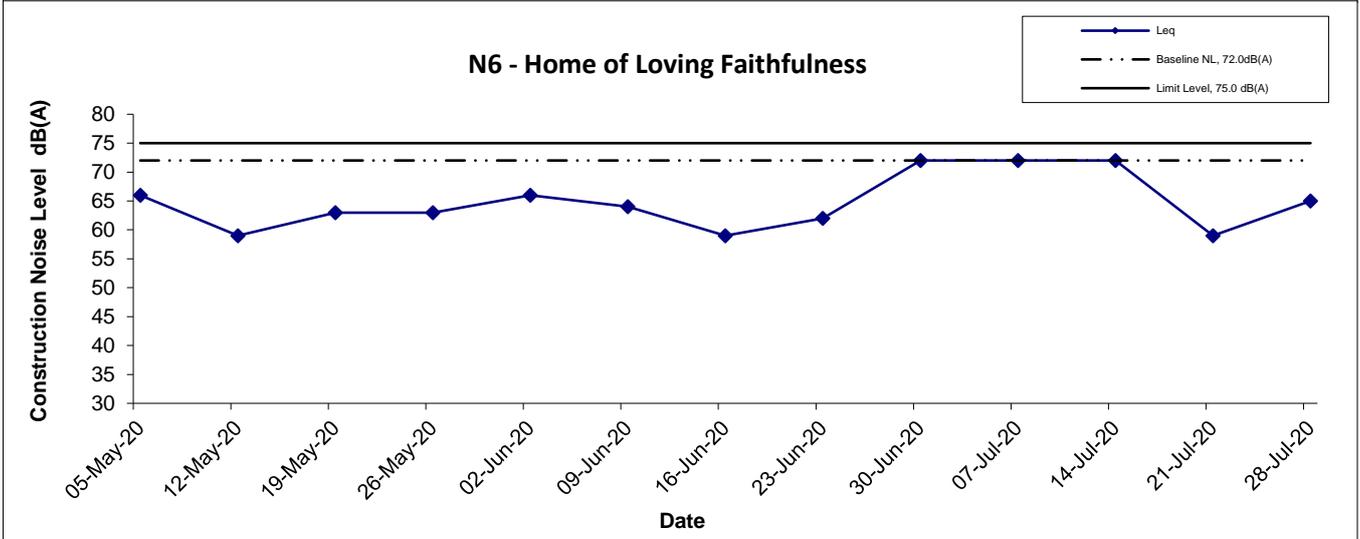
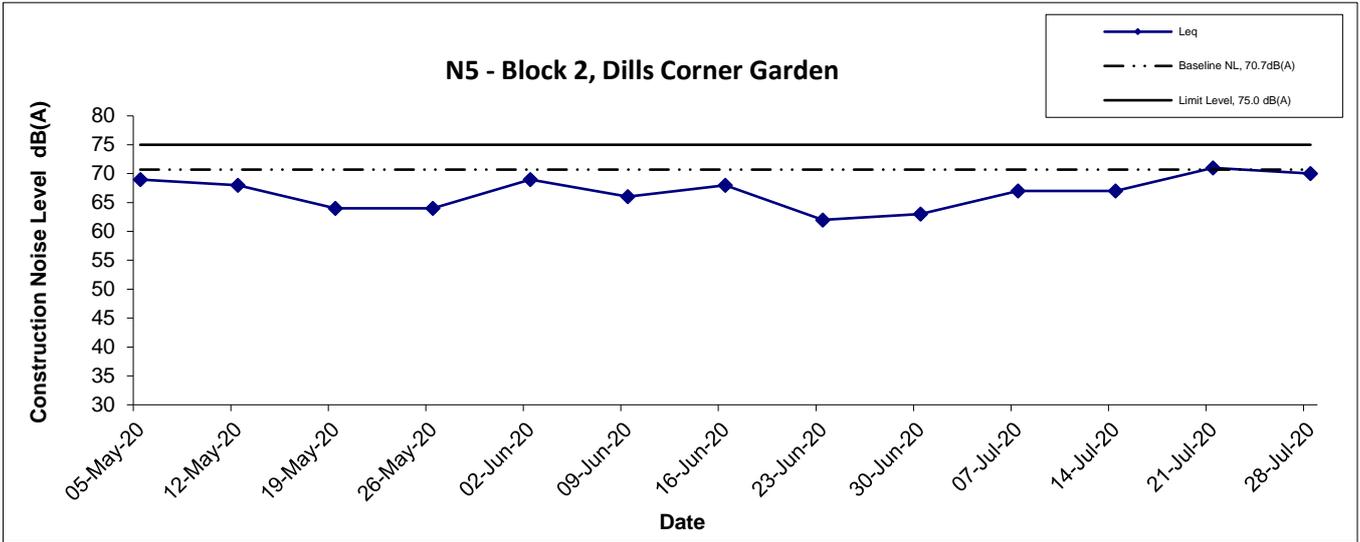
**APPENDIX D
NOISE MONITORING RESULTS AND
GRAPHICAL PRESENTATIONS**

Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale	Project	CINOTECH
	N.T.S	No. MA16036	
	Date	Appendix	
	Aug 20	D	

Noise Levels



Title Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA16036	
	Date Aug 20	Appendix D	

**APPENDIX E
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Air Quality			
S.3.6.2	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	*
S.3.6.2	S.3.2.3	● The works area for site clearance shall be sprayed with water before, during and after the operation so as to maintain the entire surface wet	^
S.3.6.2	S.3.2.3	● Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading	^
S.3.6.2	S.3.2.3	● Immediately before leaving a construction site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, all spraying of materials and surfaces should avoid excessive water usage	*
S.3.6.2	S.3.2.3	● Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not leak from the vehicle	^
S.3.6.2	S.3.2.3	● Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks	^
S.3.6.2	S.3.2.3	● Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate	^
S.3.6.2	S.3.2.3	● Any stockpile of dusty materials shall be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides	#
S.3.6.2	S.3.2.3	● All dusty materials shall be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Noise Impact			
S5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CHMP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within “Recreation” (“REC”) zone and “Residential (Group C)” Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME): - mini excavator - mobile crane - dump truck - hand-held electric circular saw - concrete lorry mixer - lorry - vibratory poker - asphalt paver - crane mounted auger - road roller - road ripper, excavator mounted	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

<p>S.5.6.2 Table 5-8</p>	<p>S.4.2.19</p>	<p>Noise barrier in the form of site hoarding shall be used for the following PMEs where practicable:</p> <ul style="list-style-type: none"> - mini excavator - mobile crane - dump truck - hand-held electric circular saw - bar bender - vibrating hammer - generator - concrete lorry mixer - lorry - vibratory poker - asphalt paver - compactor - road roller - crane mounted auger - grout mixer - grout pump - drill - road ripper, excavator mounted 	<p>^</p>
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Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PME's where practicable: - air compressor - hand-held breaker	N/A (1)
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m ² .	^
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.	^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD	^
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines	^
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer for approval the method of working, equipment and noise mitigation measures intended to be used at the site	^
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented	^
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as is practical	^
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided	^
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable	N/A
S.5.6.8	S.4.2.19	The Contractor shall liaise with the schools that are located near the works sites regarding their examination period and schedule the noisy works to avoid the examination period as far as possible.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Water Quality			
S.6.6.1	S.5.2.4	Mitigation measures should be implemented to prevent the uncontrolled discharge of wastewater from the construction site in accordance with Practice Note for Professional Persons ProPECC PN1/94 - Construction Site Drainage	*
S.6.6.1	S.5.2.4	Surface run-off from the construction sites will be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps and sediment settling basins. This is important for works immediately along the Kam Tin River, Ngau Tam Mei Main Drainage Channel, River Beas and Shek Sheung River	*
S.6.6.1	S.5.2.4	Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above-mentioned facilities	^
S.6.6.1	S.5.2.4	Existing silt removal facilities, channels and manholes along roads and pedestrian walkways will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.6.6.1	S.5.2.4	Other manholes (including any newly constructed ones) will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system	^
S.6.6.1	S.5.2.4	Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system	^
S.6.6.1	S.5.2.4	Where possible, works entailing soil excavation will be minimized during the rainy season (i.e. April to September);	^
S.6.6.1	S.5.2.4	Where applicable, final earthworks surfaces/ slopes will be well compacted and hydro-seeded following completion to prevent erosion	N/A
S.6.6.1	S.5.2.4	During construction works, chemical toilets will be provided for the use of site staff. These will be provided by a licensed contractor, who will be responsible for appropriate disposal and maintenance of the effluent	^
S.6.6.1	S.5.2.4	Works adjacent to the fishponds near Mai Po San Tsuen should be avoided as far as possible during the wet season to avoid runoff into the fishponds	^
S.6.6.1	S.5.2.4	Wastewater from site facilities (such as toilets) should be discharged to foul sewer, where available. Chemical toilets will be considered where there is no foul sewer connection. There is not expected to be a temporary canteen.	^
S.6.6.1	S.5.2.4	All site discharges within Water Control Zones must comply with the terms and conditions of a valid discharge licence issued by EPD	^
S.6.6.1	S.5.2.4	Vehicle wheel washing facilities should be provided, where applicable, at the site exit such that mud, debris, etc. deposited onto the vehicle wheels or body can be washed off before the vehicles are leaving the site area	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.6.6.1	S.5.2.4	Section of the road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains	^
S.6.6.1	S.5.2.4	The project may occasionally involve the handling of fuel and generates chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed areas and provided with locks	^
S.6.6.1	S.5.2.4	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spilled oil, fuel or chemicals from reaching the receiving waters	^
S.6.6.1	S.5.2.4	Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas	N/A
S.6.6.1	S.5.2.4	Chemical waste arising from the site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation	*
-	S.5.2.7 (Stage 1 only)	The construction work of cycle bridge at Shek Sheung River is not recommended to be carried out during wet seasons (April to October), and the dry weather flow will be diverted to avoid entering the works area. In order to further protect the river water quality from disturbance, the construction work especially excavation works, will be surrounded by cofferdams to ensure the works will be carried out in a dry condition to prevent water pollution to the river.	^
N/A	S.5.2.4 (Stage 2 only)	Stream decking is recommended to be carried out during dry weather condition. To prevent disturbance to the river water quality, measures will be taken to ensure the works to be carry out in a dry condition to prevent water pollution to the river, such as sandbag barriers.	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
N/A	S.5.2.6 (Stage 2 only)	Based on the current available information, the tentative programmes of some construction works for the Agreement No. CE 57/2011 (DS) Drainage Improvement at Northern NT - Package A Drainage Improvement Works in San Tin (Remaining Works) - Investigation (DIST) and the Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT) projects may overlap with Stage 2 cycle track construction works. It is recommended that the Contractor should liaise with the project contractor(s) of the DIST and the NSWCT projects to schedule the construction works and allow programme phrasing to avoid major concurrent activities to be undertaken simultaneously in the vicinity.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction Waste Management			
S.7.4.1	S.6.2.1 – S.6.2.4	An on-site environmental co-ordinator employed by the Contractor should be identified at the outset of the works. Prior to commencement of Project works, the co-ordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the ER’s approval. The WMP shall include monthly and yearly Waste Flow Tables (“WFT”) that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated;	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	^
S.7.4.1	S.6.2.6	● The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site	^
S.7.4.1	S.6.2.6	● Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimization	*
S.7.4.1	S.6.2.6	● All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance)	^
S.7.4.1	S.6.2.6	● The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence	*

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”. 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD; 	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works; 	#
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and 	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling. 	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> ● The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction. 	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Land Contamination			
S.8.7.2 – S.8.7.3	S.7.2.2	<p>Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation.</p> <p>Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD’s approval.</p>	^
S.8.7.5	S.7.3.1	<p>The following control measures should be implemented when handling identified contaminated materials:</p> <ul style="list-style-type: none"> ▪ General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection; ▪ Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used; ▪ Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene; ▪ Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants. 	N/A

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.8.7.5	S.7.3.1	<p><u>Management of Contaminated Soils</u></p> <ul style="list-style-type: none"> ▪ Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers; ▪ The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site; <p>All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete bund where appropriate in order to avoid any leachate from migrating out of the area;</p> <ul style="list-style-type: none"> ▪ Any vehicles transporting the material shall be suitably covered to limit potential dust emissions; ▪ Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of contaminated water requiring disposal and suspended solids in the wastewater stream 	N/A

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Ecological & Fisheries Impact			
S.9.11.4	S.8.2.2	Prior to tree felling, survey inspections should be made for their suitability for roosting bats. Once these trees have been highlighted, then appropriate checks of each tree for bats should be made prior to removal as a precautionary measure.	^
S.9.11.7	S.8.2.3 (Stage 1 only)	<i>In situ</i> compensation planting at the Information Kiosk and R9 should occur to provide continuing function of the bamboo and plantation (see Figure 8-1 of EM&A Manual for Stage 1 Works (Year 2015)). It is recommended that the Information Kiosk and Resting Station R9 should be designed sympathetically to the natural surroundings. Compensation planting along the Sheung Yue River and Shek Sheung River including at R9 and Information Kiosk could be implemented as appropriate.	N/A
S.9.11.17 – S.9.11.19	S.8.2.4 (Stage 1) S.8.2.3 (Stage 2)	For the Kam Tin section and the Long Valley section of the Project, construction works shall not be carried out during the wet season (April to October) which is considered to have no significant impact to wildlife and to avoid the breeding season of Greater Painted-snipes at Long Valley. This is also to prevent any site run-off to adjacent water channels and fishponds including those fishponds along San Tin Tsuen Road.	^
S.9.11.23	S.8.2.4 (Stage 2 only)	Construction of the section in the vicinity of Mai Po Village SSSI shall be undertaken beyond the recognised breeding seasons for ardeids in Hong Kong to prevent any potential disturbance to the nesting birds, i.e., from September to February.	^
-	S.8.2.5 (Stage 1 only)	In order to avoid any adverse impact to the healthiness of the bamboo grove from dust-coating on leave next to the R9 and hence affect the breeding habitat of the very rare Dark Brown Ace, a dust barrier should be installed between the bamboo and the construct site.	N/A

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
-	S.8.2.6 (Stage 1 only)	For the lower Shek Sheung River, construction works should be scheduled in dry season to minimize the disturbance to the foraging ardeids and the Quiet PME shall be implemented practicable to minimize the noise disturbance to the foraging ardeids.	^
S.10.5.4	S.8.2.7 (Stage 1) S.8.2.5 (Stage 2)	To prevent any negative impact to water quality as a result of site run-off, good site practice must be employed at all times, particularly in the areas close to fishponds. Practice Note for Professional Persons ProPECC PN1/94 – Construction Site Drainage shall be implemented.	^
S.10.5.4	S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Along Pok Wai South Road, once the final construction sequencing is known, liaison with local residents and aquaculturists should be implemented in order to minimise temporary road blockages and to identify the best timing for works along this area.	N/A
S.10.5.3	S.8.2.9 (Stage 1) S.8.2.7 (Stage 2)	During wet seasons, surface run-off from the construction sites will need to be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps, oil interceptors and sediment settling basins. Works adjacent to the fishponds near NTMDC inside the Wetland Conservation Area (WCA) and Mai Po San Tsuen should be avoided, as far as practicable, during the wet season to avoid runoff into the fishponds.	^
-	S.8.2.10 (Stage 1 only)	The use of signage at the Resting Stations to indicate that wildlife may be present and that noise levels and activities should be kept to a minimum could be implemented. This may help to reduce any potential disturbance to wildlife from human activity. At Long Valley, to mitigate against potential indirect human disturbance to Greater Painted-snipe, planting could be undertaken as appropriate along the proposed cycle track at meander 8 to act as screening.	N/A

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	<p>The following good work practices are recommended:</p> <ul style="list-style-type: none"> ▪ Avoid soil storage against trees; ▪ Fence off any potentially ecologically sensitive areas; ▪ Delineation of works area to prevent encroachment onto adjacent habitats; ▪ Reinstatement of habitat after works; ▪ No on-site burning of waste; Waste and refuse in appropriate receptacles; ▪ Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible; ▪ Regular ecological checks; and ▪ Silt/ Sediment/ Oil traps for drainage to prevent site run-off 	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Cultural Heritage Impact			
S.11.5.1	S.9.2.1	Care should be taken during the construction stage to report any signs of possible discovery of artefacts.	N/A
Landscape and Visual			
<i>Detailed Design Phase</i>			
Table 12-11	CP1	A detailed tree survey to be carried out by the IDC Consultant during the detailed design stage. The recommendations of the preliminary tree survey shall be reviewed and confirmed during the detailed survey. Should tree felling be required, tree felling application is required in accordance with DEVB Technical Circular (Works) No. 10/2013 Tree Preservation	^
S.12.9.3	CP6	It has been agreed that the proposed landscape areas under DSD's 4215DS project which falls within the cycle track works area will be implemented by Project proponent of this Project in form of roadside amenity areas after completion of the cycle track. During the detailed design, the works programme of this Project shall be coordinated with the above-mentioned DSD project in order to avoid abortive planting works and impact on landscape resources between the interface of different public works. The proposed landscape areas under 4215DS fallen within the cycle track works area shall be incorporated in the final landscape design of this Project.	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.12.10.1	OP1	The Design Concept Drawings and Conceptual Landscape Master Plan of cycle track and associated facilities demonstrate landscape and visual mitigation strategies and design measures including integrated design approach, amenity and compensatory planting proposals and treatment of retaining structure and slopes have been recommended in the EIA. More detailed landscape and compensatory planting proposals shall be developed by IDC consultants at later stage during detailed design and construction phase of this project following the completion of the detailed Tree Survey Report and approval from relevant departments at that stage	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
<i>Construction Phase</i>			
Table 12-11	CP1.1	To retain trees, which have high amenity or ecology value and contribute most to the landscape and visual amenity of the site and its immediate environs.	^
	CP1.2	Creation of precautionary area around trees to be retained equal to half of the trees canopy diameter. Precautionary area to be fenced.	^
	CP1.3	Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling and washing of equipment including concrete mixers within the precautionary area.	^
	CP1.4	Phased segmental root pruning for trees to be retained and transplanted over a suitable period (determined by species and size) prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The extent of the pruning will be based on the size and the species of the tree in each case.	^
	CP1.5	Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value.	^
	CP1.6	The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	^
	CP1.7	The rectification and repair of damaged vegetation following the construction phase to its original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected.	N/A

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
	CP1.8	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the implementation of protection measures and health monitoring throughout the construction period.	^
	CP1.9	Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WB Technical Circular No. 14/2002.	N/A
	CP2.0	The tree preservation works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection specification would be included within the contract documents.	^
	CP2.1	Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of retention stored for re-use.	^
	CP2.2	The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with hydroseeded grass during construction or covered with a waterproof covering to prevent erosion.	^
	CP2.3	The stockpile should be turned over on a regular basis to avoid acidification and the degradation of the organic material, and reused after completion. Alternatively, if this is not practicable, it should be considered for use elsewhere, including other projects.	^
	CP3.1	Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase.	N/A
	CP3.2	Construction site controls should be enforced including the storage of materials, the location and appearance of site accommodation and the careful design of site lighting to prevent light spillage.	^

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
	CP3.3	Screen the works area during the construction phase through the use of decorative hoarding along the site boundary facing adjacent VSRs	^
	CP4.1	Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase	^
	CP4.2	Use of native plant species predominantly in the planting design for the buffer areas.	^
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree planting specification would be included within the contract documents	^
	CP5.1	The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents.	^
	CP5.2	The implementation program should reserve enough time for advance tree transplanting preparation.	^

Remarks:	EM&A Manual for Stage 1 Works under EP-450/2013/A (App No.: VEP-478/2015) EM&A Manual for Stage 2 Works under EP-501/2015 (App No.: AEP-501/2015)	
	^ Compliance of mitigation measure;	X Non-compliance of mitigation measure;
	N/A Not Applicable at this stage; N/A(1) Not observed;	● Non-compliance but rectified by the contractor;
	* Recommendation was made during site audit but improved/rectified by the contractor.	# Recommendation was made during site audit but not yet improved/rectified by the contractor.

APPENDIX F
SITE AUDIT SUMMARY

Appendix F Summary of Observation and Recommendation Made during Site Inspection
Summary of Observations and Recommendations Made during Site Inspections from May to July 2020

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	14 – 27 May 2020	Construction waste and Standing water should be avoided at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 3 June 2020.
	26 Jun 2020	Sandbags should be provided to prevent exposed earth into the drainage at Portion H.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 June 2020.
<i>Air Quality</i>	4 Mar – 29 Apr 2020	Stockpile of dusty material should be covered and not placed outside the site boundary at Portion J.	The condition was observed to be improved/rectified by the contractor during the audit session on 6 May 2020.
	16 Apr – 3 Jun 2020	The public road around the site entrance should be kept clean at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 11 June 2020.
	6 May – 3 Jun 2020	Stockpile of dusty material should be covered at Portion D.	The condition was observed to be improved/rectified by the contractor during the audit session on 11 June 2020.
	14 May 2020	Stockpile of dusty material should be covered by tarpaulin at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 20 May 2020.
	3 – 11 Jun 2020	Stockpile of dusty material should be covered by tarpaulin at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 17 June 2020.
	8 – 22 Jul 2020	NRMMs should be displayed properly on the excavator a Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 29 July 2020.
	22 – 29 Jul 2020	Stockpile of dusty material should be covered at Bridge B.	Follow up actions will be reported in the next quarter.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A

Parameters	Date	Observations and Recommendations	Follow-up
<i>Waste/ Chemical Management</i>	16 – 29 Apr 2020	Drip trays should be provided to store chemicals at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 6 May 2020.
	24 Apr – 11 Jun 2020	Accumulation of general refuse should be avoided at Portion M.	The condition was observed to be improved/rectified by the contractor during the audit session on 17 June 2020.
	29 Apr 2020	Construction waste should be disposed properly at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 14 May 2020.
	6 – 14 May 2020	Construction waste should be disposed properly at Portion M.	The condition was observed to be improved/rectified by the contractor during the audit session on 20 May 2020.
	14 May – 30 Jun 2020	Accumulation of construction waste should be avoided at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 8 July 2020.
	27 May – 3 Jun 2020	Drip tray should be provided to store chemical at Portion F.	The condition was observed to be improved/rectified by the contractor during the audit session on 11 June 2020.
	3 – 26 Jun 2020	Drip tray should be provided to store chemical at Portion I.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 June 2020.
	26 Jun 2020	Drip tray should be provided by contractor to prevent chemical leakage at Portion H.	The condition was observed to be improved/rectified by the contractor during the audit session on 30 June 2020.
	26 – 30 Jun 2020	Drip tray should be provided by contractor to prevent chemical leakage at Portion E.	The condition was observed to be improved/rectified by the contractor during the audit session on 8 July 2020.
	16 Jul 2020	Accumulation of general refuse should be avoided at Portion F.	Follow up actions will be reported in the next quarter.

Parameters	Date	Observations and Recommendations	Follow-up
	29 Jul 2020	Drainage system should be kept clean. General refuse should be disposed of properly at Portion D.	Follow up actions will be reported in the next quarter.
<i>Ecology and Fisheries</i>	N/A	There was no observation in the reporting period.	N/A
<i>Landscape and Visual</i>	N/A	There was no observation in the reporting period.	N/A
<i>Permits/ Licenses</i>	N/A	There was no observation in the reporting period.	N/A

**APPENDIX G
MONTHLY SUMMARY WASTE FLOW
TABLE**

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2016 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Aug	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Sept	0.005	-	-	-	0.005	-	0.01	0.01	0.01	-	0.06
Oct	-	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Nov	0.35	-	-	-	0.35	-	0.05	0.05	0.05	-	0.05
Dec	0.4	-	-	-	0.4	-	0.05	0.05	0.05	-	0.05
Total	0.755	-	-	-	0.755	-	0.18	0.18	0.18	-	0.22

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2017 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06
Feb	0.02	-	-	-	0.02	-	0.05	0.05	0.05	-	0.01
Mar	1.15	-	-	-	1.15	0.369	0.05	0.05	0.05	-	0.02
Apr	0.65	-	-	-	0.65	-	0.05	0.05	0.05	-	0.02
May	0.79	-	-	-	0.79	-	0.05	0.05	0.05	-	0.01
June	1.63	-	-	-	1.63	-	0.05	0.05	0.05	-	0.02
July	1.25	-	-	-	1.25	-	0.05	0.05	0.05	-	0.01
Aug	1.49	-	-	-	1.49	-	0.05	0.05	0.05	-	0.01
Sep	1.15	-	-	-	1.14	0.493	0.05	0.05	0.05	-	0.01
Oct	1.19	-	-	-	1.19	-	0.05	0.05	0.05	-	0.01
Nov	0.79	-	-	-	0.76	-	0.05	0.05	0.05	-	0.03
Dec	3.09	-	-	-	3.07	-	0.05	0.05	0.05	-	0.01
Total	13.24				13.18	0.986	0.6	0.6	0.6		0.22

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2018 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	4.37	-	-	-	4.36	-	0.05	0.05	0.05	-	0.01
Feb	1.66	-	-	-	1.64	-	0.05	0.05	0.05	-	0.01
Mar	1.85	-	-	-	1.82	-	0.05	0.05	0.05	-	0.01
Apr	3.35	-	-	-	3.31	-	0.05	0.05	0.05	-	0.01
May	0.84	-	-	-	0.82	-	0.01	0.01	0.01	-	0.01
June	0.04	-	-	-	-	-	0.01	0.01	0.01	-	0.04
July	2.75	-	-	-	2.72	-	0.01	0.01	0.01	-	0.03
Aug	1.34	-	-	-	1.32	-	0.01	0.01	0.01	-	0.02
Sept	0.69	-	-	-	0.68	-	0.01	0.01	0.01	-	0.01
Oct	2.99	-	-	-	2.97	-	0.01	0.01	0.01	-	0.01
Nov	4.62	-	-	-	4.61	-	0.01	0.01	0.01	-	0.01
Dec	6.49	-	-	-	6.45	-	0.01	0.01	0.01	-	0.05
Sub-total	30.99	-	-	-	30.70	-	0.28	0.28	0.28	-	0.22
.
.
Total	44.985	-	-	-	44.635	0.986	1.06	1.06	1.06	-	0.66

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2019 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	1.13	-	-	-	1.08	-	0.05	0.05	0.05	-	0.05
Feb	0.04	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Mar	0.06	-	-	-	-	-	0.05	0.05	0.05	-	0.06
Apr	0.06	-	-	-	0.03	-	0.05	0.05	0.05	-	0.03
May	-	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Jun	0.03	-	-	-	-	-	0.05	0.05	0.05	-	0.03
July	0.05	-	-	-	-	-	0.05	0.05	0.05	-	0.05
Aug	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Sep	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Oct	0.02	-	-	-	-	-	0.05	0.05	0.05	-	0.02
Nov	0.03	-	-	-	-	-	0.05	0.05	0.05	-	0.03
Dec	0.19	-	-	-	-	-	0.05	0.05	0.05	-	0.19
Sub-total	1.69	-	-	-	1.11	-	0.60	0.60	0.60	-	0.58
.
.
Total	46.675	-	-	-	45.745	0.986	1.66	1.66	1.66	-	1.24

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Name of Department: CEDD

Contract No.: YL/2015/01

Monthly Summary Waste Flow Table for 2020 (Year)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.13	-	-	-	-	-	0.05	0.05	0.05	-	0.13
Feb	0.16	-	-	-	-	-	0.05	0.05	0.05	-	0.16
Mar	0.14	-	-	-	-	-	0.05	0.05	0.05	-	0.14
Apr	0.15						0.05	0.05	0.05		0.15
May	0.22						0.05	0.05	0.05		0.22
Jun	0.06						0.05	0.05	0.05		0.06
July	0.14						0.05	0.05	0.05		0.14
Aug											
Sep											
Oct											
Nov											
Dec											
Sub-total	1.00	-	-	-		-	0.35	0.35	0.35	-	1.00
.
.
Total	47.54	-	-	-	45.745	0.986	2.01	2.01	2.01	-	2.24

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Sang Hing – Kuly Joint Venture

Contract No.: YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
5	2	1	1	5	10	3	3	1	1	3

*Remark: Figure to be revised if necessary

Notes:

- (1) The performance targets are given in ETWB Technical Circular PS Clause 6(14).
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³. (ETWB Technical Circular PS Clause 5(4)(b) refers).
[Delete Note (4) and the table above on the forecast, where inapplicable].

Summary Table for Work Processes or Activities Requiring Timber for Temporary Works

Contract No. : YL/2015/01

Contract Title : Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Item No.	Description of Works Process or Activity [see note (a) below]	Justifications for Using Timber in Temporary Construction Works	Est. Quantities of Timber Used (m3)	Actual Quantities used (m3)	Remarks
1.	Formwork for concreting	Easy handle by manpower	40	30	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
Total Estimated Quantity of Timber Used			40		

Notes:

- a. The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.
- b. The summary table shall be submitted to the *Architect/Engineer's Representative monthly together with the Waste Flow Table for review and monitoring in accordance with the ETWB Technical Circular 19/2005 PS sub-clause 5(5) in Appendix C.

**APPENDIX H
SUMMARY OF EXCEEDANCES**

Agreement No. CE 67/2015 (HY)

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix H – Summary of Exceedance

Exceedance Report for Contract No. YL/2015/01 – Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

**(A) Exceedance Report for Construction Noise
(NIL in the reporting period)**

**ANNEX I
COMPARISONS OF EM&A DATA AND
EIA PREDICTIONS**

Annex I – Comparison of EM&A Data and EIA Predictions

Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels in EIA (2009), dB(A)	Predicted Mitigated Worst Case Construction Noise Levels in ERR for Stage 2 (2015), dB(A)	Reporting Month (May 20), L_{eq} (30min) dB(A)	Reporting Month (Jun 20), L_{eq} (30min) dB(A)	Reporting Month (Jul 20), L_{eq} (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 ⁽¹⁾	51.5 - 59.7	53.3 - 58.6	51.7 - 59.3
N2 – Bethel High School	57-64	64 ⁽¹⁾	48.8 - 55.1	47.6 - 54.7	52 - 55.2
N3 – No. 159 Mai Po San Tsuen	70-73	74 ⁽²⁾	68.8 - 69.9	65.9 - 70.3	69.9 - 70.3
N5 – Block 2, Dills Corner Garden	73-75	75 ⁽²⁾	63.8 - 68.9	61.6 - 68.6	66.9 - 70.6
N6 – Home of Loving Faithfulness	64-73	74 ⁽¹⁾	58.7 - 65.6	58.7 - 72	58.7 - 72
N7 – Village House in Shek Wu Wai	N/A ⁽³⁾	70 ⁽²⁾	54.4 - 67.8	54.4 - 70.5	62.4 - 66.5

Remark:

- (1) With adoptions of quiet PMEs, temporary noise barrier and enclosure
- (2) With sub-grouping of construction activities
- (3) No construction noise level was predicted in EIA Report (2009)