

DRAINAGE SERVICES DEPARTMENT



CONTRACT NO. DC/2011/06

**REPROVISIONING OF BOUNDARY PATROL ROAD AND
ASSOCIATED SECURITY FACILITIES BETWEEN
PING YUEN RIVER AND PAK FU SHAN AND
DRAINAGE WORKS IN NORTH DISTRICT**

**SECOND QUARTERLY EM&A SUMMARY REPORT FOR
ADVANCED WORKS UNDER EP-430/2011
(DECEMBER 2012 - FEBRUARY 2013)**

**PREPARED FOR
SANG HING CIVIL CONSTRUCTORS CO., LTD.**

Quality Index

Date	Reference No.	Prepared By	Approval By
	TCS00599/12/600/R0120	 F. N. Wong Senior Environmental Consultant	 T. W. Tam Environmental Team Leader

Version	Date	Description
0	27 June 2013	First submission.
1	3 July 2013	Amended against IEC's comments.

This report has been prepared by Action-United Environmental Services & Consulting with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.

Ref.: DSDBPRNDEM00_0_0154L.13

3 Jul 2013

By Post and Fax (2959 6079)

Action-United Environmental Services & Consulting
Unit A, 20/F,
Gold King Industrial Building,
New Territories, Hong Kong

Attention: Mr. TW Tam

Dear Sir,

**Re: Contract No. DC/2011/06
Reprovisioning of Boundary Patrol Road and Associated Security Facilities
between Ping Yuen River and Pak Fu Shan and Drainage Works in North
District
Second Quarterly EM&A Summary Report for Drainage Works under EP-
430/2011 (December 2012 – February 2013)**

Reference is made to the Environmental Team's submission of the captioned report (Version 1) dated 3 July 2013 received through E-mail on 3 July 2013 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr. Simon Cheung at 3465 2810.

Yours sincerely,



Roger Leung
Independent Environmental Checker

c.c.	DSD	Mr. Eric Cheng	by fax: 2827 8700
	SHCCCL	Mr. Raymond W.M. Yau	by fax: 2403 1162

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EXECUTIVE SUMMARY

REPORTING OF THE CONTRACT

- ES01. In order to ease reporting of the Contract, it has been agreed among the Engineer, IEC, Contractor and ET that the EM&A reports for the Contract are split into three stand-alone reports, namely EM&A Report for Advanced Works under EP-430/2011, EM&A Report for Drainage Works under EP-277/2007/A and EM&A Report for Drainage Works at Ma Wat Wai.
- ES02. This is the second quarterly EM&A summary report for Advanced Works under EP-430/2011, covering the construction period of the Works from 1 December 2012 to 28 February 2013.
- ES03. The structure of this Report is as follows:

EXECUTIVE SUMMARY

- 1 *Introduction*
- 2 *Requirements for Construction Impact monitoring*
- 3 *Environmental monitoring Results*
- 4 *Solid and liquid Waste Management*
- 5 *Complaints, Notification of Summons and Successful Prosecution*
- 6 *Conclusions and Recommendations*

Annex

- Annex A Location plan for the Works*
- Annex B Environmental Management Organization and Communication Lines*
- Annex C Implementation Schedule for Environmental Mitigation Measures*
- Annex D Construction Program*
- Annex E Monthly Summary Waste Flow Table and Summary Table for Work Processes or Activities Requiring Timber for Temporary Works*

NON-CONFORMANCE WITH ENVIRONMENTAL REGULATIONS / STANDARDS

- ES04. No environmental monitoring was performed for the Advanced Works.
- ES05. No non-conformance with environmental regulations/standards was identified during the site inspection in the Reporting Period.

COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- ES06. No environmental complaints, notifications of summons and successful prosecutions were registered during the Reporting Period.

CONCLUSIONS

- ES07. Neither non-conformance with environmental regulations/standards nor written or verbal environmental complaints, notification of summons and successful prosecutions were recorded during the Reporting Period, indicating the implemented environmental mitigation measures were effective and efficient to alleviate adverse environmental impacts generated from the construction activities of the Works.

RECOMMENDATIONS

- ES08. Nevertheless, fully implementation of the required environmental mitigation measures is reminded, in particular construction dust suppression measures during dusty construction activities under dry and windy conditions, as well as water quality mitigation measures during rainy conditions.
- ES09. In addition, attention should also paid to implementation of the construction noise mitigation measures during noisy construction works.

1 BACKGROUND INFORMATION

1.1 REGULATION OF SHENZHEN RIVER STAGE 4

1.1.1 Changjiang Water Resources Protection Institute (長江水資源保護科學研究所) in association with ERM-Hong Kong Ltd was jointly commissioned by Shenzhen River Regulation Office of Shenzhen Municipal Government (深圳市治理深圳河辦公室) and Drainage Services Department of the HKSAR Government (hereinafter “DSD” or “the Engineer”) to undertake an environmental impact assessment study (hereinafter “the EIA”) for a construction project *Regulation of Shenzhen River Stage 4*. Layout Plan for the Project is shown in *Annex A*.

1.1.2 The *Regulation of Shenzhen River Stage 4* will be constructed under two separate contracts, Advanced Works within the HKSAR and River Modification Works within both the HKSAR and the Shenzhen Municipality, comprising:

- 1) Improvement of an approximately 4.5 km long section of Shenzhen River;
- 2) Re-provision of the boundary patrol road and about 4.5km of boundary fence affected by the Project;
- 3) Dry weather flow interception of the sewage discharging from Shenzhen side into the Project area; and
- 4) The associated landscaping works.

1.1.3 The construction programme proposed in the EIA is summarized in *Table 1-1* as follow

Table 1.1 Summary of Construction Programme for the Project

Item	Phase	Period	Duration	Works Description
1	Advanced Works	February 2012 to January 2015	36 months	Construction of boundary fence and boundary patrol road on HK side
2	Preparation Phase	March to July 2013	5 months	Tendering; land resumption
3	Reconstruction	August to September 2013	2 months	Construction of site access roads and site office, site clearance, site preparation works etc.
4	Construction	October 2013 to December 2016	39 months	Main construction works of the Project such as dredging of river sediment and soil excavation, construction of flood retardation pond, boundary fence and boundary patrol road on Shenzhen side, river modification works, dry weather flow interception works etc.
5	Post-construction	January to March 2017	3 months	Demolition of temporary structures, landscaping works etc.

1.2 DSD CONTRACT NO. DC/2011/06

1.2.1 Sang Hing Civil Contractors Company Limited (hereinafter “SHCCCL” or “the Contractor”) has been awarded by Drainage Services Department of the HKSAR Government (hereinafter “DSD” or “the Engineer”) since 31 March 2012 DSD Contract No. DC/2011/06 – Re-provisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District (hereafter “the Contract”).

1.2.2 The Contract comprises:

A. **Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan**, which is one of the two parts of Regulation of Shenzhen River Stage 4, i.e. the Advanced Works within the HKSAR to be implemented under Environmental Permit No. EP-430/2011 (hereinafter “EP-430/2011”) (hereinafter “the Advanced Works under EP-430/2011” or “the Works”). The Works include:

- 1) Reprovisioning of approximately 4.3 kilometres (km) long and 3.5 metres (m) wide boundary patrol road between Ping Yuen River and Pak Fu Shan;
- 2) Reprovisioning of approximately 4.3 km long primary boundary fence with associated lighting and Fence Protection System between Ping Yuen River and Pak Fu Shan;
- 3) Reprovisioning of the Hong Kong Police Force Lo Fong Bridge Post; and
- 4) Construction of about 3.3 km long secondary boundary fence.

B. **Drainage Works in North District to be implemented under Environmental Permit No. EP-277/2007/A**, which has been commenced in May 2012 and is scheduled to be completed by May 2013, including

- 1) Construction of about 400m of drainage channel at Man Uk Pin under Environmental Permit No. EP-277/2007/A (hereinafter “EP-277/2007/A”);
- 2) The associated ancillary works including drainage and landscaping works.

C. **Drainage Works in North District**, which is a non-designated project of drainage works at Ma Wat Wai in North District for construction of about 110 m of drainage channel at Ma Wat Wai.

1.2.3 Drawing of the area within the Works showing is shown in Annex A, whereas project organization, environmental management structure and communication lines, including contacts of key personnel under the Contract as well as the 3-monthly rolling program covering the Reporting Period are shown in **Annex B**.

1.2.4 Construction of the Advanced Works under EP-430/2011 has been commenced on 21 August 2012, and are scheduled to be completed in August 2014 within 29 months.

CONCURRENT PROJECTS IN THE VICINITY OF THE WORKS

1.3 The following projects are anticipated to be carried out concurrently in the vicinity of the Works:

- 1) The River Modification Works within HKSAR, which is part of the Regulation of Shenzhen River Stage 4 and to be implemented under EP-430/2011, is scheduled for commencement in mid-2013.
- 2) The development of the proposed Liantang/Heung Yuen Wai Boundary Control Point (hereinafter “the LT/HYW BCP”) and the associated works. It is anticipated that the construction of the LT/HYW BCP and connecting roads will commence at the end of 2013 and be completed in end 2018. The planned construction period for the resite of Chuk Yuen Village is from late 2010 to early 2012 for population intake by early 2013.
- 3) Construction of a Secondary Boundary Fence and New Sections of Primary Boundary fence and Patrol Road. Based on the advice from ArchSD, the latest tentative construction programme shall be from end 2011 to early 2013 (section from Ng Tung River to Ping Yuen River) and from end 2011 to end 2013 (section from Pak Fu Shan to Lin Ma Hang Road).
- 4) Drainage Improvement in Northern New Territories, Package C (Remaining Works). The construction work is scheduled to commence in late 2012 and completed by 2016.

CUMULATIVE ENVIRONMENTAL IMPACTS

1.4 As concluded in the EIA report for Regulation of Shenzhen River Stage 4, adverse environmental impacts generated from the River Modification Works within HKSAR are predicted to be minimal provided the required environmental mitigation measures are fully implemented.

1.5 There is a potential of cumulative environmental impacts during construction phase, including construction dust, noise, water quality, waste, ecology and landscape and visual, to be generated from the concurrent works LT/HYW BCP and the associated works as well as construction of a secondary boundary fence and new sections of primary boundary fence and patrol road.

1.6 However, as the schedules and programs of those concurrent projects are subject to private initiatives and market-driven factors, it is not possible to assess the cumulative impact at this stage.

1.7 On the other hand, the Drainage Improvement in Northern New Territories, Package C (Remaining Works) project is subject to another future detailed EIA Study and detailed construction program is not available to date. The cumulative impact cannot be assessed at this stage. However, since the drainage improvement works is located at about 500 m from the Site and given its nature and scale of works, adverse cumulative environmental impacts are not anticipated.

2 SUMMARY OF EM&A REQUIREMENTS FOR THE WORKS

2.1 CONSTRUCTION ACTIVITIES UNDER THE WORKS

2.1.1 Construction activities under the Works comprise:

- 1) Approximately 4,300 m of 3.5 m wide Boundary Patrol Road on filled embankment along the Shenzhen River from Ping Yuen River estuary and Pak Fu Shan, Ta Kwu Ling;
- 2) Approximately 4,300 m of Primary Boundary Fence with XPM mesh;
- 3) Approximately 3,300 m of Secondary Boundary Fence with XPM mesh;
- 4) Approximately 4,300 m of border security lighting system including the associated electrical and mechanical works;
- 5) 4 box culverts and 12 drainage pipes under the proposed Boundary Patrol Road, and the associated inlets and outlets;
- 6) Reconstruction of Lo Fong Bridge Post for Hong Kong Police Force;
- 7) Peripheral drainage system associated with the above items;
- 8) Irrigation systems including associated electrical and mechanical works;
- 9) Landscaping works and environmental mitigation works;
- 10) Other ancillary works associated with the above items;

- 2.1.2 The construction areas under the Works are divided into the following three portions:
- 1) Portion A – Area between CH_R 0+000 and 2+050 for reprovisioning of Boundary Patrol Road and the associated security facilities;
 - 2) Portion B – Area between CH_R 2+050 and 2+840 for reprovisioning of Boundary Patrol Road and the associated security facilities;
 - 3) Portion C – Area between CH_R 2+840 and 4+300 approximately for reprovisioning of Boundary Patrol Road and the associated security facilities;

2.2 EM&A REQUIREMENTS FOR THE WORKS

CONSTRUCTION PHASE

- 2.2.1 The EIA report has concluded that, with full implementation of the recommended environmental mitigation measures, adverse environmental impacts are not envisaged during construction and operation of the Works. No environmental monitoring is therefore required for air quality, noise, water quality, ecology, cultural heritage as well as landscape and visual throughout the whole construction phase of the Works.

OPERATIONAL PHASE

- 2.2.2 No environmental monitoring and audit is required during operational phase of the Works.

BASELINE ENVIRONMENTAL MONITORING

- 2.2.3 Baseline monitoring is required for establishment of the environmental quality criteria, i.e. Action/ limit Levels, for the River Modification Works under EP-430/2010. The baseline monitoring was conducted upon confirmation of the acquirement of all access to the monitoring locations for air quality including 1-Hr and 24-Hr TSP and construction noise.

ENVIRONMENTAL QUALITY PERFORMANCE CRITERIA

- 2.2.4 The Action and Limit Levels will be established and presented in the *Baseline Environmental Monitoring Report* to be submitted to EPD after completion and upon verification of the IEC, using the data obtained in the baseline environmental monitoring.

EVENT & ACTION PLAN

- 2.2.5 The Event and Action Plan (EAP) recommended in the EIA and summarized in the EM&A Manual will be used as a monitoring and response mechanism for handling exceedances of environmental standards during the construction phase of the River Modification Works in collaboration with relevant parties of other concurrent projects in the vicinity during construction of River Modification Works.

SITE INSPECTION

- 2.2.6 The ET will undertake site inspection of on-site practices and procedures each month. Joint site inspection is required to be conducted by related parties of the environmental management to verify the implementation status and evaluate the effectiveness and stability of the environmental mitigation measures, in collaboration with relevant parties of other concurrent projects in the vicinity.
- 2.2.7 Details of the scope and range of issues to be designed and addressed in the site inspection are presented in *Section 6* of this Report.

ENVIRONMENTAL REPORTING OF THE WORKS

- 2.3 In order to ease environmental reporting of the Contract, it has been agreed among the Engineer, IEC, Contractor and ET that the environmental reporting for the Contract is split into three stand-alone reports, namely Environmental Report for Advanced Works under EP-430/2011, EM&A Report for Drainage Works under EP-277/2007/A and EM&A Report for Drainage Works at Ma Wat Wai. They will be prepared and submitted separately.
- 2.4 This is the second quarterly EM&A summary report for the Works (herein after “this Report”), covering construction period from 1 December 2012 to 28 February 2013(hereinafter “the Reporting Period”).

3 DATA MANAGEMENT AND DATA QA/QC CONTROL

- 3.1 The impact monitoring data is handled by the ET’s systematic data recording and management, which complies with an in-house certified (ISO 9001:2000) Quality Management System. Standard Field Data Sheets (FDS) are used in the EM&A program.
- 3.2 The monitoring data recorded in the equipment e.g. 1-Hour TSP meters and noise meters are downloaded directly at the end of each monitoring day. The downloaded monitoring data are input into a computerized database properly maintained by the ET. The laboratory results are input directly into the computerized database and QA/QC checked by personnel other than those who input the data.
- 3.3 For monitoring activities which require laboratory analysis, the responsible laboratory, ALS, follows the QA/QC requirements as set out under their HOKLAS scheme for all laboratory testing.

4 ENVIRONMENTAL LICENSES AND PERMITS

4.1 Status of environmental licenses and permit is summarized in the following *Table 4-1*.

Table 4-1 Status of Environmental Licenses and Permit

Permit Type	Licenses / Permit No.	Date Issued by EPD	Expiry Date	Concerned Location	Status
Environmental Permit	EP-430/2011	09 July 2007	N.A.	Ping Yuen River	Valid
Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (APCO) (Construction Dust) Regulation	N.A.	N.A.	N.A.	Contract Area: Man Uk Pin, Ma Wat Wai & Ping Yuen River	Notification was made on 28 May 2012
Account for Disposal of Construction Waste	7015003	07 May 2012	N.A.	Contract Area: Man Uk Pin, Ma Wat Wai & Ping Yuen River	Valid
Application for Wastewater Discharge License under Water Pollution Control Ordinance (WPCO)	W5/1G41/1	3 October 2012	31 October 2017	Portions A, B and C near Lin Ma Hang Road, Ta Kwu Ling, N.T.	Valid
Register as a Chemical Waste Producer under Waste Disposal Ordinance	5123-642-S3565-03	3 October 2012	N.A.	3 October 2012	N.A.

SUBMISSION OF LAYOUT PLANS

4.2 Pursuant to *Clause 2.7* of EP-430/2011, 3 sets of the Layout Plans of scale 1:1000 with an explanatory statement detailing the works schedule, works boundary and the works areas have been submitted since 21 July 2012 to the Director of Environmental Protection of the HKSAR Government (hereinafter “DEP”) upon certification by the ET Leader and verification by the Independent Environmental Checker (hereinafter “the IEC”) as confirming to the information and recommendations contained in the EIA report.

SUBMISSION OF LANDSCAPE PLAN

4.3 Pursuant to *Clause 2.8* of EP-430/2011, 3 sets of the Landscape Plan have been submitted to the Director of Environmental Protection of the HKSAR Government (hereinafter “DEP”) since 21 July 2012 upon certification by the ET Leader and verification by the IEC as confirming to the information and recommendations contained in the approved EIA report.

SUBMISSION OF UPDATED ENVIRONMENTAL MONITORING AND AUDIT MANUAL

4.4 Pursuant to *Clause 2.10* of EP-430/2011, an updated environmental monitoring and audit manual for the Project, namely Updated EM&A Manual for Advanced Works under EP-430/2011 (hereinafter “the Updated EM&A Manual”), has been submitted since 21 May 2012 to the DEP upon certification by the ET Leader and verification by the Independent Environmental Checker (hereinafter “the IEC”) as confirming to the information and recommendations contained in the approved EIA report.

CONSTRUCTION ACTIVITIES

- 4.5 Major construction activities are detailed in the construction program enclosed in *Annex D*, including:
- 1) Pruning, felling and transplanting of existing trees;
 - 2) Setting out of structure /fence/gate, underground utility detection and laying of blinding layer;
 - 3) Construction of base slabs, wall stems, drain pipe, box culvert and deep well;
 - 4) Installation of drain pipe and the associated manholes, extension of existing drain pipe;
 - 5) Temporary road diversion, filling works, road works and installation of temporary fence footing, fill rock embankment for eroded portion, road formation, pavement and EMSD cable diversion;
 - 6) Construction of wheel washing bay at Gate 58 and CH1+800;
 - 7) Construction of primary and secondary fence footing;
 - 8) Fill between security fence footing; and
 - 9) Erection of permanent security fence;

EM&A ACTIVITIES

BASELINE MONITORING AND ESTABLISHMENT OF ENVIRONMENTAL QUALITY CRITERIA

4.6 The baseline environmental monitoring of air quality and construction noise for the River Modification Works within the HKSAR was completed and the associated environmental quality criteria, i.e. A/L

Levels of the monitored parameters, has been proposed in the baseline monitoring report, which was submitted to EPD upon verification by the IEC.

IMPACT MONITORING

4.7 No environmental monitoring was conducted during the Reporting Period.

5 WASTE MANAGEMENT

5.1 Pursuant to the Updated EM&A Manual, the waste management during the Reporting Period was carried out in close accordance with the Waste Management Plan, which has been submitted since 20 August 2012 to the Engineer for approval prior to commencement of the Works upon certification by the ET Leader and verification by the IEC.

5.2 The quantity of waste for disposal or reuse during the Reporting Period was summarized in Monthly Summary of Waste Flow Table and Disposal Records of Construction Waste in **Annex K**.

5.3 To ensure satisfactory performance of the waste management, the Contractor is reminded to comply with all relevant regulatory waste management requirements, including as appropriate those stipulated in the effluent discharge licenses and chemical waste producer registration, etc. The Contractor is also required to fully implement all the waste management mitigation measures recommended in the Updated EM&A Manual.

5.4 Where possible, construction materials should be reused on-site as far as practicable to reduce the construction waste, which should then be sorted or classified on site for proper recycling and disposal as recommended in the Environmental Management Plan and the associated Waste Management Plan.

6 SITE INSPECTION

6.1 Monthly site inspection was jointly conducted by representatives of the Engineer, IEC, ET and Contractor. During the Reporting Period, three occasions of the site inspection and audit were conducted on **6 December 2012**, **3 January** and **26 February 2013** respectively.

FINDINGS/DEFICIENCIES OF THE SITE INSPECTION AND ENVIRONMENTAL AUDIT

6.2 Findings or deficiencies identified during the site inspection are summarized in **Table 6-1**.

Table 6-1 Observations of Site Inspection during the Reporting Period

Date	Findings / Deficiencies	Follow-Up
6 December 2012	Excavation activities were undertaken near Gate 54. No adverse environmental impacts were observed, except mud trails found on the public road. Although the sources of the mud trails were not identified, the Contractor was requested to promptly clear the mud. In addition, the Contractor was reminded of full implementation of the required environmental mitigation measures, in particular wheel washing of the construction vehicles prior to exit the site.	The mud trails were cleared.
3 January 2013	a. Excessive turbidity was observed in the discharge of sedimentation tank after pre-treatment of groundwater which was accumulated at Retaining Wall construction site within Portion C. Improvement of the sedimentation is required to comply with the requirements of Discharge License. b. Submerge pump and the associated generator was observed at Retaining Wall construction site within Portion C. Special attention is drawn to requirements of Construction Noise Permit for construction activities, including operation of submerge pump and generator within restricted hours i.e. 19:00 to 07:00 of the next morning and on public holidays including Sundays. c. No noise label was demonstrated on the generator used for pumping water. Noise label is required.	a. Turbid water was not observed. b. The submerged pump was not to be operated during restricted hours. c. Noise label was supplemented.
26 February 2013	Stock piles of construction materials were observed near river, posing potential of adverse water quality impacts on the river water quality. Covering of the stock piles with tarpaulin sheet is required or removal of the stock piles from the river side is reminded	Situation was rectified by the next inspection.

6.3 Site inspection checklists completed and endorsed by all related parties are kept by the ET and are available for inspection upon request.

DISCUSSION AND CONCLUSION

6.4 No deficiencies and non-compliance with the relevant regulatory requirements were identified during the regular site inspection and environmental audit, indicating no adverse environmental impacts were generated from the construction of the Works.

RECOMMENDATION

6.5 Although no adverse environmental impacts were identified during the regular site inspection and environmental audit conducted by representatives of the Engineer, IEC, ET and Contractor, full implementation of the recommended environmental mitigation measures, particularly construction dust suppression measures e.g. watering during dusty activities under dry and windy conditions, as well as sedimentation of the site run off during rainy conditions, are reminded.

7 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

7.1 No environmental complaint was received during the Reporting Period. Summary of environmental complaint is presented in **Table 7-1** below.

Table 7-1 Summary of Environmental Complaints

Reporting Month	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
August 2012 to November 2012	0	0	Not Applicable
December 2012 to February 2013	0	0	Not Applicable

7.2 No summons and prosecution was received during the Reporting Period. Summary of summon and prosecution is presented in **Table 7-2** and **Table 7-3** below.

Table 7-2 Summary of Environmental Summons

Reporting Month	Environmental Summons Statistics		
	Frequency	Cumulative	Nature
August 2012 to November 2012	0	0	Not Applicable
December 2012 to February 2013	0	0	Not Applicable

Table 7-3 Summary of Environmental Prosecution

Reporting Month	Environmental Prosecution Statistics		
	Frequency	Cumulative	Nature
August 2012 to November 2012	0	0	Not Applicable
December 2012 to February 2013	0	0	Not Applicable

8 IMPACT FORECAST

KEY ENVIRONMENTAL ISSUES

8.1 Potential environmental issues to be considered in the coming month include:-

- (a) Air quality In dry season under dry and windy conditions, dusty construction activities may generate potential construction dust impacts and dry/loose/exposure soil surface/stock piles of dusty material within the site may pose fugitive dust under dry and windy weather conditions;
- (b) Water quality In wet season, surface runoff during heavy storm/rain may pollute the surrounding water bodies with high suspended solids or turbidity, and concrete washing may increase alkalinity or pH value of the water bodies;
- (c) Chemical waste Oil & grease spillage or leakage from construction equipment and the associated oil containers within site areas may contaminate lands or other environment;
- (d) Construction Noise Construction noise impacts may be caused from noisy construction activities;

ENVIRONMENTAL MITIGATION MEASURES FOR THE COMING MONTH

8.2 Environmental Mitigation Measures to be considered in the coming month includes:-

- (a) Dust suppression measures, in particular proper watering during dusty construction activities under dry and dusty conditions, should be fully implemented;

- (b) Sedimentation or silt removal facilities of adequate capacity should be used, for proper treatment of any site effluent generated from stockpiles of construction materials/waste or dusty haul roads or excavated surfaces within the site during storm rain, prior to discharge to nearby water bodies in order to remove suspended solids or turbidity;
- (c) Good management of chemical wastes should be maintained;
- (d) Follow-up actions for any defects identified during regular site inspection should be promptly taken to rectify the situation; and
- (e) As high noise levels were sometimes recorded during the Reporting Period, special attention is drawn to implementation of the construction noise mitigation measures during noisy construction works.

9 CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

- 9.1 No environmental monitoring was conducted during the Reporting Period.
- 9.2 No non-compliance with the regulatory requirements was recorded in the IEC and ET regular site inspection jointly conducted by representatives of the Engineer, IEC, ET and Contractor during the Reporting Period, indicating no adverse environmental impacts were generated from construction activities under the Works during the Reporting Period.
- 9.3 Defects of minor environmental significance were sometimes observed. The identified defects were normally rectified on site or within the specified time prior to the next site inspection.
- 9.4 No environmental complaint, notification of summons or successful prosecution was registered during the Reporting Period.

RECOMMENDATION

- 9.5 The Contractor is reminded to fully comply with all the relevant regulatory environmental requirements, including environmental mitigation measures stipulated in all the environmental ordinances, EM&A Manual, EMP and the associated WMP, effluent discharge license and the chemical waste producer registration, etc.
- 9.6 Attention is drawn to implementation of air quality mitigation measures, in particular construction dust suppression measures during dusty construction activities under dry and windy conditions.
- 9.7 In addition, full implementation of the required water quality mitigation measures is reminded to eliminate adverse water quality impacts generated from site water runoff, surfaces of haul roads, stock pile of excavated materials, etc.
- 9.8 Attention is also drawn to implementation of the construction noise mitigation measures during noisy construction works.

ANNEX A

LOCATION PLAN FOR THE WORKS

Key

 Project Area

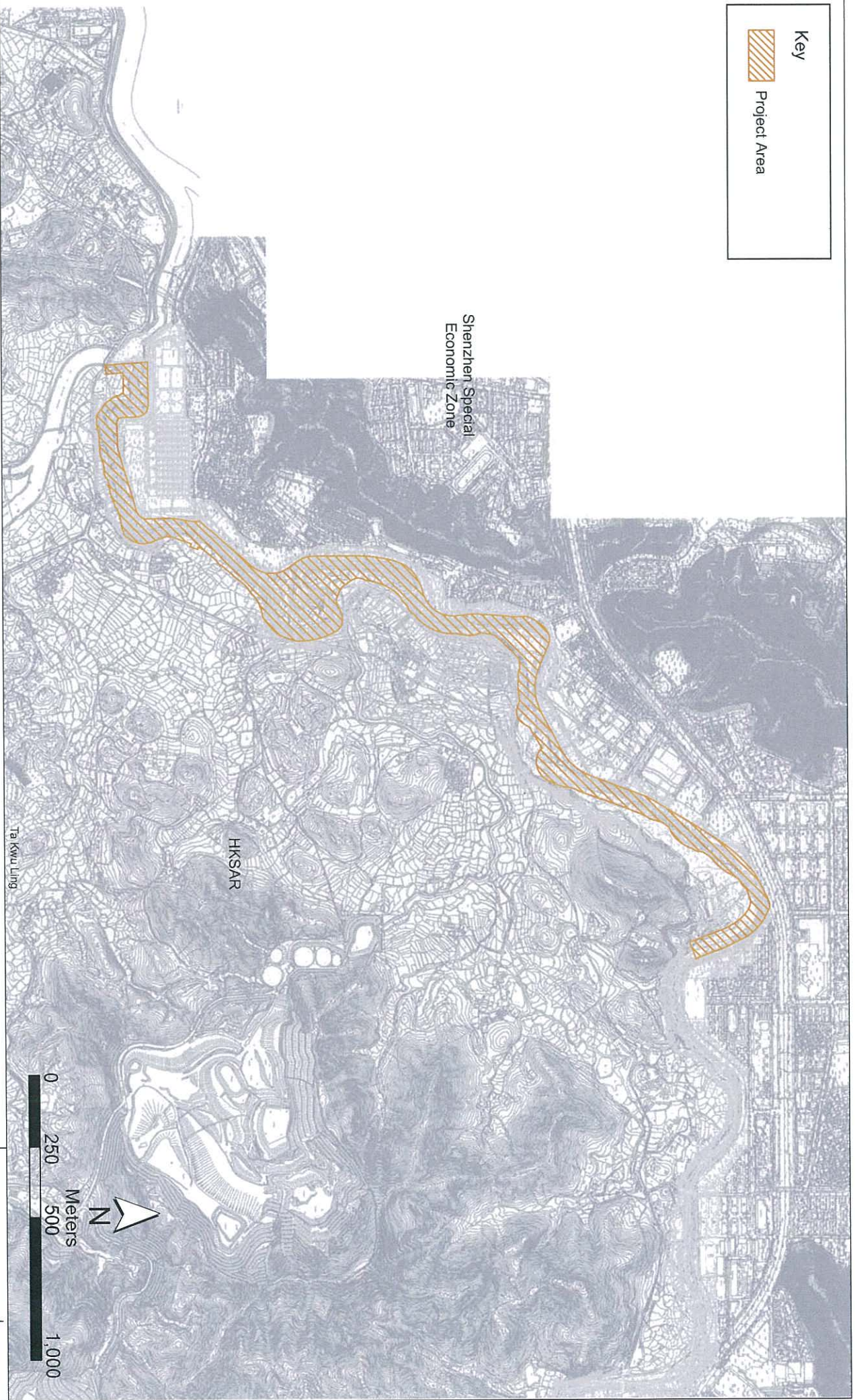
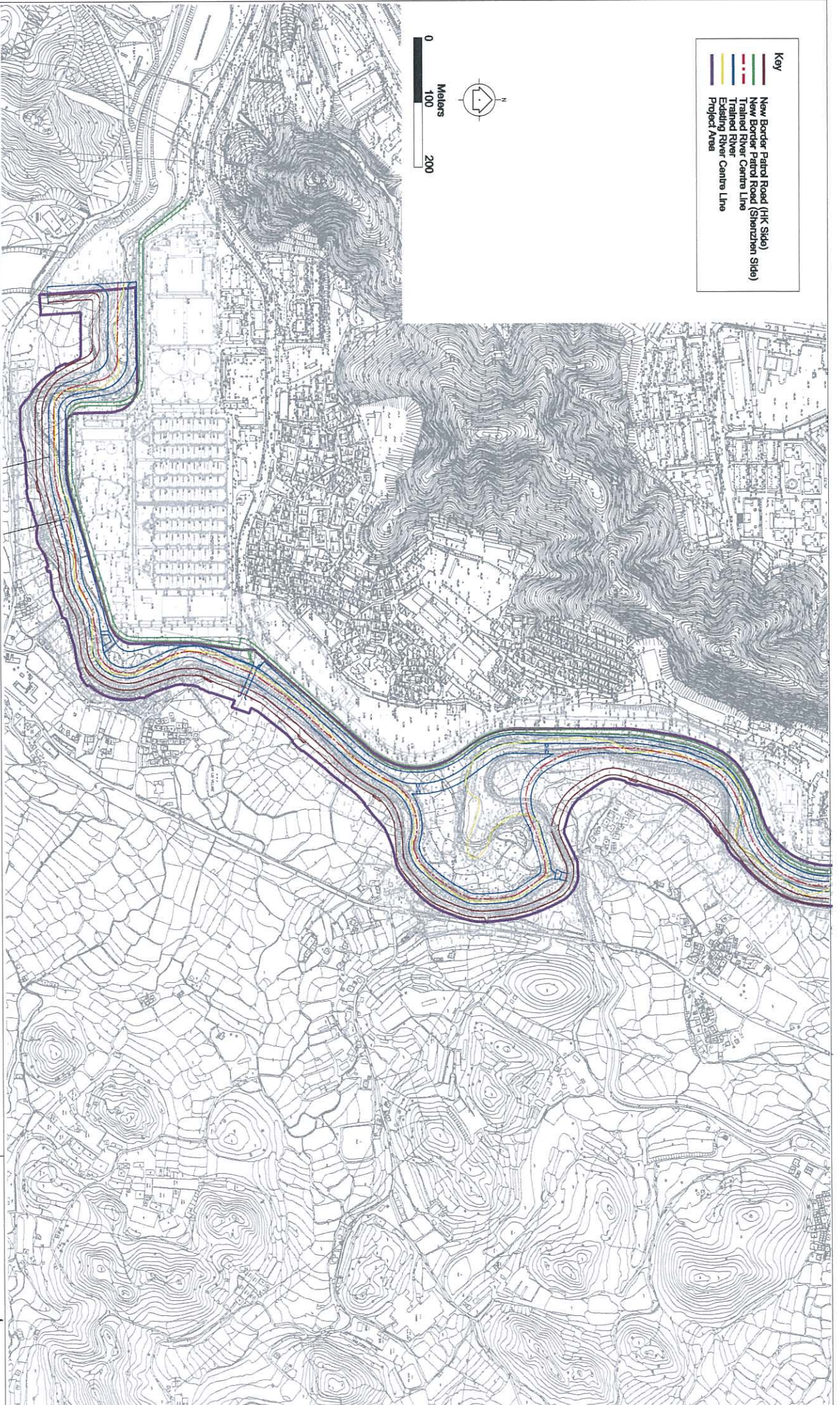


Figure A1-1

Location of Project Site



- Key**
- New Border Patrol Road (HK Side)
 - New Border Patrol Road (Shenzhen Side)
 - Trained River Centre Line
 - Existing River Centre Line
 - Project Area

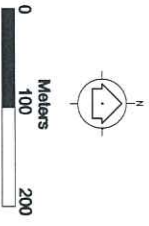
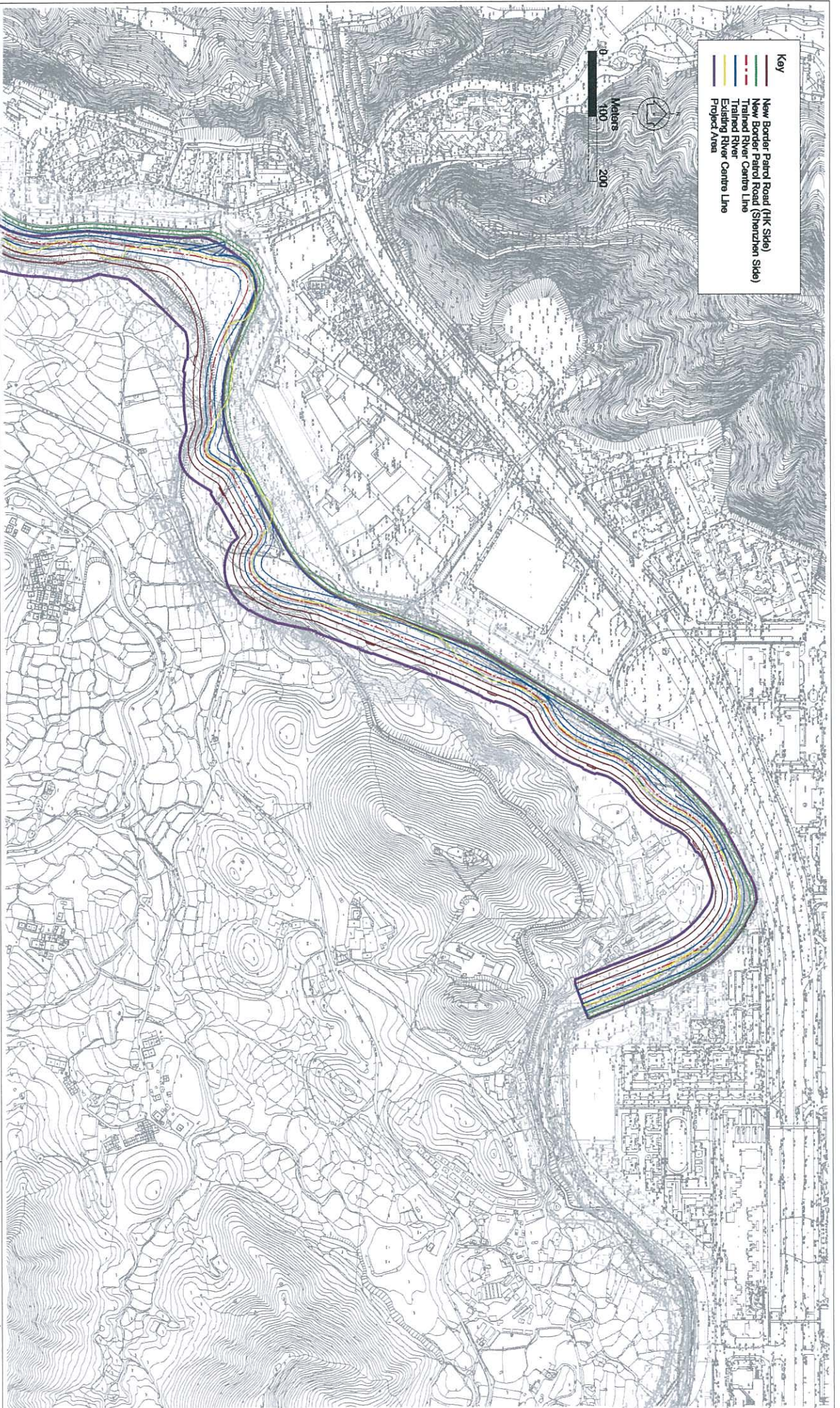


Figure A1-2

**General Layout and Extent of the Trained River
(1 of 2)**



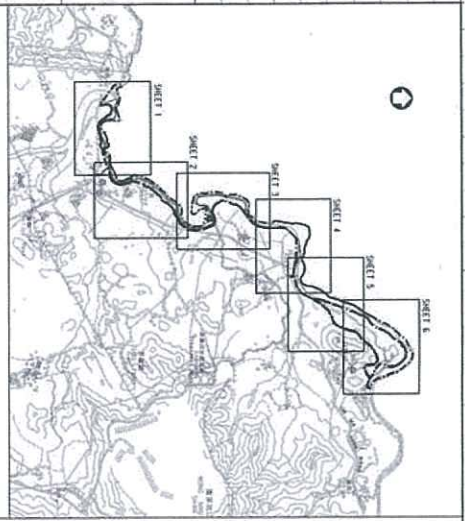
- Key**
- New Border Patrol Road (HK Side)
 - New Border Patrol Road (Shenzhen Side)
 - Trained River Centre Line
 - Existing River Centre Line
 - Project Area

0 100 200
Meters

Figure A1-2

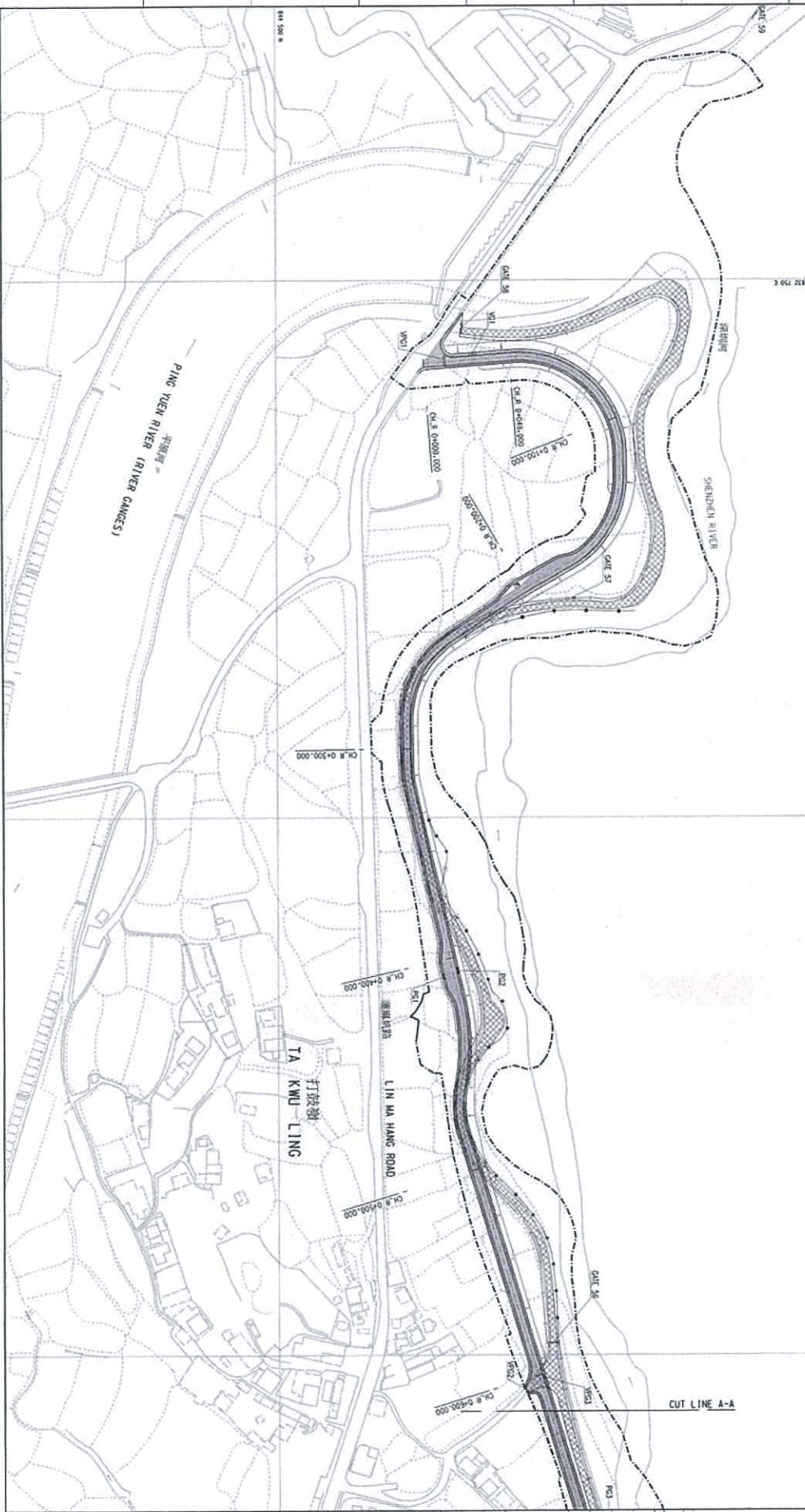
**General Layout and Extent of the Trained River
(2 of 2)**

FILE: 0101726M1-3.dwg
DATE: 23/10/2009



LOCATION PLAN
SCALE 1:20000

深圳市
SHENZHEN SHI



NOTES:

1. CHAIN LINKS ARE HONG KONG GRID 1980.
2. ALL LENGTHS ARE IN METRES AND REFERRED TO N.T.P.D.

LEGEND:

- LIMIT OF THE SITE
- EXISTING BOUNDARY PATROL ROAD
- EXISTING BOUNDARY PATROL ROAD TO BE RECONSTRUCTED
- PROPOSED BOUNDARY PATROL ROAD
- PROPOSED PAVEMENT PRIMARY
- PROPOSED PAVEMENT SECONDARY
- EXISTING BOUNDARY FENCE AND ASSOCIATED LAMP POST AND PILLAR BOX
- EXISTING BOUNDARY FENCE AND ASSOCIATED LAMP POST AND PILLAR BOX TO BE DEMOLISHED
- PROPOSED BOUNDARY FENCE AND ASSOCIATED LAMP POST AND PILLAR BOX
- EXISTING CHAIN LINK FENCE TO BE DEMOLISHED
- EXISTING CHAIN LINK FENCE TO BE RECONSTRUCTED
- PROPOSED CUT SLOPE
- PROPOSED FILL SLOPE
- CH. A 0+100.000 CHAINAGE FROM BOUNDARY ROAD
- PROPOSED VENTILATION AND RESTRICTION GATE 192(1)
- PROPOSED RESTRICTION GATE 192(1)
- EXISTING GATE
- EXISTING GATE TO BE DEMOLISHED
- PILLAR BOX
- SWITCH ROOM

NO.	DATE	DESCRIPTION	INITIAL
1	28 NOV 2011	DESIGNED	C. T. CHAN
2	28 NOV 2011	CHECKED	W. H. LIU
3	28 NOV 2011	APPROVED	W. H. NG

No. Chief Engineer: *[Signature]* Date: 28 NOV 2011
 Contract no. DC/2011/06
 File no. DP/8/5018/CB
 Project no. 5018/CB

REPRODUCTION OF BOUNDARY PATROL ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING YUEN RIVER AND PAK FU SHAN AND DRAINAGE WORKS IN NORTH DISTRICT

drawing title: GENERAL LAYOUT
 drawing no.: DDP/DC/1106/11021
 scale: 1:1,000

OFFICE: DRAINAGE SERVICES DEPARTMENT
 GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION

DRAINAGE SERVICES DEPARTMENT
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DRAINAGE PROJECTS DIVISION

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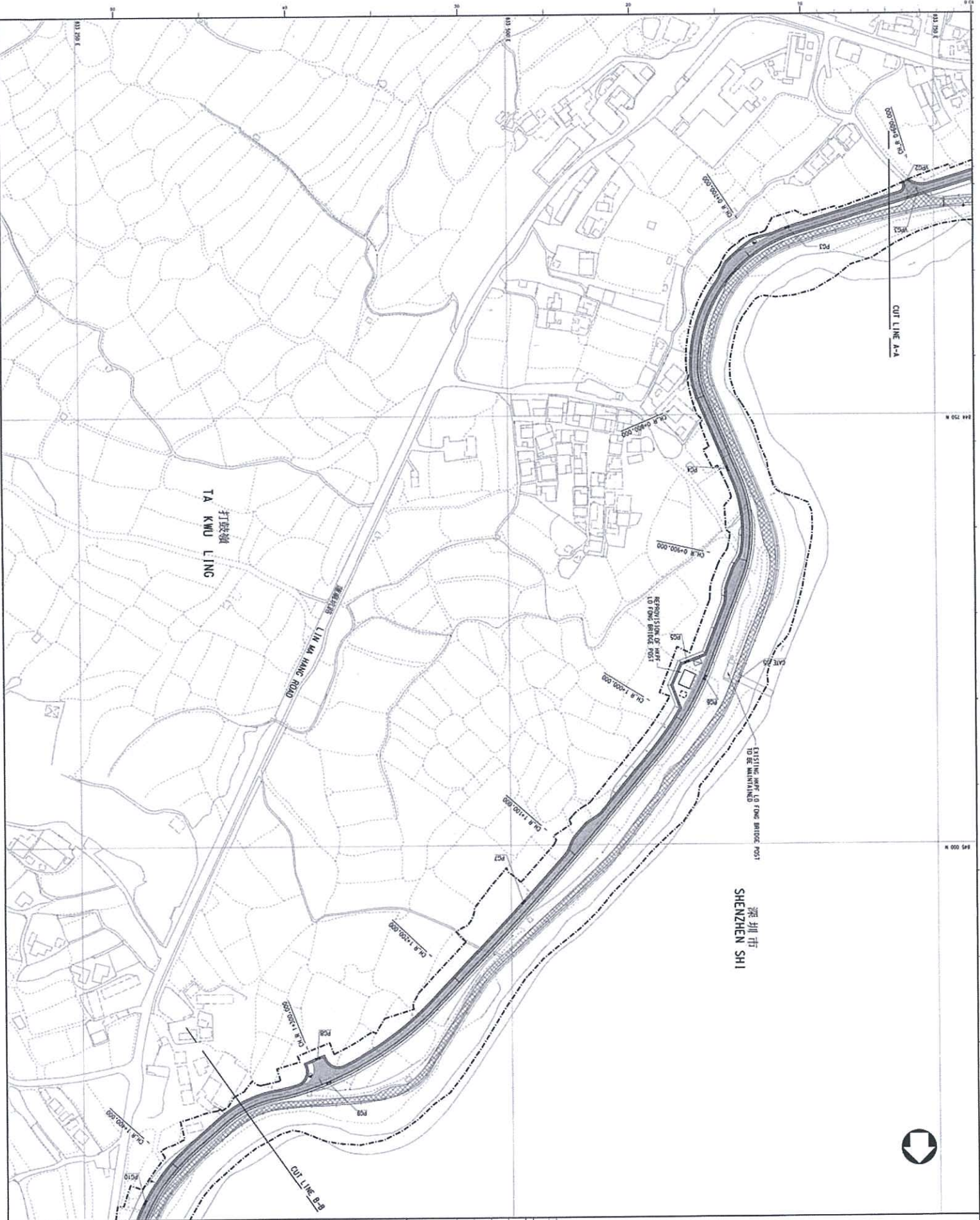
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NOTES:
1. FOR GENERAL NOTES & LEGEND, REFER TO DRG. NO. DS/2011/001.

NO.	DATE	DESCRIPTION	INITIALS
1	28 NOV 2011	DESIGN	
2	28 NOV 2011	DESIGN	
3	28 NOV 2011	DESIGN	
4	28 NOV 2011	DESIGN	
5	28 NOV 2011	DESIGN	

Ag. Chief Engineer
S. L. LING
28 NOV 2011
28 NOV 2011

contract no. DC/2011/05
file no. DP/8/5018CB
project no. 5018CB

REPROVISIONING OF BOUNDARY PATROL ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING TSEN RIVER AND PAK TSI WAI DRAINAGE WORKS IN NORTH DISTRICT

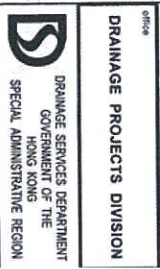
drawing title
GENERAL LAYOUT

(SHEET 2 OF 5)

drawing no. DDP/DC1106/11022
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Dwg. No. DP/DC1106/11023.

NO.	DATE	DESCRIPTION	INITIAL
1	28 NOV 2011	DESIGN	
2	28 NOV 2011	CHECKED	
3	28 NOV 2011	APPROVED	

DESIGNED: F. S. CHAN
DRAWN: L. M. LIU
CHECKED: K. M. NGAN
VERIFIED: S. C. LAU
APPROVED: [Signature]
As Chief Engineer
DATE: 28 NOV 2011

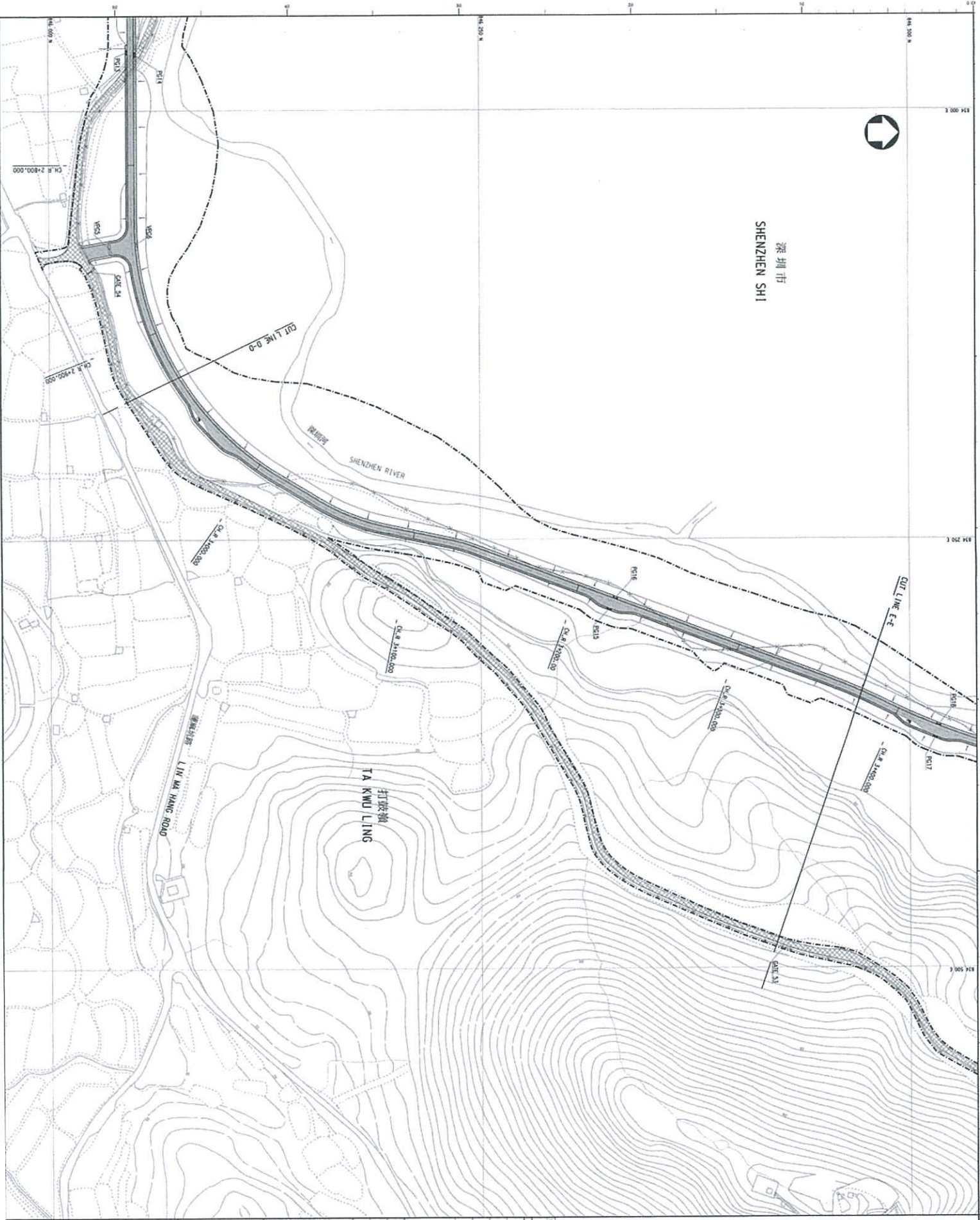
contract no. DC/2011/05
file no. DP/8/501808
project no. 501808
contract

REPRODUCTION OF BOUNDARY PATROL ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING TUEN RIVER AND PAK FU SHAN AND DRAINAGE WORKS IN NORTH DISTRICT

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DPP, NO. DP/DC/1106/11025.

NO.	DATE	DESCRIPTION	INITIAL
1		DESIGNED	C. F. CHAN
2		DRAWN	L. M. LEE
3		CHECKED	M. H. NG
4		VERIFIED	L. L. YAU
5		APPROVED	[Signature]

Ag. Chief Engineer
 Contract no. DC/2011/05
 file no. DP/8/501808
 project no. 501808

REPROVISIONING OF BOUNDARY PATROL ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING TIER RIVER AND PAK FU SHAN AND DRAINAGE WORKS IN NORTH DISTRICT

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NO.	DATE	DESCRIPTION	INITIAL
1		DESIGNED	
2		DRAWN	
3		CHECKED	
4		APPROVED	

Ag. Chief Engineer
 28 NOV 2011
 DATE

contract no. DC/2011/06
 H/S no. DP/8/501808
 project no. 501808

REPROVISIONING OF BOUNDARY PATROL ROAD AND ASSOCIATED SECURITY FACILITIES BETWEEN PING VIEN RIVER AND PAK TU SHAN AND DRAINAGE WORKS IN NORTH DISTRICT

drawing title
 GENERAL LAYOUT

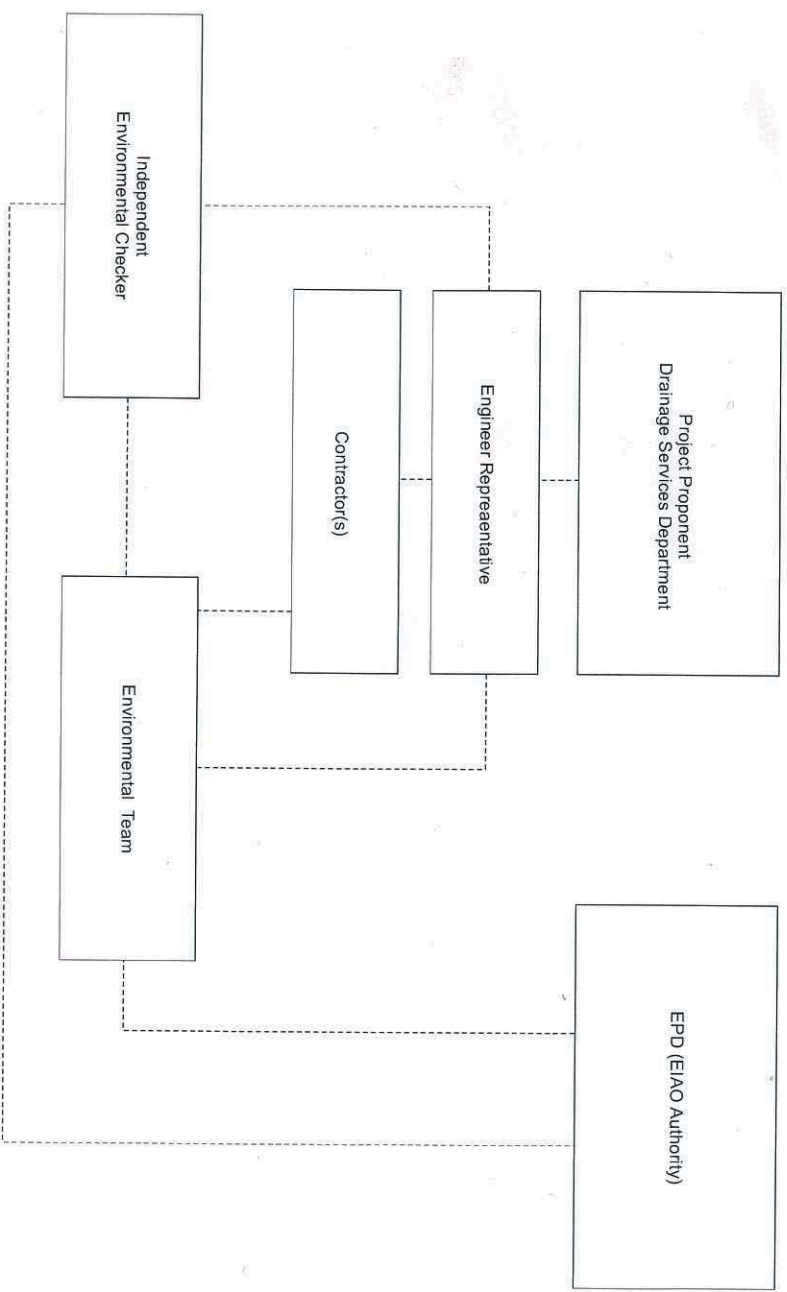
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 scale 1:1,000

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ANNEX B

***ENVIRONMENTAL MANAGEMENT ORGANIZATION
AND COMMUNICATION LINES***



Key
----- Line of Communication

EM&A Organisation Chart

KEY CONTACT INFORMATION UNDER THE CONTRACT

Contact Details of Key Personnel

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Project Proponent / Employer	Mr. Eric Y. M. Cheng	2594-7341	2827-8700
Environ	Independent Environmental Checker	Mr. Roger W. K. Leung	3743-0754	3548-6988
CHCC	Project Manager	Mr. Raymond Yau	2403 1165	2403 1165
SHCC	Site Agent	Mr. Elvin Lam	2640 9286	2640 9286
AUES	Environmental Team Leader	Mr. T. W. Tam	2959-6059	2959-6079
AUES	Senior Environmental Consultant	Mr. Wong Fu Nam	2959-6059	2959-6079
AUES	Environmental Team Supervisor	Mr. Ben Tam	2959-6059	2959-6079

Project Proponents' Contact Numbers

Project Proponent	The Engineer	Telephone Number	Fax Number	24-Hour Hotline
DSD	Mr. Poon W. H.	2594 7450	2827 8700	6770 3827

24-Hour Hotline Telephone Number for the Public to Make Enquiries

24-Hour Hotline
6770 3827

Legends:

DSD (Project Proponent / Engineer) – Drainage Services Department

SHCC (Main Contractor) – Sang Hing Civil Constructors Co., Ltd

Environ (IEC) – Environ Hong Kong Limited

AUES (ET) – Action-United Environmental Services & Consulting

ANNEX C

**IMPLEMENTATION SCHEDULE
FOR ENVIRONMENTAL MITIGATION MEASURES**

Annex D Implementation Schedule for Environmental Protection Measures

EIA Ref.	Environmental Protection Measures	Location/Duration of Measures/Timing of Completion of Measures	Implementati on Agent	Implementation Stage			Relevant Legislation & Guidelines
				Des C	Post-C	O	
1. Air Quality							
S4.8	<p>Dust control measures stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions. In particular:</p> <ol style="list-style-type: none"> i. Water spraying on haul roads and dusty areas for every hour during construction; ii. Covering the stockpile areas of at least 70% area with tarpaulin sheet or impervious sheet; iii. Covering of dusty materials/spoils on trucks by impervious sheets; iv. Controlling the dropping height of fill materials; v. Covering or storing all debris and materials in a sheltered debris collection area; vi. Storing dredged sediment in a separate enclosed tank; and vii. Providing wheel washing facility at each exit of the works site. 	Whole Site / During Construction	Contractor	✓			Air Pollution Control (Construction Dust) Regulation
S4.8	Site practices such as regular maintenance and checking of the diesel powered mechanical equipment will be adopted to avoid any black smoke emissions and to minimize gaseous emissions.	Whole Site / During Construction	Contractor	✓			
2. Construction Noise							
S5.8	<p>The following site practices should be followed during the construction of the Project:</p> <ol style="list-style-type: none"> i. Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction phase; ii. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction phase; iii. Mobile plant, if any, should be sited as far from NSRs as possible; iv. Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; v. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and vi. Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 	Whole Site / During Construction	Contractor	✓			
S5.8	Use quiet PME as far as practicable to mitigate the construction noise impacts.	Whole Site / During Construction	Contractor	✓			
S5.8	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. With reference to A Practical Guide for the Reduction of Noise from Construction Works, the noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Works Area III and IV/ During Construction	Contractor	✓			A Practical Guide for the Reduction of Noise from Construction Works

S5.8	Scheduling of construction activities with identified grouping of PMEs.	Works Area III / During Construction	Contractor	✓			
S5.10	Monthly site inspection and audit of construction activities.	Whole Site / During Construction	ET & IEC	✓			EIAO
3. Water Quality							
S6.8	Maximum loss rate during the wet excavation should be kept at or below the limits specified in the EIA Report.	Excavation area / During Construction	Contractor	✓			
S6.8	<i>Construction Site Runoff and Drainage</i> Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in Appendix A1 of ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Land Site / During Construction	Contractor	✓			ProPECC PN 1/94 TM standard under the WPCO
S6.8	Non-active area along the river bank will be covered by impermeable sheets or hydroseeding completed sections immediately whenever possible to minimise erosion of soil by runoff particularly during heavy rainstorms	River bank / During Construction	Contractor	✓			
S6.8	Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.	Land Site / During Construction	Contractor	✓			
S6.8	Appropriate surface drainage will be designed and provided where necessary. In particular, surface runoff will be collected along the river bank and be diverted to sedimentation tank/pond before being discharged into the river.	Land Site / During Construction	Contractor	✓			
S6.8	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.	Land Site / During Construction	Contractor	✓			ProPECC PN 1/94 TM
S6.8	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land Site / During Construction	Contractor	✓			
S6.8	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of storm flows	Land Site / During Construction	Contractor	✓			
S6.8	The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land Site / During Construction	Contractor	✓			
S6.8	An adequate number of portable toilets will be provided for the on-site construction workforce. Wastewater/sewage will be handled by registered collector in Hong Kong.	Whole Site / During Construction	Contractor	✓			
S6.8	Debris and refuse generated on-site will be collected, handled and disposed of properly to avoid entering the nearby WSRs. Stockpiles of cement and other construction materials will be covered when not being used.	Whole Site / During Construction	Contractor	✓			
S6.8	Oil leakage or spillage will be contained and clean up immediately. Waste oil will be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	Whole Site / During Construction	Contractor	✓			Waste Disposal Ordinance

4. Terrestrial Ecology									
S7.11	Avoid potential impacts on the trees whenever possible during the detailed design stage. The retained trees will be fenced off as protection from the construction works. If the trees cannot be avoided due to the engineering constraint, the affected individual(s) will be transplanted to compensatory woodland planting site near Pak Fu Shan or a similar habitat in the vicinity of the Project Site if considered suitable (subject to the detailed assessment of the feasibility of transplantation).	Whole Site / During Construction	Contractor	✓	✓				
S7.11	A detailed vegetation survey on the trees within the impacted area would be conducted by a suitably qualified botanist/ ecologist to identify and record the affected individuals prior to the commencement of site clearance works. Feasibility and suitability of transplanting the affected plant species of conservation interest would be carefully studied and suitable receptor sites would be identified during Tree Felling Application.	Whole Site / During Construction	Contractor	✓	✓				
S7.11	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	Whole Site / During Construction	Contractor	✓	✓				
S7.11	Regularly check the Site boundaries to ensure that they are not breached and that no damage occurs to surrounding areas Whole Site / During	Whole Site / During Construction	Contractor	✓	✓				
S7.11	Prohibit and prevent open burning within the site boundary during construction and provide temporary fire fighting equipment in the work areas.	Whole Site / During Construction	Contractor	✓	✓				
S7.11	Reinstate temporary work sites/disturbed areas immediately after completion of the construction works	Whole Site / During Construction	Contractor	✓	✓				
S7.11	Provide additional stream/river habitat with natural bottom (~2.1 ha) after the advanced works	Whole Site / During Construction	Contractor	✓	✓				
S7.14	Adopt proper ecological design for the landscape works along the river banks, including the floodplain (the 1.9ha marshy low-lying grassland will be reinstated in the floodplains at Hong Kong side.	Along river bank and water retardation pond / During Design Stage	Designer(s)	✓					
S7.14	The implementation of landscape works (including compensatory planting) adopting ecological design at Hong Kong side shall be monitored.	Whole Site / During Construction	Designer(s)		✓				
S7.14	One-year bird monitoring programme shall be conducted to monitor the effectiveness of the re-provisioned/reinstated habitats	Operation	Project Proponent/ Contractor					✓	
5. Waste Management									
S9.6	<u>General</u> The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges	Contract mobilisation / During construction	Contractor	✓					Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; WBTC No 5/99, Trip ticket System for Disposal of Construction and Demolition Material; Water Pollution Control Ordinance

S9.6	Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the Project Site	Contract mobilisation / During construction	Contractor	✓		
S9.6	Training shall be provided to site personnel in proper waste management and chemical handling procedures, the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	Contract mobilisation / During construction	Contractor	✓		
S9.6	Provision of sufficient waste disposal points and regular collection for disposal.	Whole Site / During Construction	Contractor	✓		WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness. Works Bureau, Hong Kong SAR Government
S9.6	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers	Whole Site / During Construction	Contractor	✓		
S9.6	Separation of chemical wastes for special handling and appropriate Treatment Chemical Waste Treatment Centre at Tsing Yi.	Whole Site / During Construction	Contractor	✓		Waste Disposal (Chemical Waste) (General) Regulation
S9.6	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors	Whole Site / During Construction	Contractor	✓		
S9.6	A recording system for the amount of wastes generated/recycled and disposal sites.	Whole Site / During Construction	Contractor	✓		
S9.6	<i>Waste Reduction Measures</i> i. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal. ii. Encourage collection of aluminium cans and waste paper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce. iii. Any unused chemicals and those with remaining functional capacity will be recycled as far as possible	Whole Site / During Construction	Contractor	✓		WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness
S9.6	iv. Use of reusable non-timber formwork to reduce the amount of C&D materials	Whole Site / During Construction	Contractor	✓		Works Branch Technical Circular (WBTC) No.32/92, The Use of Tropical Hard Wood on Construction Site
S9.6	v. Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill	Whole Site / During Construction	Contractor	✓		
S9.6	vi. Proper storage and site practices shall be adopted to reduce the potential for damage or contamination of construction materials	Whole Site / During Construction	Contractor	✓		
S9.6	vii. Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste	Whole Site / During Construction	Contractor	✓		

S9.6	<p><i>Excavated Materials</i></p> <p>The contractor of the advanced work should open a billing account with EPD for the payment of disposal charges. A trip-ticket system will be established in accordance with ETWB TC(W) No. 31/2004 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at landfills, and to control fly-tipping</p>	Contract mobilisation / During construction	Contractor	✓	✓	Waste Disposal (Charges for Disposal of Construction Waste) Regulation ETWB TC(W) No.31/2004
S9.6	<p>Ways to minimise generation of C&D materials include:</p> <p>(i) The Contractor is required to submit the Waste Management Plan (WMP) for approval by the Engineer with appropriate mitigation measures to deal with and allow space for waste segregation. Different C&D materials should be sorted into different categories for re-use/recycle. Day-to-day site operations of the Contractor should be closely monitored to ensure compliance with the approved WMP.</p> <p>(ii) The Designer shall ensure that the design of levels and dimensions are reasonably accurate to avoid unnecessary demolition, excavation and fill.</p> <p>(iii) The Contractor shall be encouraged to use long lasting materials such as steel and poly-fibre for formwork on site.</p> <p>(iv) The RSS shall control the disposal of public fill and C&D waste to the designated public filling facilities and landfills respectively through the implementation of a trip-ticket system according to ETWB TC(W) No. 31/2004.</p>	Whole Site / During Construction	Contractor	✓		
	<p>Ways to maximize the use of inert C&D material include:</p> <ol style="list-style-type: none"> The Contractor shall review the WMP quarterly to improve the site practice and maximise the use of inert C&D material Different sections of works shall be programmed to ensure the C&D materials generated could be re-used by the other sections of works or works contracts. Temporary storage areas should be identified to resolve programming mismatch between excavation and filling works. The excavated soft inert C&D materials should be reused for backfilling the boundary patrol road, channel embankment, etc. whenever practicable. Good quality top soil should be reused for landscaping. 	Whole Site / During Construction	Contractor	✓		
	<p>Ways to maximise the re-use/recycle of C&D material and/or rock on site include:</p> <ol style="list-style-type: none"> Recyclable materials such as wood and metal should be salvaged for reuse and inert materials utilized as public fill. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal. Prior to disposal of C&D waste, it is recommended that wood, steel and other metals be separated for re-use and/or recycling and inert waste utilized as fill material to minimize the quantity of waste to be disposed of at landfills. 	Whole Site / During Construction	Contractor	✓		
S9.6	<p>Ways to maximise the use of recycled C&D materials include:</p> <ol style="list-style-type: none"> Relevant clauses would be incorporated in the Particular Specifications to facilitate the use of recycled aggregates as far as practicable, such as, temporary works, general fills and road sub-base. 	Whole Site / During Construction	Contractor	✓		
S9.6	<p>To reduce the potential dust impacts of the excavation works, the C&D materials will be wetted as quickly as possible to the extent practice after filling.</p>	Whole Site / During Construction	Contractor	✓		

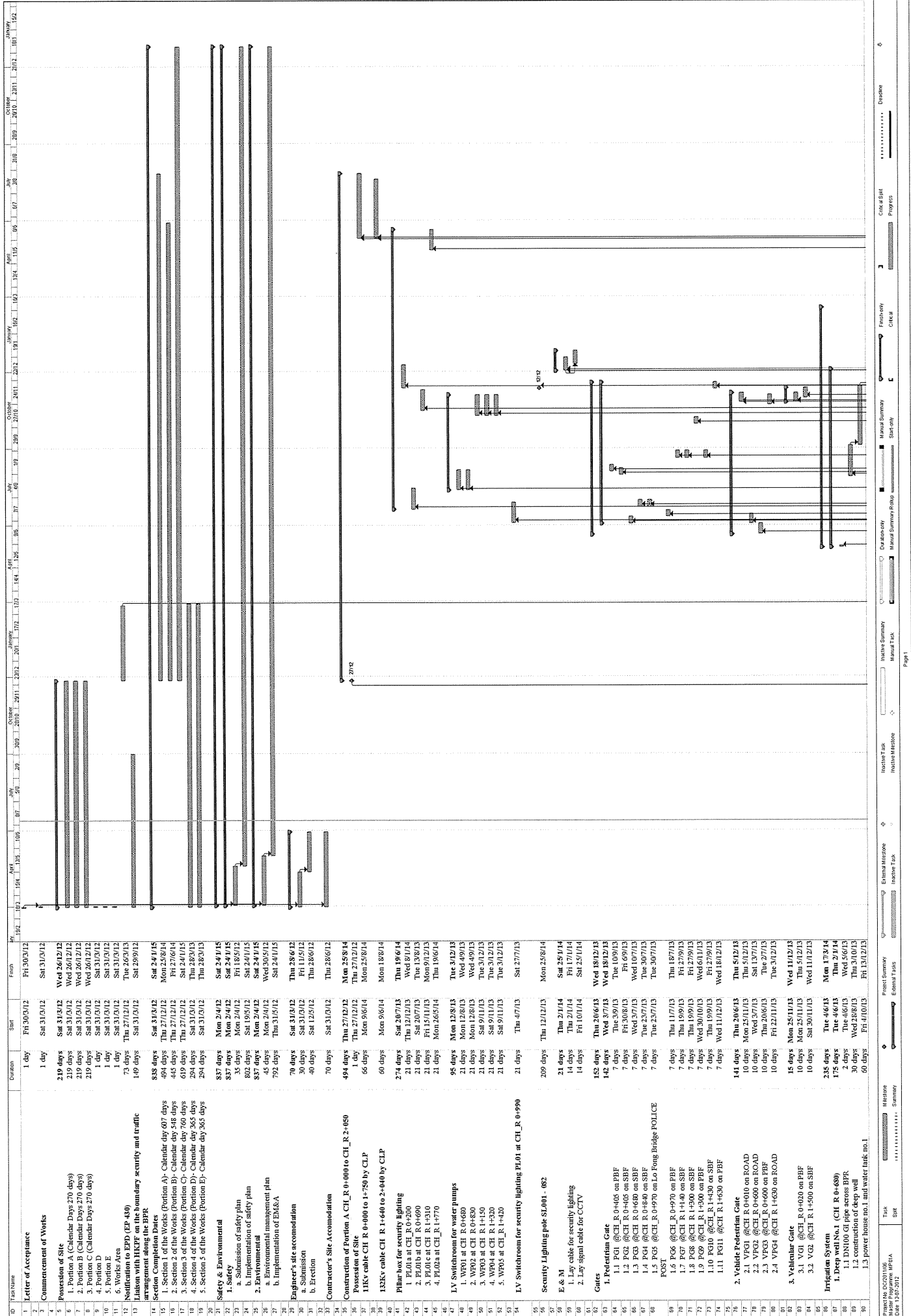
S9.6	<p><i>Chemical Waste</i> Containers used for storage of chemical waste shall be:</p> <ol style="list-style-type: none"> Maintained in good condition and clearly labelled in both English and Chinese; Suitable for the substance they are holding, resistant to corrosion, and securely closed; and Capacity of less than 450 L unless the specifications have been approved by the EPD. 	All facilities / During construction	Contractor	✓		Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling, and Storage of Chemical Wastes
S9.6	<p>Storage areas for chemical waste shall:</p> <ol style="list-style-type: none"> Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have adequate ventilation; Be arranged so that incompatible materials are appropriately separated Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; and Be covered to prevent rainfall from entering 	All facilities / During construction	Contractor	✓		
S9.6	Any unused chemicals and those with remaining functional capacity shall be recycled to the extent practical.	Land Site / During Construction	Contractor	✓		
S9.6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi/ During construction	Contractor	✓		Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling, and Storage of Chemical Wastes
S9.6	<i>General Refuse</i> General refuse shall be timely cleared and shall be disposed of to the nearest licensed facility by reputable waste collector on regular basis to reduce odour, pest and litter impacts.	All areas / During construction	Contractor	✓		WBTC Nos. 6/2002 and 6/2002A, Enhanced Specification for Site Cleanliness and Tidiness.
S9.6	No waste shall be burnt on site. Wastes shall be collected by licensed waste haulier and be disposed of at licence sites.	Land Site / During Construction	Contractor	✓		Air Pollution Control Ordinance
S9.6	Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.	All areas / During construction	Contractor	✓		
S9.8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site inspection and audit programme shall be undertaken.	All facilities / During construction	ET and IEC	✓		
S9.8	Waste Management Plan (WMP) will be prepared and implemented in accordance with ETWB TC(W) No. 19/2005.	All facilities / During construction	Contractor	✓		ETWB TC(W) No.19/2005

6. Cultural Heritage						
		Pursuant to the Antiquities and Monuments Ordinance, the project proponent should inform the AMO immediately in case of discovery of antiquities or supposed antiquities in the course of soil excavation works in construction stage.	Whole Site / During Construction	Project Proponent	✓	Antiquities and Monuments Ordinance
S11.8.1		In case the works boundary of the Project changes during the detailed design stage to cover additional area not being assessed, the need for further archaeological survey and subsequent impact assessment should be reviewed and AMO should be consulted.	Additional works boundary not covered in EIA / During design stage	Design Team and the Project Proponent (i.e. DSD)		EIAO TM, Guidelines for CHIA, Antiquities and Monuments Ordinance
7. Landscape & Visual						
S12.6.10	MM1: Tree Protection and Preservation - Trees/ woodland within the Project Site will be protected and preserved as far as possible in accordance with ETWB TCW No. 29/2004 and 3/2006.		Land Site / During Construction	Contractor	✓	
S12.6.10	MM2: Tree Transplantation – Should removal of trees be unavoidable due to construction impacts, trees will be transplanted or felled according to the Detailed Tree Survey and Tree Felling Application. Established trees of value are to be re-located where practically feasible.		Land site / During Construction	Contractor(s)	✓	
S12.6.10	MM3: Minimize Disturbance – temporary structures and construction works should be planned with care to minimize disturbance to existing built structures as well as vegetation including riparian vegetation along the river.		Land Site / During Construction	Contractor	✓	
S12.6.10	MM4: Compensatory Tree Planting - Where loss of existing trees is unavoidable, compensatory planting of trees should be provided in accordance with ETWB TCW No. 03/2006 to compensate for those trees felled. Space is to be allowed within the Project Site (mainly planting in riverbank landscape areas of ~4.1 ha) for such planting. Plants will have 12 months to establish. Approximately 0.5 ha of compensatory woodland planting (in addition to the reinstatement of the woodland (LR4) if unavoidably affected) will be provided within the Project Site near Pak Fu Shan. The proposed compensatory woodland planting site will locate adjoining to the reinstated and existing (undisturbed by the Project) woodland on hillside. The selection of planting species shall be made with reference to the species identified in the Tree Survey and be native to Hong Kong or the South China region. The compensatory woodland planting should also adopt ecological design, ie provision of rare butterfly species larval food plant (Trema sp.), and further details refer to Section 7.1.3 of the EIA Report. The arrangement of the on-site compensatory planting, ie tree/ shrub mix and Trema sp., will be subject to detailed landscape design and planting plan, and recommended to be implemented prior to the construction activities as far as practical		Compensatory planting area / During Construction	Contractor	✓	
S12.6.10	MM5: Screening – Stockpiles of materials should be covered or hoarding erected where possible to reduce undesirable views of the construction site (such as stockpile areas), having consideration of safety and security. It is proposed that screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Hoarding should be taken down at the end of the construction period.		Land Site / During Construction	Contractor	✓	

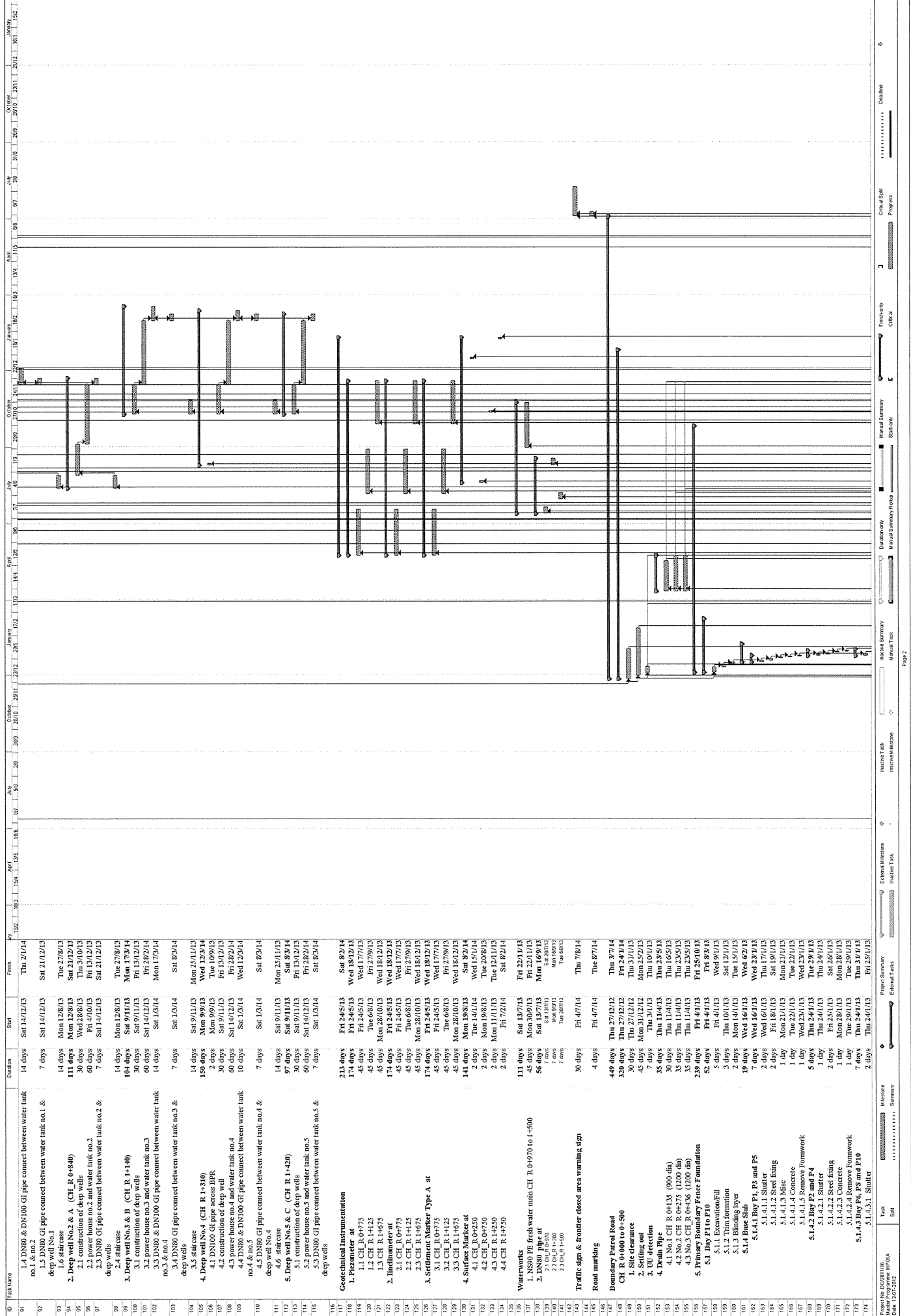
S12.6.10	MM6: Light Control – Control of night time lighting glare shall be implemented to minimize glare impact to adjacent VSRs.	Whole Site / During Construction	Contractor	✓			
S12.6.10	MM7: Reinstatement – Terrestrial areas temporarily disturbed by the Project during construction, should be re-vegetated with shrubs, ground cover or grass in order to restore the green ambience or LR as existed before the commencement of the Project to blend with the new environment, eg the earth embankment underneath the boundary patrol road near Pak Fu Shan should be planted to ensure the embankment structure blends in with the new environment.	Whole Site / During Construction	Contractor	✓			
S12.6.10	MM8: Buffer Planting – Tree and Shrub planting shall be provided for screening the natural watercourse, woodland and shrubby grassland on lowland, proposed boundary control road and fencing, where needed and taking into account security and boundary control limitations.	Appropriate location / During Construction	Contractor	✓			
S12.6.10	MM9: River Area Enhancement Landscaping – The river bed should be non-concreted as far as practical. The River bank and margins of approximately 4.1 ha should be enhanced with vegetation to compensate for the loss of existing vegetation and to enhance the visual and landscape value of the river where slope gradient allows. The typical design of riverbank landscaping areas for the Project is presented in Section 7.11.3 and Figure 7.11 of the EIA Report. The overall objectives for the landscaping works will be mainly concerned with ecological enhancement but also include landscape enhancement. For the sloping banks of the river, in order to guarantee safety of flood prevention, ecologically and environmentally friendly materials will be used as far as possible. The preliminary proposed landscape treatment along the sloping river banks can be classified into three types: natural vegetation, semi-natural and artificial. Further details of the river area enhancement plans can be found in Section 3 of the EIA Report, including protection of river bed with armour rock only where necessary and provision of grassed, cellular, reinforced concrete eco-friendly slope protection. Eco-bags are made of UV-resistant Polyethylene gas filled with fiber soil. Final details of the landscaping will be prepared during the detailed design stage of the Project.	Appropriate location / During Construction	Contractor	✓	✓		
S12.6.10	MM11: Floodplain Areas - The areas bound by sharp turns in the natural meander of the river should be made into floodplain areas to retain some of the riparian landscape at the river margins. The overall objectives for the landscaping works will be mainly concerned with ecological enhancement but also include landscape enhancement (also refer to Section 7.11.3 of the EIA Report). Further details will be developed during Detailed Design Stage.	Floodplain areas / During Construction	Contractor	✓	✓		
S12.6.10	MM12: Colours of Structures - Colours for the structures eg fences should be chosen to complement the surrounding area. Lighter colours such as shades of light grey, off-white and light brown may be utilised where technically feasible to reduce the visibility of the structures.	Whole Site / During Construction	Contractor	✓			
S12.6.10	MM13: Topsoil Reuse - Excavated topsoil should be conserved for re-use by the Project or other projects.	Whole Site / During Construction	Contractor	✓			
S12.9	The completed landscape works adopting ecological design on the Hong Kong side will be monitored during the one year establishment period.	Whole site / During 1 year Establishment period	Landscape Contractor	✓			

ANNEX D

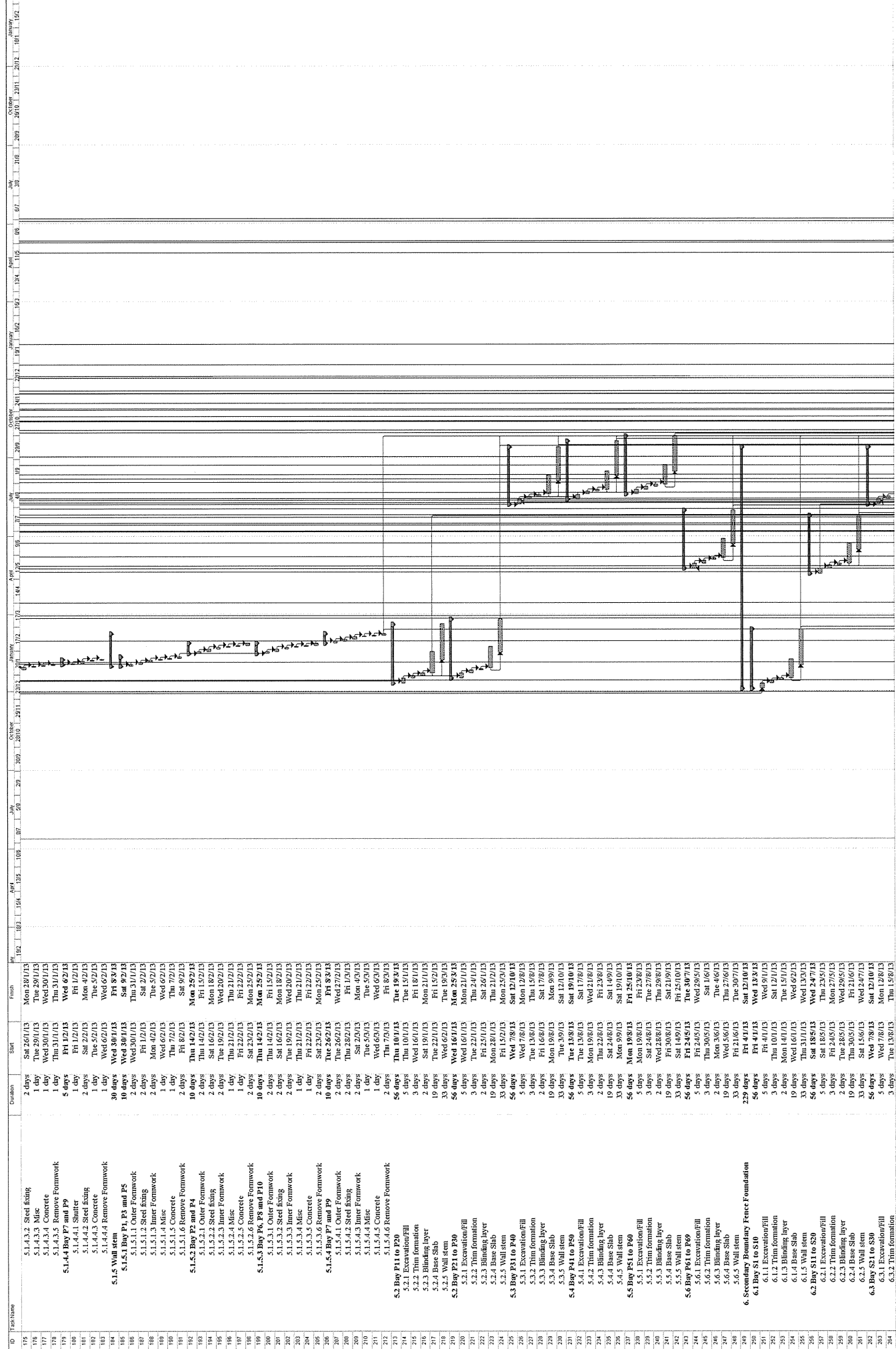
CONSTRUCTION PROGRAM



ID	Task Name	Start	Finish	Duration
1	Letter of Acceptance	Fri 30/3/12	Fri 30/3/12	1 day
2	Commencement of Works	Sat 31/3/12	Sat 31/3/12	1 day
3	Possession of Site	Sat 31/3/12	Wed 26/12/12	219 days
4	1. Portion A (Calendar Days 270 days)	Wed 26/12/12	Wed 26/12/12	219 days
5	2. Portion B (Calendar Days 270 days)	Wed 26/12/12	Wed 26/12/12	219 days
6	3. Portion C (Calendar Days 270 days)	Wed 26/12/12	Wed 26/12/12	219 days
7	4. Portion D (Calendar Days 270 days)	Wed 26/12/12	Wed 26/12/12	219 days
8	5. Portion E	Sat 31/3/12	Sat 31/3/12	1 day
9	6. Works Area	Sat 31/3/12	Sat 31/3/12	1 day
10	Notification to EPD (EP 430)	Thu 27/12/12	Tue 26/3/13	73 days
11	Liaison with HKPF on the boundary security and traffic arrangement along the BPR	Sat 31/3/12	Sat 29/9/12	149 days
12	Section Completion Dates	Sat 31/3/12	Sat 29/9/12	838 days
13	1. Section 1 of the Works (Portion A) - Calendar day 607 days	Mon 25/9/14	Mon 25/9/14	494 days
14	2. Section 2 of the Works (Portion B) - Calendar day 546 days	Fri 27/9/14	Fri 27/9/14	445 days
15	3. Section 3 of the Works (Portion C) - Calendar day 769 days	Sat 31/3/12	Sat 31/3/12	609 days
16	4. Section 4 of the Works (Portion D) - Calendar day 362 days	Thu 28/3/12	Thu 28/3/12	294 days
17	5. Section 5 of the Works (Portion E) - Calendar day 362 days	Thu 28/3/12	Thu 28/3/12	294 days
18	Safety & Environmental	Mon 24/4/12	Sat 24/7/15	837 days
19	1. Safety	Mon 24/4/12	Sat 24/7/15	837 days
20	a. Submission of safety plan	Mon 24/4/12	Fri 19/5/12	35 days
21	b. Implementation of safety plan	Sat 19/5/12	Sat 24/7/15	802 days
22	2. Environmental	Mon 24/4/12	Sat 24/7/15	837 days
23	a. Environmental management plan	Mon 24/4/12	Wed 30/5/12	45 days
24	b. Implementation of EM&A	Thu 31/5/12	Sat 24/7/15	792 days
25	Engineer's site accommodation	Thu 28/6/12	Thu 28/6/12	70 days
26	a. Submission	Sat 31/3/12	Fri 11/5/12	30 days
27	b. Erection	Sat 12/5/12	Thu 28/6/12	40 days
28	Contractor's Site Accommodation	Sat 31/3/12	Thu 28/6/12	70 days
29	Construction of Portion A, CH_R 0-000 to CH_R 2-650	Thu 27/12/12	Mon 25/9/14	494 days
30	Possession of Site	Thu 27/12/12	Thu 27/12/12	1 day
31	1HK cable CH_R 0-000 to 1-750 by CLP	Mon 9/6/14	Mon 25/9/14	66 days
32	133KV cable CH_R 1-640 to 2-040 by CLP	Mon 9/6/14	Mon 18/9/14	60 days
33	Pipes for security lighting	Thu 28/7/12	Thu 19/6/14	274 days
34	1. PEA1 at CH_R 0-200	Thu 12/12/13	Wed 8/1/14	21 days
35	2. PEA1b at CH_R 0-600	Sat 20/7/13	Tue 13/9/13	21 days
36	3. PEA1c at CH_R 1-310	Fri 15/11/13	Mon 9/12/13	21 days
37	4. PEA2a at CH_R 1-770	Mon 26/5/14	Thu 19/6/14	21 days
38	LV Switchroom for water pumps	Mon 12/9/13	Thu 31/2/13	95 days
39	1. WP01 at CH_R 0-680	Mon 12/9/13	Wed 4/9/13	21 days
40	2. WP02 at CH_R 0-850	Mon 12/9/13	Wed 4/9/13	21 days
41	3. WP03 at CH_R 1-150	Mon 12/9/13	Thu 3/12/13	21 days
42	4. WP04 at CH_R 1-420	Mon 12/9/13	Thu 3/12/13	21 days
43	5. WP05 at CH_R 1-420	Sat 9/11/13	Thu 3/12/13	21 days
44	LV Switchroom for security lighting P1.01 at CH_R 0-990	Thu 4/7/13	Sat 27/7/13	21 days
45	Security Lighting pole SL001 - 082	Thu 12/12/13	Mon 25/9/14	209 days
46	E & M	Thu 27/12/12	Sat 25/7/14	21 days
47	1. Lay cable for security lighting	Thu 27/12/12	Fri 17/1/14	14 days
48	2. Lay signal cable for CCTV	Fri 10/1/14	Sat 25/1/14	14 days
49	Gates	Thu 28/6/13	Wed 18/9/13	152 days
50	1. Pedestrian Gate	Thu 28/6/13	Thu 18/12/13	147 days
51	@CH_R 0-405 on PBF	Thu 28/6/13	Thu 18/12/13	147 days
52	1.1. PG2 @CH_R 0-405 on SHF	Fri 30/8/13	Fri 6/9/13	7 days
53	1.2. PG3 @CH_R 0-405 on SHF	Fri 30/8/13	Fri 6/9/13	7 days
54	1.3. PG4 @CH_R 0-405 on SHF	Wed 5/7/13	Wed 10/7/13	7 days
55	1.4. PG4 @CH_R 0-405 on SHF	Thu 25/7/13	Tue 30/7/13	7 days
56	1.5. PG5 @CH_R 0-470 on Lo Fong Bridge POLICE POST	Thu 25/7/13	Thu 25/7/13	7 days
57	1.6. PG6 @CH_R 0-470 on PBF	Thu 18/7/13	Thu 18/7/13	7 days
58	1.7. PG7 @CH_R 1-140 on SHF	Fri 27/9/13	Fri 27/9/13	7 days
59	1.8. PG8 @CH_R 1-500 on SHF	Fri 27/9/13	Fri 27/9/13	7 days
60	1.9. PG9 @CH_R 1-500 on PBF	Wed 30/10/13	Wed 6/11/13	7 days
61	1.10. PG10 @CH_R 1-430 on SHF	Thu 11/12/13	Thu 11/12/13	7 days
62	1.11. PG11 @CH_R 1-650 on PBF	Wed 16/12/13	Wed 16/12/13	7 days
63	2. Vehicle Pedestrian Gate	Thu 20/6/13	Thu 5/12/13	141 days
64	2.1. VPG1 @CH_R 0-100 on ROAD	Mon 25/11/13	Thu 5/12/13	10 days
65	2.2. VPG2 @CH_R 0-600 on ROAD	Wed 3/7/13	Sat 13/7/13	10 days
66	2.3. VPG3 @CH_R 0-600 on PBF	Thu 20/6/13	Thu 27/7/13	10 days
67	2.4. VPG4 @CH_R 1-650 on ROAD	Thu 31/2/13	Thu 31/2/13	10 days
68	3. Vehicle Gate	Mon 25/11/13	Wed 11/12/13	15 days
69	3.1. VGH @CH_R 0-020 on PBF	Mon 25/11/13	Thu 5/12/13	10 days
70	3.2. VGH @CH_R 1-500 on SHF	Sat 30/11/13	Wed 11/12/13	10 days
71	Irrigation System	Mon 17/3/14	Mon 17/3/14	238 days
72	1. Deep Well No.1 (CH_R 0-680)	Thu 4/6/13	Thu 27/14	175 days
73	1.1. DN100 GI pipe across BPR	Thu 4/6/13	Wed 5/6/13	2 days
74	1.2. construction of deep well	Wed 2/6/13	Thu 4/6/13	46 days
75	1.3. power house no.1 and water tank no.1	Fri 14/10/13	Fri 13/12/13	60 days



ID	Task Name	Start	Duration	Finish
80	1.4 DN80 & DN100 GI pipe connect between water tank no.1 & no.2	Sat 14/12/13	14 days	Thu 21/1/14
81	1.5 DN80 GI pipe connect between water tank no.1 & deep well No.1	Sat 14/12/13	7 days	Sat 21/12/13
82	1.6 staircase	Mon 12/6/13	14 days	Thu 27/8/13
83	2.1 construction of deep wells	Wed 28/6/13	111 days	Thu 31/01/13
84	2.2 power house no.2 and water tank no.2	Fri 4/10/13	30 days	Fri 13/11/13
85	2.3 DN80 GI pipe connect between water tank no.2 & deep wells	Sat 14/12/13	7 days	Sat 21/12/13
86	2.4 staircase	Mon 12/6/13	14 days	Thu 27/8/13
87	3.1 construction of power house no.3	Sat 9/11/13	104 days	Mon 17/3/14
88	3.2 power house no.3 and water tank no.3	Fri 13/11/13	30 days	Fri 13/11/13
89	3.3 DN80 & DN100 GI pipe connect between water tank no.3 & no.4	Sat 14/12/13	60 days	Fri 28/2/14
90	3.4 DN80 GI pipe connect between water tank no.3 & deep wells	Sat 13/1/14	14 days	Mon 17/2/14
91	3.5 staircase	Sat 9/11/13	7 days	Sat 8/2/14
92	4.1 construction of deep wells	Mon 25/11/13	14 days	Mon 25/11/13
93	4.2 DN100 GI pipe connect between water tank no.4 & deep wells	Mon 25/11/13	150 days	Thu 27/11/13
94	4.3 power house no.4 and water tank no.4	Mon 25/11/13	82 days	Thu 10/9/13
95	4.4 DN80 & DN100 GI pipe connect between water tank no.4 & no.5	Fri 13/11/13	30 days	Fri 13/11/13
96	4.5 DN80 GI pipe connect between water tank no.4 & deep well No.4	Sat 13/1/14	60 days	Fri 28/2/14
97	4.6 staircase	Sat 13/1/14	10 days	Wed 12/2/14
98	5.1 construction of deep wells	Sat 9/11/13	14 days	Mon 25/11/13
99	5.2 power house no.5 and water tank no.5	Sat 9/11/13	97 days	Sat 8/2/14
100	5.3 DN80 GI pipe connect between water tank no.5 & deep wells	Sat 9/11/13	30 days	Fri 13/11/13
101	5.4 staircase	Sat 13/1/14	7 days	Sat 8/2/14
102	1. Piezometer at	Fri 24/5/13	213 days	Sat 8/2/14
103	1.1 CH R 0-775	Wed 17/7/13	174 days	Wed 18/2/13
104	1.2 CH R 1-125	Thu 26/5/13	45 days	Fri 27/9/13
105	1.3 CH R 1-675	Mon 28/10/13	45 days	Wed 18/12/13
106	2. Inclinometer at	Fri 24/5/13	174 days	Wed 18/2/13
107	2.1 CH R 0-775	Wed 17/7/13	174 days	Wed 18/2/13
108	2.2 CH R 1-125	Thu 26/5/13	45 days	Fri 27/9/13
109	2.3 CH R 1-675	Mon 28/10/13	45 days	Wed 18/12/13
110	3. Settlement Marker Type A at	Fri 24/5/13	174 days	Wed 18/2/13
111	3.1 CH R 0-775	Wed 17/7/13	174 days	Wed 18/2/13
112	3.2 CH R 1-125	Thu 26/5/13	45 days	Fri 27/9/13
113	3.3 CH R 1-675	Mon 28/10/13	45 days	Wed 18/12/13
114	4. Surface Marker at	Mon 19/8/13	141 days	Sat 8/2/14
115	4.1 CH R 0-750	Thu 14/1/14	2 days	Wed 15/1/14
116	4.2 CH R 0-750	Mon 19/8/13	2 days	Thu 20/8/13
117	4.3 CH R 1-250	Mon 11/11/13	2 days	Thu 20/8/13
118	4.4 CH R 1-750	Fri 7/2/14	2 days	Sat 8/2/14
119	Waterworks	Fri 13/7/13	111 days	Fri 13/7/13
120	1. NS90 PE fresh water main CH R 0-970 to 1-500	Mon 30/9/13	45 days	Fri 22/11/13
121	2. DN80 pipe at	Sat 13/7/13	56 days	Mon 16/9/13
122	2.1 CH R 0-70	Sat 30/9/13	7 days	Sat 30/9/13
123	2.2 CH R 1-50	Fri 20/9/13	7 days	Thu 4/10/13
124	2.3 CH R 1-50	Fri 20/9/13	7 days	Thu 4/10/13
125	Traffic-sign & frontier closed area warning sign	Fri 4/7/14	30 days	Thu 7/8/14
126	Road markings	Fri 4/7/14	4 days	Thu 8/7/14
127	Boundary Patrol Road	Thu 27/12/12	449 days	Thu 3/7/14
128	CH R 0-000 to 0-500	Thu 27/12/12	320 days	Fri 24/1/14
129	1. Site clearance	Thu 27/12/12	30 days	Thu 31/1/13
130	2. Settling out	Mon 31/12/12	45 days	Mon 25/2/13
131	3. UV detection	Thu 31/1/13	7 days	Thu 10/1/13
132	4. Drain Pipe	Thu 19/4/13	35 days	Thu 23/5/13
133	4.1 No.1 CH R 0-435 (900 dia)	Thu 11/4/13	30 days	Thu 16/5/13
134	4.2 No.2 CH R 0-435 (900 dia)	Thu 11/4/13	30 days	Thu 16/5/13
135	4.3 CH R 0-435 (1200 dia)	Thu 11/4/13	35 days	Thu 23/5/13
136	4.4 CH R 0-435 (1200 dia)	Thu 11/4/13	35 days	Thu 23/5/13
137	5. Primary Boundary Fence Foundation	Fri 4/7/13	239 days	Fri 25/10/13
138	5.1 Bay P1 to P10	Fri 4/7/13	52 days	Fri 8/3/13
139	5.1.1 Excavation/Fill	Fri 4/7/13	5 days	Wed 9/1/13
140	5.1.2 Thin formation	Thu 10/1/13	3 days	Sat 12/1/13
141	5.1.3 Blinding layer	Mon 14/1/13	2 days	Thu 15/1/13
142	5.1.4 Base Slab	Wed 16/1/13	19 days	Wed 6/2/13
143	5.1.4.1 Bay P1, P2, and P5	Wed 16/1/13	7 days	Wed 23/1/13
144	5.1.4.1.1 Sluiter	Wed 16/1/13	2 days	Wed 16/1/13
145	5.1.4.1.2 Steel fixing	Fri 18/1/13	2 days	Fri 18/1/13
146	5.1.4.1.3 Siltie	Mon 21/1/13	1 day	Mon 21/1/13
147	5.1.4.1.4 Concrete	Wed 23/1/13	1 day	Wed 23/1/13
148	5.1.4.2 Bay P2 and P4	Thu 24/1/13	5 days	Thu 29/1/13
149	5.1.4.2.1 Sluiter	Thu 24/1/13	1 day	Thu 24/1/13
150	5.1.4.2.2 Steel fixing	Fri 25/1/13	2 days	Fri 25/1/13
151	5.1.4.2.3 Concrete	Mon 28/1/13	1 day	Mon 28/1/13
152	5.1.4.2.4 Remove Formwork	Thu 29/1/13	1 day	Thu 29/1/13
153	5.1.4.3 Bay P6, P8 and P10	Thu 24/1/13	7 days	Thu 31/1/13
154	5.1.4.3.1 Sluiter	Thu 24/1/13	2 days	Thu 25/1/13

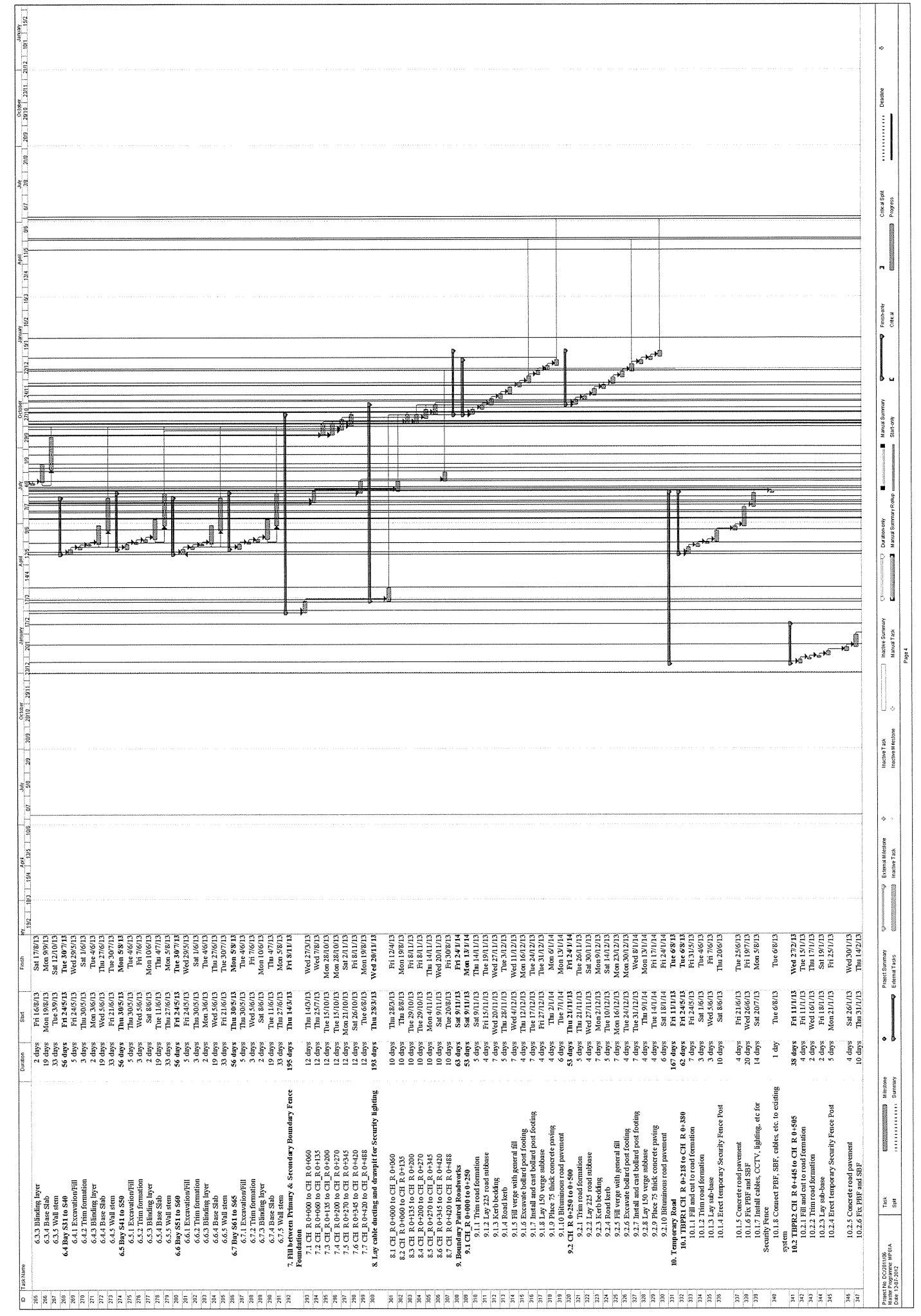


ID	Task Name	Duration	Start	Finish
175	5.1.4.3.2 Steel framing	2 days	Sat 26/01/13	Mon 28/01/13
176	5.1.4.3.3 Misc	1 day	Wed 29/01/13	Thu 30/01/13
177	5.1.4.3.4 Concrete	1 day	Thu 31/01/13	Fri 01/02/13
178	5.1.4.3.5 Remove Formwork	5 days	Fri 12/01/13	Mon 18/01/13
179	5.1.4.4.1 Shutter	1 day	Fri 12/01/13	Sat 13/01/13
180	5.1.4.4.2 Steel framing	2 days	Sat 13/01/13	Mon 15/01/13
181	5.1.4.4.3 Concrete	1 day	Thu 14/01/13	Fri 15/01/13
182	5.1.4.4.4 Remove Formwork	30 days	Wed 02/01/13	Wed 02/02/13
183	5.1.5.1.1 Bay P1, P2 and P3	10 days	Wed 30/01/13	Thu 07/02/13
184	5.1.5.1.2 Outer Formwork	2 days	Wed 30/01/13	Thu 31/01/13
185	5.1.5.1.3 Inner Formwork	2 days	Thu 01/02/13	Fri 02/02/13
186	5.1.5.1.4 Misc	1 day	Wed 02/02/13	Thu 03/02/13
187	5.1.5.1.5 Concrete	1 day	Thu 03/02/13	Fri 04/02/13
188	5.1.5.1.6 Remove Formwork	10 days	Thu 14/02/13	Thu 21/02/13
189	5.1.5.2.1 Outer Formwork	2 days	Thu 14/02/13	Fri 15/02/13
190	5.1.5.2.2 Steel framing	2 days	Fri 15/02/13	Sat 16/02/13
191	5.1.5.2.3 Concrete	2 days	Sat 16/02/13	Mon 18/02/13
192	5.1.5.2.4 Misc	1 day	Mon 18/02/13	Tue 19/02/13
193	5.1.5.2.5 Concrete	1 day	Tue 19/02/13	Wed 20/02/13
194	5.1.5.2.6 Remove Formwork	10 days	Wed 20/02/13	Wed 27/02/13
195	5.1.5.3.1 Outer Formwork	2 days	Wed 20/02/13	Thu 21/02/13
196	5.1.5.3.2 Steel framing	2 days	Thu 21/02/13	Fri 22/02/13
197	5.1.5.3.3 Concrete	2 days	Fri 22/02/13	Sat 23/02/13
198	5.1.5.3.4 Misc	1 day	Sat 23/02/13	Sun 24/02/13
199	5.1.5.3.5 Concrete	1 day	Sun 24/02/13	Mon 25/02/13
200	5.1.5.3.6 Remove Formwork	10 days	Mon 25/02/13	Mon 05/03/13
201	5.1.5.4.1 Outer Formwork	2 days	Mon 25/02/13	Tue 26/02/13
202	5.1.5.4.2 Steel framing	2 days	Tue 26/02/13	Wed 27/02/13
203	5.1.5.4.3 Inner Formwork	2 days	Wed 27/02/13	Thu 28/02/13
204	5.1.5.4.4 Misc	1 day	Thu 28/02/13	Fri 01/03/13
205	5.1.5.4.5 Concrete	2 days	Fri 01/03/13	Sat 02/03/13
206	5.1.5.4.6 Remove Formwork	56 days	Thu 07/03/13	Thu 19/04/13
207	5.2.1 Excavation/Fill	5 days	Thu 10/01/13	Thu 15/01/13
208	5.2.2 Trim formation	3 days	Wed 16/01/13	Thu 17/01/13
209	5.2.3 Blinding layer	2 days	Sat 19/01/13	Mon 21/01/13
210	5.2.4 Base Slab	19 days	Thu 22/01/13	Fri 15/02/13
211	5.2.5 Wall stem	33 days	Wed 02/02/13	Thu 14/03/13
212	5.2 Bay P21 to P30	56 days	Wed 16/01/13	Mon 21/02/13
213	5.2.1 Excavation/Fill	5 days	Thu 22/01/13	Thu 24/01/13
214	5.2.2 Trim formation	16 days	Thu 24/01/13	Mon 04/02/13
215	5.2.3 Blinding layer	33 days	Mon 04/02/13	Thu 21/02/13
216	5.2.4 Base Slab	33 days	Thu 21/02/13	Mon 04/03/13
217	5.2.5 Wall stem	56 days	Thu 07/03/13	Thu 19/04/13
218	5.3.1 Excavation/Fill	5 days	Thu 10/01/13	Thu 15/01/13
219	5.3.2 Trim formation	3 days	Wed 16/01/13	Thu 17/01/13
220	5.3.3 Blinding layer	2 days	Sat 19/01/13	Mon 21/01/13
221	5.3.4 Base Slab	19 days	Thu 22/01/13	Fri 15/02/13
222	5.3.5 Wall stem	33 days	Wed 02/02/13	Thu 14/03/13
223	5.4.1 Excavation/Fill	5 days	Thu 10/01/13	Thu 15/01/13
224	5.4.2 Trim formation	3 days	Wed 16/01/13	Thu 17/01/13
225	5.4.3 Blinding layer	2 days	Sat 19/01/13	Mon 21/01/13
226	5.4.4 Base Slab	19 days	Thu 22/01/13	Fri 15/02/13
227	5.4.5 Wall stem	33 days	Wed 02/02/13	Thu 14/03/13
228	5.5.1 Excavation/Fill	5 days	Thu 10/01/13	Thu 15/01/13
229	5.5.2 Trim formation	3 days	Wed 16/01/13	Thu 17/01/13
230	5.5.3 Blinding layer	2 days	Sat 19/01/13	Mon 21/01/13
231	5.5.4 Base Slab	19 days	Thu 22/01/13	Fri 15/02/13
232	5.5.5 Wall stem	33 days	Wed 02/02/13	Thu 14/03/13
233	5.6.1 Excavation/Fill	5 days	Thu 10/01/13	Thu 15/01/13
234	5.6.2 Trim formation	3 days	Wed 16/01/13	Thu 17/01/13
235	5.6.3 Blinding layer	2 days	Sat 19/01/13	Mon 21/01/13
236	5.6.4 Base Slab	19 days	Thu 22/01/13	Fri 15/02/13
237	5.6.5 Wall stem	33 days	Wed 02/02/13	Thu 14/03/13
238	6. Secondary Boundary Fence Foundation	229 days	Fri 01/03/13	Sat 12/04/13
239	6.1.1 Excavation/Fill	56 days	Thu 07/03/13	Thu 19/04/13
240	6.1.2 Trim formation	3 days	Wed 16/01/13	Thu 17/01/13
241	6.1.3 Blinding layer	2 days	Sat 19/01/13	Mon 21/01/13
242	6.1.4 Base Slab	19 days	Thu 22/01/13	Fri 15/02/13
243	6.1.5 Wall stem	33 days	Wed 02/02/13	Thu 14/03/13
244	6.2.1 Excavation/Fill	56 days	Thu 07/03/13	Thu 19/04/13
245	6.2.2 Trim formation	3 days	Wed 16/01/13	Thu 17/01/13
246	6.2.3 Blinding layer	2 days	Sat 19/01/13	Mon 21/01/13
247	6.2.4 Base Slab	19 days	Thu 22/01/13	Fri 15/02/13
248	6.2.5 Wall stem	33 days	Wed 02/02/13	Thu 14/03/13
249	6.3.1 Excavation/Fill	56 days	Thu 07/03/13	Thu 19/04/13
250	6.3.2 Trim formation	3 days	Wed 16/01/13	Thu 17/01/13
251	6.3.3 Blinding layer	2 days	Sat 19/01/13	Mon 21/01/13
252	6.3.4 Base Slab	19 days	Thu 22/01/13	Fri 15/02/13
253	6.3.5 Wall stem	33 days	Wed 02/02/13	Thu 14/03/13
254	6.3.1 Excavation/Fill	56 days	Thu 07/03/13	Thu 19/04/13

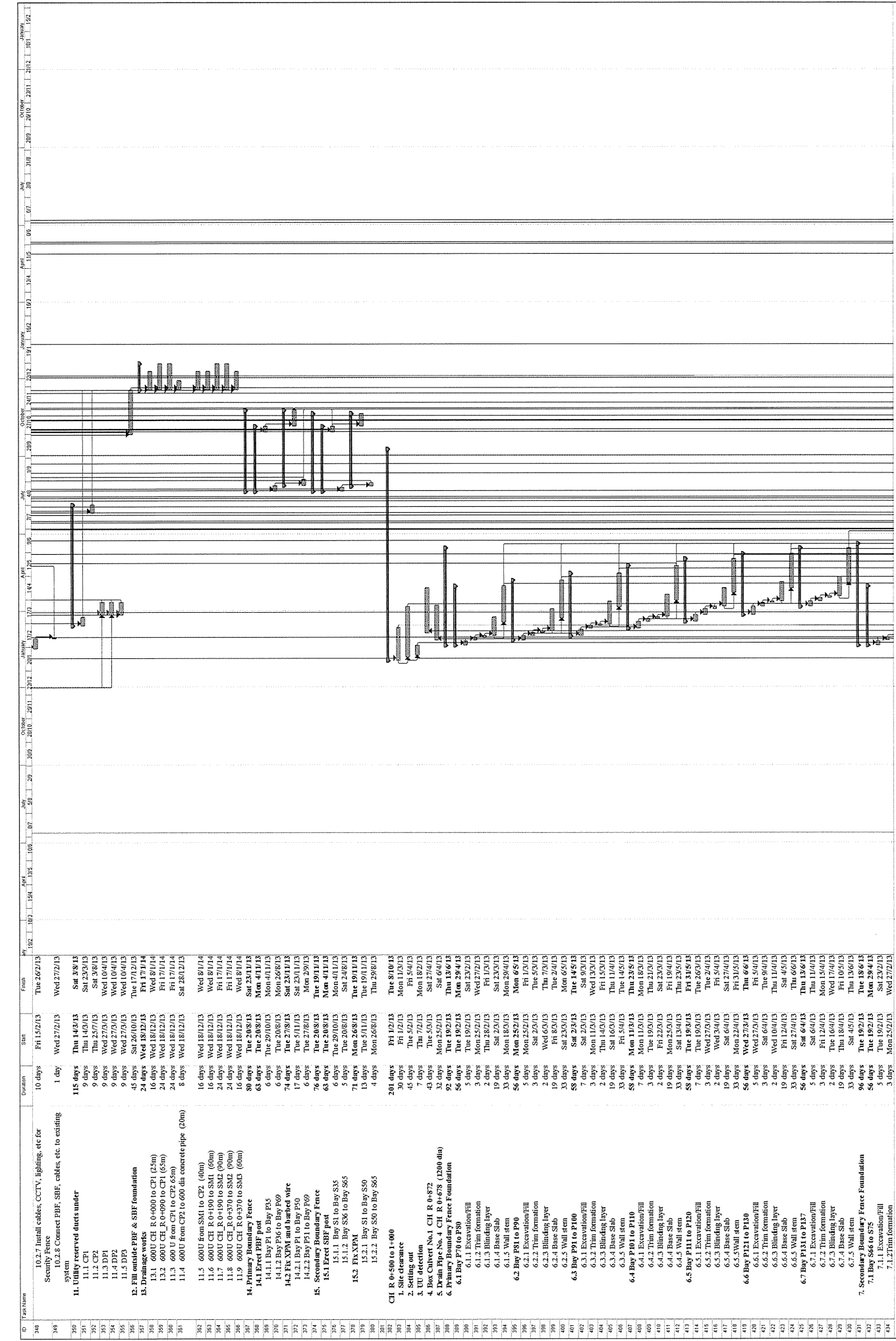
Project Summary: External Tasks, Internal Tasks, External Milestones, Internal Milestones, Manual Task, Manual Summary, Manual Summary (Repeat), Manual Summary (Start-only), Finality, Critical Path, Overall Progress, Overall Status

Project No: EC001008
 Master Programme: BPH/A
 Date: 13/07/2012

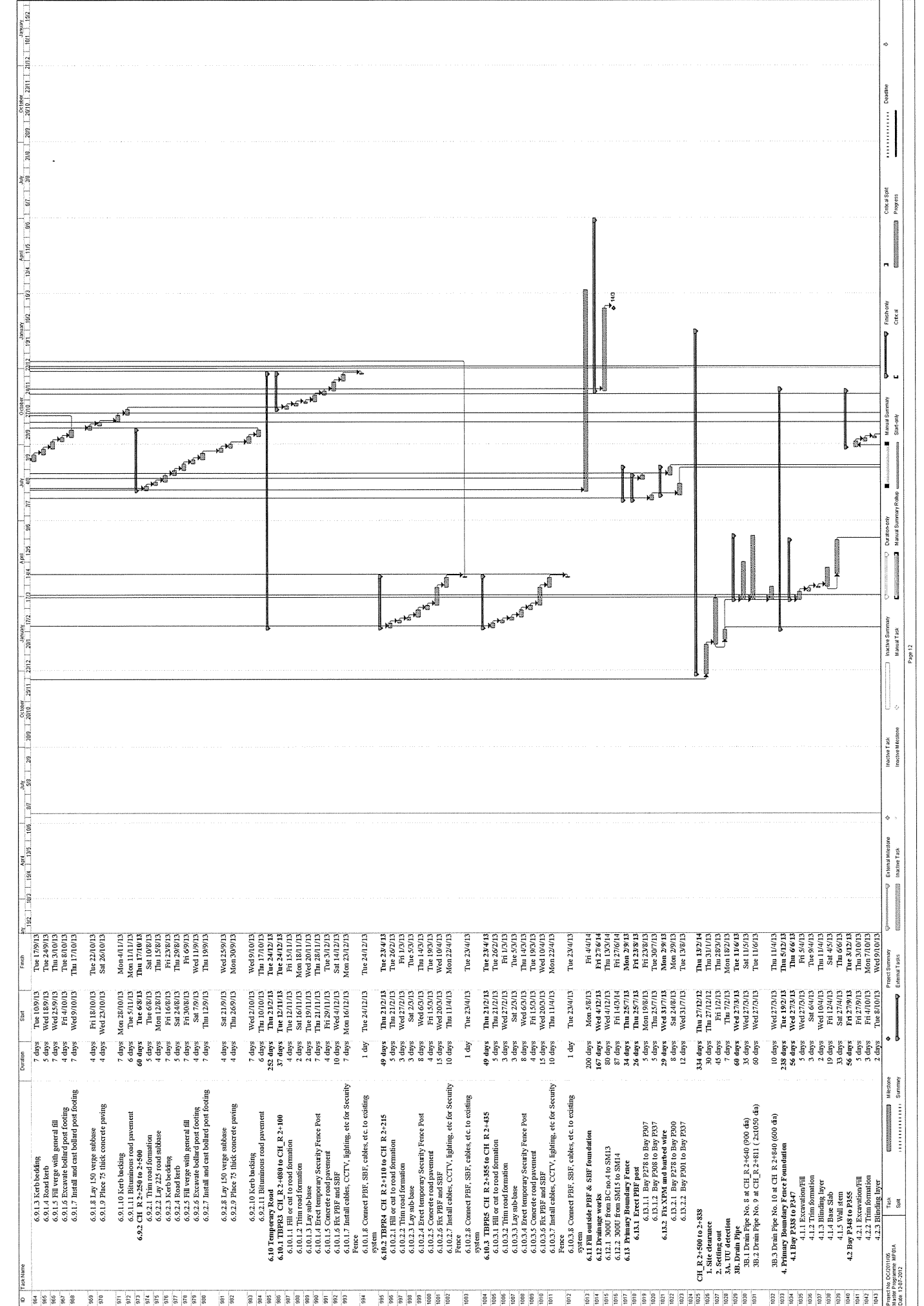
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ID	Task Name	Start	Finish	Duration
265	6.3.3 Blinding layer	Fri 16/07/13	Sat 17/07/13	2 days
266	6.4.1 Base Slab	Mon 19/07/13	Mon 19/07/13	19 days
267	6.5.1 Wall stem	Mon 19/07/13	Sat 12/10/13	33 days
268	6.4 Bay S31 to S40	Fri 24/05/13	Fri 24/05/13	56 days
269	6.4.1 Excavation/Fill	Fri 24/05/13	Wed 29/05/13	5 days
270	6.4.2 Trim formation	Thu 30/05/13	Sat 1/06/13	2 days
271	6.4.3 Blinding layer	Mon 3/06/13	Thu 4/06/13	2 days
272	6.4.4 Base Slab	Wed 5/06/13	Thu 27/06/13	19 days
273	6.4.5 Wall stem	Fri 21/06/13	Mon 5/07/13	33 days
274	6.5 Bay S41 to S50	Thu 30/05/13	Mon 5/07/13	56 days
275	6.5.1 Excavation/Fill	Thu 30/05/13	Thu 4/06/13	5 days
276	6.5.2 Trim formation	Fri 7/06/13	Fri 7/06/13	2 days
277	6.5.3 Blinding layer	Sat 8/06/13	Mon 10/06/13	2 days
278	6.5.4 Base Slab	Sat 8/06/13	Mon 10/06/13	2 days
279	6.5.5 Wall stem	Thu 11/06/13	Thu 4/7/13	19 days
280	6.6 Bay S51 to S60	Thu 27/06/13	Mon 5/07/13	33 days
281	6.6.1 Excavation/Fill	Fri 24/05/13	Wed 29/05/13	5 days
282	6.6.2 Trim formation	Thu 30/05/13	Sat 1/06/13	2 days
283	6.6.3 Blinding layer	Mon 3/06/13	Thu 4/06/13	2 days
284	6.6.4 Base Slab	Wed 5/06/13	Thu 27/06/13	19 days
285	6.6.5 Wall stem	Fri 21/06/13	Mon 5/07/13	33 days
286	6.7 Bay S61 to S65	Thu 30/05/13	Mon 5/07/13	56 days
287	6.7.1 Excavation/Fill	Thu 30/05/13	Thu 4/06/13	5 days
288	6.7.2 Trim formation	Fri 7/06/13	Fri 7/06/13	2 days
289	6.7.3 Blinding layer	Sat 8/06/13	Mon 10/06/13	2 days
290	6.7.4 Base Slab	Sat 8/06/13	Mon 10/06/13	2 days
291	6.7.5 Wall stem	Thu 11/06/13	Thu 4/7/13	19 days
292	6.7.5 Wall stem	Thu 11/06/13	Mon 5/07/13	33 days
293	195 days	Thu 14/03/13	Fri 8/11/13	195 days
294	7.1 CH R-0+00 to CH R-0+060	Thu 14/03/13	Wed 27/03/13	12 days
295	7.2 CH R-0+060 to CH R-0+135	Wed 27/03/13	Wed 27/03/13	12 days
296	7.3 CH R-0+135 to CH R-0+200	Mon 28/10/13	Mon 28/10/13	12 days
297	7.4 CH R-0+200 to CH R-0+270	Thu 15/10/13	Mon 28/10/13	12 days
298	7.5 CH R-0+270 to CH R-0+345	Mon 21/10/13	Sat 21/11/13	12 days
299	7.6 CH R-0+345 to CH R-0+420	Sat 20/10/13	Fri 8/11/13	12 days
300	7.7 CH R-0+420 to CH R-0+468	Thu 6/08/13	Mon 4/06/13	195 days
301	8.1 CH R-0+000 to CH R-0+060	Fri 12/04/13	Fri 12/04/13	10 days
302	8.2 CH R-0+060 to CH R-0+135	Mon 19/06/13	Mon 19/06/13	10 days
303	8.3 CH R-0+135 to CH R-0+200	Fri 8/11/13	Fri 8/11/13	10 days
304	8.4 CH R-0+200 to CH R-0+270	Thu 29/10/13	Fri 8/11/13	10 days
305	8.5 CH R-0+270 to CH R-0+345	Mon 4/11/13	Thu 14/11/13	10 days
306	8.6 CH R-0+345 to CH R-0+420	Sat 9/11/13	Wed 20/11/13	10 days
307	8.7 CH R-0+420 to CH R-0+488	Fri 30/06/13	Fri 30/06/13	65 days
308	9.1 CH R-0+000 to 0+250	Sat 9/11/13	Mon 13/11/13	5 days
309	9.1.1 Trim road formation	Mon 13/11/13	Mon 13/11/13	4 days
310	9.1.2 Lay 225 road subbase	Fri 15/11/13	Thu 14/11/13	4 days
311	9.1.3 Road kerb	Fri 15/11/13	Thu 14/11/13	4 days
312	9.1.4 Road kerb	Wed 20/11/13	Wed 27/11/13	5 days
313	9.1.5 Fill verge with general fill	Thu 28/11/13	Thu 31/21/13	5 days
314	9.1.6 Excavate bollard post footing	Wed 4/12/13	Wed 11/12/13	4 days
315	9.1.7 Install and cast bollard post footing	Thu 12/12/13	Mon 16/12/13	7 days
316	9.1.8 Lay L50 verge subbase	Fri 17/12/13	Thu 24/12/13	4 days
317	9.1.9 Place 75 thick concrete paving	Fri 27/12/13	Thu 31/12/13	4 days
318	9.1.10 Bituminous road pavement	Mon 6/1/14	Mon 6/1/14	6 days
319	9.2 CH R-0+250 to 0+500	Thu 21/11/13	Mon 13/1/14	55 days
320	9.2.1 Trim road formation	Fri 22/11/13	Fri 24/11/13	2 days
321	9.2.2 Lay 225 road subbase	Mon 18/11/13	Mon 18/11/13	7 days
322	9.2.3 Road kerb	Mon 18/11/13	Mon 18/11/13	7 days
323	9.2.4 Road kerb	Mon 18/11/13	Mon 18/11/13	7 days
324	9.2.5 Fill verge with general fill	Mon 18/11/13	Sat 14/12/13	5 days
325	9.2.6 Excavate bollard post footing	Mon 18/11/13	Mon 23/12/13	7 days
326	9.2.7 Install and cast bollard post footing	Thu 31/12/13	Mon 30/1/14	4 days
327	9.2.8 Lay L50 verge subbase	Wed 8/1/14	Wed 8/1/14	7 days
328	9.2.9 Place 75 thick concrete paving	Thu 9/1/14	Mon 13/1/14	4 days
329	9.2.10 Bituminous road pavement	Fri 17/1/14	Fri 17/1/14	6 days
330	10.1 Temporary Road	Sat 18/1/14	Fri 24/1/14	6 days
331	10.1.1 Fill and cut for road formation	Fri 11/1/13	Thu 6/08/13	67 days
332	10.1.2 Trim road formation	Fri 24/05/13	Fri 24/05/13	2 days
333	10.1.3 Lay 225 road subbase	Sat 25/05/13	Sat 25/05/13	3 days
334	10.1.4 Erect Temporary Security Fence Post	Wed 5/06/13	Fri 7/06/13	3 days
335	10.1.5 Concrete road pavement	Sat 8/06/13	Thu 20/06/13	10 days
336	10.1.6 Concrete road pavement	Thu 25/06/13	Thu 25/06/13	4 days
337	10.1.6 F&E P&F and S&F	Fri 19/7/13	Fri 19/7/13	20 days
338	10.1.7 Install cables, CCTV, lighting, etc for Security Fence	Sat 20/7/13	Mon 5/08/13	14 days
339	10.1.8 Convert P&F, S&F, cables, etc to existing system	Thu 6/08/13	Thu 6/08/13	1 day
340	10.2 T&P&E CH R-0+445 to CH R-0+505	Fri 14/11/13	Wed 27/12/13	39 days
341	10.2.1 Trim road formation	Fri 14/11/13	Thu 14/11/13	4 days
342	10.2.2 Trim road formation	Wed 16/01/13	Thu 17/1/13	2 days
343	10.2.3 Lay sub-base	Fri 18/01/13	Sat 19/1/13	2 days
344	10.2.4 Erect Temporary Security Fence Post	Mon 21/1/13	Fri 25/1/13	5 days
345	10.2.5 Concrete road pavement	Sat 26/1/13	Wed 30/1/13	4 days
346	10.2.6 F&E P&F and S&F	Thu 31/1/13	Thu 14/2/13	10 days



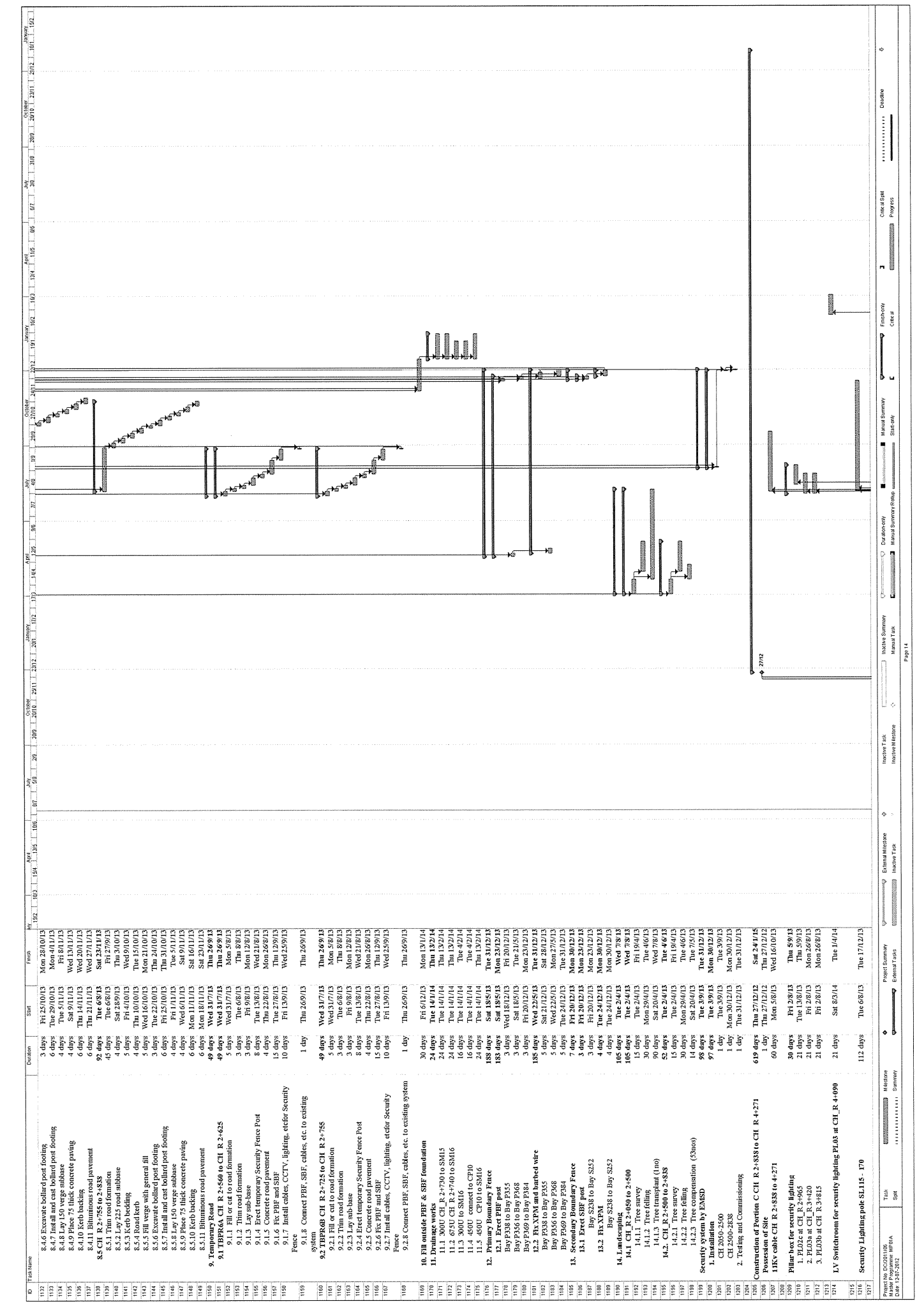
ID	Task Name	Duration	Start	Finish
346	10.2.8 Install cables, CCTV, lighting, etc for Security Enclosure PBF, SBF, cables etc to existing system	10 days	Fri 15/2/13	Thu 26/2/13
347	11. Utility reserved ducts under system	115 days	Thu 14/3/13	Sat 3/8/13
348	11.1 CP1	9 days	Thu 14/3/13	Sat 23/3/13
349	11.2 CP2	9 days	Thu 14/3/13	Sat 23/3/13
350	11.3 DPF1	9 days	Thu 14/3/13	Sat 23/3/13
351	11.4 DPF2	9 days	Thu 14/3/13	Sat 23/3/13
352	11.5 DPF3	9 days	Thu 14/3/13	Sat 23/3/13
353	12. Fill outside PBF & SBF foundation	45 days	Sat 23/3/13	Thu 17/12/13
354	13. Drainage works	24 days	Wed 18/12/13	Fri 11/1/14
355	13.1 600U CH R-0-600 to CP1 (55m)	24 days	Wed 18/12/13	Fri 11/1/14
356	13.2 600U CH R-0-600 to CP2 (55m)	24 days	Wed 18/12/13	Fri 11/1/14
357	13.3 600U CH R-0-600 to CP3 (55m)	24 days	Wed 18/12/13	Fri 11/1/14
358	13.4 600U CH R-0-600 to CP4 (55m)	24 days	Wed 18/12/13	Fri 11/1/14
359	13.5 600U CH R-0-600 to CP5 (55m)	24 days	Wed 18/12/13	Fri 11/1/14
360	13.6 600U CH R-0-600 to CP6 (55m)	24 days	Wed 18/12/13	Fri 11/1/14
361	13.7 600U CH R-0-600 to CP7 (55m)	24 days	Wed 18/12/13	Fri 11/1/14
362	14. Erect PBF post	16 days	Wed 18/12/13	Wed 8/1/14
363	14.1 1 Bay P1 to Bay P5	16 days	Wed 18/12/13	Wed 8/1/14
364	14.2 1 Bay P6 to Bay P10	16 days	Wed 18/12/13	Wed 8/1/14
365	14.3 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
366	14.4 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
367	14.5 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
368	14.6 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
369	14.7 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
370	14.8 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
371	14.9 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
372	14.10 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
373	14.11 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
374	14.12 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
375	14.13 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
376	14.14 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
377	14.15 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
378	14.16 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
379	14.17 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
380	14.18 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
381	14.19 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
382	14.20 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
383	14.21 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
384	14.22 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
385	14.23 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
386	14.24 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
387	14.25 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
388	14.26 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
389	14.27 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
390	14.28 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
391	14.29 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
392	14.30 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
393	14.31 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
394	14.32 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
395	14.33 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
396	14.34 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
397	14.35 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
398	14.36 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
399	14.37 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
400	14.38 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
401	14.39 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
402	14.40 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
403	14.41 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
404	14.42 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
405	14.43 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
406	14.44 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
407	14.45 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
408	14.46 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
409	14.47 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
410	14.48 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
411	14.49 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
412	14.50 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
413	14.51 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
414	14.52 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
415	14.53 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
416	14.54 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
417	14.55 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
418	14.56 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
419	14.57 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
420	14.58 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
421	14.59 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
422	14.60 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
423	14.61 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
424	14.62 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
425	14.63 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
426	14.64 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
427	14.65 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
428	14.66 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
429	14.67 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
430	14.68 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
431	14.69 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
432	14.70 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
433	14.71 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14
434	14.72 F15 XPM and barbed wire	24 days	Wed 18/12/13	Fri 11/1/14



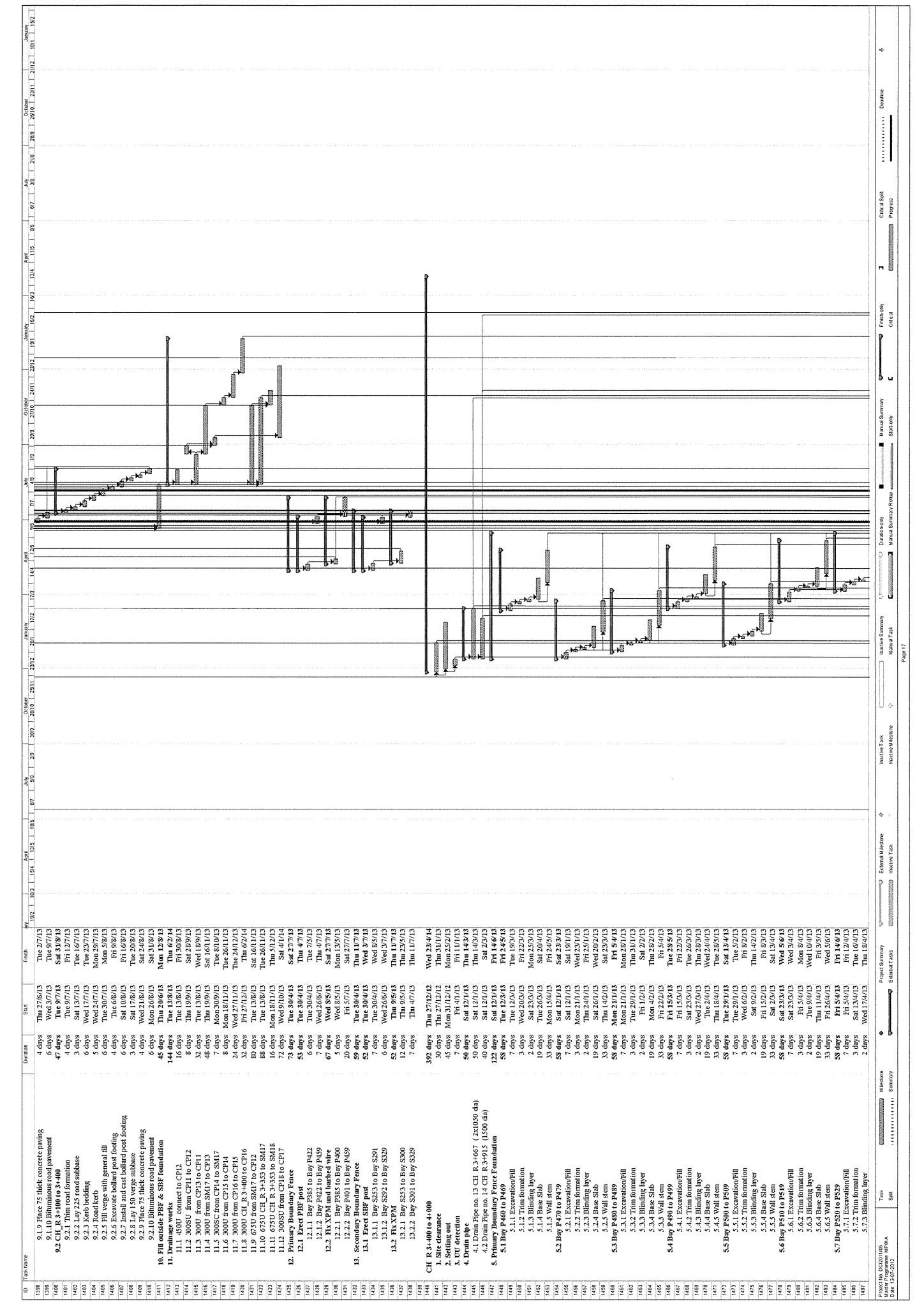
ID	Task Name	Start	Finish	Duration	Resource
864	6.9.1.3 Kerb backing	Thu 10/09/13	Thu 17/09/13	7 days	Mon 26/09/13
865	6.9.1.4 Road kerb	Wed 18/09/13	Thu 24/09/13	5 days	Mon 26/09/13
866	6.9.1.5 Fill verge with general fill	Wed 25/09/13	Thu 01/10/13	7 days	Mon 26/09/13
867	6.9.1.6 Excavate bollard post footing	Thu 01/10/13	Thu 08/10/13	7 days	Mon 26/09/13
868	6.9.1.7 Install and cast bollard post footing	Wed 09/10/13	Thu 17/10/13	7 days	Mon 26/09/13
869	6.9.1.8 Lay 150 verge subbase	Thu 17/10/13	Thu 24/10/13	4 days	Mon 26/09/13
870	6.9.1.9 Place 75 thick concrete paving	Wed 23/10/13	Mon 04/11/13	4 days	Mon 26/09/13
871	6.9.1.10 Kerb backing	Mon 04/11/13	Mon 11/11/13	7 days	Mon 26/09/13
872	6.9.1.11 Bituminous road pavement	Thu 14/11/13	Thu 21/11/13	6 days	Mon 26/09/13
873	6.9.2.1 Lay 250 road subbase	Thu 14/11/13	Thu 21/11/13	6 days	Mon 26/09/13
874	6.9.2.2 Lay 225 road subbase	Thu 14/11/13	Thu 21/11/13	6 days	Mon 26/09/13
875	6.9.2.3 Kerb bedding	Mon 12/08/13	Mon 19/08/13	5 days	Mon 26/09/13
876	6.9.2.4 Road kerb	Thu 22/08/13	Thu 29/08/13	5 days	Mon 26/09/13
877	6.9.2.5 Fill verge with general fill	Sat 24/08/13	Thu 29/08/13	4 days	Mon 26/09/13
878	6.9.2.6 Excavate bollard post footing	Thu 29/08/13	Thu 05/09/13	4 days	Mon 26/09/13
879	6.9.2.7 Install and cast bollard post footing	Thu 05/09/13	Thu 12/09/13	7 days	Mon 26/09/13
880	6.9.2.8 Lay 150 verge subbase	Thu 12/09/13	Thu 19/09/13	4 days	Mon 26/09/13
881	6.9.2.9 Place 75 thick concrete paving	Wed 25/09/13	Mon 01/10/13	4 days	Mon 26/09/13
882	6.9.2.10 Kerb backing	Thu 01/10/13	Thu 08/10/13	7 days	Mon 26/09/13
883	6.9.2.11 Bituminous road pavement	Thu 08/10/13	Thu 15/10/13	6 days	Mon 26/09/13
884	6.10 Temporary Road	Thu 21/09/13	Thu 28/09/13	252 days	Mon 26/09/13
885	6.10.1 TBP03 CH R.2-100 to CH R.2-100	Thu 21/09/13	Thu 28/09/13	37 days	Mon 26/09/13
886	6.10.1.1 Fill or cut to road formation	Thu 12/11/13	Thu 19/11/13	4 days	Mon 26/09/13
887	6.10.1.2 Trim road formation	Sat 16/11/13	Thu 21/11/13	2 days	Mon 26/09/13
888	6.10.1.3 Lay sub-base	Thu 14/03/13	Thu 21/03/13	7 days	Mon 26/09/13
889	6.10.1.4 Erect temporary Security Fence Post	Thu 21/11/13	Thu 28/11/13	4 days	Mon 26/09/13
890	6.10.1.5 Concrete road pavement	Thu 28/11/13	Thu 05/12/13	4 days	Mon 26/09/13
891	6.10.1.6 Fix PBF and SBF	Thu 05/12/13	Thu 12/12/13	10 days	Mon 26/09/13
892	6.10.1.7 Install cables, CCTV, lighting, etc for Security Fence	Mon 16/12/13	Mon 23/12/13	7 days	Mon 26/09/13
893	6.10.1.8 Connect PBF, SBF, cables, etc to existing system	Thu 24/12/13	Thu 31/12/13	1 day	Mon 26/09/13
894	6.10.2 TBP04 CH R.2-110 to CH R.2-215	Thu 21/09/13	Thu 28/09/13	40 days	Mon 26/09/13
895	6.10.2.1 Fill or cut to road formation	Thu 21/09/13	Thu 28/09/13	5 days	Mon 26/09/13
896	6.10.2.2 Trim road formation	Wed 27/02/13	Thu 06/03/13	3 days	Mon 26/09/13
897	6.10.2.3 Lay sub-base	Sat 23/03/13	Thu 28/03/13	3 days	Mon 26/09/13
898	6.10.2.4 Erect temporary Security Fence Post	Wed 06/03/13	Thu 13/03/13	8 days	Mon 26/09/13
899	6.10.2.5 Concrete road pavement	Wed 20/03/13	Thu 27/03/13	4 days	Mon 26/09/13
900	6.10.2.6 Fix PBF and SBF	Wed 20/03/13	Thu 27/03/13	15 days	Mon 26/09/13
901	6.10.2.7 Install cables, CCTV, lighting, etc for Security Fence	Thu 11/04/13	Thu 18/04/13	10 days	Mon 26/09/13
902	6.10.2.8 Connect PBF, SBF, cables, etc to existing system	Thu 23/04/13	Thu 30/04/13	1 day	Mon 26/09/13
903	6.10.3 TBP05 CH R.2-355 to CH R.2-435	Thu 21/09/13	Thu 28/09/13	40 days	Mon 26/09/13
904	6.10.3.1 Fill or cut to road formation	Thu 21/09/13	Thu 28/09/13	5 days	Mon 26/09/13
905	6.10.3.2 Trim road formation	Wed 27/02/13	Thu 06/03/13	3 days	Mon 26/09/13
906	6.10.3.3 Lay sub-base	Sat 23/03/13	Thu 28/03/13	3 days	Mon 26/09/13
907	6.10.3.4 Erect temporary Security Fence Post	Wed 06/03/13	Thu 13/03/13	8 days	Mon 26/09/13
908	6.10.3.5 Concrete road pavement	Wed 20/03/13	Thu 27/03/13	4 days	Mon 26/09/13
909	6.10.3.6 Fix PBF and SBF	Wed 20/03/13	Thu 27/03/13	15 days	Mon 26/09/13
910	6.10.3.7 Install cables, CCTV, lighting, etc for Security Fence	Thu 11/04/13	Thu 18/04/13	10 days	Mon 26/09/13
911	6.10.3.8 Connect PBF, SBF, cables, etc to existing system	Thu 23/04/13	Thu 30/04/13	1 day	Mon 26/09/13
912	6.11 Fill outside PBF & SBF foundation	Mon 26/09/13	Mon 26/09/13	200 days	Mon 26/09/13
913	6.12 Drainage works	Wed 4/12/13	Thu 11/12/13	167 days	Mon 26/09/13
914	6.12.1 300U from B.C no.4 to SM13	Thu 12/03/14	Thu 19/03/14	80 days	Mon 26/09/13
915	6.12.2 300U from SM15 to SM14	Thu 14/03/14	Thu 21/03/14	87 days	Mon 26/09/13
916	6.13 Primary Boundary Fence	Mon 29/13	Mon 29/13	34 days	Mon 26/09/13
917	6.13.1 Erect PBF post	Thu 25/07/13	Thu 25/07/13	26 days	Mon 26/09/13
918	6.13.1.1 Bay P278 to Bay P297	Mon 19/08/13	Mon 19/08/13	5 days	Mon 26/09/13
919	6.13.1.2 Bay P298 to Bay P337	Thu 25/07/13	Thu 25/07/13	5 days	Mon 26/09/13
920	6.13.1.3 Bay P278 to Bay P337	Mon 29/13	Mon 29/13	29 days	Mon 26/09/13
921	6.13.2.1 Bay P278 to Bay P300	Sat 24/09/13	Sat 24/09/13	8 days	Mon 26/09/13
922	6.13.2.2 Bay P301 to Bay P337	Wed 12/06/13	Wed 12/06/13	12 days	Mon 26/09/13
923	CH R.2-500 to 2-838	Thu 11/04/13	Thu 11/04/13	334 days	Mon 26/09/13
924	1. Site clearance	Thu 27/12/12	Thu 31/12/12	30 days	Mon 26/09/13
925	2. Stiffing out	Thu 31/12/12	Thu 31/12/12	45 days	Mon 26/09/13
926	3A. UV detection	Thu 12/13	Thu 12/13	7 days	Mon 26/09/13
927	3B. Drain Pipe	Wed 27/03/13	Wed 27/03/13	60 days	Mon 26/09/13
928	3B.1 Drain Pipe No. 8 at CH R.2-4540 (900 db)	Wed 27/03/13	Wed 27/03/13	35 days	Mon 26/09/13
929	3B.2 Drain Pipe No. 9 at CH R.2-1811 (230050 db)	Wed 27/03/13	Wed 27/03/13	35 days	Mon 26/09/13
930	3B.3 Drain Pipe No. 10 at CH R.2-840 (600 db)	Wed 27/03/13	Wed 27/03/13	35 days	Mon 26/09/13
931	4. Primary Boundary Fence Foundation	Wed 27/03/13	Wed 27/03/13	60 days	Mon 26/09/13
932	4.1 Bay P338 to P347	Thu 11/04/13	Thu 11/04/13	238 days	Mon 26/09/13
933	4.1.1 Excavation/Fill	Thu 06/03/13	Thu 06/03/13	56 days	Mon 26/09/13
934	4.1.2 Trim formation	Thu 06/03/13	Thu 06/03/13	5 days	Mon 26/09/13
935	4.1.3 Blinding layer	Thu 06/03/13	Thu 06/03/13	3 days	Mon 26/09/13
936	4.1.4 Base Slab	Thu 06/03/13	Thu 06/03/13	2 days	Mon 26/09/13
937	4.1.5 Wall stem	Thu 06/03/13	Thu 06/03/13	19 days	Mon 26/09/13
938	4.2 Bay P348 to P355	Thu 06/03/13	Thu 06/03/13	33 days	Mon 26/09/13
939	4.2.1 Excavation/Fill	Thu 06/03/13	Thu 06/03/13	56 days	Mon 26/09/13
940	4.2.2 Trim formation	Thu 06/03/13	Thu 06/03/13	3 days	Mon 26/09/13
941	4.2.3 Blinding layer	Thu 06/03/13	Thu 06/03/13	3 days	Mon 26/09/13
942	4.2.4 Base Slab	Thu 06/03/13	Thu 06/03/13	2 days	Mon 26/09/13
943	4.2.5 Wall stem	Thu 06/03/13	Thu 06/03/13	2 days	Mon 26/09/13



ID	Task Name	Start	Duration	Finish
1044	4.2.4 Base Slab	Thu 10/00/13	19 days	Fri 11/11/13
1045	4.2.5 Wall stem	Sat 26/10/13	33 days	Thu 5/12/13
1046	4.3 Bay P366 to P368	Thu 25/13	58 days	Thu 19/2/13
1047	4.3.1 Excavation/Fill	Thu 19/2/13	7 days	Thu 19/2/13
1048	4.3.2 Trm formation	Wed 27/2/13	3 days	Fri 1/3/13
1049	4.3.3 Blinding layer	Mon 4/3/13	2 days	Sat 2/3/13
1050	4.3.4 Base Slab	Thu 5/3/13	19 days	Thu 26/3/13
1051	4.3.5 Wall stem	Thu 26/3/13	33 days	Thu 5/12/13
1052	4.4.1 Excavation/Fill	Fri 27/9/13	7 days	Sat 5/10/13
1053	4.4.2 Trm formation	Mon 10/10/13	2 days	Thu 10/10/13
1054	4.4.3 Blinding layer	Thu 10/10/13	2 days	Thu 10/10/13
1055	4.4.4 Base Slab	Sat 12/10/13	19 days	Mon 4/11/13
1056	4.4.5 Wall stem	Thu 29/10/13	33 days	Thu 5/12/13
1057	4.5.1 Excavation/Fill	Fri 3/5/13	56 days	Wed 10/7/13
1058	4.5.2 Trm formation	Fri 3/5/13	5 days	Wed 8/5/13
1059	4.5.3 Blinding layer	Sat 11/5/13	2 days	Sat 11/5/13
1060	4.5.4 Base Slab	Mon 13/5/13	2 days	Mon 13/5/13
1061	4.5.5 Wall stem	Thu 15/5/13	19 days	Thu 6/6/13
1062	5.1.1 Excavation/Fill	Fri 3/5/13	33 days	Thu 10/7/13
1063	5.1.2 Trm formation	Thu 5/12/13	19 days	Thu 5/12/13
1064	5.1.3 Blinding layer	Thu 5/12/13	3 days	Wed 19/10/13
1065	5.1.4 Base Slab	Fri 11/10/13	2 days	Fri 11/10/13
1066	5.1.5 Wall stem	Mon 4/11/13	19 days	Mon 4/11/13
1067	5.2.1 Excavation/Fill	Thu 29/10/13	33 days	Thu 5/12/13
1068	5.2.2 Trm formation	Thu 5/12/13	5 days	Wed 10/7/13
1069	5.2.3 Blinding layer	Fri 3/5/13	2 days	Sat 11/5/13
1070	5.2.4 Base Slab	Mon 13/5/13	2 days	Mon 13/5/13
1071	5.2.5 Wall stem	Thu 15/5/13	19 days	Thu 6/6/13
1072	6.1.1 Excavation/Fill	Thu 19/12/13	12 days	Fri 21/6/13
1073	6.1.2 Trm formation	Fri 7/6/13	10 days	Thu 22/6/13
1074	6.1.3 Blinding layer	Thu 18/12/13	12 days	Thu 18/12/13
1075	6.1.4 Base Slab	Fri 3/5/13	12 days	Thu 19/12/13
1076	6.1.5 Wall stem	Fri 6/12/13	12 days	Thu 11/7/13
1077	7.1.1 Excavation/Fill	Thu 11/7/13	190 days	Fri 8/1/14
1078	7.1.2 Trm formation	Sat 18/5/13	10 days	Thu 4/7/13
1079	7.1.3 Blinding layer	Thu 18/12/13	10 days	Wed 31/12/13
1080	7.1.4 Base Slab	Sat 18/5/13	10 days	Wed 29/5/13
1081	7.1.5 Wall stem	Fri 20/12/13	10 days	Fri 20/12/13
1082	8.1.1 Excavation/Fill	Thu 27/11/13	151 days	Mon 29/9/13
1083	8.1.2 Trm formation	Thu 27/11/13	51 days	Wed 27/11/13
1084	8.1.3 Blinding layer	Fri 5/7/13	4 days	Tue 9/7/13
1085	8.1.4 Base Slab	Wed 10/7/13	4 days	Sat 13/7/13
1086	8.1.5 Wall stem	Mon 15/7/13	5 days	Fri 19/7/13
1087	8.1.6 Excavate bollard post footing	Wed 24/7/13	4 days	Wed 24/7/13
1088	8.1.7 Install and cast bollard post footing	Thu 25/7/13	5 days	Thu 30/7/13
1089	8.1.8 Lay 150 verge subbase	Wed 31/7/13	3 days	Fri 2/8/13
1090	8.1.9 Place 75 thick concrete paving	Sat 3/8/13	6 days	Wed 14/8/13
1091	8.1.10 Kerb bedding	Thu 15/8/13	4 days	Thu 15/8/13
1092	8.1.11 Bitum paving	Thu 15/8/13	6 days	Mon 19/8/13
1093	8.2.1 Trm road formation	Tue 27/8/13	6 days	Mon 29/8/13
1094	8.2.2 Lay 225 road subbase	Mon 29/8/13	51 days	Wed 27/1/13
1095	8.2.3 Kerb bedding	Fri 27/9/13	4 days	Wed 27/1/13
1096	8.2.4 Road kerb	Mon 7/10/13	4 days	Mon 7/10/13
1097	8.2.5 Fill verge with general fill	Sat 12/10/13	5 days	Sat 12/10/13
1098	8.2.6 Excavate bollard post footing	Fri 18/10/13	4 days	Fri 18/10/13
1099	8.2.7 Install and cast bollard post footing	Thu 24/10/13	5 days	Thu 24/10/13
1100	8.2.8 Lay 150 verge subbase	Mon 28/10/13	3 days	Mon 28/10/13
1101	8.2.9 Place 75 thick concrete paving	Mon 4/11/13	6 days	Mon 4/11/13
1102	8.3.1 Bitum bedding	Fri 8/11/13	4 days	Fri 8/11/13
1103	8.3.2 Lay 225 road subbase	Wed 13/11/13	6 days	Wed 13/11/13
1104	8.3.3 Kerb bedding	Wed 27/11/13	6 days	Wed 27/11/13
1105	8.3.4 Road kerb	Thu 30/5/13	51 days	Thu 30/5/13
1106	8.3.5 Fill verge with general fill	Mon 3/6/13	4 days	Mon 3/6/13
1107	8.3.6 Excavate bollard post footing	Fri 7/6/13	4 days	Fri 7/6/13
1108	8.3.7 Install and cast bollard post footing	Fri 14/6/13	5 days	Fri 14/6/13
1109	8.3.8 Lay 150 verge subbase	Wed 19/6/13	4 days	Wed 19/6/13
1110	8.3.9 Place 75 thick concrete paving	Thu 25/6/13	3 days	Thu 25/6/13
1111	8.3.10 Kerb bedding	Fri 28/6/13	6 days	Fri 28/6/13
1112	8.3.11 Bitum bedding	Sat 6/7/13	4 days	Sat 6/7/13
1113	8.3.12 Lay 225 road subbase	Thu 11/7/13	4 days	Thu 11/7/13
1114	8.3.13 Kerb bedding	Thu 11/7/13	6 days	Thu 11/7/13
1115	8.3.14 Road kerb	Thu 11/7/13	6 days	Thu 11/7/13
1116	8.4.1 Trm road formation	Wed 27/11/13	51 days	Wed 27/11/13
1117	8.4.2 Lay 225 road subbase	Fri 27/9/13	4 days	Fri 27/9/13
1118	8.4.3 Kerb bedding	Thu 31/10/13	4 days	Thu 31/10/13
1119	8.4.4 Road kerb	Sat 12/10/13	5 days	Sat 12/10/13
1120	8.4.5 Fill verge with general fill	Thu 15/10/13	4 days	Thu 15/10/13



ID	Task Name	Start	Finish	Duration	Notes
1157	8.4.6 Excavate bollard post footing	Fri 26/10/13	Mon 28/10/13	3 days	
1158	8.4.7 Install and cast bollard post footing	Tue 29/10/13	Fri 01/11/13	4 days	
1159	8.4.8 Place 75 thick concrete paving	Fri 01/11/13	Wed 13/11/13	12 days	
1160	8.4.9 Kerb backing	Sat 02/11/13	Wed 13/11/13	12 days	
1161	8.4.10 Kerb backing	Thu 14/11/13	Wed 20/11/13	6 days	
1162	8.4.11 Bituminous road pavement	Thu 14/11/13	Wed 20/11/13	6 days	
1163	8.5 CH R 2-75S to 2-83S	Thu 14/11/13	Sat 23/11/13	9 days	
1164	8.5.1 Thin road formation	Thu 14/11/13	Fri 22/11/13	8 days	
1165	8.5.2 Lay 225 road subbase	Fri 22/11/13	Thu 28/11/13	6 days	
1166	8.5.3 Kerb bedding	Fri 22/11/13	Wed 27/11/13	5 days	
1167	8.5.4 Road kerb	Thu 28/11/13	Thu 28/11/13	1 day	
1168	8.5.5 Fill verge with general fill	Thu 28/11/13	Mon 27/10/13	3 days	
1169	8.5.6 Excavate bollard post footing	Fri 29/11/13	Mon 27/10/13	3 days	
1170	8.5.7 Install and cast bollard post footing	Mon 27/10/13	Thu 31/10/13	4 days	
1171	8.5.8 Lay 225 road subbase	Thu 31/10/13	Thu 31/10/13	1 day	
1172	8.5.9 Place 75 thick concrete paving	Thu 31/10/13	Sat 01/11/13	2 days	
1173	8.5.10 Kerb backing	Thu 31/10/13	Sat 01/11/13	2 days	
1174	8.5.11 Bituminous road pavement	Thu 31/10/13	Sat 01/11/13	2 days	
1175	9. Temporary Road	Mon 18/11/13	Sat 23/11/13	6 days	
1176	9.1 TBRP6A CH R 2-450 to CH R 2-625	Wed 31/11/13	Thu 26/09/13	49 days	
1177	9.1.1 Fill or cut to road formation	Wed 31/11/13	Mon 26/09/13	5 days	
1178	9.1.2 Thin road formation	Thu 02/12/13	Mon 26/09/13	3 days	
1179	9.1.3 Lay sub-base	Fri 06/12/13	Mon 26/09/13	3 days	
1180	9.1.4 Erect temporary Security Fence Post	Tue 13/08/13	Wed 21/08/13	8 days	
1181	9.1.5 Concrete road pavement	Thu 22/08/13	Mon 26/08/13	4 days	
1182	9.1.6 Fix PPF and SBF	Thu 22/08/13	Mon 26/08/13	4 days	
1183	9.1.7 Install cables, CCTV, lighting, etc for Security	Thu 22/08/13	Wed 28/08/13	6 days	
1184	9.1.8 Connect PPF, SBF, cables, etc to existing system	Fri 13/09/13	Wed 28/08/13	10 days	
1185	9.1.9 Connect PPF, SBF, cables, etc to existing system	Thu 26/09/13	Thu 26/09/13	1 day	
1186	9.2 TBRP6B CH R 2-725 to CH R 2-75S	Wed 31/11/13	Thu 26/09/13	49 days	
1187	9.2.1 Fill or cut to road formation	Wed 31/11/13	Mon 26/09/13	5 days	
1188	9.2.2 Thin road formation	Thu 02/12/13	Mon 26/09/13	3 days	
1189	9.2.3 Lay sub-base	Fri 06/12/13	Mon 26/09/13	3 days	
1190	9.2.4 Erect temporary Security Fence Post	Tue 13/08/13	Wed 21/08/13	8 days	
1191	9.2.5 Concrete road pavement	Thu 22/08/13	Mon 26/08/13	4 days	
1192	9.2.6 Fix PPF and SBF	Thu 22/08/13	Mon 26/08/13	4 days	
1193	9.2.7 Install cables, CCTV, lighting, etc for Security	Thu 22/08/13	Wed 28/08/13	6 days	
1194	9.2.8 Connect PPF, SBF, cables, etc to existing system	Fri 13/09/13	Wed 28/08/13	10 days	
1195	9.2.9 Connect PPF, SBF, cables, etc to existing system	Thu 26/09/13	Thu 26/09/13	1 day	
1196	10. Fill outside PPF & SBF foundation	Fri 01/12/13	Mon 13/11/14	30 days	
1197	11. Drainage works	Thu 14/11/14	Thu 14/11/14	1 day	
1198	11.1 300U CH R 2-750 to SM15	Thu 14/11/14	Thu 14/11/14	1 day	
1199	11.2 675U CH R 2-740 to SM16	Thu 14/11/14	Thu 14/11/14	1 day	
1200	11.3 300U to SM16	Thu 14/11/14	Thu 14/11/14	1 day	
1201	11.4 450U connect to CP10	Thu 14/11/14	Thu 14/11/14	1 day	
1202	11.5 450U CP10 to SM16	Thu 14/11/14	Thu 14/11/14	1 day	
1203	12. Primary Boundary Fence	Sat 18/08/13	Thu 12/09/13	18 days	
1204	Buy P338 to Bay P355	Sat 18/08/13	Thu 12/09/13	18 days	
1205	Buy P338 to Bay P355	Sat 18/08/13	Thu 12/09/13	18 days	
1206	Buy P356 to Bay P368	Fri 20/12/13	Mon 23/12/13	3 days	
1207	Buy P369 to Bay P384	Sat 18/08/13	Thu 12/09/13	18 days	
1208	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1209	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1210	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1211	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1212	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1213	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1214	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1215	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1216	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1217	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1218	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1219	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1220	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1221	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1222	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1223	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1224	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1225	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1226	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1227	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1228	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1229	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1230	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1231	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1232	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1233	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1234	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1235	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1236	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1237	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1238	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1239	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1240	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1241	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1242	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1243	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1244	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1245	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1246	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1247	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1248	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1249	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1250	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1251	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1252	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1253	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1254	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1255	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1256	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1257	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1258	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1259	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1260	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1261	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1262	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1263	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1264	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1265	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1266	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1267	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1268	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1269	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1270	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1271	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1272	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1273	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1274	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1275	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1276	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1277	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1278	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1279	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1280	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1281	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1282	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1283	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1284	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1285	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1286	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1287	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1288	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1289	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1290	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1291	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1292	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1293	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1294	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1295	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1296	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1297	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1298	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1299	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1300	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1301	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1302	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1303	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1304	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1305	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1306	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1307	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1308	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1309	Buy P385 to Bay P385	Fri 20/12/13	Mon 23/12/13	3 days	
1310	Buy P385 to Bay P385	Fri 20			



ID	Task Name	Start	Finish	Duration
1398	9.1.9 Place 75 thick concrete paving	Wed 27/6/13	Thu 27/6/13	4 days
1399	9.1.10 Bluminous road pavement	Thu 27/6/13	Thu 27/6/13	6 days
1400	9.2 CH R 3-100 to 3-400	Sat 31/8/13	Thu 9/7/13	47 days
1401	9.2.1 Trim road formation	Thu 9/7/13	Thu 9/7/13	3 days
1402	9.2.2 Lay 225 road subbase	Sat 13/7/13	Thu 9/7/13	6 days
1403	9.2.3 Kerb bedding	Mon 22/7/13	Mon 22/7/13	5 days
1404	9.2.4 Road kerb	Mon 22/7/13	Mon 22/7/13	6 days
1405	9.2.5 Fill verge with general fill	Fri 26/7/13	Fri 26/7/13	4 days
1406	9.2.6 Excavate bollard post footing	Fri 26/7/13	Fri 26/7/13	6 days
1407	9.2.7 Install and cast bollard post footing	Sat 27/7/13	Sat 27/7/13	5 days
1408	9.2.8 Place 75 thick concrete paving	Mon 29/7/13	Mon 29/7/13	4 days
1409	9.2.9 Place 75 thick concrete paving	Mon 29/7/13	Mon 29/7/13	4 days
1410	9.2.10 Bluminous road pavement	Mon 29/7/13	Mon 29/7/13	4 days
1411	10. Fill outside PBF & SRF foundation	Mon 29/7/13	Mon 29/7/13	4 days
1412	11. Drainage works	Mon 29/7/13	Mon 29/7/13	4 days
1413	11.1. 450U connect to CP12	Thu 13/8/13	Thu 13/8/13	144 days
1414	11.2. 300SU from CP11 to CP12	Thu 13/8/13	Thu 13/8/13	16 days
1415	11.3. 300U from CP13 to CP11	Thu 13/8/13	Thu 13/8/13	8 days
1416	11.4. 300U from SM17 to CP13	Wed 18/8/13	Wed 18/8/13	32 days
1417	11.5. 300SC from CP14 to SM17	Thu 19/8/13	Thu 19/8/13	48 days
1418	11.6. 300U from CP15 to CP14	Mon 30/8/13	Mon 30/8/13	7 days
1419	11.7. 300U from CP16 to CP15	Mon 30/8/13	Mon 30/8/13	8 days
1420	11.8. 650U from SM12 to CP16	Wed 21/8/13	Wed 21/8/13	32 days
1421	11.9. 650U from SM12 to CP12	Thu 13/8/13	Thu 13/8/13	88 days
1422	11.10. 675U CH R 3-353 to SM17	Thu 13/8/13	Thu 13/8/13	88 days
1423	11.11. 675U CH R 3-353 to SM18	Mon 18/11/13	Mon 18/11/13	16 days
1424	11.12. 300SU from CP18 to CP17	Wed 9/10/13	Sat 4/1/14	73 days
1425	12. Primary Boundary Fence	Thu 4/7/13	Thu 4/7/13	53 days
1426	12.1.1. Bay P385 to Bay P422	Thu 4/7/13	Thu 4/7/13	6 days
1427	12.1.2. Bay P422 to Bay P459	Wed 26/6/13	Thu 4/7/13	7 days
1428	12.2. Fix XPM and barbed wire	Wed 26/6/13	Thu 4/7/13	6 days
1429	12.2.1. Bay P385 to Bay P400	Wed 26/6/13	Thu 4/7/13	6 days
1430	12.2.2. Bay P401 to Bay P459	Mon 15/5/13	Mon 15/5/13	20 days
1431	13. Secondary Boundary Fence	Thu 4/7/13	Thu 4/7/13	20 days
1432	13.1.1. Bay S253 to Bay S291	Thu 4/7/13	Thu 4/7/13	52 days
1433	13.1.2. Bay S292 to Bay S329	Thu 4/7/13	Thu 4/7/13	7 days
1434	13.2. Fix XPM	Wed 26/6/13	Wed 26/6/13	6 days
1435	13.2.1. Bay S253 to Bay S300	Thu 9/5/13	Thu 9/5/13	12 days
1436	13.2.2. Bay S301 to Bay S329	Thu 11/7/13	Thu 11/7/13	7 days
1437	13.2.3. Bay S330 to Bay S367	Thu 11/7/13	Thu 11/7/13	7 days
1438	13.2.4. Bay S368 to Bay S405	Thu 11/7/13	Thu 11/7/13	7 days
1439	13.2.5. Bay S406 to Bay S443	Thu 11/7/13	Thu 11/7/13	7 days
1440	13.2.6. Bay S444 to Bay S481	Thu 11/7/13	Thu 11/7/13	7 days
1441	13.2.7. Bay S482 to Bay S519	Thu 11/7/13	Thu 11/7/13	7 days
1442	13.2.8. Bay S520 to Bay S557	Thu 11/7/13	Thu 11/7/13	7 days
1443	13.2.9. Bay S558 to Bay S595	Thu 11/7/13	Thu 11/7/13	7 days
1444	13.2.10. Bay S596 to Bay S633	Thu 11/7/13	Thu 11/7/13	7 days
1445	13.2.11. Bay S634 to Bay S671	Thu 11/7/13	Thu 11/7/13	7 days
1446	13.2.12. Bay S672 to Bay S709	Thu 11/7/13	Thu 11/7/13	7 days
1447	13.2.13. Bay S710 to Bay S747	Thu 11/7/13	Thu 11/7/13	7 days
1448	13.2.14. Bay S748 to Bay S785	Thu 11/7/13	Thu 11/7/13	7 days
1449	13.2.15. Bay S786 to Bay S823	Thu 11/7/13	Thu 11/7/13	7 days
1450	13.2.16. Bay S824 to Bay S861	Thu 11/7/13	Thu 11/7/13	7 days
1451	13.2.17. Bay S862 to Bay S899	Thu 11/7/13	Thu 11/7/13	7 days
1452	13.2.18. Bay S900 to Bay S937	Thu 11/7/13	Thu 11/7/13	7 days
1453	13.2.19. Bay S938 to Bay S975	Thu 11/7/13	Thu 11/7/13	7 days
1454	13.2.20. Bay S976 to Bay S1013	Thu 11/7/13	Thu 11/7/13	7 days
1455	13.2.21. Bay S1014 to Bay S1051	Thu 11/7/13	Thu 11/7/13	7 days
1456	13.2.22. Bay S1052 to Bay S1089	Thu 11/7/13	Thu 11/7/13	7 days
1457	13.2.23. Bay S1090 to Bay S1127	Thu 11/7/13	Thu 11/7/13	7 days
1458	13.2.24. Bay S1128 to Bay S1165	Thu 11/7/13	Thu 11/7/13	7 days
1459	13.2.25. Bay S1166 to Bay S1203	Thu 11/7/13	Thu 11/7/13	7 days
1460	13.2.26. Bay S1204 to Bay S1241	Thu 11/7/13	Thu 11/7/13	7 days
1461	13.2.27. Bay S1242 to Bay S1279	Thu 11/7/13	Thu 11/7/13	7 days
1462	13.2.28. Bay S1280 to Bay S1317	Thu 11/7/13	Thu 11/7/13	7 days
1463	13.2.29. Bay S1318 to Bay S1355	Thu 11/7/13	Thu 11/7/13	7 days
1464	13.2.30. Bay S1356 to Bay S1393	Thu 11/7/13	Thu 11/7/13	7 days
1465	13.2.31. Bay S1394 to Bay S1431	Thu 11/7/13	Thu 11/7/13	7 days
1466	13.2.32. Bay S1432 to Bay S1469	Thu 11/7/13	Thu 11/7/13	7 days
1467	13.2.33. Bay S1470 to Bay S1507	Thu 11/7/13	Thu 11/7/13	7 days
1468	13.2.34. Bay S1508 to Bay S1545	Thu 11/7/13	Thu 11/7/13	7 days
1469	13.2.35. Bay S1546 to Bay S1583	Thu 11/7/13	Thu 11/7/13	7 days
1470	13.2.36. Bay S1584 to Bay S1621	Thu 11/7/13	Thu 11/7/13	7 days
1471	13.2.37. Bay S1622 to Bay S1659	Thu 11/7/13	Thu 11/7/13	7 days
1472	13.2.38. Bay S1660 to Bay S1697	Thu 11/7/13	Thu 11/7/13	7 days
1473	13.2.39. Bay S1698 to Bay S1735	Thu 11/7/13	Thu 11/7/13	7 days
1474	13.2.40. Bay S1736 to Bay S1773	Thu 11/7/13	Thu 11/7/13	7 days
1475	13.2.41. Bay S1774 to Bay S1811	Thu 11/7/13	Thu 11/7/13	7 days
1476	13.2.42. Bay S1812 to Bay S1849	Thu 11/7/13	Thu 11/7/13	7 days
1477	13.2.43. Bay S1850 to Bay S1887	Thu 11/7/13	Thu 11/7/13	7 days
1478	13.2.44. Bay S1888 to Bay S1925	Thu 11/7/13	Thu 11/7/13	7 days
1479	13.2.45. Bay S1926 to Bay S1963	Thu 11/7/13	Thu 11/7/13	7 days
1480	13.2.46. Bay S1964 to Bay S2001	Thu 11/7/13	Thu 11/7/13	7 days
1481	13.2.47. Bay S2002 to Bay S2039	Thu 11/7/13	Thu 11/7/13	7 days
1482	13.2.48. Bay S2040 to Bay S2077	Thu 11/7/13	Thu 11/7/13	7 days
1483	13.2.49. Bay S2078 to Bay S2115	Thu 11/7/13	Thu 11/7/13	7 days
1484	13.2.50. Bay S2116 to Bay S2153	Thu 11/7/13	Thu 11/7/13	7 days
1485	13.2.51. Bay S2154 to Bay S2191	Thu 11/7/13	Thu 11/7/13	7 days
1486	13.2.52. Bay S2192 to Bay S2229	Thu 11/7/13	Thu 11/7/13	7 days
1487	13.2.53. Bay S2230 to Bay S2267	Thu 11/7/13	Thu 11/7/13	7 days
1488	13.2.54. Bay S2268 to Bay S2305	Thu 11/7/13	Thu 11/7/13	7 days
1489	13.2.55. Bay S2306 to Bay S2343	Thu 11/7/13	Thu 11/7/13	7 days
1490	13.2.56. Bay S2344 to Bay S2381	Thu 11/7/13	Thu 11/7/13	7 days
1491	13.2.57. Bay S2382 to Bay S2419	Thu 11/7/13	Thu 11/7/13	7 days
1492	13.2.58. Bay S2420 to Bay S2457	Thu 11/7/13	Thu 11/7/13	7 days
1493	13.2.59. Bay S2458 to Bay S2495	Thu 11/7/13	Thu 11/7/13	7 days
1494	13.2.60. Bay S2496 to Bay S2533	Thu 11/7/13	Thu 11/7/13	7 days
1495	13.2.61. Bay S2534 to Bay S2571	Thu 11/7/13	Thu 11/7/13	7 days
1496	13.2.62. Bay S2572 to Bay S2609	Thu 11/7/13	Thu 11/7/13	7 days
1497	13.2.63. Bay S2610 to Bay S2647	Thu 11/7/13	Thu 11/7/13	7 days
1498	13.2.64. Bay S2648 to Bay S2685	Thu 11/7/13	Thu 11/7/13	7 days
1499	13.2.65. Bay S2686 to Bay S2723	Thu 11/7/13	Thu 11/7/13	7 days
1500	13.2.66. Bay S2724 to Bay S2761	Thu 11/7/13	Thu 11/7/13	7 days
1501	13.2.67. Bay S2762 to Bay S2799	Thu 11/7/13	Thu 11/7/13	7 days
1502	13.2.68. Bay S2800 to Bay S2837	Thu 11/7/13	Thu 11/7/13	7 days
1503	13.2.69. Bay S2838 to Bay S2875	Thu 11/7/13	Thu 11/7/13	7 days
1504	13.2.70. Bay S2876 to Bay S2913	Thu 11/7/13	Thu 11/7/13	7 days
1505	13.2.71. Bay S2914 to Bay S2951	Thu 11/7/13	Thu 11/7/13	7 days
1506	13.2.72. Bay S2952 to Bay S2989	Thu 11/7/13	Thu 11/7/13	7 days
1507	13.2.73. Bay S2990 to Bay S3027	Thu 11/7/13	Thu 11/7/13	7 days
1508	13.2.74. Bay S3028 to Bay S3065	Thu 11/7/13	Thu 11/7/13	7 days
1509	13.2.75. Bay S3066 to Bay S3103	Thu 11/7/13	Thu 11/7/13	7 days
1510	13.2.76. Bay S3104 to Bay S3141	Thu 11/7/13	Thu 11/7/13	7 days
1511	13.2.77. Bay S3142 to Bay S3179	Thu 11/7/13	Thu 11/7/13	7 days
1512	13.2.78. Bay S3180 to Bay S3217	Thu 11/7/13	Thu 11/7/13	7 days
1513	13.2.79. Bay S3218 to Bay S3255	Thu 11/7/13	Thu 11/7/13	7 days
1514	13.2.80. Bay S3256 to Bay S3293	Thu 11/7/13	Thu 11/7/13	7 days
1515	13.2.81. Bay S3294 to Bay S3331	Thu 11/7/13	Thu 11/7/13	7 days
1516	13.2.82. Bay S3332 to Bay S3369	Thu 11/7/13	Thu 11/7/13	7 days
1517	13.2.83. Bay S3370 to Bay S3407	Thu 11/7/13	Thu 11/7/13	7 days
1518	13.2.84. Bay S3408 to Bay S3445	Thu 11/7/13	Thu 11/7/13	7 days
1519	13.2.85. Bay S3446 to Bay S3483	Thu 11/7/13	Thu 11/7/13	7 days
1520	13.2.86. Bay S3484 to Bay S3521	Thu 11/7/13	Thu 11/7/13	7 days
1521	13.2.87. Bay S3522 to Bay S3559	Thu 11/7/13	Thu 11/7/13	7 days
1522	13.2.88. Bay S3560 to Bay S3597	Thu 11/7/13	Thu 11/7/13	7 days
1523	13.2.89. Bay S3598 to Bay S3635	Thu 11/7/13	Thu 11/7/13	7 days
1524	13.2.90. Bay S3636 to Bay S3673	Thu 11/7/13	Thu 11/7/13	7 days
1525	13.2.91. Bay S3674 to Bay S3711	Thu 11/7/13	Thu 11/7/13	7 days
1526	13.2.92. Bay S3712 to Bay S3749	Thu 11/7/13	Thu 11/7/13	7 days
1527	13.2.93. Bay S3750 to Bay S3787	Thu 11/7/13	Thu 11/7/13	7 days
1528	13.2.94. Bay S3788 to Bay S3825	Thu 11/7/13	Thu 11/7/13	7 days
1529	13.2.95. Bay S3826 to Bay S3863	Thu 11/7/13	Thu 11/7/13	7 days
1530	13.2.96. Bay S3864 to Bay S3901	Thu 11/7/13	Thu 11/7/13	7 days
1531	13.2.97. Bay S3902 to Bay S3939	Thu 11/7/13	Thu 11/7/13	7 days
1532	13.2.98. Bay S3940 to Bay S3977	Thu 11/7/13	Thu 11/7/13	7 days
1533	13.2.99. Bay S3978 to Bay S4015	Thu 11/7/13	Thu 11/7/13	7 days
1534	13.2.100. Bay S4016 to Bay S4053	Thu 11/7/13	Thu 11/7/13	7 days
1535	13.2.101. Bay S4054 to Bay S4091	Thu 11/7/13	Thu 11/7/13	7 days
1536	13.2.102. Bay S4092 to Bay S4129	Thu 11/7/13	Thu 11/7/13	7 days
1537	13.2.103. Bay S4130 to Bay S4167	Thu 11/7/13	Thu 11/7/13	7 days
1538	13.2.104. Bay S4168 to Bay S4205	Thu 11/7/13	Thu 11/7/13	7 days
1539	13.2.105. Bay S4206 to Bay S4243	Thu 11/7/13	Thu 11/7/13	7 days
1540	13.2.106. Bay S4244 to Bay S4281	Thu 11/7/13	Thu 11/7/13	7 days
1541	13.2.107. Bay S4282 to Bay S4319	Thu 11/7/13	Thu 11/7/13	7 days
1542	13.2.108. Bay S4320 to Bay S4357	Thu 11/7/13	Thu 11/7/13	7 days
1543	13.2.109. Bay S4358 to Bay S4395	Thu 11/7/13	Thu 11/7/13	7 days
1544	13.2.110. Bay S4396 to Bay S4433	Thu 11/7/13	Thu 11/7/13	7 days
1545	13.2.111. Bay S4434 to Bay S4471	Thu 11/7/13	Thu 11/7/13	7 days
1546	13.2.112. Bay S4472 to Bay S4509	Thu 11/7/13	Thu 11/7/13	7 days
1547	13.2.113. Bay S4510 to Bay S4547	Thu 11/7/13	Thu 11/7/13	7 days
1548	13.2.114. Bay S4548 to Bay S4585	Thu 11/7/13	Thu 11/7/13	7 days
1549	13.			

ANNEX E

MONTHLY SUMMARY WASTE FLOW TABLE

AND

**SUMMARY TABLE FOR WORK PROCESSES
OR ACTIVITIES REQUIRING TIMBER FOR TEMPORARY WORKS**

Monthly Summary Waste Flow Table

Name of Department: DSD

Contract No.: DC/2011/06

Monthly Summary Waste Flow Table for Feb 2013

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non 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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan-12	N/A	---	---	---	---	---	---	---	---	---	---
Feb-12	N/A	---	---	---	---	---	---	---	---	---	---
Mar-12	N/A	---	---	---	---	---	---	---	---	---	---
Apr-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
Jun-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Jul-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aug-12	0.007	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep-12	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.154
Oct-12	0.003	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058
Nov-12	0.005	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042
Dec-12	0.003	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041
Jan-13	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.035
Feb-13	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015
Total	0.023	0.000	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.359

Notes :

(1) Note Used.

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Sites.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

(4) The summary table shall be submitted to the Engineer's Representative monthly together with the Waste Flow Table for review and monitoring.

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

Contract No.: DC/2011/06

Contract Title: *Reprovisioning of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District*

Report Period: Feb-13

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 (m ³)	Actual Quantities used (m ³)	Remarks
1	Transition formwork & falsework (Portion A,B,E)	Temperary formwork & falsework design	10	9	
2	Transition formwork & falsework (Portion A,B,C)	Temperary formwork & falsework design	25	18	
3	Transition formwork & falsework (Portion A,B,C,E)	Temperary formwork & falsework design	52	40	
4	Transition formwork & falsework (Portion A,B,C,E)	Temperary formwork & falsework design	77	72	
5	Transition formwork & falsework (Portion A,B,C,E)	Temperary formwork & falsework design	102	86	
6	Transition formwork & falsework (Portion A,B,C,E)	Temperary formwork & falsework design	115	103	
7	Transition formwork & falsework (Portion A,B,C,E)	Temperary formwork & falsework design	121	112	
Total Estimated Quantity of Timber Used			502		

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 Engineer's Representative monthly together with the Waste Flow Table for review and monitoring