



**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  
 THE FIRST MONTHLY EM&A REPORT FOR  
 ADVANCED WORKS UNDER EP-430/2011  
 (AUGUST 2012)**

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

**Quality Index**

<b>Date</b>	<b>Reference No.</b>	<b>Prepared By</b>	<b>Approval By</b>
11Sept 2012	TCS00599/12/600/R0028v1	 F. N. Wong Senior Environmental Consultant	 T. W. Tam Environmental Team Leader

<b>Version</b>	<b>Date</b>	<b>Description</b>
0	3 Sept 2012	First submission.
1	11Sept 2012	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\_0063L.12

14 September 2012

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  
EM&A report for Advanced Works under EP-430/2011 (August 2012)**

Reference is made to the Environmental Team's submission of the captioned report (Version 1) dated 11 September 2012 received through E-mail on 12 September 2012 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 5.4 in the captioned Environmental Permit.

Thank you for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



Roger Leung  
Independent Environmental Checker

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

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## **EXECUTIVE SUMMARY**

ES01. The Advanced Works under EP-430/2011/A has been commenced since 21 August 2012. No environmental monitoring is required for construction of the Works, according to the EM&A Manual under EP-430/2011.

## **REPORTING OF THE CONTRACT**

ES02. 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. They will be prepared and submitted separately.

ES03. This is the first monthly EM&A report (herein after “this Report”) for Advanced Works under EP-430/2011(hereinafter “the Works”), covering the construction period of the Works from 21 to 31 August 2012 (hereinafter “the Reporting Period”).

## **COMPLAINTS LOG**

ES04. No environmental complaint was registered in the Reporting Period. The complaint log is presented as follows:

Reporting Month	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
August 2012	0	0	NA

## **NOTIFICATIONS OF ANY SUMMONS AND SUCCESSFUL PROSECUTIONS**

ES05. No notifications of summons and successful prosecutions were registered during the Reporting Period.

ES06. No non-compliance with the regulatory requirements was identified in the site inspection during the Reporting Period, including the regular joint site inspection by the ER, IEC, ET and Contractor. Defects of minor environmental significance were sometimes identified and normally rectified in-situ or within the specified time prior to the next site inspection.

## **FUTURE KEY ISSUES**

ES07. Construction dust, noise and water quality continue to be the key environmental issues for the coming construction period.

ES08. 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.

ES09. Particular attention is drawn to full implementation of air quality mitigation measures, in particular the construction dust suppression measures during dusty construction activities under dry and windy conditions.

ES10. In addition, full implementation of the required water quality mitigation measures is reminded to eliminate adverse water quality impacts generated from surfaces of haul roads, stock pile of excavated materials, etc. during wet season.

ES11. Moreover, construction noise mitigation measures shall also be implemented during noisy construction works.

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## 1 BASIC INFORMATION OF THE WORKS

### DSD CONTRACT NO. DC/2011/06

1.01 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 – Reprovisioning 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”).

1.02 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** 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.

1.03 Drawing of the area within the Works showing, where appropriate, the environmental sensitive receivers and the locations of monitoring and control stations 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 construction of the Works in the first month, are shown in **Annex B**.

1.04 Action-United Environmental Services and Consulting has been commissioned by the Contractor as the Environmental Team (hereinafter “AUES” or “the ET”) to implement the environmental monitoring and audit (hereinafter “EM&A”) under the Contract.

1.05 Construction of the Advanced Works under EP-430/2011 has been commenced on 21 August 2012 after site clearance and the associated preparation works as well as completion of submission required under EP-430/2011. The Works is to be completed in August 2014 within 29 months.

1.06 Construction of the Drainage Works in North District to be implemented under EP-277/2007/A has been commenced since 21 May 2012 and is scheduled to be completed by May 2013.

1.07 No construction has been scheduled to date for the Drainage Works in North District at Ma Wat Wai.

#### **CONCURRENT PROJECTS IN THE VICINITY OF THE WORKS**

- 1.08 The following projects will be carried out concurrently in the vicinity of the Works:
- 1) 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.
  - 2) 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).
  - 3) 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**

- 1.09 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.
- 1.10 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.
- 1.11 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

### CONSTRUCTION ACTIVITIES UNDER THE WORKS

2.01 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;

2.02 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;

### EM&A REQUIREMENTS FOR THE WORKS

#### CONSTRUCTION PHASE

2.03 The EIA report has assessed potential environmental impacts to be generated from the Works. Conclusions and recommendations for EM&A during construction of the Works are presented in the EIA report and the associated EM&A Manual. They are summarized in the Updated EM&A Manual.

#### Air Quality

2.04 *Section 4.5.1* of the EIA report shows that, with implementation of dust mitigation measures stipulated in Air Pollution Control (Construction Dust) Regulation, the dust impact will be alleviated and the Works will not cause any adverse air quality impacts.

2.05 No air quality monitoring is therefore required during construction phase of the Works.

#### Construction Noise

2.06 *Section 5.11* of the EIA report demonstrates that, with implementation of the recommended mitigation measures, the construction noise levels at the representative NSRs will comply with the construction noise criterion of 75 dB(A) throughout the construction period.

2.07 No construction noise monitoring is therefore required during construction phase of the Works.

#### Water Quality

2.08 *Section 6.7.2* of the EIA presents that, with proper implementation of the recommended mitigation measures and general good construction site practices, the land based construction works is not anticipated to cause adverse water quality impacts.

2.09 No water quality monitoring is therefore required during construction phase of the Works.

#### Ecology

2.10 *Section 7.15* of the EIA report predicts that, with implementation of the proposed mitigation measures and good construction practice, no unacceptable ecological impact is anticipated.

- 2.11 According to *Section 8.8* of the EIA report, a total of one active fishpond and three abandoned fishponds were identified within 500 m of the site under the Works. However, no direct or indirect negative impacts on the pond fish culture resources are anticipated during the construction or operation of the Works.
- 2.12 No ecological monitoring is therefore required during construction phase of the Works.

**Cultural Heritage**

- 2.13 *Section 11.11* of the EIA report envisages none of the identified built heritage features to be impacted directly or indirectly by construction of the Works, as they are located far away from the site of the Works. No mitigation measures are recommended during construction phases of the Works.
- 2.14 Although archaeological survey during the EIA study identified secondary archaeological deposits at Chuk Yuen and Pak Fu Shan sections, the chance of finding in situ archaeological deposits is considered very low. However, pursuant to the Antiquities and Monuments Ordinance, the Antiquities and Monuments Office (hereinafter the “AMO”) should be informed immediately of discovery of any antiquities or supposed antiquities in the course of soil excavation works during the construction phase.
- 2.15 No archaeological monitoring is therefore required during construction phase of the Works.

**Landscape & Visual**

- 2.16 *Section 11.11* of the EIA report anticipates that, with implementation of the proposed mitigation measures, the landscape and visual impacts of the Project are considered acceptable.
- 2.17 No landscape and visual monitoring is therefore required during construction phase of the Works.

OPERATIONAL PHASE

**Air Quality**

- 2.18 Neither residual impacts nor adverse air quality and odour impacts are predicted during operation of the Works. No operational EM&A for air quality is therefore required.

**Construction Noise**

- 2.19 Neither residual impacts nor adverse noise nuisances are envisaged during operation of the Works. No operational EM&A for noise is therefore required.

**Water Quality**

- 2.20 Neither residual impacts nor adverse water quality impacts are anticipated during operation of the Works. No operational EM&A for water quality is therefore required.

**Ecology**

- 2.21 Neither direct nor indirect negative impacts on the pond fish culture resources are recommended during operation of the Works. No operational EM&A for fishery is therefore required.

**Cultural Heritage**

- 2.22 No significant impacts on the cultural heritage are concluded during operation of the Works. No operational EM&A for cultural heritage is therefore required.

**Landscape & Visual**

- 2.23 The completed landscape works including compensatory planting and riverbank landscape planting as well as planted vegetation will be monitored during the one year establishment period.
- 2.24 For the landscaping works at the river banks, specific monitoring and audit program is recommended during the operation phase.



**BASELINE MONITORING AND ESTABLISHMENT OF ENVIRONMENTAL QUALITY CRITERIA**

- 2.25 As no environmental monitoring is recommended for both construction and operational phases of the Works, baseline monitoring and the associated establishment of the environmental quality criteria, i.e. Action/ limit Levels, is not required.

**EVENT & ACTION PLAN**

- 2.26 No Event and Action Plan is recommended for both construction and operational phases. No monitoring and response mechanism for handling exceedances of environmental standards during the construction phase in collaboration with relevant parties of other concurrent projects in the vicinity is therefore applicable during construction of the Works.

**ENVIRONMENTAL PROTECTION OF THE WORKS**

- 2.27 EIA report has concluded that neither environmental monitoring nor the associated Event and Action Plan is required for the Works, provided environmental mitigation measures stipulated in the EIA report and summarized in the Updated EM&A Manual are fully implemented.
- 2.28 The environmental protection of the Works relies therefore on insurance against non-compliance or defects identified during day-to-day site inspection and environmental audit by related parties of the environmental management under the Works.
- 2.29 It is also crucial to regularly review on compliance with legal and contractual requirements of the Works.
- 2.30 Equally important is proper handling of environmental complaint, enquiries and requests for information as appropriate.

**SITE INSPECTION AND ENVIRONMENTAL AUDIT**

- 2.31 The ET will undertake site inspection of on-site practices and procedures each month. Joint site inspection and environmental audit is also 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.
- 2.32 Details of the scope and range of issues to be designed and addressed in the site inspection and environmental audit protocols are presented in *Section 6*.

**ENVIRONMENTAL REPORTING OF THE WORKS**

- 2.33 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.
- 2.34 This is the first monthly EM&A report for the Works (herein after “this Report”), covering construction period from 21 to 31 August 2012 (hereinafter “the Reporting Period”).

### **3 DATA MANAGEMENT AND DATA QA/QC CONTROL**

- 3.01 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.
- 3.02 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.
- 3.03 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

4.01 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 of Issuance by EPD	Expiry Date	Concerned Location	Status
Environmental Permit	EP-430/2011	09 July 2007	N.A.	Lin Ma Hang	Valid
Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (APCO) (Construction Dust) Regulation	N.A.	Pending EPD's response	N.A.	All Locations	The Notification was submitted to EPD on 28 May 2012
Construction Noise Permit Application under Noise Control Ordinance (NCO)	N.A.	N.A.	N.A.	N.A.	N.A.
Account for Disposal of Construction Waste	7015003	07 May 2012	N.A.	All Locations	Valid
Application for Wastewater Discharge License under Water Pollution Control Ordinance (WPCO)	Pending EPD's Approval			Lin Ma Hang	Pending EPD's Approval
Register as a Chemical Waste Producer under Waste Disposal Ordinance	Pending EPD's Approval			All Locations	Pending EPD's Approval

#### SUBMISSION OF LAYOUT PLANS

4.02 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

4.03 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

- 4.04 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

### THE REPORTING PERIOD

- 4.05 Major construction activities of the Works undertaken during the Reporting Period are listed in *Table 4-2* below:

**Table 4-2 Major Construction Activities of the Works during the Reporting Period**

Portion of the Works	Major Construction Activities
Portion A Chainage R0+00 to 2+050	a. Setting out the site boundary line and initial survey; b. Setting out of structure /fence/gate; c. Initial tree survey; and d. Underground utility detection.
Portion B Chainage R2+050 to 2+ 838	e. Setting out the site boundary line and initial survey; f. Setting out of structure /fence/gate; and g. Underground utility detection.
Portion C Chainage R2+838 to 4+ 300	h. Setting out the site boundary line and initial survey; and i. Underground utility detection.

### FORTHCOMING TWO MONTHS

- 4.06 Major construction activities of the Works for the forthcoming two months are listed in *Table 4-3* below:

**Table 4-3 Major Construction Activities of the Works for the Forthcoming Two Months**

Portion of the Works	Major Construction Activities
Portion A Chainage R0+00 to 2+050	a. Setting out the site boundary line and initial survey; b. Setting out of structure /fence/gate; c. Initial tree survey; d. Underground utility detection; e. Temporary road diversion #2 (Filling works and road formation) f. Construction of drain pipe; g. Construction of primary and secondary fence foundation; and h. Pruning, felling and transplanting of existing trees.
Portion B Chainage R2+050 to 2+ 838	a. Underground utility detection; b. Pruning, felling and transplanting of existing trees; c. Temporary road diversion #4, #5, #6 (Filling works and road formation) d. Construction of drain pipe; and e. Construction of primary fence foundation.
Portion C Chainage R2+838 to 4+ 300	a. Setting out the site boundary line and initial survey; b. Setting out of structure /fence/gate; c. Initial tree survey; d. Pruning, felling and transplanting of existing trees; e. Underground utility detection; f. Construction of drain pipe; and g. Construction of primary and secondary fence foundation;

## **EM&A ACTIVITIES**

### *BASELINE MONITORING AND ESTABLISHMENT OF ENVIRONMENTAL QUALITY CRITERIA*

- 4.07 No baseline monitoring and the associated establishment of the environmental quality criteria was conducted during the Reporting Period.

### *IMPACT MONITORING*

- 4.08 No environmental monitoring was performed during the Reporting Period.

**5 WASTE MANAGEMENT**

- 5.01 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.
- 5.02 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.
- 5.03 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.
- 5.04 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 AND ENVIRONMENTAL AUDIT

- 6.01 Weekly IEC site inspection and environmental audit and monthly ET site inspection and environmental audit were jointly conducted by representatives of the Engineer, IEC, ET and Contractor in close accordance with the Updated EM&A Manual.
- 6.02 During the Reporting Period, a total of two (2) occasions of the site inspection were conducted on 23 & 30 August 2012.

### FINDINGS/DEFICIENCIES OF THE SITE INSPECTION AND ENVIRONMENTAL AUDIT

- 6.03 No non-compliance with the relevant regulatory requirements was identified during the site inspection and environmental audit. Findings or deficiencies identified during the site inspection and environmental audit are summarized in *Table 6-1*.

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

Date	Findings / Deficiencies	Follow-Up Status
23 August 2012	Neither construction activities nor adverse environmental impacts were observed during the site inspection.  However, site clearance waste was stock piled along the site of Portion A. Seepage was also observed ponding along Portion A as result of heavy rain or composting of the site clearance waste. Regular clearance of the site clearance waste and water ponding is reminded.	Not required for general reminders.
30 August 2012	No adverse environmental impacts were observed during the site inspection.  However, full implementation of the required environmental protection measures, particularly construction dust suppression measures during dusty construction activities under dry and windy conditions and water quality mitigation measures during rainy conditions, are reminded.	

- 6.04 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

- 6.05 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

- 6.06 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 desilting of the site run off during rainy conditions, are reminded.

**7 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION**

7.01 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	0	0	NA

7.02 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	0	0	NA

**Table 7-3 Summary of Environmental Prosecution**

Reporting Month	Environmental Prosecution Statistics		
	Frequency	Cumulative	Nature
August 2012	0	0	NA



## 8 IMPACT FORECAST

### KEY ENVIRONMENTAL ISSUES

8.01 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

8.02 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**

- 9.01 No environmental monitoring is required during construction of the Works.
- 9.02 No non-compliance with the regulatory requirements was recorded in the IEC and ET regular site inspection and environmental audit 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.
- 9.03 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.
- 9.04 No environmental complaint, notification of summons or successful prosecution was registered during the Reporting Period.

### **RECOMMENDATION**

- 9.05 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.
- 9.06 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.
- 9.07 In addition, as the wet season has approached, 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.
- 9.08 Attention is also drawn to implementation of the construction noise mitigation measures during noisy construction works.

*ANNEX A*

*LOCATION PLAN FOR THE WORKS*

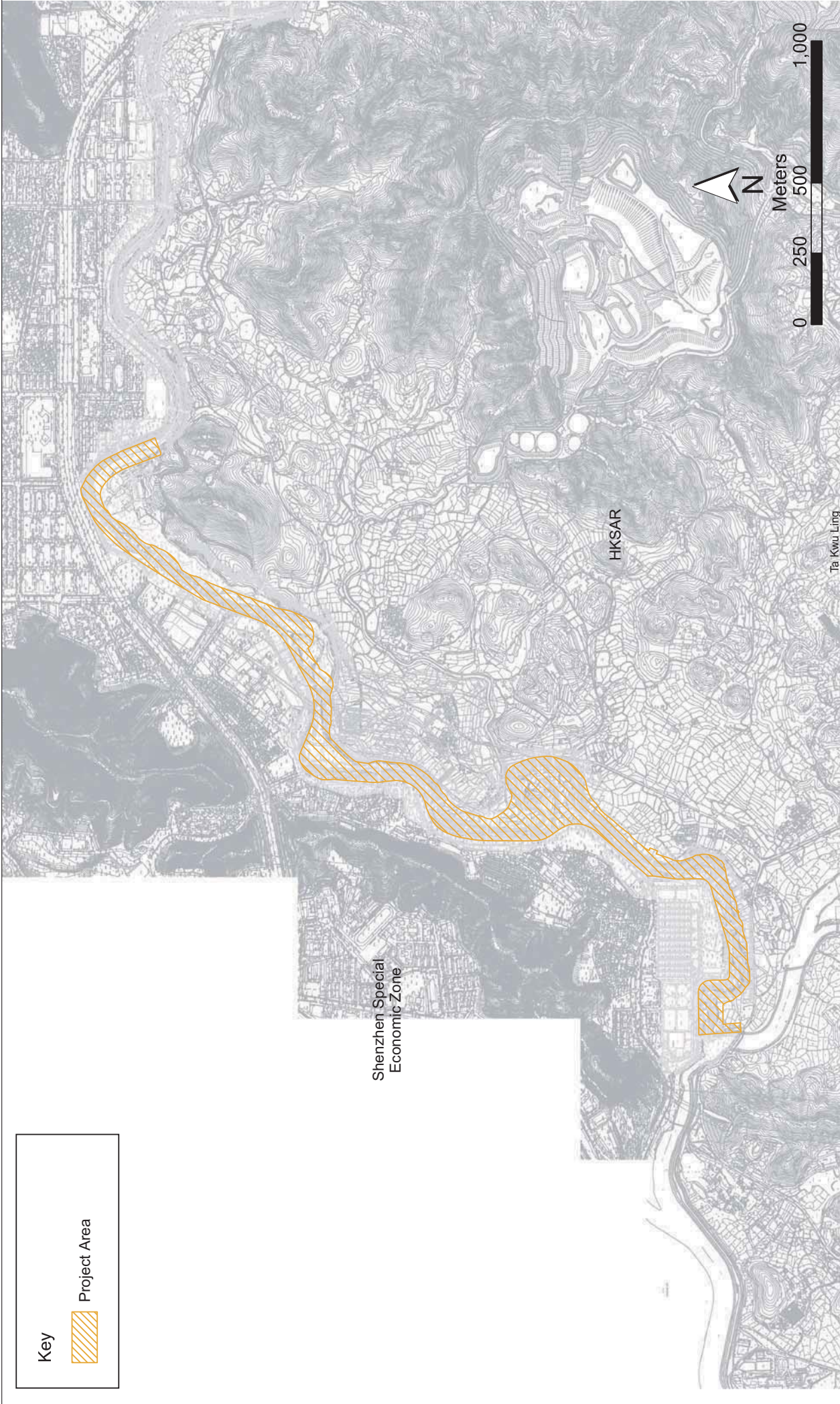
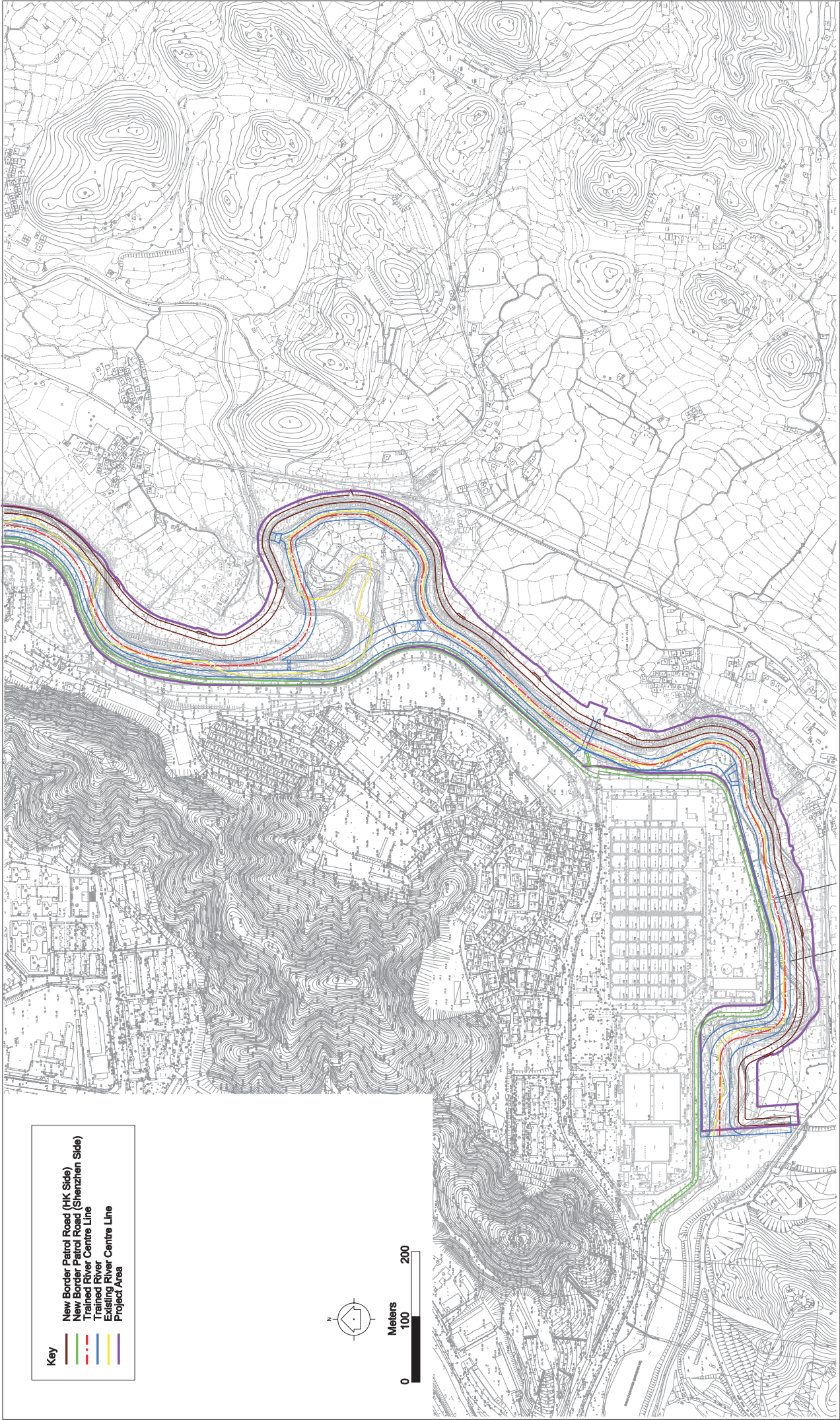


Figure A1-1

Location of Project Site



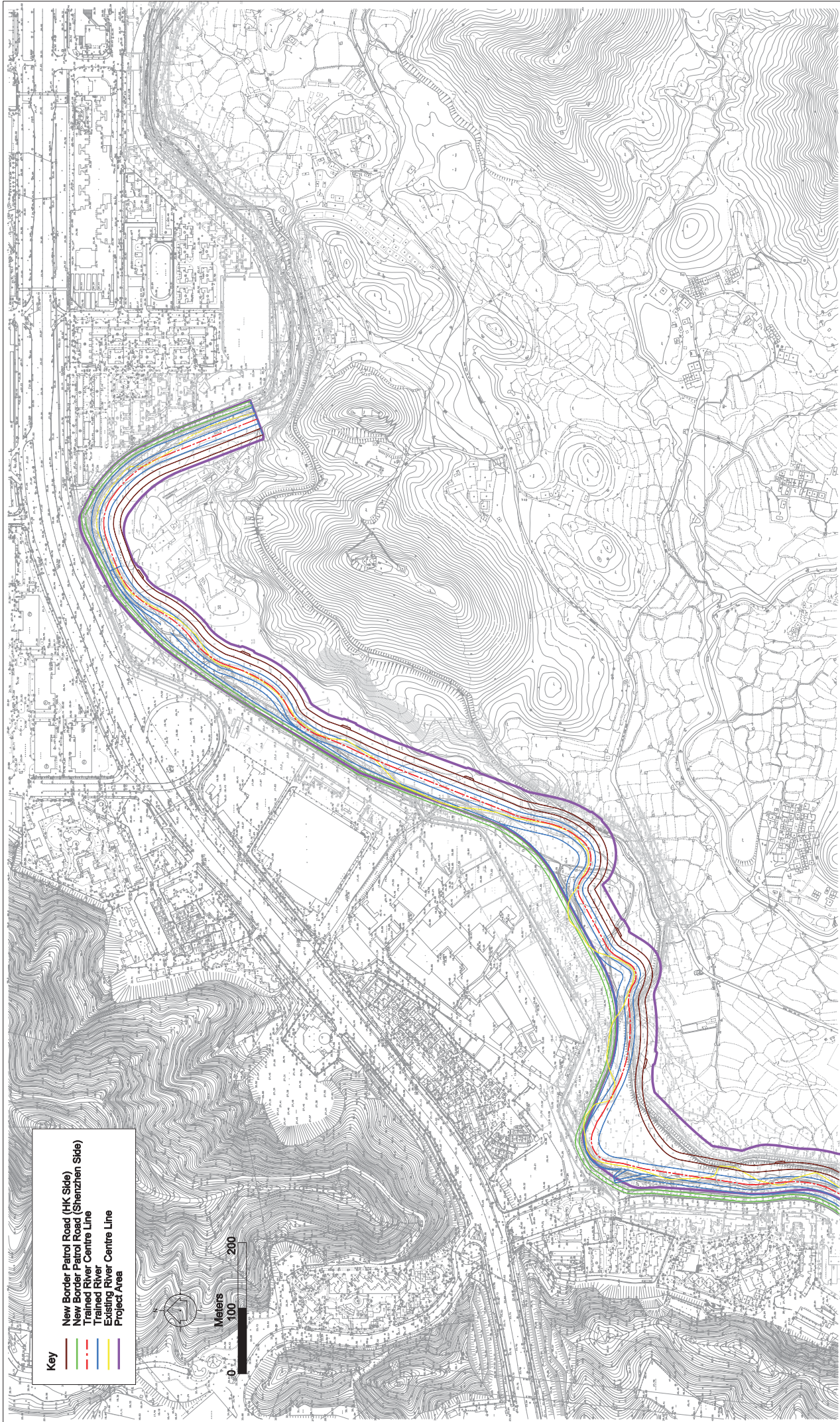
**Key**

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

N

Meters  
0 100 200

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

**Meters**

0 100 200

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

NOTES:

- 1. GRID LINES ARE NOW LONG GRID 1980.
- 2. ALL LEVELS ARE IN METRES AND REFERRED TO M.S.P.

LEGEND :

LIMIT OF THE SITE

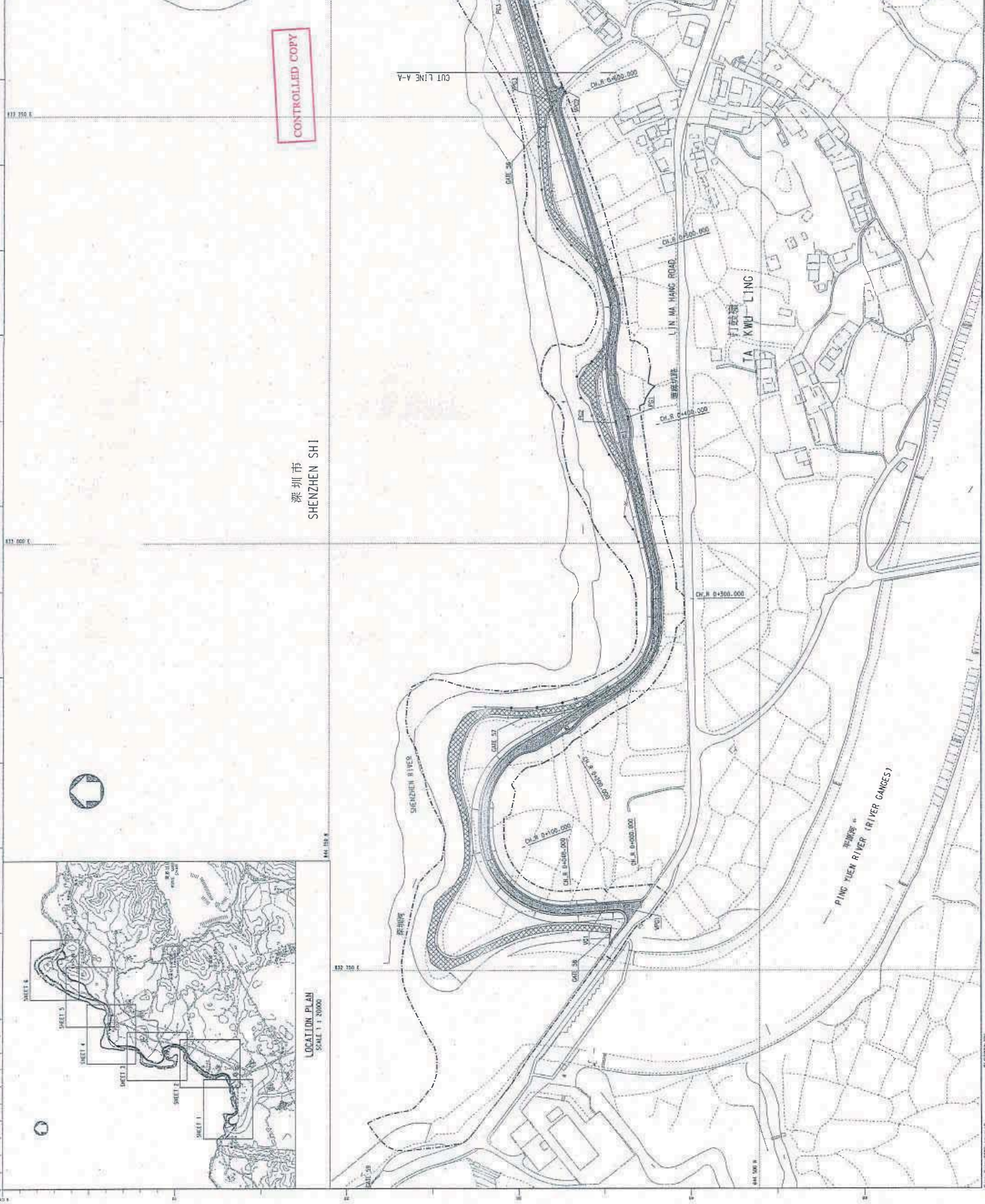
- EXISTING BOUNDARY PATROL ROAD TO BE RECONSTRUCTED
- PROPOSED BOUNDARY PATROL ROAD
- PROPOSED ASPHALT PRIMARY BOUNDARY FENCE
- PROPOSED ASPHALT SECONDARY BOUNDARY FENCE
- ASSOCIATED LAMP POST AND PILLAR BOX
- EXISTING BOUNDARY FENCE AND PILLAR BOX TO BE REPLACED WITH SATISFACTORY COMPLETION OF WORK WITH INSTRUCTIONS FROM THE ENGINEER
- EXISTING ASPHALT PRIMARY BOUNDARY FENCE TO BE MODIFIED
- EXISTING CHAIN LINK FENCE
- EXISTING CHAIN LINK FENCE TO BE REPLACED WITH SATISFACTORY COMPLETION OF WORK WITH INSTRUCTIONS FROM THE ENGINEER
- PROPOSED CUT SLOPE
- PROPOSED FILL SLOPE
- CHANGE FOR BOUNDARY ROAD
- PROPOSED VEHICULAR AND PEDESTRIAN GATE (VPG)
- PROPOSED VEHICULAR GATE (VCG)
- PROPOSED PEDESTRIAN GATE (PG)
- EXISTING GATE
- EXISTING GATE TO BE DEMOLISHED
- PILLAR BOX
- SWITCH ROOM

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SHENZHEN SHI

LOCATION PLAN  
SCALE 1:5000

CUT LINE A-A



NO.	DATE	DESCRIPTION	INITIALS
1	10/06/2011	ISSUED FOR TENDER	
2	20/06/2011	REVISED	
3	28/06/2011	REVISED	
4	28/06/2011	REVISED	
5	28/06/2011	REVISED	
6	28/06/2011	REVISED	
7	28/06/2011	REVISED	

DESIGNED BY: C. F. SIU  
CHECKED BY: W. H. YIP  
VALIDATED BY: T. C. LEE  
APPROVED BY: [Signature]  
DATE: 28/06/2011

contract no. DC/2011/06  
file no. DP/8/501808  
project no. 501808

PROVISIONING 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

SHEET 1 OF 51  
drawing no. DDP/DC1106/11021  
scale 1:1000

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DRAWN	1. 11. 05	T. K. LEE	TL
CHECKED	1. 11. 05	W. H. YOUNG	WY
VALID	1. 11. 05	T. C. LAU	TL

APPROVED  
  
 C. F. CHAN  
 CHIEF ENGINEER

contract no. DC/2011/06  
 file no. DP/8/501808  
 project no. 501808

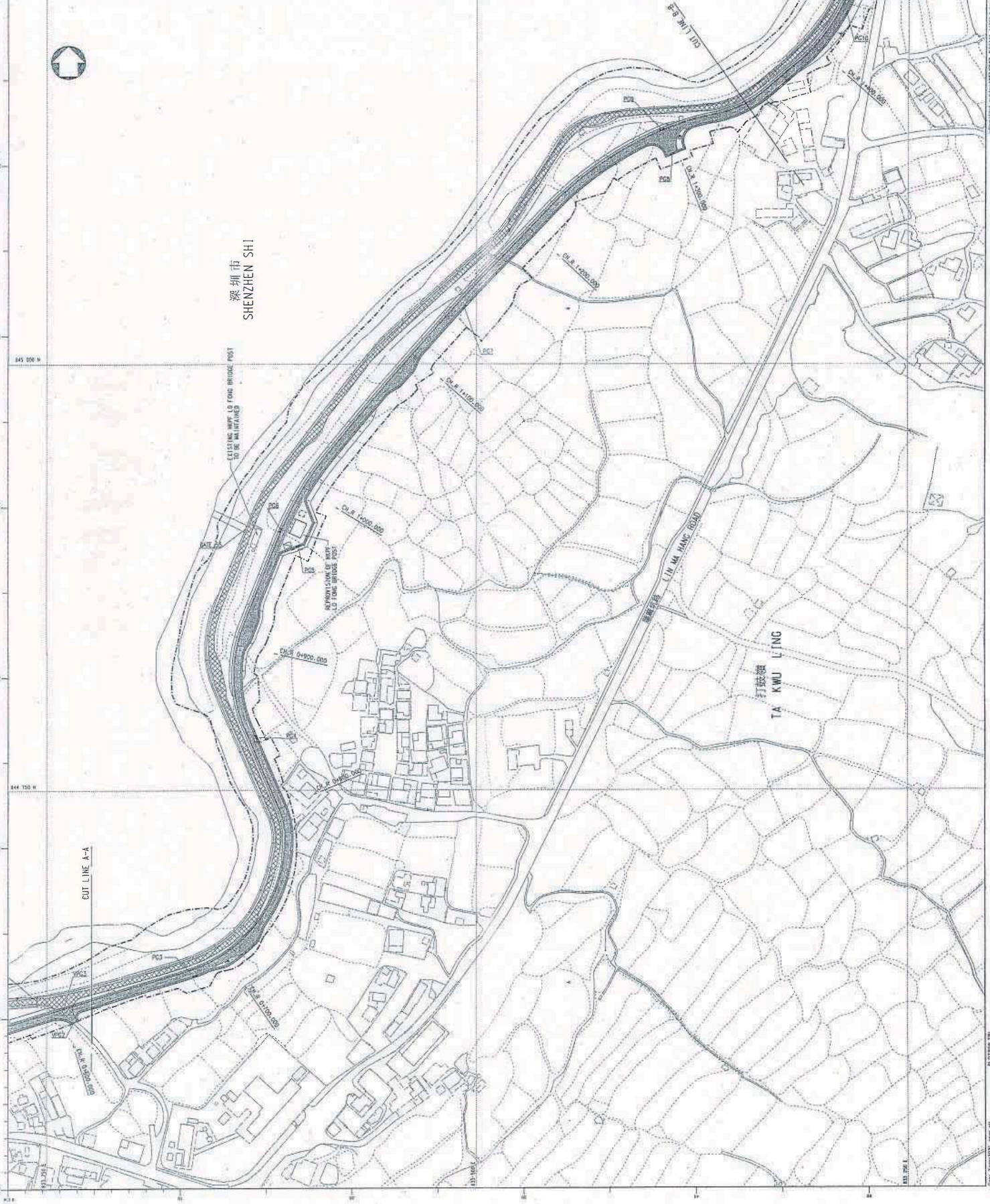
REPROVISIONING OF BOUNDARY PATROL ROAD  
 AND ASSOCIATED SECURITY FACILITIES  
 BETWEEN PING YUEN RIVER  
 AND PAK FU SHAN AND DRAINAGE WORKS  
 IN NORTH DISTRICT

drawing title  
**GENERAL LAYOUT**

(SHEET 2 OF 3)  
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checked		by: F. H. LEE	DATE: 28 NOV 2011
approved		by: F. C. LAU	DATE: 28 NOV 2011

  
 F. C. LAU  
 A/E (Civil) Engineer

contract no. DC/2011/06  
 file no. DP/8/501800  
 project no. 501800

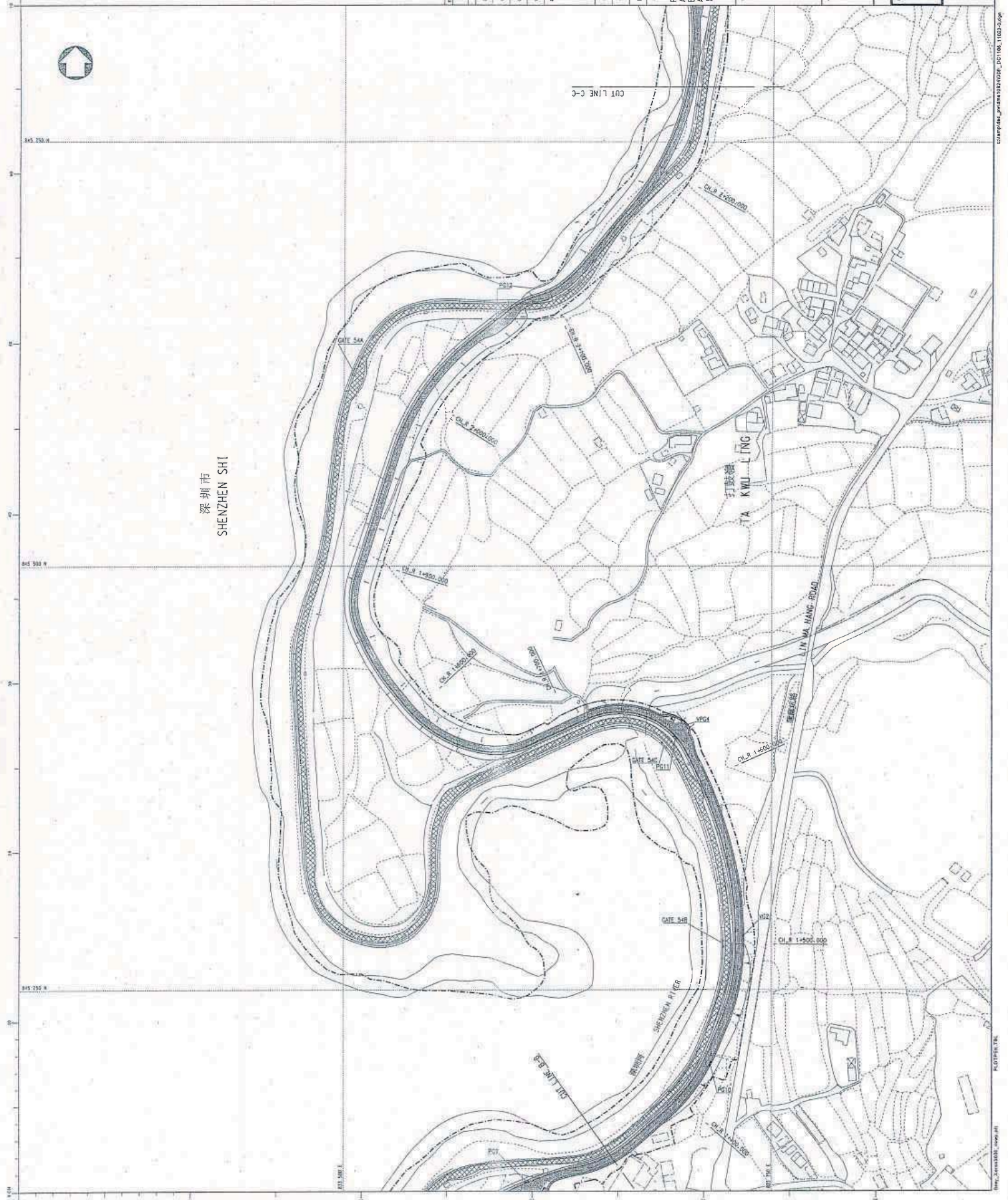
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2	28 NOV 2011	REVISED	T. N. LEE		28 NOV 2011
3	28 NOV 2011	REVISED	W. N. POON		28 NOV 2011
4	28 NOV 2011	REVISED	T. C. LAM		28 NOV 2011

approved:  T. N. LEE  
As Chief Engineer

contract no. DC/2011/06  
file no. DP/8/501808  
project no. 501808

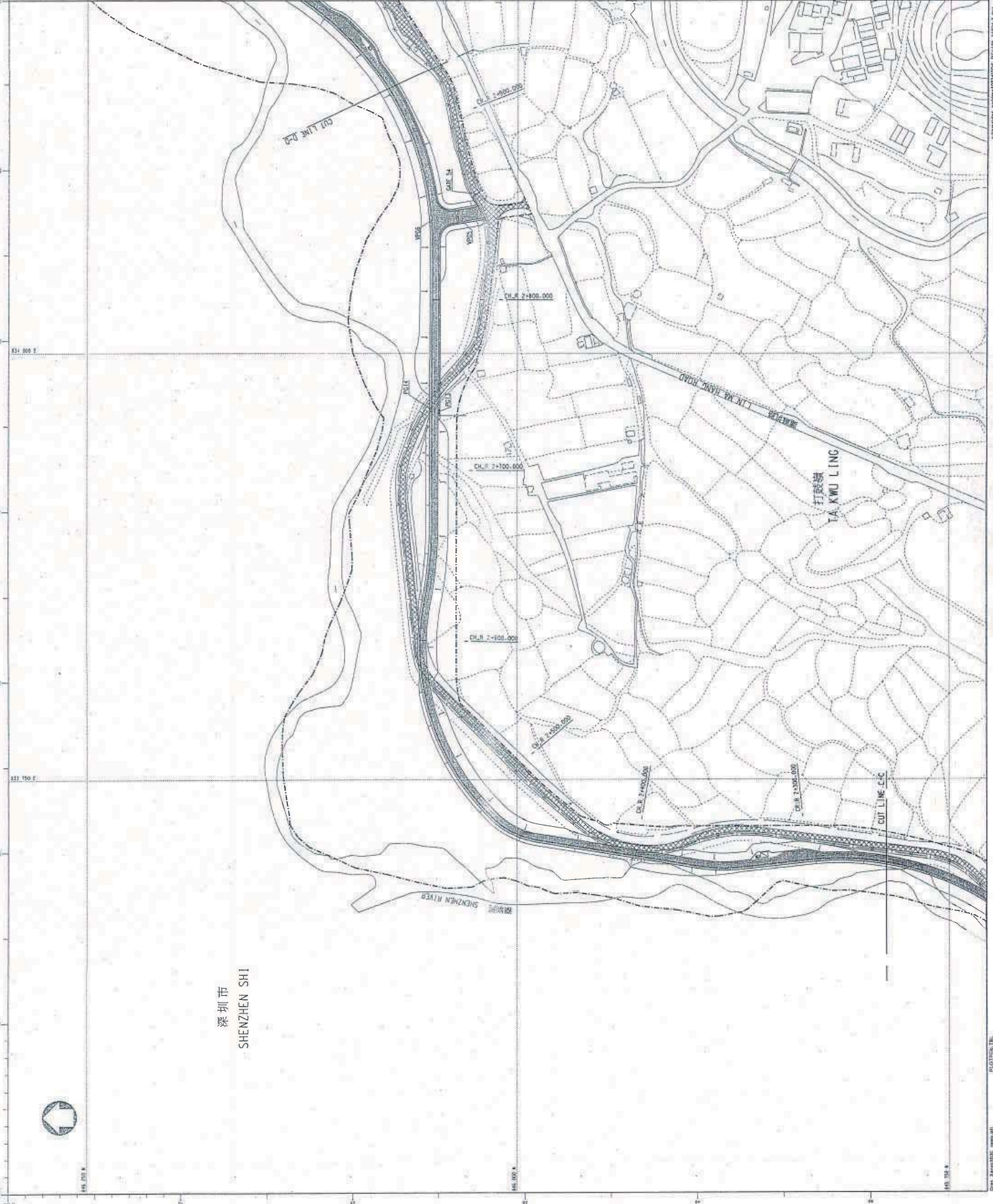
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DRAWN		F. H. LEE	28 MAY 2010
CHECKED		W. H. NG	28 MAY 2010
VERIFIED		F. C. LAU	28 MAY 2010
APPROVED			

Ag. Chief Engineer  
 K. L. SHAM  
 28 MAY 2010  
 Date

contract no. DC/2011/06  
 file no. DP/8/501808  
 project no. 501808


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

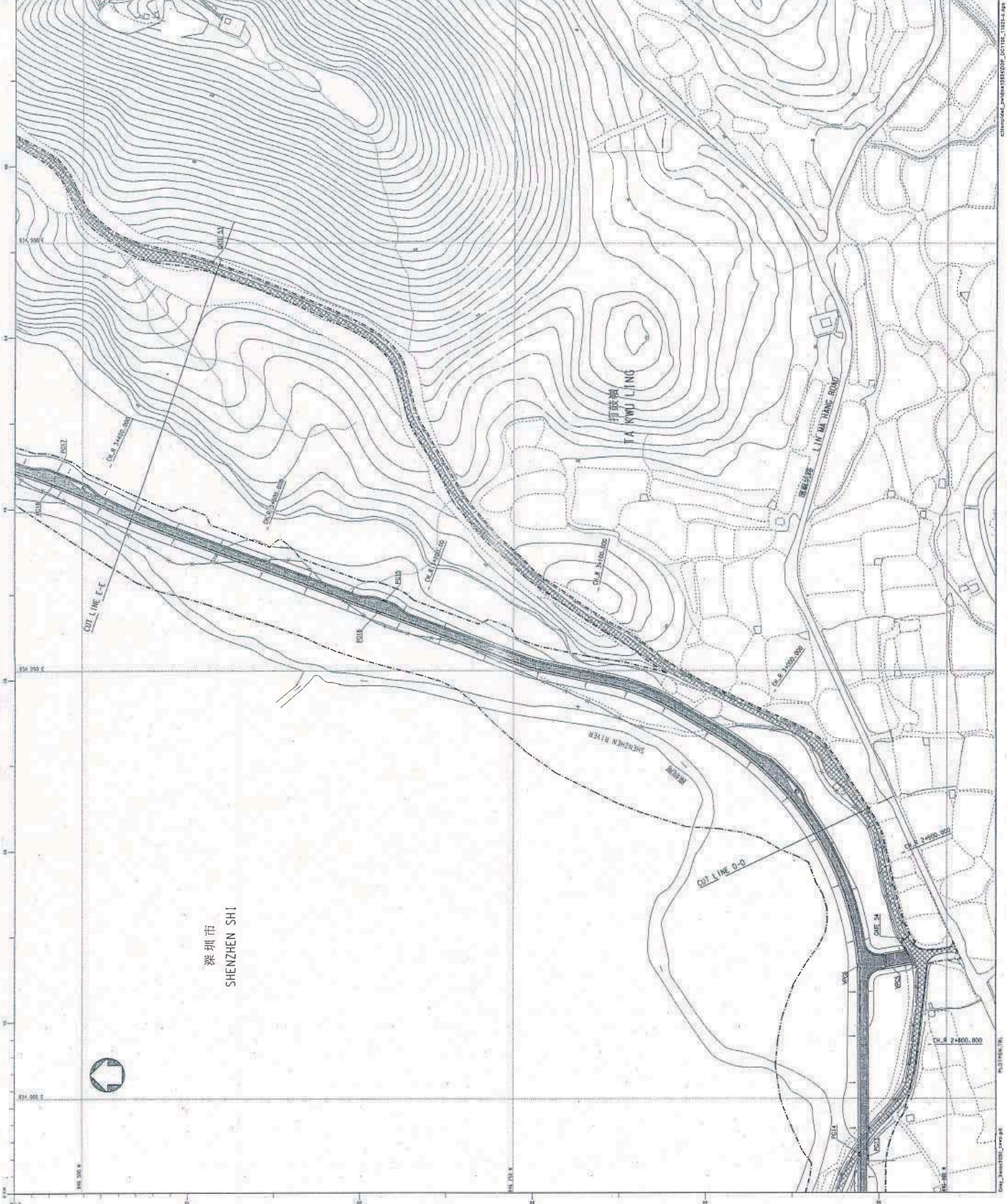
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 Scale: 1:1000  
 Project No. 501808  
 Contract No. DC/2011/06  
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3	VERIFIED	28 NOV 2011	
4	APPROVED	28 NOV 2011	

contract no. DC2011/06  
 file no. DP/8/501868  
 project no. 501808

PROVISIONING 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  
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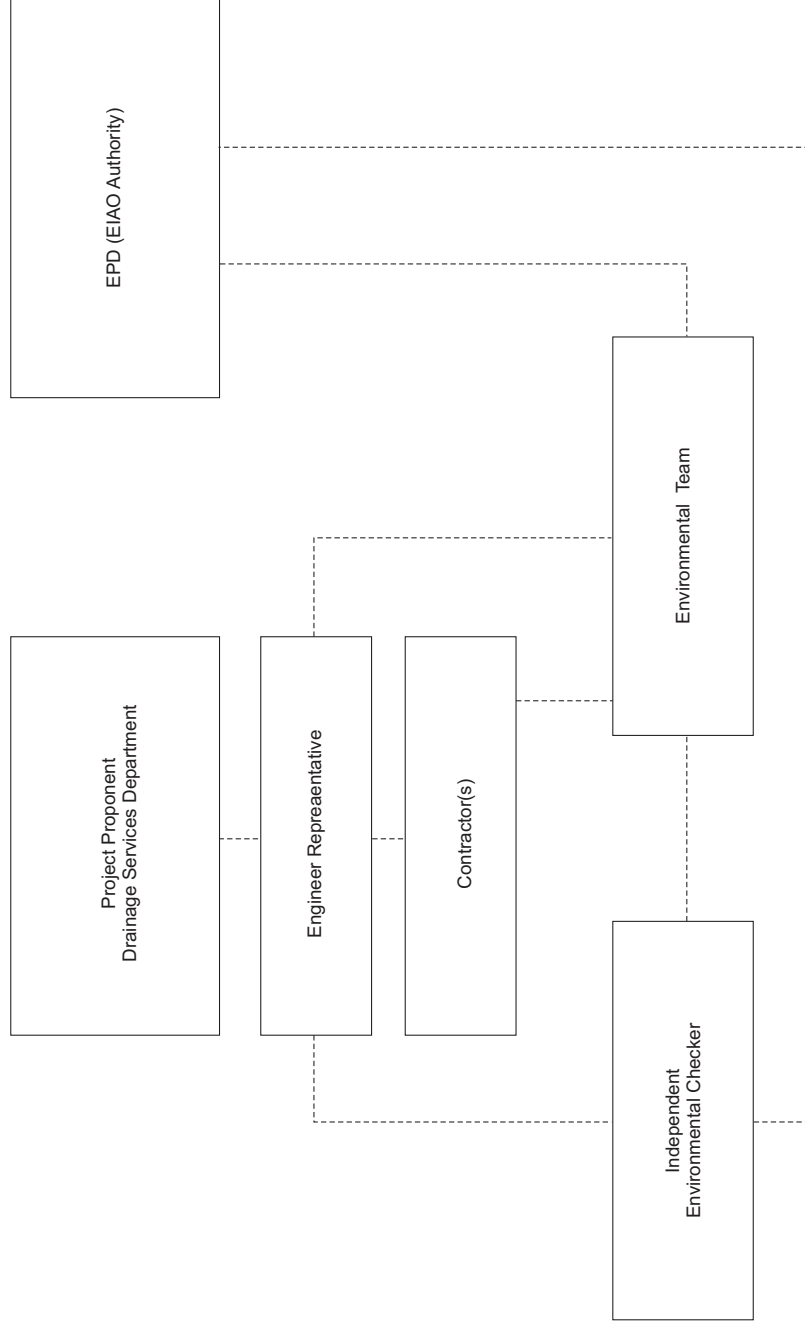
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***ANNEX B***

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



Key  
 - - - - - Line of Communication

Figure 1.7

EM&A Organisation Chart

**Contact Details of Key Personnel**

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
DSD	Project Proponent / Engineer	Mr. WH POON	2594 7450	2827 8700
Environ	Independent Environmental Checker	Mr. Roger W.K. Leung	3743 0754	3548 6988
SHCC	Project Manager	Mr. Raymond Yau	2403 1165	2640 9286
SHCC	Site Agent	Mr. Elvin Lam	2640 9230	2640 9286
SHCC	Environmental Officer	Mr. Keith Li	2640 9230	2640 9286
AUES	Environmental Team Leader	Mr. T.W. Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Mr. Wong Fu Nam	2959-6059	2959-6079
AUES	Environmental Team Supervisor	Mr. Ben Tam	2959-6059	2959-6079

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	
<b>1. Air Quality</b>							
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"> <li>i. Water spraying on haul roads and dusty areas for every hour during construction;</li> <li>ii. Covering the stockpile areas of at least 70% area with tarpaulin sheet or impervious sheet;</li> <li>iii. Covering of dusty materials/spoils on trucks by impervious sheets;</li> <li>iv. Controlling the dropping height of fill materials;</li> <li>v. Covering or storing all debris and materials in a sheltered debris collection area;</li> <li>vi. Storing dredged sediment in a separate enclosed tank; and</li> <li>vii. Providing wheel washing facility at each exit of the works site.</li> </ol>	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	✓			
<b>2. Construction Noise</b>							
S5.8	<p>The following site practices should be followed during the construction of the Project:</p> <ol style="list-style-type: none"> <li>i. Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction phase;</li> <li>ii. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction phase;</li> <li>iii. Mobile plant, if any, should be sited as far from NSRs as possible;</li> <li>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;</li> <li>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</li> <li>vi. Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li> </ol>	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 <sup>2</sup> 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
<b>3. Water Quality</b>							
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 floodplains (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						
S9.6	vi. Proper storage and site practices shall be adopted to reduce the potential for damage or contamination of construction materials						
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&amp;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&amp;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&amp;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&amp;D material include:</p> <p>i. The Contractor shall review the WMP quarterly to improve the site practice and maximise the use of inert C&amp;D material</p> <p>ii. Different sections of works shall be programmed to ensure the C&amp;D materials generated could be re-used by the other sections of works or works contracts.</p> <p>iii. Temporary storage areas should be identified to resolve programming mismatch between excavation and filling works.</p> <p>iv. The excavated soft inert C&amp;D materials should be reused for backfilling the boundary patrol road, channel embankment, etc. whenever practicable.</p> <p>v. Good quality top soil should be reused for landscaping.</p>	Whole Site / During Construction	Contractor	✓		
	<p>Ways to maximise the re-use/recycle of C&amp;D material and/or rock on site include:</p> <p>i. Recyclable materials such as wood and metal should be salvaged for reuse and inert materials utilized as public fill.</p> <p>ii. 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&amp;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.</p>	Whole Site / During Construction	Contractor	✓		
S9.6	<p>Ways to maximise the use of recycled C&amp;D materials include:</p> <p>i. 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.</p>	Whole Site / During Construction	Contractor	✓		
S9.6	<p>To reduce the potential dust impacts of the excavation works, the C&amp;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"> <li>Maintained in good condition and clearly labelled in both English and Chinese;</li> <li>Suitable for the substance they are holding, resistant to corrosion, and securely closed; and</li> <li>Capacity of less than 450 L unless the specifications have been approved by the EPD.</li> </ol>	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"> <li>Be clearly labelled and used solely for the storage of chemical waste;</li> <li>Be enclosed on at least 3 sides;</li> <li>Have adequate ventilation;</li> <li>Be arranged so that incompatible materials are appropriately separated</li> <li>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</li> <li>Be covered to prevent rainfall from entering</li> </ol>	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

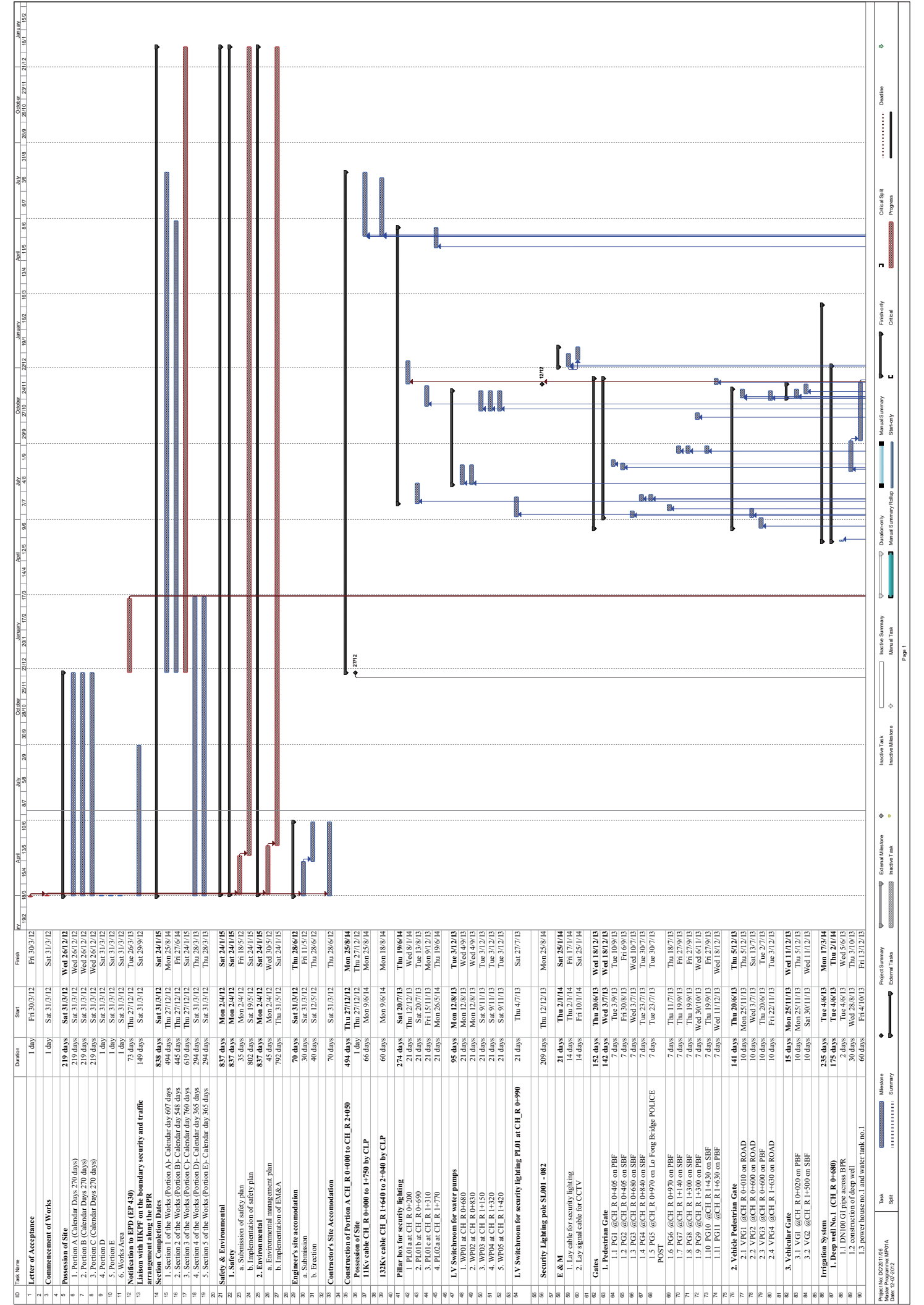
<b>6. Cultural Heritage</b>						
S11.8.1	Pursuant to the Antiquities and Monuments Ordinance, the project proponent should inform the AMO immediately in case of discovery of antiquities or supposed antiquities in the course of soil excavation works in construction stage.	Whole Site / During Construction	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
<b>7. Landscape &amp; Visual</b>						
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 river-bank 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 nonconcreted 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		✓		

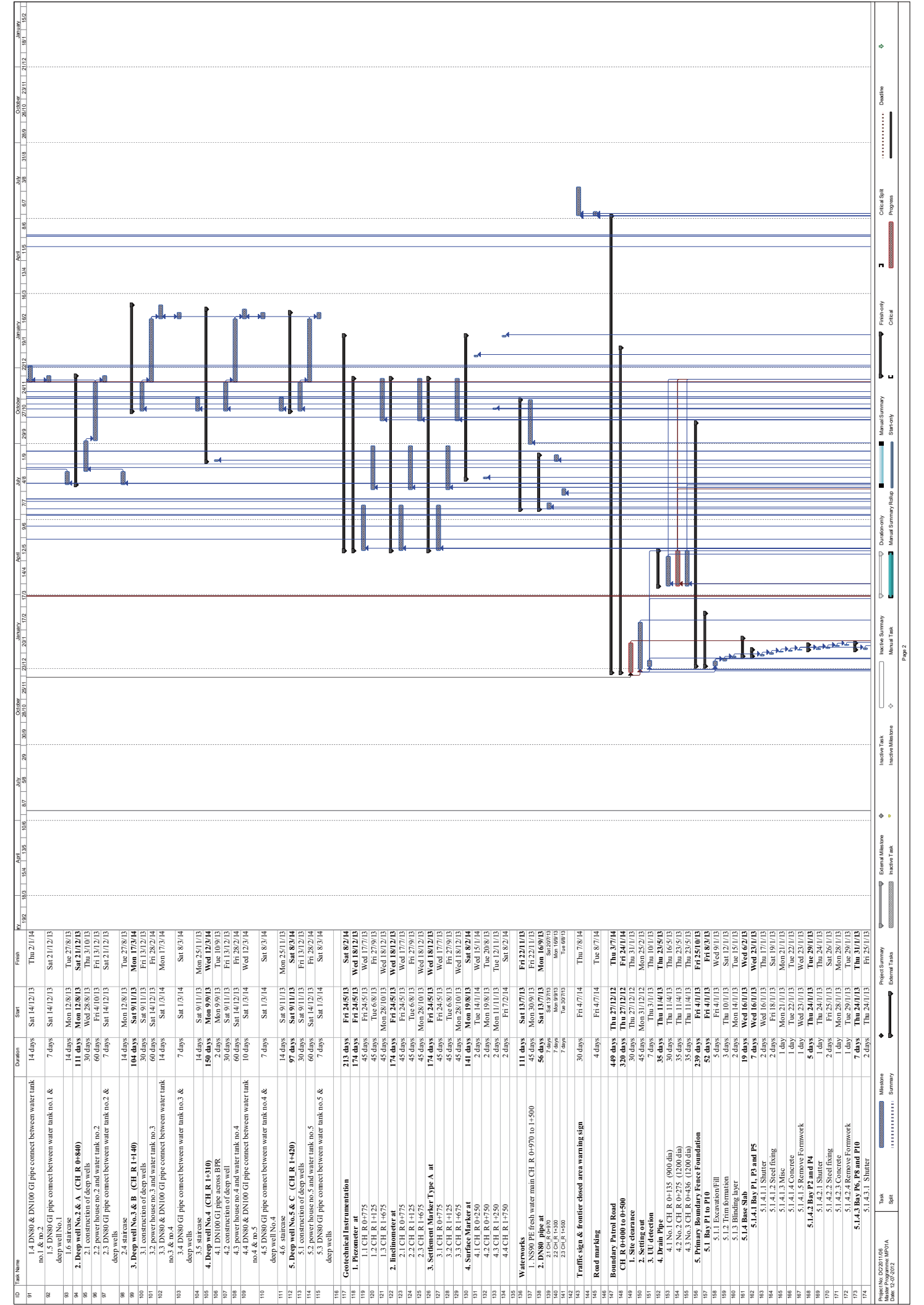


*ANNEX D*

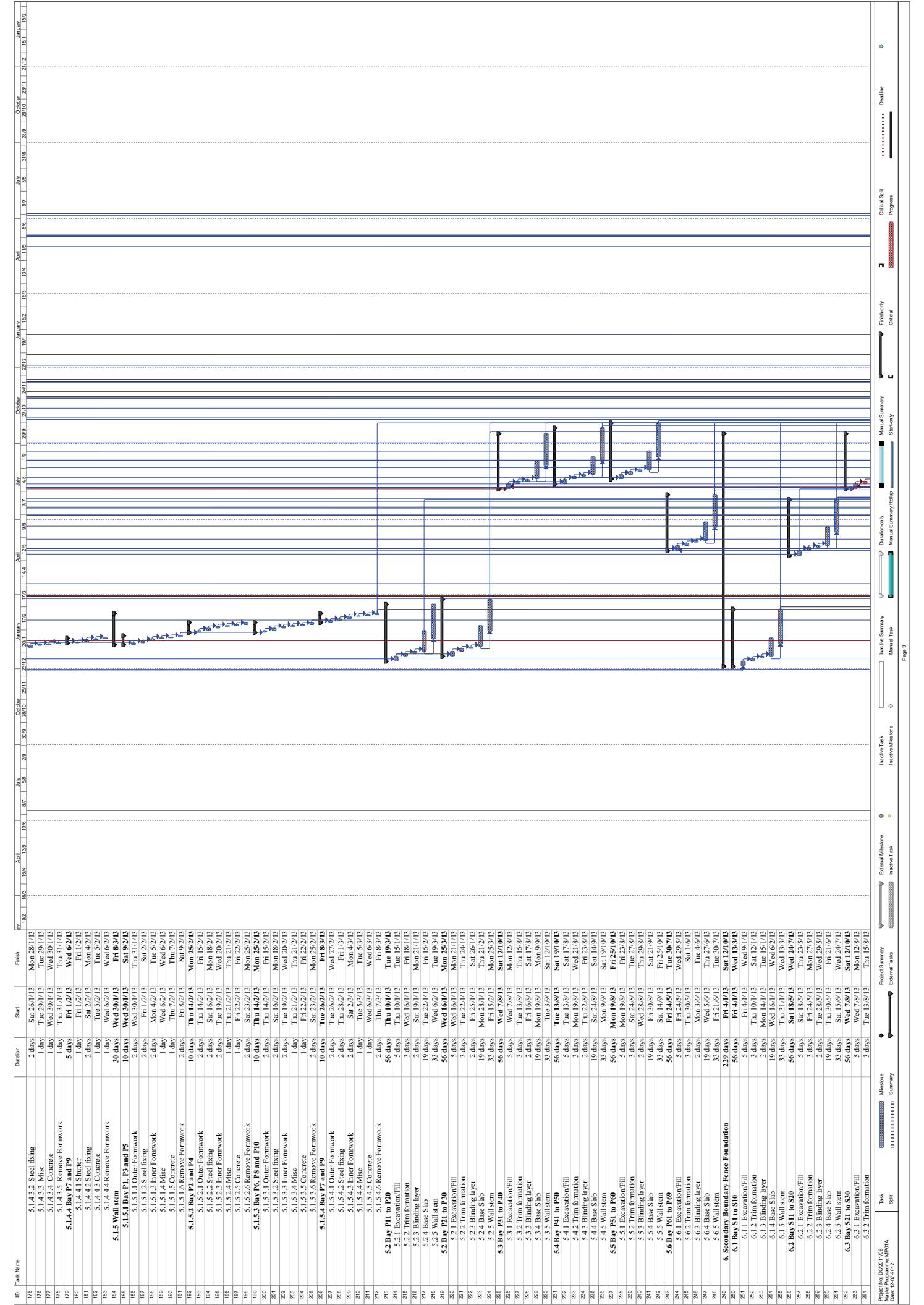
*MASTER CONSTRUCTION PROGRAM AND  
THREE MONTH ROLLING PROGRAM*



ID	Task Name	Duration	Start	Finish	KV
1	Letter of Acceptance	1 day	Fri 30/3/12	Fri 30/3/12	
2	Commencement of Works	1 day	Sat 31/3/12	Sat 31/3/12	
3	Possession of Site	219 days	Wed 26/12/12	Wed 26/12/12	
4	1. Portion A (Calendar Days 270 days)	219 days	Sat 31/3/12	Sat 31/3/12	
5	2. Portion B (Calendar Days 270 days)	219 days	Sat 31/3/12	Sat 31/3/12	
6	3. Portion C (Calendar Days 270 days)	219 days	Sat 31/3/12	Sat 31/3/12	
7	4. Portion D	1 day	Sat 31/3/12	Sat 31/3/12	
8	5. Portion E	1 day	Sat 31/3/12	Sat 31/3/12	
9	6. Works Area	1 day	Sat 31/3/12	Sat 31/3/12	
10	Notification to EPD (EP-430)	73 days	Thu 27/12/12	Tue 26/5/13	
11	Liason with HKFP on the boundary security and traffic	149 days	Sat 31/3/12	Sat 29/9/13	
12	Arrangement along the BPR	838 days	Sat 24/1/15	Sat 24/1/15	
13	1. Section 1 of the Works (Portion A)- Calendar day 697 days	697 days	Thu 27/12/12	Thu 27/12/12	
14	2. Section 2 of the Works (Portion B)- Calendar day 548 days	548 days	Thu 27/12/12	Thu 27/12/12	
15	3. Section 3 of the Works (Portion C)- Calendar day 760 days	760 days	Thu 27/12/12	Thu 27/12/12	
16	4. Section 4 of the Works (Portion D)- Calendar day 365 days	365 days	Thu 27/12/12	Thu 27/12/12	
17	5. Section 5 of the Works (Portion E)- Calendar day 365 days	365 days	Thu 27/12/12	Thu 27/12/12	
18	1. Safety	837 days	Mon 24/12	Sat 24/1/15	
19	a. Submission of safety plan	35 days	Mon 24/12	Fri 18/5/12	
20	b. Implementation of safety plan	802 days	Sat 19/5/12	Sat 24/1/15	
21	2. Environmental	837 days	Mon 24/12	Sat 24/1/15	
22	a. Environmental management plan	45 days	Mon 24/12	Wed 30/5/12	
23	b. Implementation of EMKA	792 days	Thu 31/5/12	Sat 24/1/15	
24	Engineer's site accommodation	70 days	Thu 28/6/12	Thu 28/6/12	
25	a. Submission	30 days	Sat 31/3/12	Fri 11/5/12	
26	b. Erection	40 days	Sat 12/5/12	Thu 28/6/12	
27	Contractor's Site Accomodation	70 days	Sat 31/3/12	Thu 28/6/12	
28	Construction of Portion A CH R 0-000 to CH R 2-090	494 days	Thu 27/12/12	Mon 25/8/14	
29	1. Possession of Site	1 day	Thu 27/12/12	Thu 27/12/12	
30	11kV cable CH R 0-000 to 1-750 by CLP	66 days	Mon 9/6/14	Mon 25/8/14	
31	13kV cable CH R 1-640 to 2-040 by CLP	60 days	Mon 9/6/14	Mon 18/8/14	
32	Pillar box for security lighting	274 days	Sat 20/7/13	Thu 19/6/14	
33	1. PLO1a at CH R 0-200	21 days	Thu 12/12/13	Wed 8/1/14	
34	2. PLO1b at CH R 0-690	21 days	Sat 20/7/13	Tue 13/8/13	
35	3. PLO1c at CH R 1-310	21 days	Fri 15/11/13	Mon 9/12/13	
36	4. PLO2a at CH R 1-770	21 days	Mon 26/5/14	Thu 19/6/14	
37	LV Switchroom for water pumps	95 days	Mon 12/8/13	Tue 31/2/13	
38	1. WPO1 at CH R 0-680	21 days	Mon 12/8/13	Wed 4/9/13	
39	2. WPO2 at CH R 0-940	21 days	Mon 12/8/13	Wed 4/9/13	
40	3. WPO3 at CH R 1-320	21 days	Sat 31/1/13	Tue 3/12/13	
41	4. WPO4 at CH R 1-420	21 days	Sat 9/11/13	Tue 31/2/13	
42	LV Switchroom for security lighting PL01 at CH R 0-990	21 days	Thu 4/7/13	Sat 27/7/13	
43	Security Lighting pole SL001 -082	209 days	Thu 12/12/13	Mon 25/8/14	
44	E & M	21 days	Thu 27/1/14	Sat 25/1/14	
45	1. Lay cable for security lighting	14 days	Thu 2/1/14	Fri 17/1/14	
46	2. Lay signal cable for CCTV	14 days	Fri 10/1/14	Sat 25/1/14	
47	Gates	152 days	Thu 20/6/13	Wed 18/12/13	
48	1. Pedestrian Gate	7 days	Tue 3/9/13	Tue 10/9/13	
49	1.1 PG1 @CH R 0-405 on PBF	7 days	Fri 30/8/13	Fri 6/9/13	
50	1.2 PG2 @CH R 0-405 on SBF	7 days	Wed 3/7/13	Wed 10/7/13	
51	1.3 PG3 @CH R 0-680 on SBF	7 days	Tue 23/7/13	Tue 30/7/13	
52	1.4 PG4 @CH R 0-840 on SBF	7 days	Tue 23/7/13	Tue 30/7/13	
53	1.5 PG5 @CH R 0-970 on Lo Fong Bridge POLICE POST	7 days	Thu 11/7/13	Thu 18/7/13	
54	1.6 PG6 @CH R 0-970 on PBF	7 days	Thu 11/7/13	Thu 18/7/13	
55	1.7 PG7 @CH R 1-140 on SBF	7 days	Thu 19/9/13	Fri 27/9/13	
56	1.8 PG8 @CH R 1-300 on SBF	7 days	Thu 19/9/13	Fri 27/9/13	
57	1.9 PG9 @CH R 1-500 on PBF	7 days	Wed 30/10/13	Wed 6/11/13	
58	1.10 PG10 @CH R 1-430 on SBF	7 days	Wed 30/10/13	Wed 6/11/13	
59	1.11 PG11 @CH R 1-630 on PBF	7 days	Wed 11/12/13	Wed 18/12/13	
60	2. Vehicle Pedestrian Gate	141 days	Thu 20/6/13	Thu 5/12/13	
61	2.1 VPG1 @CH R 0-010 on ROAD	10 days	Mon 25/11/13	Thu 5/12/13	
62	2.2 VPG2 @CH R 0-600 on ROAD	10 days	Wed 3/7/13	Sat 13/7/13	
63	2.3 VPG3 @CH R 0-600 on PBF	10 days	Thu 20/6/13	Tue 2/7/13	
64	2.4 VPG4 @CH R 1-630 on ROAD	10 days	Fri 22/11/13	Tue 3/12/13	
65	3. Vehicular Gate	15 days	Mon 25/11/13	Wed 11/12/13	
66	3.1 VGI @CH R 0-020 on PBF	10 days	Mon 25/11/13	Thu 5/12/13	
67	3.2 VGI @CH R 1-500 on SBF	10 days	Sat 30/11/13	Wed 11/12/13	
68	Irrigation System	235 days	Tue 4/6/13	Mon 17/5/14	
69	1. Deep well No.1 (CH R 0-680)	2 days	Tue 4/6/13	Thu 2/1/14	
70	1.1 DN100 GI pipe across BPR	30 days	Tue 4/6/13	Wed 5/6/13	
71	1.2 construction of deep well	30 days	Wed 28/8/13	Thu 31/10/13	
72	1.3 power house no.1 and water tank no.1	60 days	Fri 4/10/13	Fri 13/12/13	

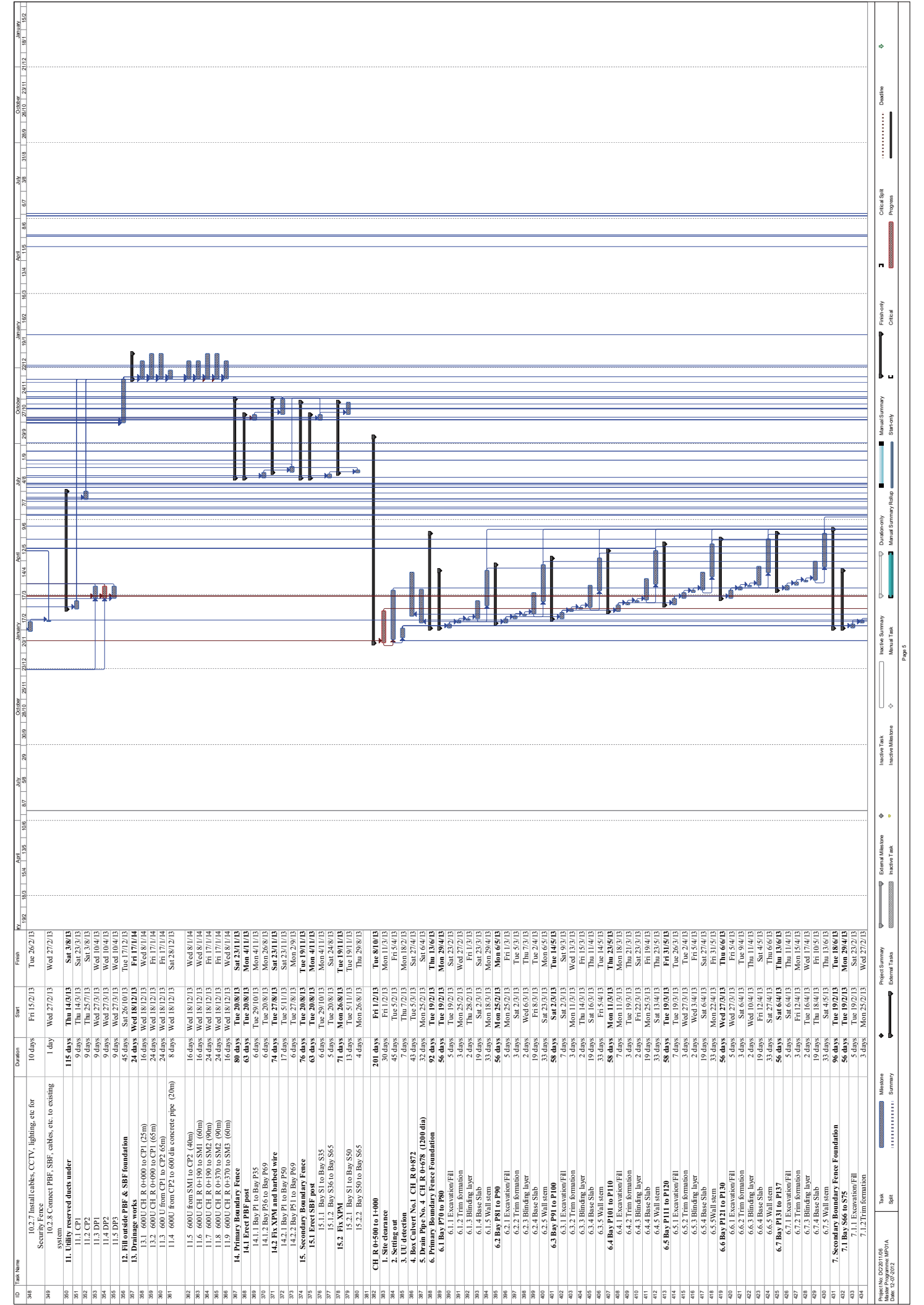


ID	Task Name	Duration	Start	Finish
91	1.4 DNSSO & DN100 GI pipe connect between water tank no.1 & no.2	14 days	Sat 14/12/13	Thu 27/1/14
92	1.5 DNSSO GI pipe connect between water tank no.1 & no.2	7 days	Sat 14/12/13	Sat 21/12/13
93	1.6 stairs	14 days	Mon 12/8/13	Tue 27/8/13
94	2. Deep well No.2 & A (CH R 0+840)	111 days	Mon 12/8/13	Sat 21/1/14
95	2.1 construction of deep wells	30 days	Wed 28/8/13	Thu 31/10/13
96	2.2 power house no.2 and water tank no.2	60 days	Fri 4/10/13	Fri 13/12/13
97	2.3 DNSSO GI pipe connect between water tank no.2 & deep wells	7 days	Sat 14/12/13	Sat 21/12/13
98	2.4 stairs	14 days	Mon 12/8/13	Tue 27/8/13
99	3. Deep well No.3 & B (CH R 1+140)	104 days	Sat 9/11/13	Mon 17/3/14
100	3.1 construction of deep wells	30 days	Sat 9/11/13	Fri 13/12/13
101	3.2 power house no.3 and water tank no.3	60 days	Sat 14/12/13	Fri 28/2/14
102	3.3 DNSSO & DN100 GI pipe connect between water tank no.3 & no.4	14 days	Sat 1/3/14	Mon 17/3/14
103	3.4 DNSSO GI pipe connect between water tank no.3 & deep wells	7 days	Sat 1/3/14	Sat 8/3/14
104	3.5 stairs	14 days	Sat 9/11/13	Mon 25/11/13
105	4. Deep well No.4 (CH R 1+310)	150 days	Mon 9/9/13	Wed 12/3/14
106	4.1 DN100 GI pipe access DPR	2 days	Mon 9/9/13	Tue 10/9/13
107	4.2 construction of deep well	30 days	Sat 14/12/13	Fri 28/2/14
108	4.3 power house no.4 and water tank no.4	60 days	Sat 14/12/13	Fri 28/2/14
109	4.4 DNSSO & DN100 GI pipe connect between water tank no.4 & no.5	10 days	Sat 1/3/14	Wed 12/3/14
110	4.5 DNSSO GI pipe connect between water tank no.4 & deep well No.4	7 days	Sat 1/3/14	Sat 8/3/14
111	4.6 stairs	14 days	Sat 9/11/13	Mon 25/11/13
112	5. Deep well No.5 & C (CH R 1+420)	97 days	Sat 9/11/13	Sat 8/3/14
113	5.1 construction of deep wells	30 days	Sat 9/11/13	Fri 13/12/13
114	5.2 power house no.5 and water tank no.5	60 days	Sat 14/12/13	Fri 28/2/14
115	5.3 DNSSO GI pipe connect between water tank no.5 & deep wells	7 days	Sat 1/3/14	Sat 8/3/14
116	<b>Geotechnical Instrumentation</b>			
117	1. Pylonometer at	213 days	Fri 24/6/13	Sat 8/2/14
118	1.1 CH R 0+775	174 days	Fri 24/6/13	Wed 18/12/13
119	1.2 CH R 1+125	45 days	Wed 27/9/13	Wed 27/9/13
120	1.3 CH R 1+675	45 days	Mon 28/10/13	Wed 18/12/13
121	2. Inclinometer at	174 days	Fri 24/6/13	Wed 18/12/13
122	2.1 CH R 0+775	45 days	Fri 24/6/13	Wed 17/7/13
123	2.2 CH R 1+125	45 days	Tue 6/8/13	Fri 27/9/13
124	2.3 CH R 1+675	45 days	Mon 28/10/13	Wed 18/12/13
125	3. Settlement Marker Type A at	174 days	Fri 24/6/13	Wed 18/12/13
126	3.1 CH R 0+775	45 days	Fri 24/6/13	Wed 17/7/13
127	3.2 CH R 1+125	45 days	Tue 6/8/13	Fri 27/9/13
128	3.3 CH R 1+675	45 days	Mon 28/10/13	Wed 18/12/13
129	4. Surface Marker at	141 days	Mon 19/8/13	Sat 8/2/14
130	4.1 CH R 0+250	2 days	Tue 14/1/14	Wed 15/1/14
131	4.2 CH R 0+750	2 days	Mon 19/8/13	Tue 20/8/13
132	4.3 CH R 1+250	2 days	Mon 11/11/13	Tue 12/11/13
133	4.4 CH R 1+750	2 days	Fri 7/2/14	Sat 8/2/14
134	Waterworks	111 days	Sat 13/7/13	Fri 22/1/14
135	1. NSDFE Fresh water main CH R 0+970 to 1+500	45 days	Mon 18/9/13	Fri 22/1/14
136	2. 1.5m dia. manhole at	50 days	Sat 13/7/13	Mon 6/9/13
137	2.1 CH R 0+070	7 days	Mon 18/9/13	Sat 20/9/13
138	2.2 CH R 1+000	7 days	Mon 18/9/13	Tue 19/9/13
139	2.3 CH R 1+500	7 days	Tue 30/7/13	Tue 6/8/13
140	Traffic sign & frontier closed area warning sign	30 days	Fri 4/7/14	Thu 7/8/14
141	Road marking	4 days	Fri 4/7/14	Tue 8/7/14
142	Boundary Patrol Road	449 days	Thu 27/12/12	Thu 3/7/14
143	CH R 0+000 to 0+500	320 days	Thu 27/12/12	Fri 24/1/14
144	1. Site clearance	30 days	Thu 27/12/12	Thu 3/1/13
145	2. Settling out	45 days	Mon 3/1/12	Mon 25/2/13
146	3. UU detection	7 days	Thu 3/1/13	Thu 10/1/13
147	4. Drain Pipe	35 days	Thu 11/4/13	Thu 25/5/13
148	4.1 No. 1 CH R 0+135 (900 dia)	30 days	Thu 11/4/13	Thu 16/5/13
149	4.2 No. 2 CH R 0+275 (1200 dia)	35 days	Thu 11/4/13	Thu 25/5/13
150	4.3 No. 3 CH R 0+420 (1200 dia)	35 days	Thu 11/4/13	Thu 25/5/13
151	5. Pre-Backfill Fence Foundation	239 days	Fri 4/1/13	Fri 15/10/13
152	5.1 Bay P1 to P10	52 days	Fri 4/1/13	Fri 8/3/13
153	5.1.1 Excavation/Fill	5 days	Fri 4/1/13	Wed 9/1/13
154	5.1.2 Firm formation	3 days	Thu 10/1/13	Sat 12/1/13
155	5.1.3 Blinding layer	2 days	Mon 14/1/13	Tue 15/1/13
156	5.1.4 Base Slab	19 days	Wed 16/1/13	Wed 6/2/13
157	5.1.4.1 Bay P1, P3 and P5	7 days	Wed 16/1/13	Wed 23/1/13
158	5.1.4.1.1 Shutter	2 days	Thu 16/1/13	Thu 17/1/13
159	5.1.4.1.2 Steel fixing	2 days	Fri 18/1/13	Sat 19/1/13
160	5.1.4.1.3 Misc	1 day	Mon 21/1/13	Mon 21/1/13
161	5.1.4.1.4 Concrete	1 day	Tue 22/1/13	Tue 22/1/13
162	5.1.4.1.5 Remove Formwork	1 day	Wed 23/1/13	Wed 23/1/13
163	5.1.4.2 Bay P2 and P4	5 days	Thu 24/1/13	Thu 29/1/13
164	5.1.4.2.1 Shutter	1 day	Fri 25/1/13	Fri 26/1/13
165	5.1.4.2.2 Steel fixing	1 day	Mon 28/1/13	Mon 28/1/13
166	5.1.4.2.3 Concrete	1 day	Fri 25/1/13	Sat 26/1/13
167	5.1.4.3 Bay P6, P8 and P10	7 days	Thu 24/1/13	Thu 31/1/13
168	5.1.4.3.1 Shutter	2 days	Thu 24/1/13	Thu 25/1/13

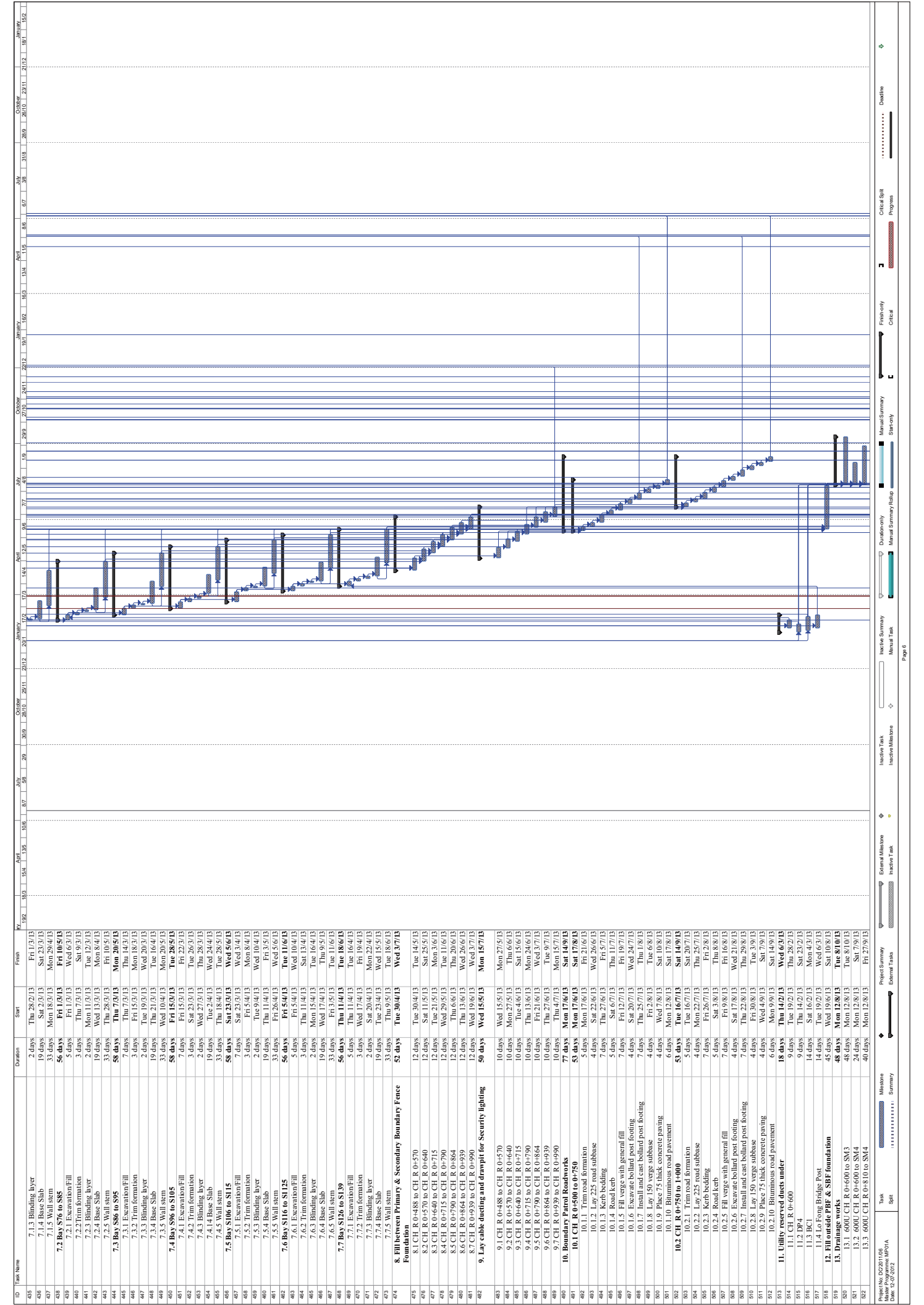


ID	Task Name	Duration	Start	Finish
175	5.1.4.3.2 Steel fixing	2 days	Sat 26/1/13	Mon 28/1/13
176	5.1.4.3.3 Misc	1 day	Tue 29/1/13	Wed 30/1/13
177	5.1.4.3.4 Concrete	1 day	Wed 31/1/13	Thu 1/2/13
178	5.1.4.3.5 Formwork	1 day	Thu 1/2/13	Fri 2/2/13
179	5.1.4.4 Bay P7 and P8	5 days	Fri 1/2/13	Wed 6/2/13
180	5.1.4.4.1 Slur	1 day	Fri 1/2/13	Fri 1/2/13
181	5.1.4.4.2 Steel fixing	1 day	Sat 2/2/13	Mon 4/2/13
182	5.1.4.4.3 Concrete	1 day	Tue 5/2/13	Tue 5/2/13
183	5.1.4.4.4 Remove Formwork	1 day	Wed 6/2/13	Wed 6/2/13
184	5.1.5 Wall stem	30 days	Wed 30/1/13	Fri 8/3/13
185	5.1.5.1 Bay P1, P3 and P5	10 days	Wed 30/1/13	Sat 9/2/13
186	5.1.5.1.1 Outer Formwork	2 days	Wed 30/1/13	Thu 31/1/13
187	5.1.5.1.2 Steel fixing	2 days	Fri 1/2/13	Sat 2/2/13
188	5.1.5.1.3 Inner Formwork	2 days	Mon 4/2/13	Tue 5/2/13
189	5.1.5.1.4 Misc	1 day	Wed 6/2/13	Wed 6/2/13
190	5.1.5.1.5 Concrete	1 day	Thu 7/2/13	Thu 7/2/13
191	5.1.5.1.6 Remove Formwork	2 days	Fri 8/2/13	Sat 9/2/13
192	5.1.5.2 Bay P2 and P4	10 days	Thu 14/2/13	Mon 25/2/13
193	5.1.5.2.1 Outer Formwork	2 days	Thu 14/2/13	Fri 15/2/13
194	5.1.5.2.2 Steel fixing	2 days	Sat 16/2/13	Mon 18/2/13
195	5.1.5.2.3 Inner Formwork	2 days	Tue 19/2/13	Wed 20/2/13
196	5.1.5.2.4 Misc	1 day	Thu 21/2/13	Thu 21/2/13
197	5.1.5.2.5 Concrete	1 day	Fri 22/2/13	Fri 22/2/13
198	5.1.5.2.6 Remove Formwork	2 days	Sat 23/2/13	Mon 25/2/13
199	5.1.5.3 Bay P6, P8 and P10	10 days	Thu 14/2/13	Mon 25/2/13
200	5.1.5.3.1 Outer Formwork	2 days	Thu 14/2/13	Fri 15/2/13
201	5.1.5.3.2 Steel fixing	2 days	Sat 16/2/13	Mon 18/2/13
202	5.1.5.3.3 Inner Formwork	2 days	Tue 19/2/13	Wed 20/2/13
203	5.1.5.3.4 Misc	1 day	Thu 21/2/13	Thu 21/2/13
204	5.1.5.3.5 Concrete	1 day	Fri 22/2/13	Fri 22/2/13
205	5.1.5.3.6 Remove Formwork	2 days	Sat 23/2/13	Mon 25/2/13
206	5.1.5.4 Bay P7 and P9	10 days	Tue 26/2/13	Fri 8/3/13
207	5.1.5.4.1 Outer Formwork	2 days	Tue 26/2/13	Wed 27/2/13
208	5.1.5.4.2 Steel fixing	2 days	Thu 28/2/13	Fri 1/3/13
209	5.1.5.4.3 Inner Formwork	2 days	Sat 2/3/13	Mon 4/3/13
210	5.1.5.4.4 Misc	1 day	Tue 5/3/13	Tue 5/3/13
211	5.1.5.4.5 Concrete	1 day	Wed 6/3/13	Wed 6/3/13
212	5.1.5.4.6 Remove Formwork	2 days	Thu 7/3/13	Fri 8/3/13
213	5.2 Bay P11 to P20	56 days	Thu 10/1/13	Tue 19/3/13
214	5.2.1 Excavation/Fill	5 days	Thu 10/1/13	Tue 15/1/13
215	5.2.2 Trim formation	2 days	Wed 16/1/13	Fri 18/1/13
216	5.2.3 Blinding layer	2 days	Sat 19/1/13	Mon 21/1/13
217	5.2.4 Base Slab	19 days	Tue 22/1/13	Fri 15/2/13
218	5.2.5 Wall stem	33 days	Wed 6/2/13	Tue 19/3/13
219	5.2 Bay P21 to P30	56 days	Wed 16/1/13	Mon 25/3/13
220	5.2.1 Excavation/Fill	5 days	Wed 16/1/13	Mon 21/1/13
221	5.2.2 Trim formation	3 days	Thu 24/1/13	Thu 24/1/13
222	5.2.3 Blinding layer	3 days	Fri 25/1/13	Fri 25/1/13
223	5.2.4 Base Slab	19 days	Mon 28/1/13	Thu 21/2/13
224	5.2.5 Wall stem	33 days	Fri 15/2/13	Mon 25/3/13
225	5.3 Bay P31 to P40	56 days	Wed 7/8/13	Sat 12/10/13
226	5.3.1 Excavation/Fill	5 days	Wed 7/8/13	Mon 12/8/13
227	5.3.2 Trim formation	3 days	Thu 13/8/13	Thu 13/8/13
228	5.3.3 Blinding layer	2 days	Sat 17/8/13	Sat 17/8/13
229	5.3.4 Base Slab	19 days	Mon 19/8/13	Mon 9/9/13
230	5.3.5 Wall stem	33 days	Tue 3/9/13	Sat 12/10/13
231	5.4 Bay P41 to P50	56 days	Tue 13/8/13	Sat 19/10/13
232	5.4.1 Excavation/Fill	5 days	Tue 13/8/13	Sat 17/8/13
233	5.4.2 Trim formation	3 days	Mon 19/8/13	Wed 21/8/13
234	5.4.3 Blinding layer	2 days	Thu 22/8/13	Fri 23/8/13
235	5.4.4 Base Slab	19 days	Sat 24/8/13	Sat 14/9/13
236	5.4.5 Wall stem	33 days	Mon 9/9/13	Sat 19/10/13
237	5.5 Bay P51 to P60	56 days	Mon 19/8/13	Fri 25/10/13
238	5.5.1 Excavation/Fill	5 days	Mon 19/8/13	Tue 23/8/13
239	5.5.2 Trim formation	2 days	Sat 24/8/13	Tue 27/8/13
240	5.5.3 Blinding layer	2 days	Wed 28/8/13	Thu 29/8/13
241	5.5.4 Base Slab	19 days	Fri 30/8/13	Sat 21/9/13
242	5.5.5 Wall stem	33 days	Sat 14/9/13	Fri 25/10/13
243	5.6 Bay P61 to P69	56 days	Fri 24/8/13	Tue 30/7/13
244	5.6.1 Excavation/Fill	3 days	Fri 24/8/13	Wed 29/8/13
245	5.6.2 Trim formation	2 days	Sat 3/9/13	Thu 3/9/13
246	5.6.3 Blinding layer	2 days	Mon 5/9/13	Mon 5/9/13
247	5.6.4 Base Slab	19 days	Mon 3/9/13	Tue 17/9/13
248	5.6.5 Wall stem	33 days	Fri 21/9/13	Thu 30/7/13
249	6. Secondary Boundary Fence Foundation	229 days	Fri 4/1/13	Sat 12/10/13
250	6.1 Bay S1 to S10	56 days	Fri 4/1/13	Wed 13/3/13
251	6.1.1 Excavation/Fill	5 days	Fri 4/1/13	Wed 9/1/13
252	6.1.2 Trim formation	3 days	Thu 10/1/13	Sat 12/1/13
253	6.1.3 Blinding layer	2 days	Mon 14/1/13	Tue 15/1/13
254	6.1.4 Base Slab	19 days	Wed 16/1/13	Wed 6/2/13
255	6.1.5 Wall stem	33 days	Thu 31/1/13	Wed 13/3/13
256	6.2 Bay S11 to S20	56 days	Sat 18/5/13	Wed 24/7/13
257	6.2.1 Excavation/Fill	5 days	Sat 18/5/13	Thu 23/5/13
258	6.2.2 Trim formation	3 days	Fri 24/5/13	Mon 27/5/13
259	6.2.3 Blinding layer	2 days	Tue 28/5/13	Wed 29/5/13
260	6.2.4 Base Slab	19 days	Thu 30/5/13	Fri 21/6/13
261	6.2.5 Wall stem	33 days	Sat 15/6/13	Wed 24/7/13
262	6.3 Bay S21 to S30	56 days	Wed 7/8/13	Sat 12/10/13
263	6.3.1 Excavation/Fill	5 days	Wed 7/8/13	Mon 12/8/13
264	6.3.2 Trim formation	3 days	Thu 13/8/13	Thu 13/8/13





ID	Task Name	Duration	Start	Finish
349	10.2.7 Install cables, CCTV, lighting, etc for Security fence	10 days	Fri 15/2/13	Tue 26/2/13
350	11.1 CP1	1 day	Wed 27/2/13	Wed 27/2/13
351	11.2 CP2	9 days	Thu 14/3/13	Sat 23/3/13
352	11.3 DP1	9 days	Thu 25/7/13	Sat 3/8/13
353	11.4 DP2	9 days	Wed 10/4/13	Wed 10/4/13
354	11.5 DP3	9 days	Wed 27/3/13	Wed 10/4/13
355	12. Fill outside PBF & SBF foundation	45 days	Sat 26/10/13	Tue 17/12/13
356	13. Drainage works	24 days	Wed 18/12/13	Fri 17/1/14
357	13.1 600U CH R 0-1000 to CP1 (25m)	16 days	Wed 18/12/13	Wed 8/1/14
358	13.2 600U CH R 0-1090 to CP1 (65m)	24 days	Wed 18/12/13	Fri 17/1/14
359	13.3 600 U from CP1 to CP2 (65m)	24 days	Wed 18/12/13	Fri 17/1/14
360	13.4 600U from CP2 to 600 dia concrete pipe (20m)	8 days	Wed 18/12/13	Sat 28/12/13
361	11.5 600U from SMI to CP2 (40m)	16 days	Wed 18/12/13	Wed 8/1/14
362	11.6 600U CH R 0-190 to SMI (60m)	16 days	Wed 18/12/13	Wed 8/1/14
363	11.7 600U CH R 0-190 to SMI (60m)	24 days	Wed 18/12/13	Fri 17/1/14
364	11.8 600U CH R 0-370 to SMI (90m)	24 days	Wed 18/12/13	Fri 17/1/14
365	11.9 600U CH R 0-370 to SMI3 (60m)	16 days	Wed 18/12/13	Wed 8/1/14
366	14. Primary Boundary Fence	80 days	Tue 20/8/13	Sat 23/11/13
367	14.1 Bay P1 to Bay P25	6 days	Tue 20/8/13	Mon 4/1/13
368	14.2 Bay P1 to Bay P50	6 days	Tue 20/8/13	Mon 4/1/13
369	14.3 Bay P1 to Bay P69	6 days	Tue 20/8/13	Mon 4/1/13
370	14.1.2 Bay P16 to Bay P69	6 days	Tue 20/8/13	Mon 4/1/13
371	14.2.1 Bay P1 to Bay P50	17 days	Tue 27/8/13	Sat 23/11/13
372	14.2.2 Bay P51 to Bay P69	17 days	Tue 27/8/13	Sat 23/11/13
373	15. Secondary Boundary Fence	6 days	Tue 27/8/13	Mon 2/9/13
374	15.1 Erect SBF post	63 days	Tue 20/8/13	Tue 19/11/13
375	15.1.1 Bay S1 to Bay S35	6 days	Tue 20/8/13	Mon 4/1/13
376	15.1.2 Bay S36 to Bay S65	5 days	Tue 20/8/13	Sat 24/8/13
377	15.2 Fix XPM	71 days	Mon 26/8/13	Tue 19/11/13
378	15.2.1 Bay S1 to Bay S50	13 days	Tue 5/11/13	Tue 19/11/13
379	15.2.2 Bay S50 to Bay S65	4 days	Mon 26/8/13	Mon 26/8/13
380	CH R 0-500 to I-4000	201 days	Fri 1/2/13	Tue 8/10/13
381	1. Site clearance	30 days	Fri 1/2/13	Mon 13/3/13
382	2. Setting out	45 days	Tue 5/2/13	Fri 9/4/13
383	3. Bar detection	45 days	Tue 5/2/13	Mon 18/3/13
384	4. Bar detection	32 days	Mon 25/2/13	Sat 7/6/13
385	5. Drains Pbf No. 4 CH R 0-678 (1200 dia)	92 days	Tue 19/2/13	Thu 13/6/13
386	6. Primary Boundary Fence Foundation	56 days	Tue 19/2/13	Mon 29/4/13
387	6.1 Bay P70 to P80	5 days	Tue 19/2/13	Wed 27/2/13
388	6.1.1 Excavation/Fill	3 days	Mon 25/2/13	Wed 27/2/13
389	6.1.2 Trm formation	2 days	Thu 28/2/13	Fri 1/3/13
390	6.1.3 Blinding layer	19 days	Sat 23/3/13	Sat 23/3/13
391	6.1.4 Base Slab	33 days	Mon 18/3/13	Mon 29/4/13
392	6.1.5 Wall stem	5 days	Mon 25/2/13	Mon 6/5/13
393	6.2 Bay P81 to P90	3 days	Sat 2/3/13	Fri 1/3/13
394	6.2.1 Excavation/Fill	2 days	Wed 6/3/13	Tue 7/3/13
395	6.2.2 Trm formation	19 days	Fri 8/3/13	Tue 2/4/13
396	6.2.3 Blinding layer	33 days	Sat 23/3/13	Mon 6/5/13
397	6.2.4 Base Slab	7 days	Mon 11/3/13	Sat 9/3/13
398	6.2.5 Wall stem	3 days	Mon 11/3/13	Wed 13/3/13
399	6.3 Bay P91 to P100	2 days	Thu 14/3/13	Fri 15/3/13
400	6.3.1 Excavation/Fill	19 days	Sat 16/3/13	Thu 14/4/13
401	6.3.2 Trm formation	33 days	Fri 5/4/13	Tue 16/5/13
402	6.3.3 Blinding layer	58 days	Mon 11/3/13	Tue 23/5/13
403	6.3.4 Base Slab	3 days	Tue 19/2/13	Thu 21/3/13
404	6.3.5 Wall stem	19 days	Mon 25/3/13	Thu 21/3/13
405	6.4 Bay P101 to P110	33 days	Mon 25/3/13	Fri 19/4/13
406	6.4.1 Excavation/Fill	7 days	Sat 13/4/13	Thu 25/3/13
407	6.4.2 Trm formation	3 days	Tue 19/3/13	Fri 19/4/13
408	6.4.3 Blinding layer	7 days	Mon 11/3/13	Wed 13/3/13
409	6.4.4 Base Slab	2 days	Thu 14/3/13	Fri 15/3/13
410	6.4.5 Wall stem	19 days	Sat 16/3/13	Thu 14/4/13
411	6.5 Bay P111 to P120	58 days	Mon 11/3/13	Tue 23/5/13
412	6.5.1 Excavation/Fill	33 days	Tue 19/2/13	Thu 21/3/13
413	6.5.2 Trm formation	7 days	Mon 25/3/13	Fri 19/4/13
414	6.5.3 Blinding layer	3 days	Tue 19/3/13	Tue 26/3/13
415	6.5.4 Base Slab	2 days	Wed 2/4/13	Tue 2/4/13
416	6.5.5 Wall stem	3 days	Wed 3/4/13	Fri 5/4/13
417	6.6 Bay P121 to P130	19 days	Sat 6/4/13	Sat 27/4/13
418	6.6.1 Excavation/Fill	33 days	Mon 22/4/13	Fri 31/5/13
419	6.6.2 Trm formation	5 days	Wed 27/3/13	Thu 6/6/13
420	6.6.3 Blinding layer	3 days	Wed 27/3/13	Fri 5/4/13
421	6.6.4 Base Slab	2 days	Sat 6/4/13	Tue 9/4/13
422	6.6.5 Wall stem	19 days	Wed 10/4/13	Thu 11/4/13
423	6.7 Bay P131 to P137	33 days	Fri 12/4/13	Thu 6/6/13
424	6.7.1 Excavation/Fill	5 days	Sat 6/4/13	Thu 11/4/13
425	6.7.2 Trm formation	3 days	Sat 6/4/13	Thu 11/4/13
426	6.7.3 Blinding layer	2 days	Tue 16/4/13	Mon 15/4/13
427	6.7.4 Base Slab	32 days	Thu 18/4/13	Thu 10/5/13
428	6.7.5 Wall stem	96 days	Thu 18/4/13	Thu 10/5/13
429	7. Secondary Fence Foundation	56 days	Tue 19/2/13	Mon 29/4/13
430	7.1 Bay S66 to S75	5 days	Tue 19/2/13	Sat 23/2/13
431	7.1.1 Excavation/Fill	3 days	Mon 25/2/13	Wed 27/2/13
432	7.1.2 Trm formation	3 days	Mon 25/2/13	Wed 27/2/13
433				
434				



ID	Task Name	Duration	Start	Finish
435	7.1.3 Blinding layer	2 days	Thu 28/2/13	Fri 13/3/13
436	7.1.4 Base Slab	19 days	Sat 29/2/13	Sat 23/3/13
437	7.2.1 Excavation/Fill	5 days	Mon 11/3/13	Mon 18/3/13
438	7.2 Box S176 to S185	56 days	Fri 15/3/13	Fri 16/6/13
439	7.2.1 Excavation/Fill	5 days	Fri 15/3/13	Wed 16/3/13
440	7.2.2 Trim formation	3 days	Thu 7/3/13	Sat 9/3/13
441	7.2.3 Blinding layer	2 days	Mon 11/3/13	Tue 12/3/13
442	7.2.4 Base Slab	19 days	Wed 13/3/13	Mon 8/4/13
443	7.2.5 Wall stem	33 days	Thu 28/3/13	Fri 10/5/13
444	7.3 Box S86 to S95	58 days	Thu 7/3/13	Mon 20/5/13
445	7.3.1 Excavation/Fill	7 days	Thu 7/3/13	Thu 14/3/13
446	7.3.2 Trim formation	3 days	Fri 15/3/13	Mon 18/3/13
447	7.3.3 Blinding layer	2 days	Tue 19/3/13	Wed 20/3/13
448	7.3.4 Base Slab	19 days	Thu 21/3/13	Tue 16/4/13
449	7.3.5 Wall stem	33 days	Wed 10/4/13	Mon 20/5/13
450	7.4 Box S96 to S105	58 days	Fri 15/3/13	Tue 28/5/13
451	7.4.1 Excavation/Fill	7 days	Fri 15/3/13	Fri 22/3/13
452	7.4.2 Trim formation	3 days	Sat 23/3/13	Tue 26/3/13
453	7.4.3 Blinding layer	2 days	Wed 27/3/13	Thu 28/3/13
454	7.4.4 Base Slab	19 days	Thu 18/4/13	Wed 24/4/13
455	7.4.5 Wall stem	33 days	Thu 28/4/13	Tue 28/5/13
456	7.5 Box S106 to S115	58 days	Sat 23/3/13	Wed 3/4/13
457	7.5.1 Excavation/Fill	7 days	Fri 3/4/13	Mon 8/4/13
458	7.5.2 Trim formation	3 days	Tue 12/4/13	Wed 13/4/13
459	7.5.3 Blinding layer	2 days	Wed 17/4/13	Thu 18/4/13
460	7.5.4 Base Slab	19 days	Thu 26/4/13	Wed 5/6/13
461	7.5.5 Wall stem	33 days	Fri 26/4/13	Wed 5/6/13
462	7.6 Box S116 to S125	56 days	Fri 5/4/13	Tue 11/6/13
463	7.6.1 Excavation/Fill	5 days	Fri 5/4/13	Wed 10/4/13
464	7.6.2 Trim formation	3 days	Thu 11/4/13	Sat 13/4/13
465	7.6.3 Blinding layer	2 days	Mon 15/4/13	Tue 16/4/13
466	7.6.4 Base Slab	19 days	Wed 17/4/13	Thu 9/5/13
467	7.6.5 Wall stem	33 days	Fri 3/5/13	Tue 11/6/13
468	7.7 Box S126 to S139	56 days	Thu 11/4/13	Tue 18/6/13
469	7.7.1 Excavation/Fill	5 days	Thu 11/4/13	Tue 16/4/13
470	7.7.2 Trim formation	3 days	Wed 17/4/13	Fri 19/4/13
471	7.7.3 Blinding layer	2 days	Sat 20/4/13	Mon 22/4/13
472	7.7.4 Base Slab	19 days	Tue 23/4/13	Wed 15/5/13
473	7.7.5 Wall stem	33 days	Tue 9/5/13	Tue 18/6/13
474	7.7.6 Base Slab	52 days	Thu 30/4/13	Wed 3/7/13
475	8. Fill between Primary & Secondary Boundary Fence	12 days	Tue 30/4/13	Tue 14/5/13
476	8.1 CH R 0-488 to CH R 0-570	12 days	Sat 21/5/13	Sat 25/5/13
477	8.2 CH R 0-570 to CH R 0-640	12 days	Tue 21/5/13	Mon 3/6/13
478	8.3 CH R 0-640 to CH R 0-715	12 days	Tue 29/5/13	Tue 11/6/13
479	8.4 CH R 0-715 to CH R 0-790	12 days	Thu 6/6/13	Thu 20/6/13
480	8.5 CH R 0-790 to CH R 0-864	12 days	Thu 14/6/13	Thu 28/6/13
481	8.6 CH R 0-864 to CH R 0-939	12 days	Thu 21/6/13	Thu 5/7/13
482	8.7 CH R 0-939 to CH R 0-990	12 days	Thu 28/6/13	Thu 12/7/13
483	9. Lay cable ducting and conduit for Security Lighting	50 days	Wed 15/5/13	Mon 15/7/13
484	9.1 CH R 0-488 to CH R 0-570	10 days	Wed 15/5/13	Mon 27/5/13
485	9.2 CH R 0-570 to CH R 0-640	10 days	Mon 27/5/13	Thu 6/6/13
486	9.3 CH R 0-640 to CH R 0-715	10 days	Tue 4/6/13	Sat 15/6/13
487	9.4 CH R 0-715 to CH R 0-790	10 days	Thu 13/6/13	Mon 24/6/13
488	9.5 CH R 0-790 to CH R 0-864	10 days	Wed 3/7/13	Wed 3/7/13
489	9.6 CH R 0-864 to CH R 0-939	10 days	Thu 27/6/13	Tue 9/7/13
490	9.7 CH R 0-939 to CH R 0-990	10 days	Thu 4/7/13	Mon 15/7/13
491	10. Boundary Patrol Roadworks	77 days	Mon 17/6/13	Sat 14/9/13
492	10.1 CH R 0-500 to 0-750	53 days	Mon 17/6/13	Sat 17/8/13
493	10.1.1 Trim road formation	5 days	Mon 17/6/13	Fri 21/6/13
494	10.1.2 Lay 225 road subbase	4 days	Sat 22/6/13	Wed 26/6/13
495	10.1.3 Kerb bedding	7 days	Thu 27/6/13	Fri 5/7/13
496	10.1.4 Road kerb	5 days	Sat 6/7/13	Thu 11/7/13
497	10.1.5 Fill verge with general fill	7 days	Fri 12/7/13	Fri 19/7/13
498	10.1.6 Excavate bollard post footing	4 days	Sat 20/7/13	Wed 24/7/13
499	10.1.7 Install and cast bollard post footing	7 days	Thu 25/7/13	Thu 1/8/13
500	10.1.8 Lay 150 verge subbase	4 days	Fri 2/8/13	Tue 6/8/13
501	10.1.9 Place 75 thick concrete paving	4 days	Wed 7/8/13	Sat 10/8/13
502	10.2 CH R 0-750 to 1000	53 days	Mon 16/7/13	Sat 14/9/13
503	10.2.1 Trim road formation	5 days	Mon 16/7/13	Sat 20/7/13
504	10.2.2 Lay 225 road subbase	4 days	Mon 22/7/13	Thu 25/7/13
505	10.2.3 Kerb bedding	7 days	Fri 26/7/13	Fri 2/8/13
506	10.2.4 Road kerb	5 days	Sat 3/8/13	Thu 8/8/13
507	10.2.5 Fill verge with general fill	7 days	Fri 9/8/13	Fri 16/8/13
508	10.2.6 Excavate bollard post footing	4 days	Sat 17/8/13	Wed 21/8/13
509	10.2.7 Install and cast bollard post footing	7 days	Thu 22/8/13	Thu 29/8/13
510	10.2.8 Lay 150 verge subbase	4 days	Fri 30/8/13	Tue 3/9/13
511	10.2.9 Place 75 thick concrete paving	4 days	Wed 4/9/13	Sat 7/9/13
512	10.2.10 Bituminous road pavement	6 days	Mon 9/9/13	Sat 14/9/13
513	11. Utility reserved ducts under	18 days	Thu 14/2/13	Wed 6/3/13
514	11.1 CH R 0-600	9 days	Thu 14/2/13	Thu 28/2/13
515	11.1.1 CH R 0-600	9 days	Thu 14/2/13	Sat 23/2/13
516	11.2 DP-4	14 days	Thu 14/2/13	Mon 4/3/13
517	11.3 BCI	14 days	Wed 19/2/13	Wed 6/3/13
518	11.4 Lo Fong Bridge Post	45 days	Wed 19/6/13	Sat 10/8/13
519	12. Fill outside PBF & SBF foundation	48 days	Mon 12/8/13	Tue 8/10/13
520	13.1 6000 CH R 0-600 to SM3	24 days	Mon 12/8/13	Tue 8/10/13
521	13.2 6000 CH R 0-600 to SM4	24 days	Mon 12/8/13	Tue 8/10/13
522	13.3 6000 CH R 0-810 to SM4	40 days	Mon 12/8/13	Fri 27/9/13

Project No: DC201106  
 Date: 14/02/2014

Task: Milestone

External Milestone: External Task

Inactive Task: Inactive Task

Inchwa Milestone: Inchwa Milestone

Project Summary: Project Summary

External Tasks: External Tasks

Milestone: Milestone

Split: Split

Summary: Summary

Manual Summary: Manual Summary

Star-only: Star-only

Manual Summary Ratio: Manual Summary Ratio

Duration-only: Duration-only

Critical: Critical

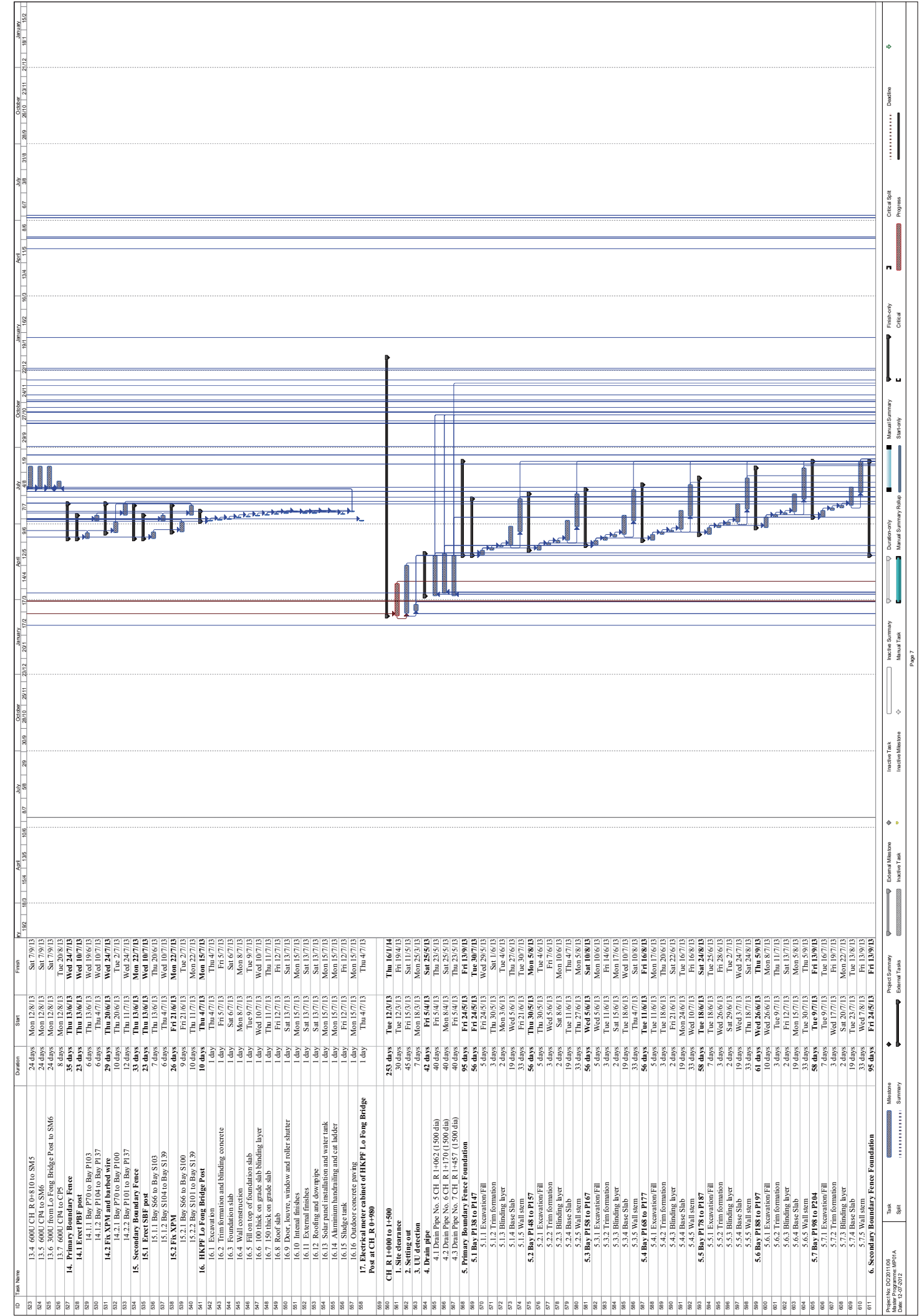
Finish-only: Finish-only

Critical: Critical

Progress: Progress

Deadline: Deadline

Page 8



ID	Task Name	Duration	Start	Finish
563	13.4 600U CH R 0x8 10 to SM5	24 days	Mon 12/8/13	Sat 1/9/13
564	13.5 600U CH R 0x8 10 to SM6	24 days	Mon 12/8/13	Sat 1/9/13
565	13.6 600U CH R 0x8 10 to SM7	24 days	Mon 12/8/13	Sat 1/9/13
566	13.7 600U CH R 0x8 10 to SM8	24 days	Mon 12/8/13	Sat 1/9/13
567	14. Primary Boundary Fence	35 days	Thu 12/8/13	Wed 2/4/13
568	14.1 Erect PRF post	23 days	Thu 13/6/13	Wed 10/7/13
569	14.1.1 Bay P710 to Bay P103	6 days	Thu 13/6/13	Wed 19/6/13
570	14.1.2 Bay P104 to Bay P137	6 days	Thu 4/7/13	Wed 10/7/13
571	14.2 Fix XPM and barbed wire	29 days	Thu 20/6/13	Wed 2/7/13
572	14.2.1 Bay P710 to Bay P100	10 days	Thu 20/6/13	Tue 2/7/13
573	14.2.2 Bay P101 to Bay P137	12 days	Thu 11/7/13	Wed 24/7/13
574	15. Secondary Boundary Fence	33 days	Thu 13/6/13	Mon 22/7/13
575	15.1 Erect SBF post	23 days	Thu 13/6/13	Mon 10/7/13
576	15.1.1 Bay S66 to Bay S103	7 days	Thu 13/6/13	Thu 20/6/13
577	15.1.2 Bay S104 to Bay S139	6 days	Thu 4/7/13	Wed 10/7/13
578	15.2 Fix XPM	26 days	Fri 21/6/13	Mon 22/7/13
579	15.2.1 Bay S66 to Bay S100	9 days	Fri 21/6/13	Tue 2/7/13
580	15.2.2 Bay S101 to Bay S139	10 days	Thu 11/7/13	Mon 22/7/13
581	16. HKPF Lo Fong Bridge Post	10 days	Thu 4/7/13	Mon 15/7/13
582	16.1 Excavation	1 day	Thu 4/7/13	Thu 4/7/13
583	16.2 Trm formation and blinding concrete	1 day	Fri 5/7/13	Fri 5/7/13
584	16.3 Foundation slab	1 day	Sat 6/7/13	Sat 6/7/13
585	16.4 Wall construction	1 day	Mon 8/7/13	Mon 8/7/13
586	16.5 Fill out top of foundation slab	1 day	Tue 9/7/13	Tue 9/7/13
587	16.6 100mm thick on grade slab blinding layer	1 day	Wed 10/7/13	Wed 10/7/13
588	16.8 Road slab	1 day	Thu 11/7/13	Thu 11/7/13
589	16.9 Door, louver, window and roller shutter	1 day	Fri 12/7/13	Fri 12/7/13
590	16.10 Internal finishes	1 day	Sat 13/7/13	Sat 13/7/13
591	16.11 External finishes	1 day	Mon 15/7/13	Mon 15/7/13
592	16.12 Roofing and downpipe	1 day	Sat 13/7/13	Sat 13/7/13
593	16.13 Solar panel installation and water tank	1 day	Mon 15/7/13	Mon 15/7/13
594	16.14 Aluminium handrailing and cat ladder	1 day	Mon 15/7/13	Mon 15/7/13
595	16.15 Sludge tank	1 day	Fri 12/7/13	Fri 12/7/13
596	16.16 Outdoor concrete paving	1 day	Mon 15/7/13	Mon 15/7/13
597	17. Electrical meter cabinet of HKPF Lo Fong Bridge Post at CH R 0-980	1 day	Thu 4/7/13	Thu 4/7/13
598	CH R 1-000 to 1-500	253 days	Thu 12/9/13	Fri 16/1/14
599	1. Site clearance	30 days	Tue 12/9/13	Fri 19/9/13
600	2. Setting out	45 days	Fri 15/9/13	Sat 11/5/13
601	3. UT detection	7 days	Mon 18/9/13	Mon 24/9/13
602	4. Drain pipe	46 days	Fri 5/4/13	Thu 24/9/13
603	4.2 Drain Pipe No. 5 CH R 1-062 (1,500 Dia)	40 days	Mon 8/4/13	Sat 23/5/13
604	4.3 Drain Pipe No. 6 CH R 1-170 (1,500 Dia)	40 days	Fri 5/4/13	Thu 23/5/13
605	4.4 Drain Pipe No. 7 CH R 1-457 (1,500 Dia)	40 days	Fri 5/4/13	Thu 23/5/13
606	5. Primary Boundary Fence Foundation	95 days	Fri 24/5/13	Fri 13/9/13
607	5.1 Bay P138 to P147	56 days	Fri 24/5/13	Thu 30/7/13
608	5.1.1 Excavation Fill	5 days	Fri 24/5/13	Wed 29/5/13
609	5.1.2 Trm formation	3 days	Thu 30/5/13	Sat 1/6/13
610	5.1.3 Blinding layer	2 days	Mon 3/6/13	Tue 4/6/13
611	5.1.4 Base Slab	19 days	Wed 5/6/13	Thu 27/6/13
612	5.1.5 Wall stem	33 days	Fri 21/6/13	Thu 30/7/13
613	5.2 Bay P148 to P157	56 days	Thu 30/5/13	Mon 5/8/13
614	5.2.1 Excavation Fill	5 days	Thu 30/5/13	Tue 4/6/13
615	5.2.2 Trm formation	3 days	Wed 5/6/13	Fri 7/6/13
616	5.2.3 Blinding layer	2 days	Sat 8/6/13	Mon 10/6/13
617	5.2.4 Base Slab	19 days	Thu 11/6/13	Mon 10/6/13
618	5.2.5 Wall stem	33 days	Thu 27/6/13	Mon 5/8/13
619	5.3 Bay P158 to P167	56 days	Wed 5/6/13	Mon 10/6/13
620	5.3.1 Excavation Fill	5 days	Wed 5/6/13	Mon 10/6/13
621	5.3.2 Trm formation	3 days	Thu 11/6/13	Fri 14/6/13
622	5.3.3 Blinding layer	2 days	Sat 15/6/13	Mon 17/6/13
623	5.3.4 Base Slab	19 days	Thu 18/6/13	Wed 10/7/13
624	5.3.5 Wall stem	32 days	Fri 19/6/13	Fri 11/7/13
625	5.4 Bay P168 to P177	56 days	Thu 11/6/13	Mon 17/6/13
626	5.4.1 Excavation Fill	5 days	Thu 11/6/13	Mon 17/6/13
627	5.4.2 Trm formation	3 days	Thu 18/6/13	Thu 20/6/13
628	5.4.3 Blinding layer	2 days	Thu 18/6/13	Thu 20/6/13
629	5.4.4 Base Slab	19 days	Mon 24/6/13	Tue 22/6/13
630	5.4.5 Wall stem	33 days	Mon 24/6/13	Thu 18/7/13
631	5.5 Bay P178 to P187	58 days	Thu 18/6/13	Sat 24/8/13
632	5.5.1 Excavation Fill	7 days	Tue 18/6/13	Tue 25/6/13
633	5.5.2 Trm formation	3 days	Wed 26/6/13	Fri 28/6/13
634	5.5.3 Blinding layer	2 days	Tue 27/6/13	Tue 27/6/13
635	5.5.4 Base Slab	19 days	Wed 3/7/13	Wed 24/7/13
636	5.5.5 Wall stem	33 days	Thu 18/7/13	Sat 24/8/13
637	5.6 Bay P188 to P197	61 days	Wed 26/6/13	Thu 5/9/13
638	5.6.1 Excavation Fill	10 days	Wed 26/6/13	Mon 8/7/13
639	5.6.2 Trm formation	3 days	Tue 9/7/13	Thu 11/7/13
640	5.6.3 Blinding layer	2 days	Fri 12/7/13	Sat 13/7/13
641	5.6.4 Base Slab	19 days	Mon 15/7/13	Mon 5/8/13
642	5.6.5 Wall stem	33 days	Thu 30/7/13	Thu 5/9/13
643	5.7 Bay P198 to P204	58 days	Tue 9/7/13	Fri 13/9/13
644	5.7.1 Excavation Fill	7 days	Tue 9/7/13	Tue 16/7/13
645	5.7.2 Trm formation	3 days	Wed 17/7/13	Fri 19/7/13
646	5.7.3 Blinding layer	2 days	Sat 27/7/13	Mon 29/7/13
647	5.7.4 Base Slab	19 days	Fri 26/7/13	Fri 16/8/13
648	5.7.5 Wall stem	33 days	Wed 4/8/13	Fri 30/8/13
649	6. Secondary Boundary Fence Foundation	95 days	Fri 24/5/13	Fri 13/9/13

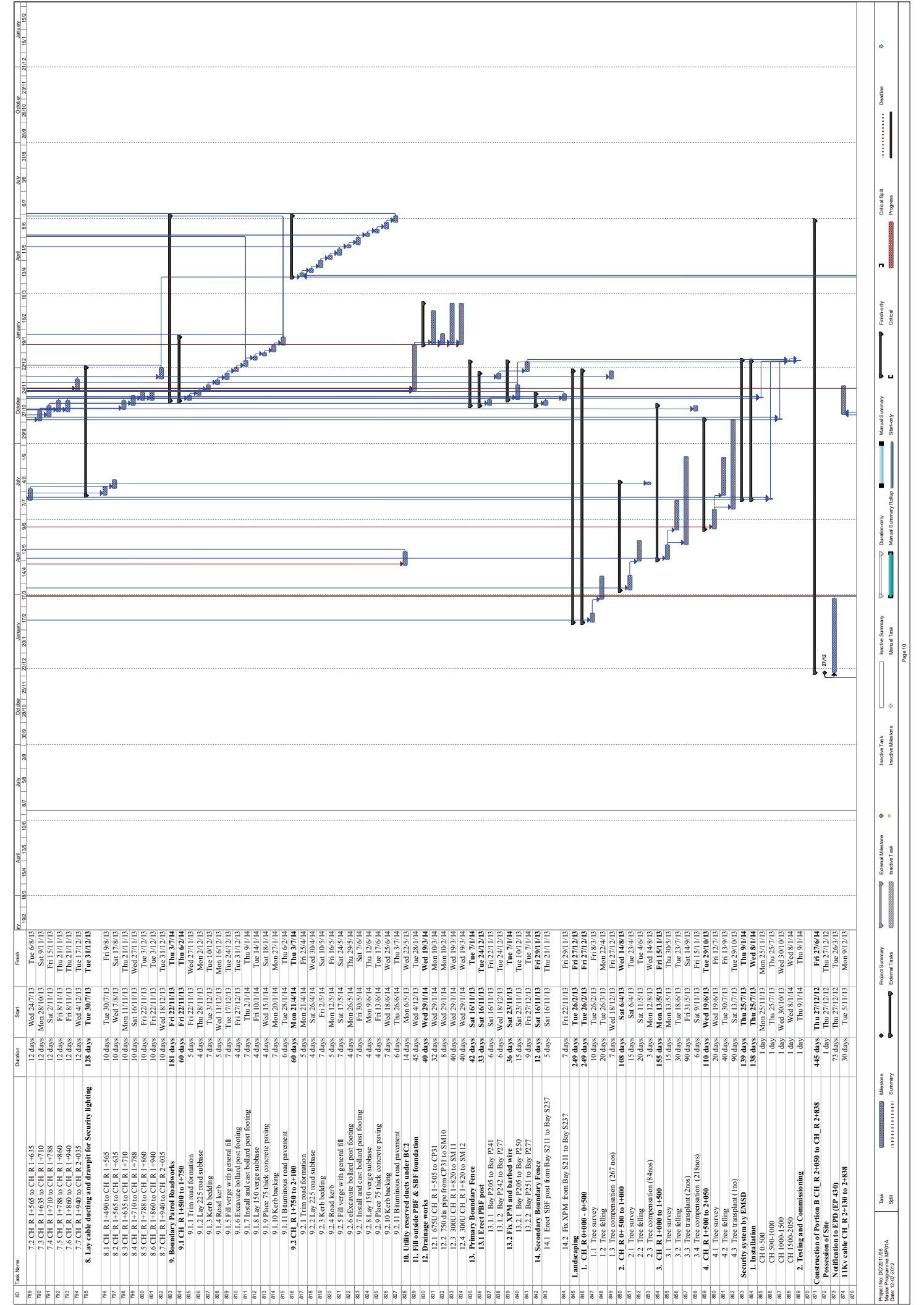
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 Deadline

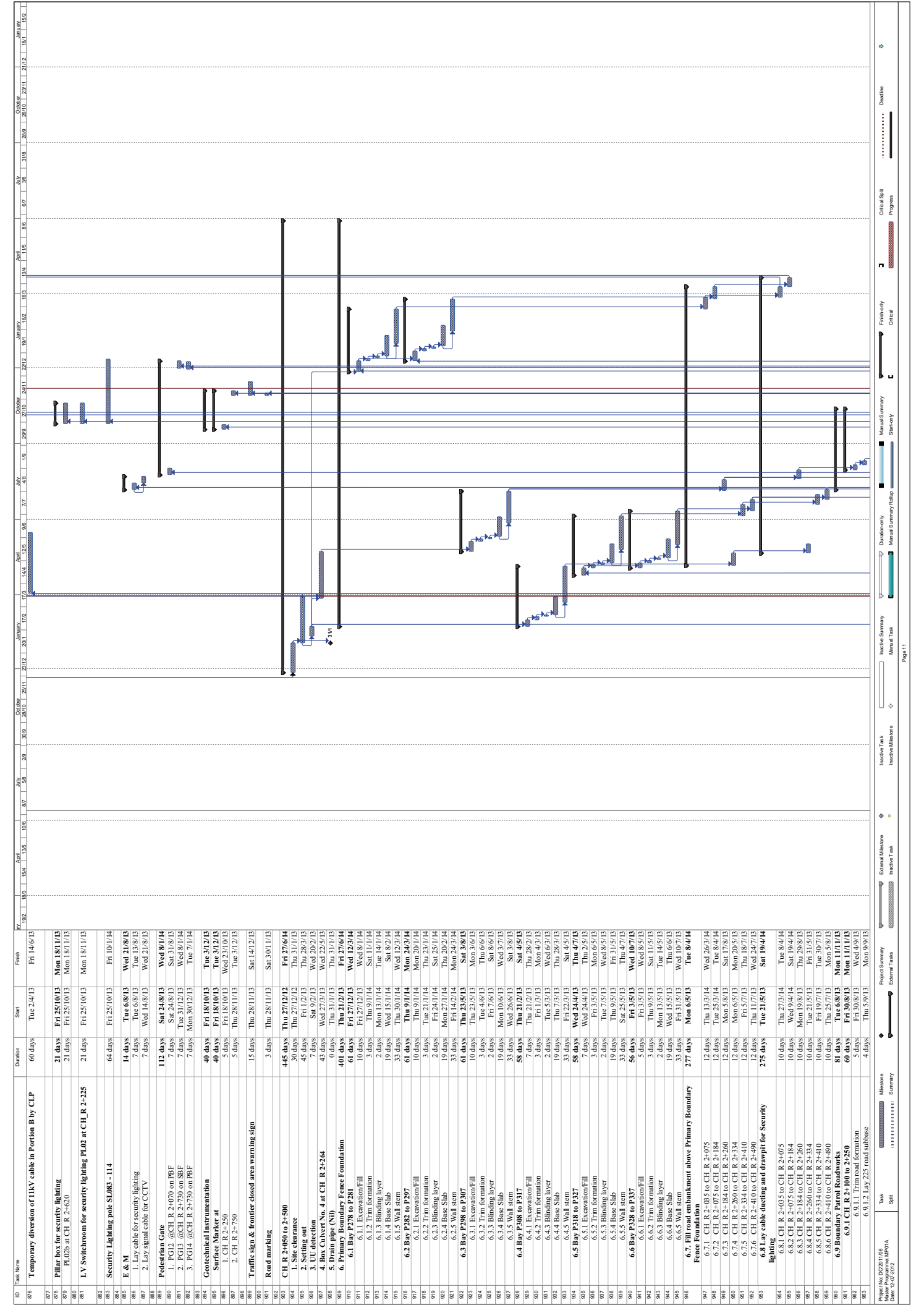






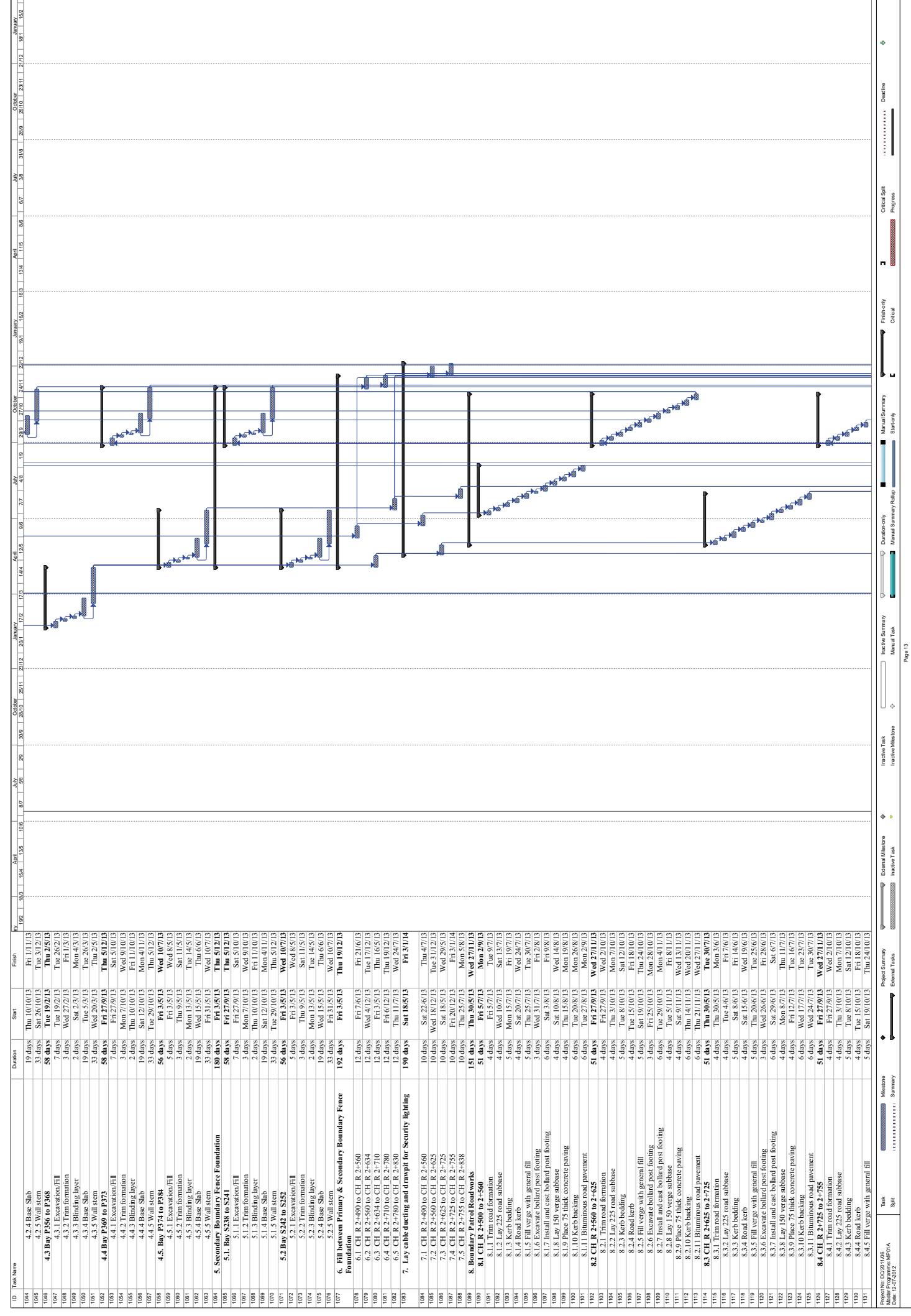
ID	Task Name	Duration	Start	Finish
700	1.1 600U SMT to CP5	24 days	Sat 9/11/13	Fri 10/11/13
701	1.2 240U SMT to CP6	24 days	Sat 9/11/13	Fri 10/11/13
702	1.3 240U SMT to SMT7	24 days	Sat 9/11/13	Fri 10/11/13
703	1.4 240U SMT to SMT8	24 days	Sat 9/11/13	Fri 10/11/13
704	1.5 650U CP7 to SMT8	8 days	Sat 9/11/13	Mon 16/12/13
705	1.6 650U CP8 to CP7	8 days	Tue 17/12/13	Fri 27/12/13
706	1.7 650U CH R 1-360 to CP8	16 days	Thu 16/1/14	Mon 16/1/14
707	1.8 650U CH R 1-360 to SM9	32 days	Sat 9/11/13	Mon 16/1/14
708	1.9 650U CH R 1-505 to SM9	16 days	Tue 17/12/13	Tue 7/1/14
709	13.1 Erect PBF post	53 days	Mon 26/8/13	Tue 29/10/13
710	13.1.1 Bay P138 to Bay P171	6 days	Mon 26/8/13	Mon 7/10/13
711	13.1.2 Bay P171 to Bay P204	6 days	Mon 26/8/13	Mon 7/10/13
712	13.2 FRX XPM and barbed wire	47 days	Mon 2/9/13	Tue 29/10/13
713	13.2.1 Bay P138 to Bay P150	5 days	Mon 2/9/13	Fri 6/9/13
714	13.2.2 Bay P151 to Bay P204	18 days	Tue 8/10/13	Tue 29/10/13
715	14. Secondary Boundary Fence	38 days	Mon 26/8/13	Thu 10/10/13
716	14.1 Erect SBF post	35 days	Mon 26/8/13	Mon 7/10/13
717	14.1.1 Bay S140 to Bay S174	6 days	Mon 26/8/13	Sat 31/8/13
718	14.1.2 Bay S175 to Bay S210	6 days	Mon 26/8/13	Mon 7/10/13
719	14.2 FRX XPM	32 days	Mon 2/9/13	Mon 7/10/13
720	14.2.1 Bay S140 to Bay S200	15 days	Mon 2/9/13	Wed 18/9/13
721	14.2.2 Bay S201 to Bay S210	3 days	Tue 8/10/13	Thu 10/10/13
722	CH R 1-500 to -2-050	359 days	Sat 20/4/13	Thu 3/7/14
723	1. Site clearance	30 days	Sat 20/4/13	Mon 27/5/13
724	2. Settling out	45 days	Wed 24/4/13	Tue 18/6/13
725	3. UU detection	7 days	Fri 26/4/13	Tue 4/5/13
726	4. Box Culvert	120 days	Mon 6/5/13	Thu 26/9/13
727	4.1 No. 2 at CH R 1-661	72 days	Thu 23/5/13	Fri 16/8/13
728	4.2 No. 3 at CH R 1-960	120 days	Mon 6/5/13	Thu 26/9/13
729	5. Primary Boundary Fence Foundation	176 days	Mon 6/5/13	Tue 31/12/13
730	5.1 Bay P205 to P214	58 days	Mon 6/5/13	Mon 15/7/13
731	5.1.1 Excavation/Fill	7 days	Mon 6/5/13	Mon 13/5/13
732	5.1.2 Trm formation	3 days	Tue 14/5/13	Thu 16/5/13
733	5.1.3 Blinding layer	2 days	Tue 14/5/13	Mon 20/5/13
734	5.1.4 Base Slab	19 days	Tue 21/5/13	Tue 11/6/13
735	5.1.5 Wall stem	33 days	Wed 5/6/13	Mon 15/7/13
736	5.2 Bay P215 to P224	58 days	Tue 14/5/13	Mon 15/7/13
737	5.2.1 Excavation/Fill	7 days	Tue 14/5/13	Wed 22/5/13
738	5.2.2 Trm formation	3 days	Thu 25/5/13	Sat 25/5/13
739	5.2.3 Blinding layer	2 days	Mon 27/5/13	Thu 28/5/13
740	5.2.4 Base Slab	17 days	Wed 29/5/13	Thu 20/6/13
741	5.2.5 Wall stem	33 days	Thu 30/5/13	Thu 27/7/13
742	5.3 Bay P225 to P234	58 days	Sat 17/8/13	Sat 26/10/13
743	5.3.1 Excavation/Fill	7 days	Sat 17/8/13	Sat 24/8/13
744	5.3.2 Trm formation	3 days	Mon 26/8/13	Wed 28/8/13
745	5.3.3 Blinding layer	2 days	Thu 29/8/13	Fri 30/8/13
746	5.3.4 Base Slab	19 days	Sat 31/8/13	Mon 23/9/13
747	5.3.5 Wall stem	33 days	Mon 16/9/13	Sat 26/10/13
748	5.4 Bay P235 to P244	56 days	Mon 26/8/13	Fri 11/1/14
749	5.4.1 Excavation/Fill	5 days	Mon 26/8/13	Fri 30/8/13
750	5.4.2 Trm formation	3 days	Sat 31/8/13	Tue 3/9/13
751	5.4.3 Blinding layer	2 days	Wed 4/9/13	Thu 5/9/13
752	5.4.4 Base Slab	19 days	Fri 6/9/13	Sat 28/9/13
753	5.4.5 Wall stem	33 days	Mon 23/9/13	Fri 11/1/14
754	5.5 Bay P245 to P264	56 days	Sat 31/8/13	Thu 7/1/14
755	5.5.1 Excavation/Fill	5 days	Sat 31/8/13	Mon 9/9/13
756	5.5.2 Trm formation	3 days	Fri 6/9/13	Mon 9/9/13
757	5.5.3 Blinding layer	2 days	Tue 10/9/13	Wed 11/9/13
758	5.5.4 Base Slab	19 days	Thu 12/9/13	Sat 5/10/13
759	5.5.5 Wall stem	33 days	Sat 28/9/13	Thu 7/1/14
760	5.6 Bay P265 to P277	56 days	Fri 27/9/13	Tue 31/12/13
761	5.6.1 Excavation/Fill	3 days	Fri 27/9/13	Thu 3/10/13
762	5.6.2 Trm formation	3 days	Thu 3/10/13	Mon 7/10/13
763	5.6.3 Blinding layer	2 days	Fri 4/10/13	Mon 7/10/13
764	5.6.4 Base Slab	19 days	Thu 10/10/13	Fri 1/1/14
765	5.6.5 Wall stem	33 days	Sat 26/10/13	Tue 31/12/13
766	6. Secondary Boundary Fence Foundation	144 days	Mon 6/5/13	Sat 26/10/13
767	6.1 Bay S211 to S220	58 days	Mon 6/5/13	Mon 15/7/13
768	6.1.1 Excavation/Fill	7 days	Mon 6/5/13	Mon 13/5/13
769	6.1.2 Trm formation	3 days	Tue 14/5/13	Thu 16/5/13
770	6.1.3 Blinding layer	2 days	Sat 18/5/13	Mon 20/5/13
771	6.1.4 Base Slab	19 days	Tue 21/5/13	Tue 11/6/13
772	6.1.5 Wall stem	33 days	Wed 5/6/13	Mon 15/7/13
773	6.2 Bay S221 to S230	58 days	Tue 14/5/13	Tue 23/7/13
774	6.2.1 Excavation/Fill	7 days	Tue 14/5/13	Wed 22/5/13
775	6.2.2 Trm formation	3 days	Thu 23/5/13	Sat 25/5/13
776	6.2.3 Blinding layer	2 days	Mon 27/5/13	Tue 28/5/13
777	6.2.4 Base Slab	19 days	Wed 29/5/13	Thu 20/6/13
778	6.2.5 Wall stem	33 days	Fri 14/6/13	Tue 23/7/13
779	6.3 Bay S231 to S237	58 days	Fri 14/6/13	Sat 26/10/13
780	6.3.1 Excavation/Fill	7 days	Sat 17/8/13	Sat 24/8/13
781	6.3.2 Trm formation	3 days	Mon 26/8/13	Wed 28/8/13
782	6.3.3 Blinding layer	2 days	Thu 29/8/13	Fri 30/8/13
783	6.3.4 Base Slab	19 days	Sat 31/8/13	Mon 23/9/13
784	6.3.5 Wall stem	33 days	Mon 16/9/13	Sat 26/10/13
785	7. Fill between Primary & Secondary Boundary Fence	130 days	Tue 16/7/13	Tue 17/12/13
786	7.1 CH R 1-490 to CH R 1-565	12 days	Thu 16/7/13	Mon 29/7/13

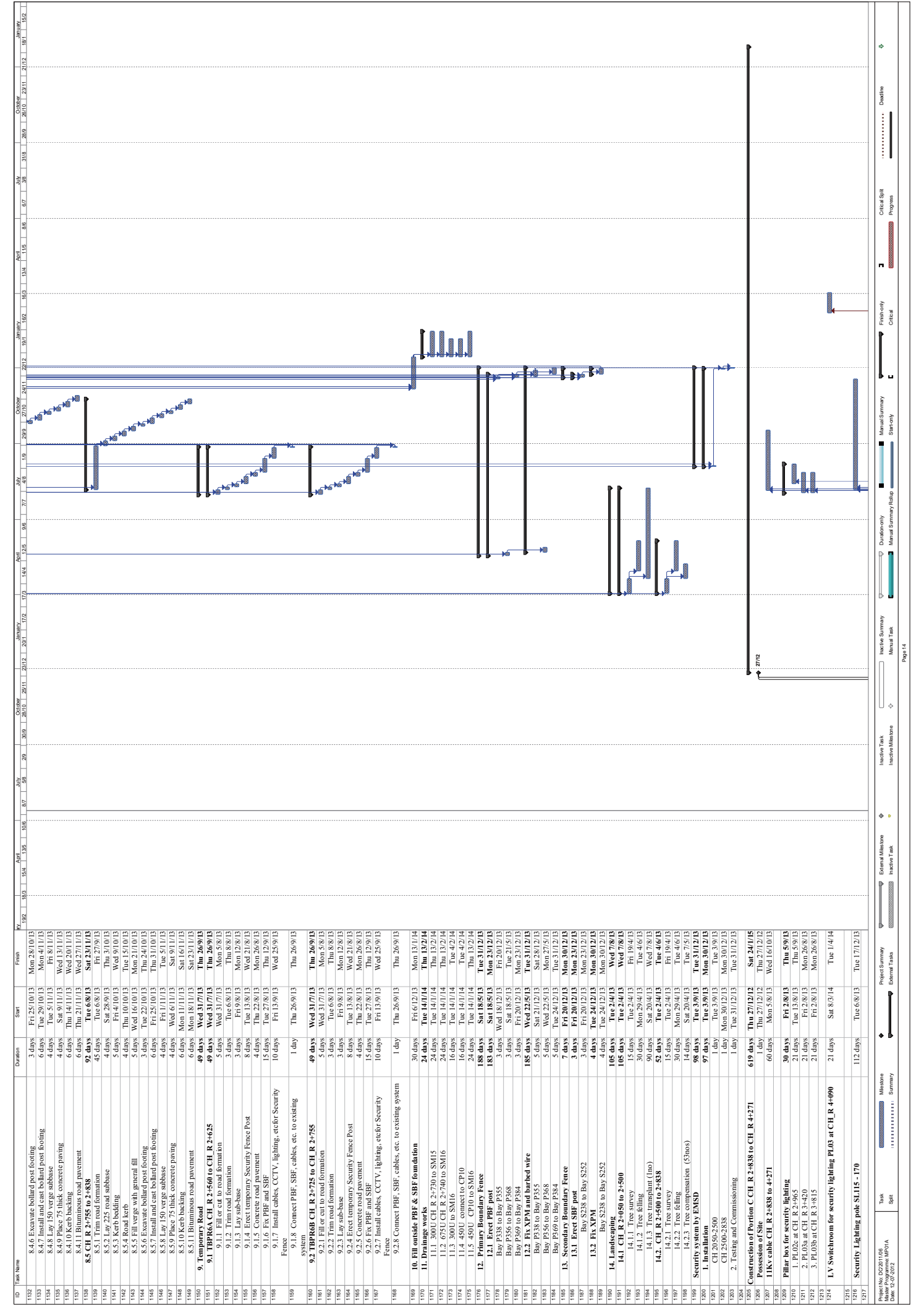




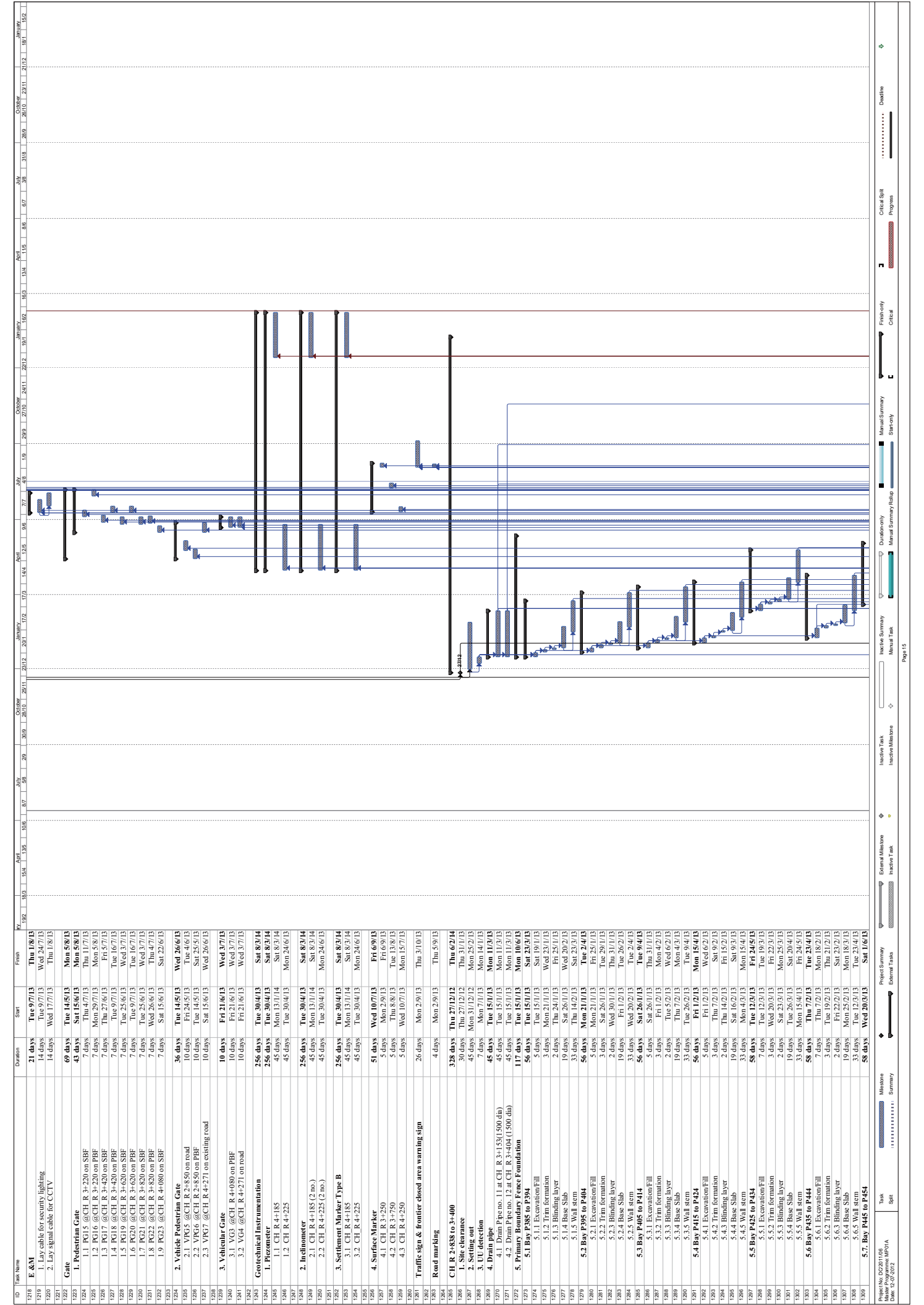
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676	Temporary diversion of HVV cable in Portion B by CLP	60 days	Tue 2/14/13	Fri 14/06/13
677	Pillar box for security lighting	21 days	Fri 25/10/13	Mon 18/11/13
678	PL02b at CH R 2-420	21 days	Fri 25/10/13	Mon 18/11/13
680	LV Switchroom for security lighting PL02 at CH R 2-225	21 days	Fri 25/10/13	Mon 18/11/13
682	Security Lighting pole SL083 - 114	64 days	Fri 25/10/13	Fri 10/11/14
684	E & M	14 days	Tue 6/8/13	Wed 21/8/13
685	1. Lay cable for security lighting	7 days	Tue 6/8/13	Tue 13/8/13
686	2. Lay signal cable for CCTV	7 days	Wed 14/8/13	Wed 21/8/13
687	1. PG12 @CH R 2-470 on PBF	7 days	Sat 24/8/13	Sat 31/8/13
688	2. PG13 @CH R 2-730 on SBF	7 days	Tue 31/12/13	Wed 8/1/14
689	3. PG14 @CH R 2-730 on PBF	7 days	Mon 30/12/13	Tue 7/1/14
690	Geotechnical Instrumentation	40 days	Fri 18/10/13	Tue 3/12/13
691	Surface Marker at	40 days	Fri 18/10/13	Tue 3/12/13
692	1. CH R 2-250	5 days	Fri 18/10/13	Wed 23/10/13
693	2. CH R 2-750	5 days	Thu 28/11/13	Tue 3/12/13
694	Traffic sign & frontier closed area warning sign	15 days	Thu 28/11/13	Sat 14/12/13
695	Road marking	3 days	Thu 28/11/13	Sat 30/11/13
696	CH R 2-450 to 2-500	445 days	Thu 27/6/14	Fri 27/6/14
697	1. Site clearance	30 days	Thu 27/12/12	Thu 31/1/13
698	2. Setting out	45 days	Fri 1/2/13	Thu 28/3/13
699	3. UU detection	7 days	Sat 9/2/13	Wed 20/2/13
700	4. Box Culvert No. 4 at CH R 2-264	43 days	Wed 27/6/13	Wed 20/5/13
701	5. Drain pipe (Nil)	0 days	Thu 31/1/13	Thu 31/1/13
702	6. Primary Boundary Fence Foundation	401 days	Thu 21/2/13	Fri 27/6/14
703	6.1 Bay P278 to P281	10 days	Fri 27/12/13	Wed 8/1/14
704	6.1.1 Excavation/Fill	3 days	Thu 9/1/14	Sat 11/1/14
705	6.1.2 Trim formation	2 days	Mon 13/1/14	Tue 14/1/14
706	6.1.3 Blinding layer	19 days	Wed 15/1/14	Sat 8/2/14
707	6.1.4 Base Slab	33 days	Thu 30/1/14	Wed 12/3/14
708	6.1.5 Wall stem	61 days	Thu 9/1/14	Mon 24/3/14
709	6.2 Bay P282 to P297	10 days	Thu 9/1/14	Mon 20/1/14
710	6.2.1 Excavation/Fill	3 days	Tue 21/1/14	Thu 23/1/14
711	6.2.2 Trim formation	2 days	Fri 24/1/14	Sat 25/1/14
712	6.2.3 Blinding layer	19 days	Mon 27/1/14	Thu 20/2/14
713	6.2.4 Base Slab	33 days	Fri 14/2/14	Mon 24/3/14
714	6.2.5 Wall stem	61 days	Thu 25/1/13	Sat 3/8/13
715	6.3 Bay P298 to P307	10 days	Thu 25/1/13	Mon 2/2/13
716	6.3.1 Excavation/Fill	3 days	Fri 1/2/13	Mon 2/2/13
717	6.3.2 Trim formation	2 days	Fri 1/2/13	Mon 2/2/13
718	6.3.3 Blinding layer	19 days	Fri 7/6/13	Sat 8/6/13
719	6.3.4 Base Slab	33 days	Mon 10/6/13	Wed 3/7/13
720	6.3.5 Wall stem	61 days	Wed 26/6/13	Sat 3/8/13
721	6.4 Bay P308 to P317	8 days	Thu 21/2/13	Sat 4/5/13
722	6.4.1 Excavation/Fill	7 days	Thu 21/2/13	Thu 28/2/13
723	6.4.2 Trim formation	3 days	Fri 1/3/13	Mon 4/3/13
724	6.4.3 Blinding layer	2 days	Tue 5/3/13	Wed 6/3/13
725	6.4.4 Base Slab	19 days	Thu 7/3/13	Thu 28/3/13
726	6.4.5 Wall stem	33 days	Fri 22/3/13	Sat 4/5/13
727	6.5 Bay P318 to P327	8 days	Wed 24/4/13	Thu 4/7/13
728	6.5.1 Excavation/Fill	7 days	Wed 24/4/13	Thu 2/5/13
729	6.5.2 Trim formation	3 days	Fri 3/5/13	Mon 6/5/13
730	6.5.3 Blinding layer	2 days	Tue 7/5/13	Wed 8/5/13
731	6.5.4 Base Slab	19 days	Thu 9/5/13	Fri 31/5/13
732	6.5.5 Wall stem	33 days	Sat 25/5/13	Thu 4/7/13
733	6.6 Bay P328 to P337	5 days	Fri 3/5/13	Wed 10/7/13
734	6.6.1 Excavation/Fill	3 days	Fri 3/5/13	Wed 8/5/13
735	6.6.2 Trim formation	2 days	Mon 13/5/13	Sat 11/5/13
736	6.6.3 Blinding layer	19 days	Wed 15/5/13	Thu 14/5/13
737	6.6.4 Base Slab	33 days	Fri 21/5/13	Wed 10/7/13
738	6.6.5 Wall stem	27 days	Mon 6/5/13	Thu 8/4/14
739	6.7 Fence Foundation	12 days	Thu 13/5/14	Wed 26/3/14
740	6.7.1 CH R 2-4035 to CH R 2-4075	12 days	Tue 25/5/14	Tue 8/4/14
741	6.7.2 CH R 2-4075 to CH R 2-184	12 days	Mon 5/8/13	Sat 17/8/13
742	6.7.3 CH R 2-184 to CH R 2-260	12 days	Mon 5/8/13	Mon 20/5/13
743	6.7.4 CH R 2-260 to CH R 2-334	12 days	Fri 5/7/13	Thu 18/7/13
744	6.7.5 CH R 2-334 to CH R 2-410	12 days	Thu 11/7/13	Thu 24/7/13
745	6.7.6 CH R 2-410 to CH R 2-490	12 days	Thu 11/7/13	Mon 5/8/13
746	6.8 Lay cable ducting and drawpit for Security lighting	275 days	Thu 21/5/13	Sat 19/4/14
747	6.8.1 CH R 2-4035 to CH R 2-4075	10 days	Thu 27/3/14	Tue 8/4/14
748	6.8.2 CH R 2-4075 to CH R 2-184	10 days	Wed 9/4/14	Sat 19/4/14
749	6.8.3 CH R 2-184 to CH R 2-260	10 days	Mon 19/8/13	Thu 29/8/13
750	6.8.4 CH R 2-260 to CH R 2-334	10 days	Tue 21/5/13	Fri 31/5/13
751	6.8.5 CH R 2-334 to CH R 2-410	10 days	Fri 19/7/13	Tue 30/7/13
752	6.8.6 CH R 2-410 to CH R 2-490	10 days	Thu 25/7/13	Mon 5/8/13
753	6.9 Boundary Parol Roadworks	81 days	Tue 6/8/13	Mon 11/11/13
754	6.9.1 CH R 2-100 to 2-250	60 days	Fri 30/8/13	Wed 4/9/13
755	6.9.1.1 Trim road formation	5 days	Fri 30/8/13	Wed 4/9/13
756	6.9.1.2 Lay 225 road subbase	4 days	Fri 30/8/13	Mon 9/9/13



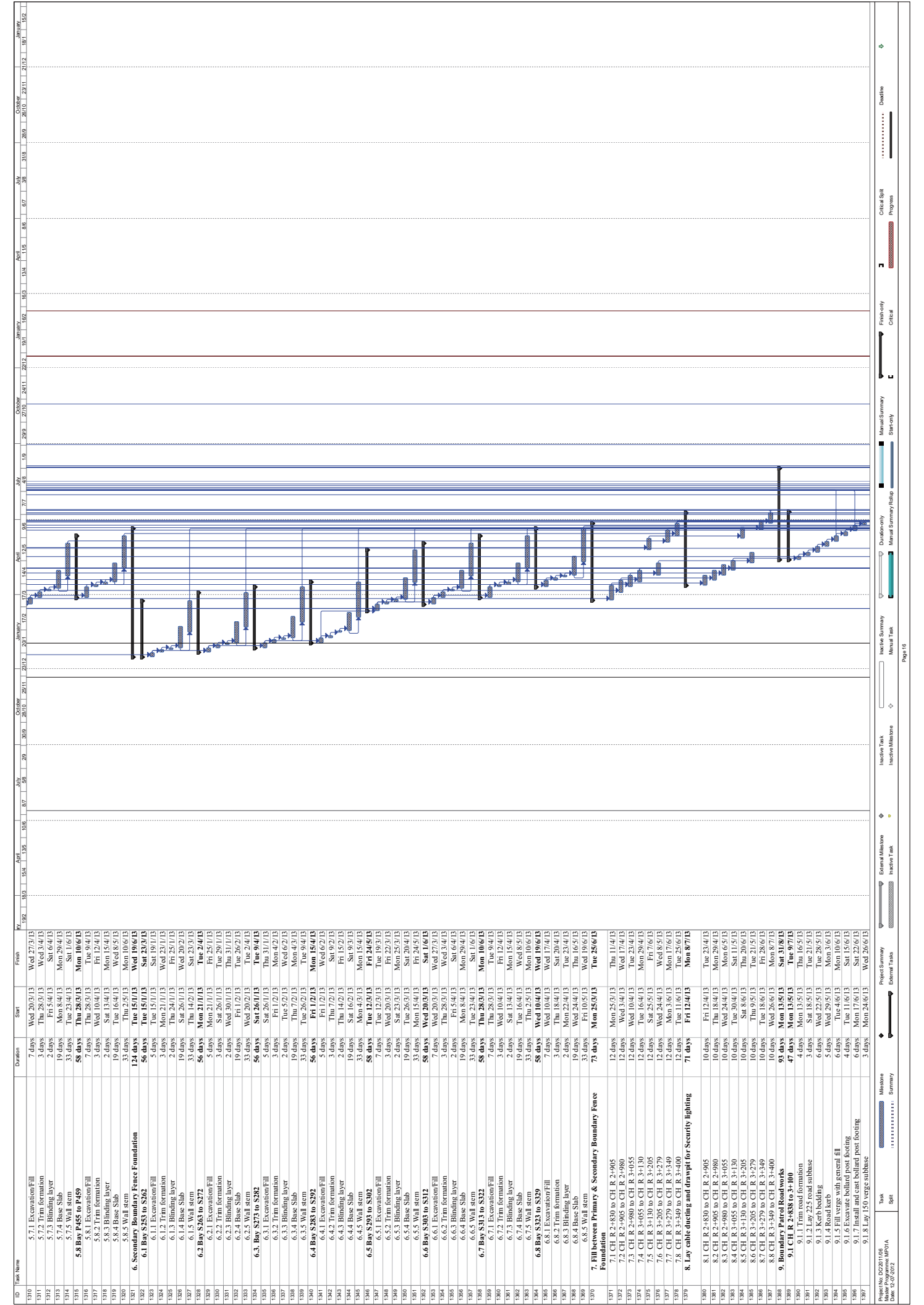




ID	Task Name	Duration	Start	Finish
1132	8.4.6 Excavate bollard post footing	3 days	Fri 25/10/13	Mon 28/10/13
1133	8.4.7 Install and cast bollard post footing	6 days	Tue 29/10/13	Mon 04/11/13
1134	8.4.8 Lay 150 verge subbase	4 days	Thu 31/10/13	Fri 01/11/13
1135	8.4.9 Place 75 thick concrete paving	4 days	Sat 01/11/13	Wed 06/11/13
1136	8.4.10 Kerb backing	6 days	Thu 04/11/13	Wed 20/11/13
1137	8.4.11 Blumiseal road pavement	6 days	Thu 04/11/13	Wed 27/11/13
1138	8.5 CH R 2-755 to 2-838	92 days	Tue 23/11/13	Sat 23/11/13
1139	8.5.1 Trim road formation	45 days	Tue 26/11/13	Fri 27/11/13
1140	8.5.2 Lay 225 road subbase	4 days	Sat 28/11/13	Thu 30/11/13
1141	8.5.3 Kerb bedding	4 days	Fri 01/12/13	Wed 06/12/13
1142	8.5.4 Road kerb	4 days	Thu 10/12/13	Tue 15/12/13
1143	8.5.5 Fill verge with general fill	3 days	Wed 16/12/13	Mon 21/12/13
1144	8.5.6 Excavate bollard post footing	3 days	Thu 22/12/13	Thu 24/12/13
1145	8.5.7 Install and cast bollard post footing	6 days	Fri 25/12/13	Thu 31/12/13
1146	8.5.8 Lay 150 verge subbase	4 days	Fri 11/11/13	Tue 5/11/13
1147	8.5.9 Place 75 thick concrete paving	6 days	Wed 06/11/13	Sat 09/11/13
1148	8.5.10 Kerb backing	4 days	Mon 11/11/13	Sat 16/11/13
1149	8.5.11 Blumiseal road pavement	6 days	Mon 18/11/13	Sat 23/11/13
1150	9. Temporary Road	49 days	Wed 31/7/13	Thu 26/9/13
1151	9.1 TBP66A CH R 2-1560 to CH R 2-625	49 days	Wed 31/7/13	Thu 26/9/13
1152	9.1.1 Fill or cut to road formation	5 days	Wed 31/7/13	Mon 5/8/13
1153	9.1.2 Trim road formation	3 days	Tue 6/8/13	Thu 8/8/13
1154	9.1.3 Lay sub-base	8 days	Thu 13/8/13	Mon 12/8/13
1155	9.1.4 Erect temporary Security Fence Post	8 days	Thu 13/8/13	Wed 21/8/13
1156	9.1.5 Concrete road pavement	15 days	Thu 27/8/13	Mon 26/8/13
1157	9.1.6 Fix PBF and SBF	15 days	Thu 27/8/13	Wed 25/9/13
1158	9.1.7 Install cables, CCTV, lighting, etc for Security Fences	10 days	Fri 13/9/13	Wed 25/9/13
1159	9.1.8 Connect PBF, SBF, cables, etc. to existing system	1 day	Thu 26/9/13	Thu 26/9/13
1160	9.2 TBP66B CH R 2-725 to CH R 2-755	49 days	Wed 31/7/13	Thu 26/9/13
1161	9.2.1 Fill or cut to road formation	5 days	Wed 31/7/13	Mon 5/8/13
1162	9.2.2 Trim road formation	3 days	Tue 6/8/13	Thu 8/8/13
1163	9.2.3 Lay sub-base	8 days	Fri 9/8/13	Mon 12/8/13
1164	9.2.4 Erect temporary Security Fence Post	8 days	Thu 13/8/13	Wed 21/8/13
1165	9.2.5 Concrete road pavement	4 days	Thu 22/8/13	Mon 26/8/13
1166	9.2.6 Fix PBF and SBF	15 days	Tue 27/8/13	Thu 12/9/13
1167	9.2.7 Install cables, CCTV, lighting, etc for Security Fence	10 days	Fri 13/9/13	Wed 25/9/13
1168	9.2.8 Connect PBF, SBF, cables, etc. to existing system	1 day	Thu 26/9/13	Thu 26/9/13
1169	10. Fill outside PBF & SBF foundation	30 days	Fri 6/12/13	Mon 13/1/14
1170	11. Drainage works	24 days	Thu 14/1/14	Thu 13/2/14
1171	11.1 200U CH R 2-730 to SM15	24 days	Thu 14/1/14	Thu 13/2/14
1172	11.2 300U CH R 2-740 to SM16	16 days	Thu 14/1/14	Thu 07/2/14
1173	11.3 300U CH R 2-750 to SM17	16 days	Thu 14/1/14	Thu 07/2/14
1174	11.4 450U CH R 2-760 to CP10	16 days	Thu 14/1/14	Thu 07/2/14
1175	11.5 450U CH R 2-770 to SM16	24 days	Thu 14/1/14	Thu 13/2/14
1176	12. Primary Boundary Fence	188 days	Sat 18/5/13	Tue 31/12/13
1177	12.1 Erect PBF post	183 days	Sat 18/5/13	Mon 23/12/13
1178	Bay P338 to Bay P355	3 days	Wed 18/12/13	Fri 20/12/13
1179	Bay P356 to Bay P368	3 days	Sat 18/5/13	Tue 21/5/13
1180	Bay P369 to Bay P384	3 days	Fri 20/12/13	Mon 23/12/13
1181	12.2 Fix XPM and barbed wire	185 days	Tue 31/12/13	Tue 31/12/13
1182	Bay P338 to Bay P355	5 days	Sat 21/12/13	Sat 28/12/13
1183	Bay P356 to Bay P368	5 days	Wed 22/5/13	Mon 27/5/13
1184	Bay P369 to Bay P384	5 days	Tue 24/12/13	Tue 31/12/13
1185	Bay P385 to Bay P400	7 days	Fri 20/12/13	Mon 30/12/13
1186	13. Secondary Boundary Fence	3 days	Fri 20/12/13	Mon 23/12/13
1187	13.1 Erect SBF post	3 days	Fri 20/12/13	Mon 23/12/13
1188	Bay S238 to Bay S252	4 days	Tue 24/12/13	Mon 30/12/13
1189	Bay S253 to Bay S252	4 days	Tue 24/12/13	Mon 30/12/13
1190	14. Landscaping	105 days	Tue 24/12/13	Wed 7/8/13
1191	14.1 CH R 2-050 to 2-500	105 days	Tue 24/12/13	Wed 7/8/13
1192	14.1.1 Tree survey	15 days	Tue 24/12/13	Fri 19/4/13
1193	14.1.2 Tree felling	30 days	Mon 29/4/13	Tue 4/6/13
1194	14.1.3 Tree transplant (10)	50 days	Sat 29/4/13	Tue 16/6/13
1195	14.2 CH R 2-500 to 2-838	15 days	Tue 24/12/13	Tue 24/12/13
1196	14.2.1 Tree gallery	30 days	Mon 29/4/13	Fri 04/6/13
1197	14.2.2 Tree gallery	30 days	Mon 29/4/13	Fri 04/6/13
1198	14.2.3 Tree compensation (53nos)	14 days	Sat 20/4/13	Tue 7/5/13
1199	Security system by EMSD	98 days	Tue 3/9/13	Tue 31/12/13
1200	1. Installation	97 days	Tue 3/9/13	Mon 30/12/13
1201	CH 2050-2500	1 day	Tue 3/9/13	Tue 3/9/13
1202	CH 2500-2838	1 day	Mon 30/12/13	Mon 30/12/13
1203	2. Testing and Commissioning	1 day	Tue 31/12/13	Tue 31/12/13
1204	Construction of Portion C CH R 2-838 to CH R 4-271	619 days	Thu 27/12/12	Sat 24/1/15
1205	Possession of Site	1 day	Thu 27/12/12	Thu 27/12/12
1206	11KV cable CH R 2-838 to 4-271	60 days	Mon 5/8/13	Wed 16/10/13
1207	Pillar box for security lighting	30 days	Fri 2/8/13	Thu 5/9/13
1210	1. PLO2 at CH R 2-465	21 days	Fri 2/8/13	Mon 26/8/13
1211	2. PLO3 at CH R 3-420	21 days	Fri 2/8/13	Mon 26/8/13
1212	3. PLO3B at CH R 3-815	21 days	Fri 2/8/13	Mon 26/8/13
1213	LV Switchroom for security lighting PLO3 at CH R 4-090	21 days	Sat 8/3/14	Tue 14/4/14
1215	Security Lighting pole SL115 - 170	112 days	Tue 6/8/13	Tue 17/2/13
1217				





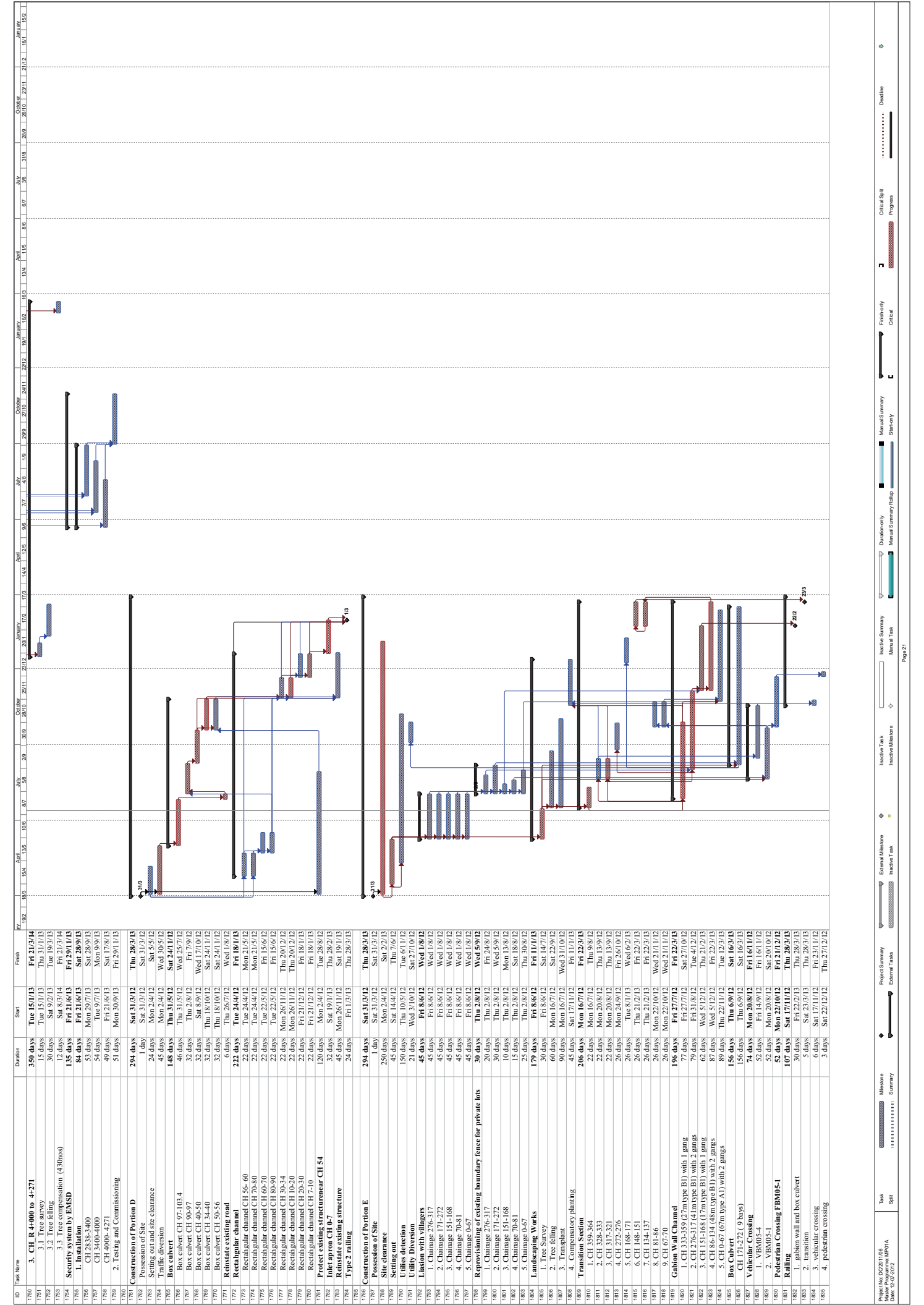


ID	Task Name	Duration	Start	Finish
1300	5.7.1 Excavation/Fill	7 days	Wed 20/9/13	Wed 27/9/13
1301	5.7.2 Trm formation	3 days	Thu 28/9/13	Wed 3/10/13
1302	5.7.3 Blinding layer	19 days	Mon 8/10/13	Mon 29/10/13
1303	5.7.4 Wall stem	33 days	Thu 17/10/13	Sat 1/11/13
1304	5.7.5 Wall stem	33 days	Thu 17/10/13	Sat 1/11/13
1305	5.8 Bay P455 to P459	58 days	Thu 28/9/13	Mon 10/6/13
1306	5.8.1 Excavation/Fill	7 days	Thu 28/9/13	Thu 9/10/13
1307	5.8.2 Trm formation	2 days	Fri 12/10/13	Fri 12/10/13
1308	5.8.3 Blinding layer	3 days	Sat 13/10/13	Mon 15/10/13
1309	5.8.4 Base Slab	19 days	Thu 17/10/13	Mon 11/11/13
1310	5.8.5 Wall stem	33 days	Thu 25/10/13	Mon 18/11/13
1311	6. Secondary Boundary Fence Foundation	124 days	Thu 15/11/13	Wed 19/6/13
1312	6.1 Bay S253 to S262	56 days	Thu 15/11/13	Sat 23/5/13
1313	6.1.1 Excavation/Fill	5 days	Mon 18/11/13	Sat 19/11/13
1314	6.1.2 Trm formation	2 days	Tue 19/11/13	Wed 20/11/13
1315	6.1.3 Blinding layer	19 days	Wed 27/11/13	Wed 20/12/13
1316	6.1.4 Base Slab	33 days	Thu 14/12/13	Sat 23/3/13
1317	6.1.5 Wall stem	56 days	Mon 21/12/13	Tue 24/4/13
1318	6.2.1 Excavation/Fill	5 days	Mon 21/12/13	Fri 25/12/13
1319	6.2.2 Trm formation	2 days	Tue 26/12/13	Thu 29/12/13
1320	6.2.3 Blinding layer	19 days	Fri 10/1/13	Thu 31/1/13
1321	6.2.4 Base Slab	33 days	Wed 20/2/13	Tue 26/2/13
1322	6.2.5 Wall stem	56 days	Wed 20/2/13	Tue 24/4/13
1323	6.3.1 Excavation/Fill	3 days	Thu 28/2/13	Thu 28/2/13
1324	6.3.2 Blinding layer	2 days	Fri 1/3/13	Fri 1/3/13
1325	6.3.3 Blinding layer	2 days	Tue 5/3/13	Wed 6/3/13
1326	6.3.4 Base Slab	19 days	Thu 7/3/13	Mon 4/3/13
1327	6.3.5 Wall stem	33 days	Thu 7/3/13	Mon 4/3/13
1328	6.4.1 Excavation/Fill	5 days	Fri 1/2/13	Mon 15/4/13
1329	6.4.2 Trm formation	2 days	Thu 7/2/13	Wed 6/2/13
1330	6.4.3 Blinding layer	19 days	Thu 14/2/13	Fri 15/2/13
1331	6.4.4 Base Slab	33 days	Sat 16/2/13	Sat 9/3/13
1332	6.4.5 Wall stem	33 days	Mon 4/3/13	Mon 15/4/13
1333	6.5.1 Excavation/Fill	7 days	Thu 12/3/13	Fri 19/3/13
1334	6.5.2 Trm formation	2 days	Wed 20/3/13	Fri 22/3/13
1335	6.5.3 Blinding layer	19 days	Sat 23/3/13	Mon 25/3/13
1336	6.5.4 Base Slab	33 days	Mon 15/4/13	Fri 24/5/13
1337	6.5.5 Wall stem	58 days	Wed 20/3/13	Sat 16/6/13
1338	6.6.1 Excavation/Fill	7 days	Wed 20/3/13	Wed 27/3/13
1339	6.6.2 Trm formation	2 days	Thu 28/3/13	Wed 3/4/13
1340	6.6.3 Blinding layer	19 days	Fri 5/4/13	Sat 6/4/13
1341	6.6.4 Base Slab	33 days	Mon 8/4/13	Mon 29/4/13
1342	6.6.5 Wall stem	58 days	Thu 28/3/13	Mon 10/6/13
1343	6.7.1 Excavation/Fill	3 days	Wed 10/4/13	Fri 12/4/13
1344	6.7.2 Trm formation	2 days	Thu 11/4/13	Mon 15/4/13
1345	6.7.3 Blinding layer	19 days	Sat 13/4/13	Mon 15/4/13
1346	6.7.4 Base Slab	33 days	Thu 25/13	Wed 8/5/13
1347	6.7.5 Wall stem	33 days	Thu 25/13	Mon 10/6/13
1348	6.8 Bay S323 to S329	58 days	Wed 10/4/13	Wed 19/6/13
1349	6.8.1 Excavation/Fill	7 days	Thu 10/4/13	Wed 17/4/13
1350	6.8.2 Trm formation	2 days	Thu 18/4/13	Sat 20/4/13
1351	6.8.3 Blinding layer	19 days	Mon 22/4/13	Tue 23/4/13
1352	6.8.4 Base Slab	33 days	Wed 24/4/13	Thu 16/5/13
1353	6.8.5 Wall stem	73 days	Fri 10/5/13	Wed 19/6/13
1354	7. Fill between Primary & Secondary Boundary Fence	73 days	Mon 25/3/13	Tue 25/6/13
1355	7.1 CH R 2-830 to CH R 2-905	12 days	Mon 25/3/13	Thu 11/4/13
1356	7.2 CH R 2-905 to CH R 2-980	12 days	Wed 3/4/13	Wed 17/4/13
1357	7.3 CH R 2-980 to CH R 3-055	12 days	Wed 10/4/13	Tue 23/4/13
1358	7.4 CH R 3-055 to CH R 3-130	12 days	Tue 16/4/13	Mon 29/4/13
1359	7.5 CH R 3-130 to CH R 3-205	12 days	Sat 25/5/13	Fri 7/6/13
1360	7.6 CH R 3-205 to CH R 3-279	12 days	Wed 24/4/13	Wed 8/5/13
1361	7.7 CH R 3-279 to CH R 3-349	12 days	Mon 3/6/13	Mon 17/6/13
1362	7.8 CH R 3-349 to CH R 3-400	12 days	Tue 26/6/13	Tue 26/6/13
1363	8. Lay cable ducting and draup for Security lighting	71 days	Fri 12/4/13	Mon 8/7/13
1364	8.1 CH R 2-830 to CH R 2-905	10 days	Fri 12/4/13	Tue 23/4/13
1365	8.2 CH R 2-905 to CH R 2-980	10 days	Thu 18/4/13	Mon 29/4/13
1366	8.3 CH R 2-980 to CH R 3-055	10 days	Wed 24/4/13	Mon 6/5/13
1367	8.4 CH R 3-055 to CH R 3-130	10 days	Tue 30/4/13	Sat 11/5/13
1368	8.5 CH R 3-130 to CH R 3-205	10 days	Thu 20/6/13	Thu 20/6/13
1369	8.6 CH R 3-205 to CH R 3-279	10 days	Thu 9/5/13	Thu 21/5/13
1370	8.7 CH R 3-279 to CH R 3-349	10 days	Tue 18/6/13	Mon 8/7/13
1371	8.8 CH R 3-349 to CH R 3-400	10 days	Wed 26/6/13	Mon 8/7/13
1372	9. Boundary Patrol Road works	93 days	Mon 13/5/13	Sat 31/8/13
1373	9.1 CH R 2-838 to 3-100	47 days	Mon 13/5/13	Tue 9/7/13
1374	9.1.1 Trm road formation	4 days	Mon 13/5/13	Thu 16/5/13
1375	9.1.2 Lay 225 road subbase	3 days	Sat 18/5/13	Tue 21/5/13
1376	9.1.3 Kerb bedding	5 days	Wed 22/5/13	Tue 28/5/13
1377	9.1.4 Road kerb	6 days	Wed 29/5/13	Mon 3/6/13
1378	9.1.5 Fill verge with general fill	4 days	Tue 4/6/13	Mon 10/6/13
1379	9.1.6 Excavate bollard post. footing	6 days	Thu 11/6/13	Sat 15/6/13
1380	9.1.7 Install and cast bollard post footing	6 days	Mon 17/6/13	Sat 22/6/13
1381	9.1.8 Lay 150 verge subbase	3 days	Mon 24/6/13	Wed 26/6/13

Project Summary: External Milestone, Inactive Task, Inactive Milestone, Manual Task, Manual Summary, Manual Summary Ratio, Duration-only, Manual Task, Manual Summary, Critical, Finish-only, Critical, Progress, Critical Split, Deadline.

Project No: DC201106  
 Date: 12/02/2012  
 Drawn: J.P.

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ID	Task Name	Duration	Start	Finish
1750	3. CH R 4-000 to 4-271	350 days	Thu 15/11/13	Fri 21/3/14
1751	3.1 Tree survey	15 days	Thu 15/11/13	Thu 15/11/13
1752	3.2 Tree felling	3 days	Fri 16/11/13	Fri 16/11/13
1753	3.3 Tree preservation (430m <sup>2</sup> )	12 days	Fri 16/11/13	Fri 16/11/13
1754	Security system & FANS	135 days	Fri 21/6/13	Fri 29/11/13
1755	1. Installation	84 days	Fri 21/6/13	Sat 28/9/13
1756	CH 38.36-3400	54 days	Mon 29/7/13	Mon 9/9/13
1757	CH 3400-4000	49 days	Tue 9/7/13	Sat 17/8/13
1758	CH 4000-4121	51 days	Mon 30/9/13	Fri 29/11/13
1759	2. Testing and Commissioning	294 days	Sat 31/3/12	Thu 28/3/13
1760	Construction of Portion D	1 day	Sat 31/3/12	Sat 31/3/12
1761	Possession of Site	24 days	Mon 2/4/12	Sat 5/5/12
1762	Settle out and site clearance	45 days	Mon 2/4/12	Wed 30/5/12
1763	Traffic diversion	148 days	Thu 31/5/12	Sat 2/11/12
1764	Box culvert	46 days	Thu 31/5/12	Wed 25/7/12
1765	Box culvert CH 97-103.4	32 days	Thu 2/8/12	Fri 7/9/12
1766	Box culvert CH 90-97	32 days	Sat 8/9/12	Wed 17/10/12
1767	Box culvert CH 40-50	32 days	Thu 18/10/12	Sat 24/11/12
1768	Box culvert CH 24-40	32 days	Thu 18/10/12	Sat 24/11/12
1769	Box culvert CH 206-26	32 days	Thu 18/10/12	Sat 24/11/12
1770	Box culvert CH 206-26	32 days	Thu 18/10/12	Sat 24/11/12
1771	Retaining existing wall	222 days	Thu 26/7/12	Wed 14/8/12
1772	Retaining existing wall	22 days	Tue 24/4/12	Fri 18/1/13
1773	Rectangular channel CH 56-60	22 days	Tue 24/4/12	Mon 21/5/12
1774	Rectangular channel CH 70-80	22 days	Tue 24/4/12	Mon 21/5/12
1775	Rectangular channel CH 60-70	22 days	Tue 22/5/12	Fri 15/6/12
1776	Rectangular channel CH 80-90	22 days	Tue 22/5/12	Fri 15/6/12
1777	Rectangular channel CH 30-34	22 days	Mon 26/11/12	Thu 20/12/12
1778	Rectangular channel CH 30-34	22 days	Mon 26/11/12	Thu 20/12/12
1779	Rectangular channel CH 20-30	22 days	Fri 21/12/12	Fri 18/1/13
1780	Rectangular channel CH 7-10	22 days	Fri 21/12/12	Fri 18/1/13
1781	Protect existing structure near CH 54	120 days	Mon 2/4/12	Tue 28/8/12
1782	Inlet apron CH 0-7	32 days	Sat 19/11/13	Sat 19/11/13
1783	Reinstate existing structure	45 days	Mon 26/11/12	Sat 19/11/13
1784	Type 2 railing	24 days	Fri 1/3/13	Thu 28/3/13
1785	Construction of Portion E	294 days	Sat 31/3/12	Thu 28/3/13
1786	Possession of Site	24 days	Sat 31/3/12	Sat 31/3/12
1787	Site clearance	240 days	Mon 1/4/12	Sat 1/12/12
1788	Site clearance	45 days	Sat 14/4/12	Sat 1/12/12
1789	Utility diversion	150 days	Thu 10/5/12	Tue 6/1/13
1790	Utility diversion	21 days	Wed 31/10/12	Sat 27/10/12
1791	Utility diversion	45 days	Fri 8/6/12	Wed 1/8/12
1792	Liaison with villagers	45 days	Fri 8/6/12	Wed 1/8/12
1793	1. Change 276-317	45 days	Fri 8/6/12	Wed 1/8/12
1794	2. Change 171-272	45 days	Fri 8/6/12	Wed 1/8/12
1795	3. Change 151-168	45 days	Fri 8/6/12	Wed 1/8/12
1796	4. Change 70-81	45 days	Fri 8/6/12	Wed 1/8/12
1797	5. Change 0-67	45 days	Fri 8/6/12	Wed 1/8/12
1798	Reprovisioning of existing boundary fence for private lots	30 days	Thu 2/8/12	Wed 5/9/12
1799	1. Change 276-317	20 days	Thu 2/8/12	Wed 5/9/12
1800	2. Change 171-272	30 days	Thu 2/8/12	Wed 5/9/12
1801	3. Change 151-168	10 days	Thu 2/8/12	Mon 13/8/12
1802	4. Change 70-81	15 days	Thu 2/8/12	Sat 18/8/12
1803	5. Change 0-67	25 days	Thu 2/8/12	Thu 30/8/12
1804	Landscaping Works	179 days	Fri 8/6/12	Fri 11/1/13
1805	1. Tree Survey	30 days	Fri 8/6/12	Sat 14/7/12
1806	2. Tree felling	60 days	Mon 16/7/12	Sat 14/7/12
1807	3. Transplant	90 days	Mon 16/7/12	Wed 31/10/12
1808	4. Compulsory planting	45 days	Sat 17/11/12	Fri 11/1/13
1809	Transition Section	206 days	Mon 16/7/12	Fri 22/3/13
1810	1. CH 328-333	22 days	Mon 30/8/12	Thu 3/9/12
1811	2. CH 334-337	22 days	Mon 30/8/12	Thu 3/9/12
1812	3. CH 317-321	26 days	Mon 20/8/12	Thu 13/9/12
1813	4. CH 272-276	26 days	Mon 20/8/12	Thu 13/9/12
1814	5. CH 168-171	26 days	Tue 8/1/13	Wed 6/2/13
1815	6. CH 148-151	26 days	Thu 21/2/13	Fri 22/3/13
1816	7. CH 134-137	26 days	Thu 21/2/13	Fri 22/3/13
1817	8. CH 81-86	26 days	Mon 22/10/12	Wed 21/11/12
1818	9. CH 67-70	26 days	Mon 22/10/12	Wed 21/11/12
1819	Gabion Wall Channel	196 days	Fri 27/7/12	Fri 22/3/13
1820	1. CH 333-359 (27m type B1) with 1 gang	77 days	Fri 27/7/12	Sat 27/10/12
1821	2. CH 276-317 (41m type B1) with 2 gangs	79 days	Fri 31/8/12	Tue 4/12/12
1822	3. CH 151-168 (17m type B1) with 1 gang	62 days	Wed 5/12/12	Thu 21/2/13
1823	4. CH 86-134 (48m type B1) with 2 gangs	87 days	Wed 5/12/12	Fri 22/3/13
1824	5. CH 0-67 (67m type A1) with 2 gangs	89 days	Thu 22/11/12	Tue 12/2/13
1825	Box Culvert	156 days	Thu 6/9/12	Sat 16/3/13
1826	CH 171-272 (9 bays)	156 days	Thu 6/9/12	Sat 16/3/13
1827	Vehicle Crossing	74 days	Mon 20/8/12	Fri 16/11/12
1828	1. VBMO5-4	52 days	Fri 14/9/12	Fri 16/11/12
1829	2. VBMO5-1	52 days	Mon 20/8/12	Sat 20/10/12
1830	Pedestrian Crossing VBMO5-1	52 days	Mon 22/10/12	Fri 12/2/13
1831	Railing	107 days	Sat 17/11/12	Thu 28/3/13
1832	1. gabion wall and box culvert	30 days	Fri 22/2/13	Thu 28/3/13
1833	2. transition	5 days	Sat 31/1/13	Thu 28/3/13
1834	3. vegetation crossing	3 days	Sat 31/1/13	Fri 23/1/13
1835	4. pedestrian crossing	3 days	Sat 22/12/12	Thu 27/12/12

ID	Task Name	Duration	Start	Finish
1	Letter of Acceptance	1 day	30/3/2012	30/3/2012
2	Commencement of Works	1 day	31/3/2012	31/3/2012
3	Possession of Site	220 days	27/12/2011	27/12/2012
4	1. Portion A (Calendar Days 270 days)	1 day	27/12/2012	27/12/2012
5	2. Portion B (Calendar Days 270 days)	1 day	29/6/2012	29/6/2012
6	3. Portion C (Calendar Days 270 days)	1 day	27/12/2012	27/12/2012
7	4. Portion D	1 day	31/3/2012	31/3/2012
8	5. Portion E	1 day	31/3/2012	31/3/2012
9	6. Works Area	1 day	21/5/2012	20/8/2012
10	Notification to EPD (EP 430)	77 days	11/3/2012	29/9/2012
11	Liaison with HKPF on the boundary security and traffic arrangement along the BFR	149 days	11/3/2012	29/9/2012
12	Arrangement along the BFR	838 days	31/3/2012	31/3/2015
13	1. Section 1 of the Works (Portion A) - Calendar day 607 days	607 days	27/12/2011	28/8/2014
14	2. Section 2 of the Works (Portion B) - Calendar day 588 days	588 days	29/6/2012	24/12/2014
15	3. Section 3 of the Works (Portion C) - Calendar day 740 days	740 days	27/12/2011	24/12/2015
16	4. Section 4 of the Works (Portion D) - Calendar day 365 days	365 days	31/3/2012	28/3/2013
17	5. Section 5 of the Works (Portion E) - Calendar day 365 days	365 days	31/3/2012	28/3/2013
18	Safety & Environmental	837 days	24/4/2012	24/1/2015
19	Engineer's site accommodation	70 days	31/3/2012	28/6/2012
20	Contractor's Site Accommodation	70 days	31/3/2012	28/6/2012
21	Construction of Portion A CH R 0+000 to CH R 2+050	494 days	27/12/2011	25/8/2014
22	Possession of Site	1 day	27/12/2012	27/12/2012
23	11kV cable CH R 0+000 to 1+750 by CLP	190 days	24/8/2013	14/4/2014
24	132kV cable CH R 1+640 to 2+040 by CLP	60 days	6/3/2014	17/5/2014
25	Pillar box for security lighting	223 days	14/9/2013	16/6/2014
26	LV Switchroom for water pumps	110 days	29/8/2013	10/1/2014
27	LV Switchroom for security lighting PI.01 at CH R 0+990	21 days	22/7/2013	14/8/2013
28	Security Lighting pole SL.001 - 082	245 days	22/6/2013	16/4/2014
29	E & M	21 days	18/3/2014	11/4/2014
30	Gates	198 days	19/6/2013	15/2/2014
31	Irrigation System	250 days	22/6/2013	22/4/2014
32	Geotechnical Instrumentation	283 days	11/6/2013	22/5/2014
33	Waterworks	126 days	31/7/2013	30/12/2013
34	Traffic sign & frontier closed area warning sign	30 days	30/6/2014	4/8/2014
35	Road marking	4 days	30/6/2014	4/7/2014
36	Boundary Patrol Road	494 days	27/12/2011	25/8/2014
37	CH R 0+000 to 0+500	290 days	27/12/2011	17/12/2013
38	1. Site clearance	45 days	27/12/2011	21/2/2012
39	2. Setting out	7 days	31/12/2011	25/2/2012
40	3. UV detection	32 days	31/12/2011	30/1/2012
41	4. Drain Pipe	176 days	1/1/2012	9/8/2013
42	5. Primary Boundary Fence Foundation	166 days	4/12/2011	29/7/2013
43	6. Secondary Boundary Fence Foundation	132 days	14/3/2012	23/8/2013
44	7. Fill between Primary & Secondary Boundary Fence Foundation	130 days	28/3/2012	4/9/2013
45	8. Lay cable ducting and drawpit for Security Lighting	86 days	5/9/2012	17/12/2012
46	9. Boundary Patrol Roadworks	104 days	11/1/2013	22/5/2013
47	10. Temporary Road	104 days	7/1/2013	16/5/2013
48	11. Utility reserved ducts under	45 days	10/8/2013	31/0/2013
49	12. Fill outside PBF & SBF foundation	24 days	4/10/2013	1/11/2013
50	13. Drainage works	78 days	7/6/2013	7/9/2013
51	14. Primary Boundary Fence	74 days	7/6/2013	3/9/2013
52	15. Secondary Boundary Fence	213 days	22/2/2013	9/11/2013
53	CH R 0+500 to 1+000	45 days	22/2/2013	19/4/2013
54	1. Site clearance	45 days	26/2/2013	21/4/2013
55	2. Setting out	7 days	23/2/2013	1/3/2013
56	3. UV detection	45 days	22/2/2013	1/4/2013
57	4. Lay Cable	32 days	14/3/2013	2/5/2013
58	5. Drain Pipe	96 days	8/3/2013	2/7/2013
59	6. Primary Boundary Fence Foundation	96 days	8/3/2013	2/7/2013
60	7. Secondary Boundary Fence Foundation	52 days	20/5/2013	20/7/2013
61	8. Fill between Primary & Secondary Boundary Fence Foundation	50 days	3/6/2013	1/8/2013
62	9. Lay cable ducting and drawpit for Security Lighting	74 days	13/8/2013	9/11/2013
63	10. Boundary Patrol Roadworks	18 days	4/3/2013	23/3/2013
64	11. Utility reserved ducts under	45 days	8/7/2013	28/8/2013
65	12. Fill outside PBF & SBF foundation	48 days	29/8/2013	26/10/2013
66	13. Drainage works	35 days	2/7/2013	10/8/2013
67	14. Primary Boundary Fence	33 days	2/7/2013	8/8/2013
68	15. Secondary Boundary Fence	10 days	22/7/2013	1/8/2013
69	16. HKPF Lo Fong Bridge Post			

Project No. DC201108  
 Drawn: 27/2/2012 MPJZ  
 21 November 2012  
 411  
 109  
 102  
 11 August 2012  
 207

Task Split  
 Milestone  
 Project Summary  
 External Tasks  
 Inactive Task  
 Inactive Milestone  
 Manual Task  
 Manual Summary  
 Manual Summary Ratio  
 Star-only  
 Critical  
 Finish-only  
 Critical Split  
 Program  
 Deadline

ID	Task Name	Duration	Start	Finish
568	17. Electrical inter: cabinet of HKPF Lo Fong Bridge Post at CH. R 0-9380	1 day	22/7/2013	22/7/2013
569	CH R 1-000 to 1-500	261 days	20/4/2013	5/3/2014
570	1. Site clearance	45 days	20/4/2013	14/6/2013
571	2. Settling out	45 days	24/4/2013	18/6/2013
572	3. UU detection	7 days	26/4/2013	4/5/2013
573	4. Drain pipe	42 days	11/5/2013	2/7/2013
574	5. Primary Boundary Fence Foundation	95 days	29/6/2013	22/10/2013
575	6. Secondary Boundary Fence Foundation	95 days	29/6/2013	22/10/2013
576	7. Fill between Primary & Secondary Boundary Fence Foundation	51 days	4/9/2013	5/11/2013
577	8. Lay cable ducting and drawpit for Security lighting	49 days	18/9/2013	16/11/2013
578	9. Boundary Patrol Roadworks	97 days	6/11/2013	5/3/2014
579	10. Utility reserved ducts under	18 days	30/4/2013	22/5/2013
580	11. Fill outside PBF & SBF foundation	45 days	23/10/2013	19/12/2013
581	12. Drainage works	56 days	14/12/2013	24/2/2014
582	13. Primary Boundary Fence	53 days	21/10/2013	3/12/2013
583	14. Secondary Boundary Fence	38 days	21/10/2013	15/11/2013
584	CH R 1-500 to -2-050	359 days	15/6/2013	25/8/2014
585	1. Site clearance	30 days	15/6/2013	20/7/2013
586	2. Settling out	45 days	19/6/2013	10/8/2013
587	3. UU detection	7 days	21/6/2013	28/6/2013
588	4. Box Culvert	136 days	29/6/2013	9/12/2013
589	5. Primary Boundary Fence Foundation	192 days	29/6/2013	19/2/2014
590	6. Secondary Boundary Fence Foundation	144 days	29/6/2013	18/12/2013
591	7. Fill between Primary & Secondary Boundary Fence Foundation	146 days	6/9/2013	5/3/2014
592	8. Lay cable ducting and drawpit for Security lighting	144 days	21/9/2013	17/3/2014
593	9. Boundary Patrol Roadworks	93 days	8/3/2014	28/6/2014
594	10. Utility reserved ducts under BC2	14 days	29/6/2013	16/7/2013
595	11. Fill outside PBF & SBF foundation	45 days	20/2/2014	14/4/2014
596	12. Drainage works	110 days	15/4/2014	25/8/2014
597	13. Primary Boundary Fence	88 days	11/7/2014	23/3/2014
598	14. Secondary Boundary Fence	72 days	16/7/2014	20/1/2014
599	Landscaping	24 days	26/2/2014	20/1/2014
600	Security system by EMSD	188 days	12/8/2013	25/5/2014
601	Construction of Portion B CH. R. 2-050 to CH. R. 2-838	445 days	29/6/2012	24/12/2013
602	Possession of Site	1 day	29/6/2012	29/6/2012
603	Notification to EPD (EP 430)	77 days	21/5/2012	20/8/2012
604	11kV cable CH. R. 2-130 to 2-838	30 days	23/9/2013	29/10/2013
605	Temporary diversion of 11kV cable in Portion B by CLP	60 days	26/9/2012	7/12/2012
606	Pillar box for security lighting	21 days	16/8/2013	9/9/2013
607	LV Switchroom for security lighting PL02 at CH. R. 2-225	21 days	16/8/2013	9/9/2013
608	Security Lighting pole SL083 - 114	196 days	2/11/2012	25/7/2013
609	E & M	14 days	31/1/2013	19/2/2013
610	Pedestrian Gate	147 days	16/1/2013	18/7/2013
611	Geotechnical Instrumentation	16 days	19/9/2013	9/10/2013
612	Traffic sign & fontier closed area warning sign	15 days	19/9/2013	8/10/2013
613	Road marking	3 days	19/9/2013	23/9/2013
614	CH R. 2-050 to 2-500	445 days	29/6/2012	24/12/2013
615	1. Site clearance	30 days	29/6/2012	3/8/2012
616	2. Settling out	45 days	4/8/2012	25/9/2012
617	3. UU detection	7 days	13/8/2012	20/8/2012
618	4. Box Culvert No. 4 at CH. R. 2-164	43 days	21/8/2012	11/10/2012
619	5. Drain pipe (NII)	0 days	38/2/2012	3/8/2012
620	6. Primary Boundary Fence Foundation	401 days	21/8/2012	24/12/2013
621	CH R. 2-500 to 2-838	367 days	29/6/2012	21/9/2013
622	1. Site clearance	30 days	29/6/2012	3/8/2012
623	2. Settling out	45 days	4/8/2012	25/9/2012
624	3A. UU detection	7 days	10/8/2012	17/8/2012
625	3B. Drain Pipe	60 days	21/8/2012	1/11/2012
626	4. Primary Boundary Fence Foundation	244 days	18/8/2012	17/6/2013
627	5. Secondary Boundary Fence Foundation	186 days	29/10/2012	17/6/2013
628	6. Fill between Primary & Secondary Boundary Fence Foundation	198 days	29/10/2012	2/7/2013
629	7. Lay cable ducting and drawpit for Security lighting	196 days	12/11/2012	13/7/2013
630	8. Boundary Patrol Roadworks	239 days	30/11/2012	21/9/2013
631	9. Temporary Road	49 days	1/2/2013	6/4/2013
632	10. Fill outside PBF & SBF foundation	30 days	18/6/2013	23/7/2013
633	11. Drainage works	24 days	24/7/2013	20/8/2013
634	12. Primary Boundary Fence	194 days	12/11/2012	11/7/2013
635	13. Secondary Boundary Fence	7 days	3/7/2013	10/7/2013
636	14. Landscaping	105 days	26/9/2012	1/2/2013
637	Security system by EMSD	121 days	8/2/2013	11/7/2013
638	1. Installation	120 days	8/2/2013	10/7/2013
639	2. Testing and Commissioning	1 day	11/7/2013	11/7/2013

Project No. DC201106 | Revision: 2/2012 | MP02 | Date: 27/02/2012

Task Split | Milestone | Project Summary | External Tasks | External Milestone | Inshore Task | Inshore Milestone | Inshore Task | Inshore Summary | Manual Task | Manual Summary | Manual Summary Ratio | Start-only | Manual Summary | Finish-only | Manual Summary | Critical | Critical Shift | Progress | Deadline

ID	Task Name	Duration	Start	Finish
1921	Construction of Portion C CH R 2+838 to CH R 4+271	619 days	27/12/2012	24/12/2015
1922	Possession of Site	1 day	27/12/2012	27/12/2012
1923	1TKS cable CH R 2+838 to 4+271	138 days	14/9/2013	4/5/2014
1926	Pillar box for security lighting	30 days	28/2/2013	5/9/2013
1931	LV Switchroom for security lighting PL03 at CH R 4+090	21 days	8/3/2014	1/4/2014
1933	Security Lighting pole SL115 - 170	96 days	14/5/2013	5/9/2013
1941	E & M	21 days	9/7/2013	1/8/2013
1945	Gate	69 days	14/5/2013	5/8/2013
1946	1. Pedestrian Gate	43 days	15/6/2013	5/8/2013
1949	2. Vehicle Pedestrian Gate	36 days	14/5/2013	26/6/2013
1952	3. Vehicular Gate	10 days	21/6/2013	3/7/2013
1955	Geotechnical Instrumentation	256 days	30/4/2013	8/3/2014
1970	Traffic sign & frontier closed area warning sign	26 days	4/11/2013	31/12/2013
1984	Road marking	4 days	4/11/2013	7/11/2013
1985	CH R 3+400 to 3+400	328 days	27/12/2012	6/7/2014
1986	1. Site clearance	30 days	27/12/2012	31/1/2013
1987	2. Site clearance	45 days	3/10/2012	25/2/2013
1990	3. UU detection	7 days	7/12/2013	14/12/2013
1991	4. Drain pipe	45 days	15/12/2013	10/6/2014
1992	5. Primary Boundary Fence Foundation	117 days	15/12/2013	10/6/2014
1995	6. Secondary Boundary Fence Foundation	124 days	15/12/2013	19/6/2014
1996	7. Fill between Primary & Secondary Boundary Fence Foundation	73 days	25/3/2013	25/6/2013
1997	8. Lay cable ducting and drawpit for Security lighting	71 days	12/4/2013	8/7/2013
1998	9. Boundary Patrol Road works	135 days	24/5/2013	21/12/2013
1999	10. Fill outside PBF & SBF foundation	45 days	20/6/2013	12/8/2013
1999	11. Drainage works	144 days	13/8/2013	6/2/2014
1999	12. Primary Boundary Fence	73 days	30/4/2013	27/7/2013
1999	13. Secondary Boundary Fence	59 days	30/4/2013	11/7/2013
1999	CH R 3+400 to 4+000	392 days	27/12/2012	23/4/2014
1999	1. Site clearance	30 days	27/12/2012	27/1/2013
1999	2. Site clearance	45 days	3/10/2012	25/2/2013
1999	3. UU detection	7 days	4/12/2013	11/12/2013
1999	4. Drain pipe	50 days	12/12/2013	14/3/2014
1999	5. Primary Boundary Fence Foundation	122 days	12/12/2013	14/6/2014
1999	6. Secondary Boundary Fence Foundation	108 days	12/12/2013	28/6/2014
1999	7. Fill between Primary & Secondary Boundary Fence Foundation	76 days	25/3/2013	28/6/2013
1999	8. Lay cable ducting and drawpit for Security lighting	74 days	12/4/2013	11/7/2013
1999	9. Boundary Patrol Road works	56 days	27/7/2013	21/10/2013
1999	10. Fill outside PBF & SBF foundation	40 days	15/6/2013	1/8/2013
1999	11. Drainage works	217 days	28/2/2013	23/4/2014
1999	12. Primary Boundary Fence	31 days	31/5/2013	8/7/2013
1999	13. Secondary Boundary Fence	22 days	31/5/2013	26/6/2013
1999	CH R 4+000 to 4+271	619 days	27/12/2012	24/12/2015
1999	1. Site clearance	15 days	27/12/2012	14/1/2013
1999	2. Site clearance	25 days	3/10/2012	27/1/2013
1999	3. UU detection	90 days	30/12/2013	27/3/2014
1999	4. Drain pipe	42/2013	4/2/2013	29/6/2013
1999	5. Primary Boundary Fence Foundation	277 days	4/2/2013	11/1/2014
1999	6. Secondary Boundary Fence Foundation	151 days	4/2/2013	10/8/2013
1999	7. Fill between Primary & Secondary Boundary Fence Foundation	227 days	24/4/2013	24/1/2014
1999	8. Lay cable ducting and drawpit for Security lighting	100 days	24/4/2013	22/8/2013
1999	9. Boundary Patrol Road works CH R 4+000 to 4+271	47 days	16/7/2013	7/9/2013
1999	10. Fill outside PBF & SBF foundation	44 days	13/1/2014	7/3/2014
1999	11. Drainage works	266 days	8/3/2014	24/12/2015
1999	12. Primary Boundary Fence	30 days	15/5/2013	20/6/2013
1999	13. Secondary Boundary Fence	25 days	15/5/2013	14/6/2013
1999	14. Retaining wall CH R 4+090 to CH R 4+270	216 days	4/2/2013	29/10/2013
1999	Landscaping	350 days	15/12/2013	21/3/2014
1999	Security system by EMSD	135 days	21/6/2013	29/11/2013
1999	Construction of Portion D	294 days	31/7/2012	28/3/2013
1999	1. Site clearance	1 day	31/7/2012	31/7/2012
1999	2. Site clearance	24 days	2/4/2012	5/6/2012
1999	3. Traffic diversion	45 days	2/4/2012	30/6/2012
1999	Box culvert	148 days	31/5/2012	2/11/2012
1999	Reinstatue existing road	6 days	26/7/2012	1/8/2012
1999	Rectangular channel	222 days	24/4/2012	18/1/2013
1999	Protect existing structure near CH 54	120 days	24/2/2012	28/6/2012
1999	Inlet apron CH 0-7	32 days	19/12/2013	28/2/2013
1999	Reinstatue existing structure	45 days	2/6/1/2012	19/1/2013
1999	Type 2 railing	24 days	1/3/2013	28/3/2013
1999	Construction of Portion E	294 days	31/3/2012	28/3/2013
1999	1. Site clearance	1 day	31/3/2012	31/3/2012
1999	2. Site clearance	250 days	2/4/2/2012	21/2/2013

External Milestone Inactivate Task Project Summary External Tasks Task Split Milestone Summary

Manual Task Manual Summary Manual Summary Ratio Manual Summary Manual Summary Manual Summary

Start-only Finish-only Critical Critical Split Program Deadline

27/12 27/12 27/12

Project No: DC201106  
 Issue: 27/12/2012 - MP02  
 Date: 27/12/2012

**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 Aug 2012

Month	Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of Non C&D Wastes Generated Monthly						
	Total Quantity Generated (in '000m <sup>3</sup> )	Hard Rock and Large Broken Concrete (in '000m <sup>3</sup> )	Reused in the Contract (in '000m <sup>3</sup> )	Reused in other Projects (in '000m <sup>3</sup> )	Disposed as Public Fill (in '000m <sup>3</sup> )	Imported Fill (in '000m <sup>3</sup> )	Metals (in '000 kg)	Paper/ cardboard packaging (in '000kg)	Plastics (see Note 3) (in '000kg)	Chemical Waste (in '000kg)	Others, e.g. general refuse (in '000m <sup>3</sup> )
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	12.560
Jun-12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.436
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	6.800	0.000	6.800	0.000	0.000	0.000	0.000	0.200	0.000	0.000	0.000
Total	6.800	0.000	6.800	0.000	0.000	0.000	0.000	0.200	0.000	0.000	13.996

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: Aug 2012

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 <sup>3</sup> )	Actual Quantities used (m <sup>3</sup> )	Remarks
1	Transition formwork & falsework	Temporary formwork & falsework design	10	9	
<b>Total Estimated Quantity of Timber Used</b>			10		

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



**ANNEX F**  
**RESPONSE TO COMMENTS**

Contract no. DC/2011/06  
 Reprovisional of Boundary Patrol Road and Associated Security Facilities between Ping Yuen River and Pak Fu Shan and Drainage Works in North District  
 IEC Comments on the Monthly EM&A Report (Aug 2012) For Drainage Works under EP-430/2011

Item	Section / Paragraph	IEC Comments	ET's Response
1.	Table of contents	Please update, most items listed in LIST OF TABLES do not exist	Table of contents has been updated.
2.	Table 4-2, 4-3	Please check and update Major Construction activities in portion A and C	Table 4-2, 4-3 updated.
3.	Annex C	Please remove the heading 'Annex D' in Annex C	Annex D has been removed.
4.	Annex E	Please also include Estimated Timber Use summary	Estimated Timber Use summary has been included.
5.	Annex E	Please delete Appendix E in waste flow table	Appendix E has been deleted.

Date: 5 Sept 2012