

**Contract No. HY/2017/10  
Tuen Mun – Chek Lap Kok Link –  
Northern Connection Tunnel  
Buildings, Electrical and Mechanical  
Works**

*Thirtieth Monthly EM&A Report*

11 December 2020

**Environmental Resources Management**  
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# Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

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*Thirtieth Monthly EM&A Report*

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Client:  Gammon		Project No:  0463091			
Summary:  This document presents the Thirtieth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works.		Date: 11 December 2020			
		Approved by: 			
		Mr Craig Reid Partner			
		Certified by: 			
		Dr Jasmine Ng ET Leader			
	Thirtieth Monthly EM&A Report	CW	JN	CAR	11/12/20
Revision	Description	By	Checked	Approved	Date
This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract 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.		Distribution <input type="checkbox"/> Internal <input checked="" type="checkbox"/> Public <input type="checkbox"/> Confidential			
		 			



11 December 2020

By Fax (2783 0155) and By Post

AECOM Asia Company Limited  
Supervising Officer's Representative Office  
No. 8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Mr. Desmond Fung

Dear Mr. Fung,

**Re: Agreement No. CE 48/2011 (EP)  
Environmental Project Office for the  
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and  
Tuen Mun-Chek Lap Kok Link – Investigation**

**Contract No. HY/2017/10  
TM-CLKL – Northern Connection Tunnel Buildings, E&M Works  
30<sup>th</sup> Monthly EM&A Report for November 2020**

Reference is made to the Environmental Team's submission of the monthly EM&A report for November 2020 (ET's ref.: "0463091\_30th Monthly EM&A\_20201111.doc" dated 11 December 2020) certified by the ET Leader and provided to us via e-mail on 11 December 2020.

Please be informed that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

Thank you for your attention. Please feel free to contact the undersigned or the ENPO Leader, Mr. Y H Hui, should you require further information.

Yours sincerely,  
For and on behalf of  
Ramboll Hong Kong Limited

Manson Yeung  
Independent Environmental Checker  
Tuen Mun-Chek Lap Kok Link

c.c.

HyD	Mr. Patrick Ng	(By Fax: 3188 6614)
HyD	Mr. Francis Chan	(By Fax: 3188 6614)
AECOM	Mr. Conrad Ng	(By Fax: 3922 9797)
ERM	Dr. Jasmine Ng	(By Fax: 2723 5660)
Gammon	Mr. Max Poon	(By Fax: 3520 0486)

Internal: DY, YH, ENPO Site

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## **EXECUTIVE SUMMARY**

Under *Contract No. HY/2017/10*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake Northern Connection Tunnel Buildings, Electrical and Mechanical Works of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Engineer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Subsequent applications for variation of environmental permits (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The construction phase of the Contract commenced on 7 June 2018 and will tentatively be completed by 2021. The impact monitoring of the EM&A programme, including air quality and environmental site inspections, were commenced on 7 June 2018.

This is the Thirtieth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 November 2020 for the *Contract No. HY/2017/10 Northern Connection Tunnel Buildings, Electrical and Mechanical Works* (the “Contract”) in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

### ***Land-based Works***

- Handover Inspection at Main Control Building;
- Handover Inspection at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;
- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Handover Inspection at Fire Services Department Building;
- Handover Inspection at Customs and Excise Department Building;
- Handover Inspection at N1;
- Handover Inspection at Kiosk N2;
- T&C and FSI at the Tunnel;



- Handover Inspection at underpass at C3 area;
- Handover Inspection at Satellite Control Building;
- Handover Inspection at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Landscape Works at Northern Landfall and Southern Landfall.

A summary of monitoring and audit activities conducted in the reporting period is listed below <sup>(1)</sup>:

24-hour TSP Monitoring	6 sessions
1-hour TSP Monitoring	6 sessions
Landfill Gas Hazard Monitoring	25 days
Joint Environmental Site Inspection	4 sessions

#### Summary of Breaches of Action/Limit Levels

##### *Breaches of Action and Limit Levels for Air Quality*

Three (3) Action Level and one (1) Limit Level exceedances for 1-hour TSP and two (2) Action Level exceedances for 24-hour TSP were recorded by the Environmental Team of Contract No. HY/2012/08 during the reporting period.

##### *Breaches of Action Level for Landfill Gas Hazard Monitoring*

Results of landfill gas hazard monitoring in the reporting month complied with the Action Level.

#### Environmental Complaints, Non-compliance & Summons

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

#### Reporting Change

Landscape and visual monitoring for 24-month establishment period conducted by Contract No. HY/2012/07 and HY/2013/12 was reported in the EM&A report for this Contract in this reporting period.

#### Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of December 2020 include the following:

(1) ET justification on the Contract Specific Environmental Monitoring and Audit activities under this Contract was submitted to ENPO on 11 September 2018

### *Land-based Works*

- Handover Inspection at Main Control Building;
- Handover Inspection at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;
- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Handover Inspection at Fire Services Department Building;
- Handover Inspection at Customs and Excise Department Building;
- Handover Inspection at Kiosk N1;
- Handover Inspection at Kiosk N2;
- Handover Inspection at the Tunnel;
- Handover Inspection at C3 area;
- Handover Inspection at Satellite Control Building;
- Handover Inspection at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Handover Inspection at Northern Landfall and Southern Landfall.

### **Future Key Issues**

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of December 2020 are mainly associated with waste management and landfill gas monitoring issues.

**BACKGROUND**

According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM)*. The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-146/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

Under *Contract No. HY/2017/10*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the Northern Connection Tunnel Buildings, Electrical and Mechanical Works of TM-CLKL while AECOM Asia Company Limited was appointed by HyD as the Engineer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

The construction phase of the Contract commenced on 7 June 2018 and will be tentatively completed by 2021. The impact monitoring phase of the EM&A programme, including air quality and environmental site inspections, commenced on 7 June 2018.

The general layout plan of the Contract components is presented in *Figures 1.1 & 1.2a to c*.



Project Management Initials: Designer: KATH Checked: SYLC Approved: CWN ISO A1 594mm x 841mm

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**AECOM**

PROJECT  
 TUEN MUN -  
 CHEK LAP KOK LINK

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK  
 - NORTHERN CONNECTION TUNNEL  
 BUILDINGS, ELECTRICAL AND  
 MECHANICAL WORKS

CLIENT  

 路政署  
 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工程管理有限公司  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

CONSULTANT  
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**Figure 1.1**

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
A	JAN.18	TENDER ADDENDUM NO.1	SYLC
-	DEC.17	TENDER DRAWING	SYLC

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KEY PLAN

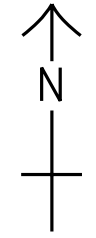
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 CONTRACT NO. HY/2017/10

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 OVERALL SITE PLAN

SHEET NUMBER  
 60240249/C4/7051A



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PROJECT  
TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE  
TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

CLIENT  
路政署  
**HIGHWAYS DEPARTMENT**  
港務局  
Hong Kong - Zhuhai - Macao Bridge  
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**Figure 1.2a**

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A	JAN.18	TENDER ADDENDUM NO.1	SYLC
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KEY PLAN

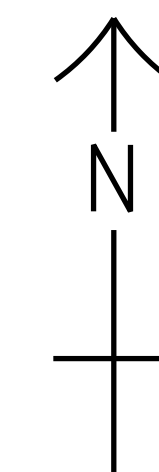
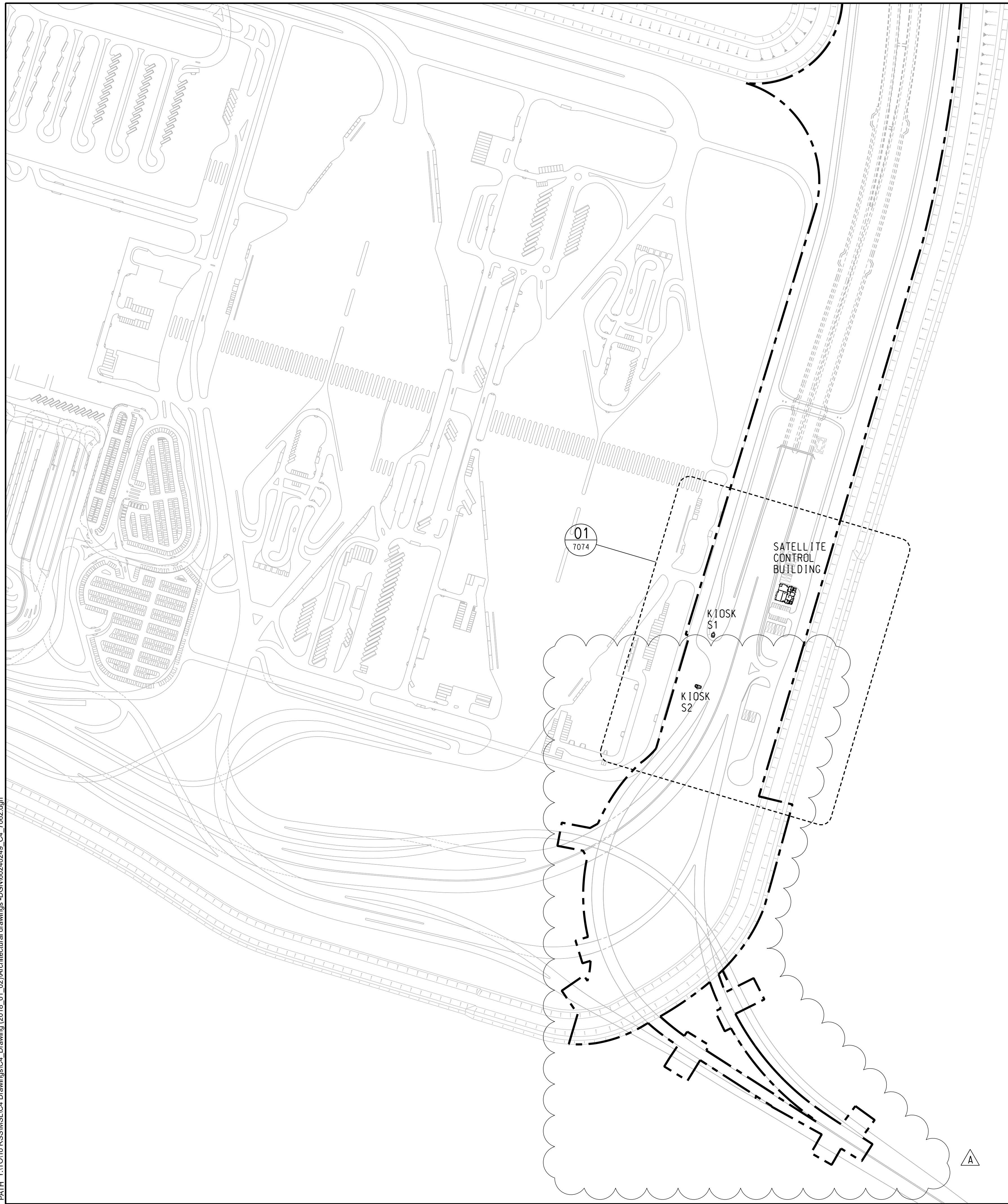
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60240249

CONTRACT NO.  
HY/2017/10

SHEET TITLE  
ZONING PLAN (SHEET 1)

SHEET NUMBER  
60240249/C4/7061A

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PROJECT

TUEN MUN -  
CHEK LAP KOK LINK

CONTRACT TITLE  
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 - NORTHERN CONNECTION TUNNEL  
 BUILDINGS, ELECTRICAL AND  
 MECHANICAL WORKS

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Figure 1.2b

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STATUS

SCALE

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DIMENSION UNIT

MILLIMETRES

KEY PLAN

PROJECT NO.

60240249

CONTRACT NO.

HY/2017/10

SHEET TITLE

ZONING PLAN  
(SHEET 2)

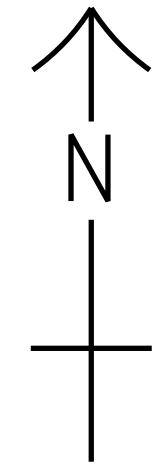
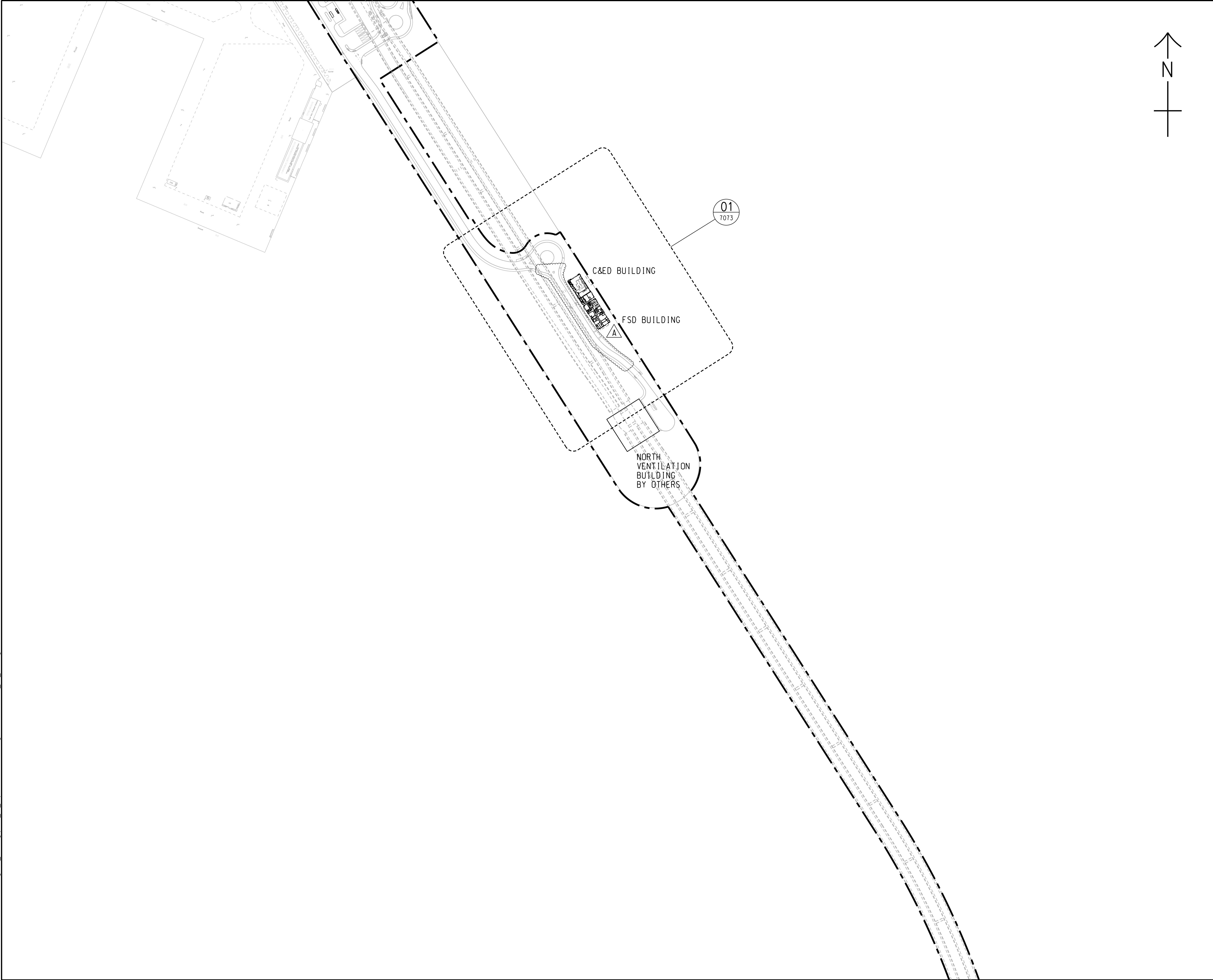
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**AECOM**

**PROJECT**  
 項目  
**TUEN MUN - CHEK LAP KOK LINK**

**CONTRACT TITLE**  
 TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

**CLIENT**  
 業主  
  
 路政署 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

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**Figure 1.2c**

**ISSUE/REVISION**  
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 MILLIMETRES

**KEY PLAN**  
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 項目編號  
 60240249

**CONTRACT NO.**  
 合約編號  
 HY/2017/10

**SHEET TITLE**  
 圖紙名稱  
 ZONING PLAN  
 (SHEET 3)

**SHEET NUMBER**  
 圖紙編號  
 60240249/C4/7063A

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## 1.2 SCOPE OF REPORT

This is the Thirtieth Monthly EM&A Report under the *Contract No. HY/2017/10 Tuen Mun – Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works*. This report presents a summary of the environmental monitoring and audit works in November 2020.

## 1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

**Table 1.1** *Contact Information of Key Personnel*

Party	Position	Name	Telephone	Fax
HyD (Highways Department)	Project Coordinator	Joseph Lee	2762 4958	3188 6614
	Senior Engineer	Cheng Pan	2762 3383	3188 6614
ER (AECOM Asia Company Limited)	Principle Resident Engineer	S. W. Fok	2293 6200	2293 6300
	Resident Engineer	Desmond Fung	2293 6200	2293 6300
ENPO / IEC (Ramboll Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
	IEC	Manson Yeung	9700 6767	3465 2899
Contractor (Gammon Construction Limited)	Site Agent	H. H. Lee	6096 6281	-
	Environmental Officer	Phoebe Ng	9869 1105	-
ET (ERM-HK)	ET Leader	Dr. Jasmine Ng	2271 3311	2723 5660

## 1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of the Contract commenced on 7 June 2018. The three-month rolling construction programme is shown in *Appendix B*.

As informed by the Contractor, details of the major works carried out in this reporting month are listed below:

### *Land-based Works*

- Handover Inspection at Main Control Building;
- Handover Inspection at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;

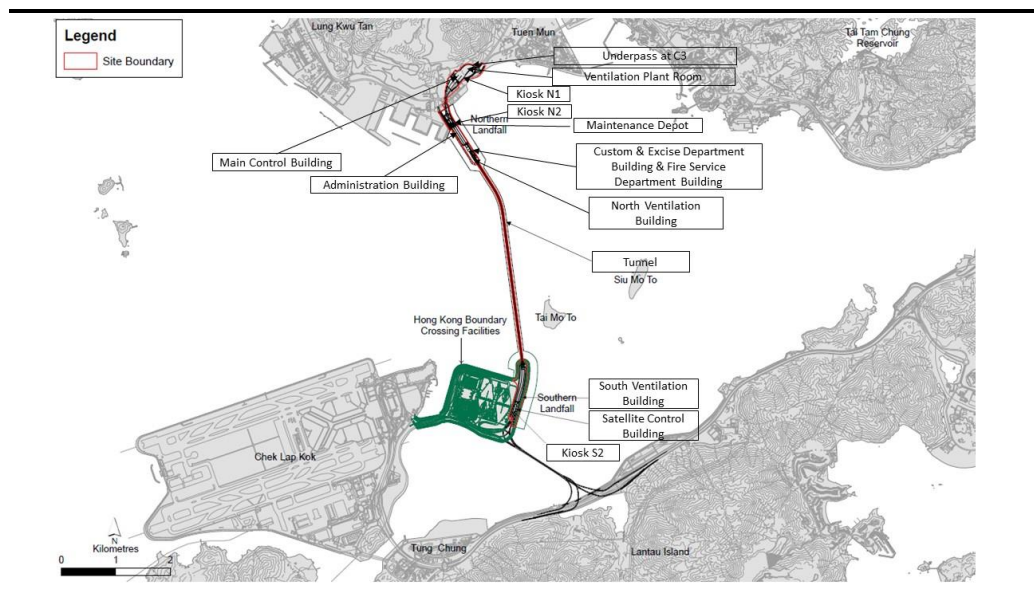


- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Handover Inspection at Fire Services Department Building;
- Handover Inspection at Customs and Excise Department Building;
- Handover Inspection at N1;
- Handover Inspection at Kiosk N2;
- T&C and FSI at the Tunnel;
- Handover Inspection at underpass at C3 area;
- Handover Inspection at Satellite Control Building;
- Handover Inspection at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Landscape Works at Northern Landfall and Southern Landfall.

The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Contract are shown in *Figure 1.4*.

The implementation schedule of environmental mitigation measures is presented in *Appendix C*.

**Figure 1.3** *Locations of Major Construction Activities in the Reporting Month*



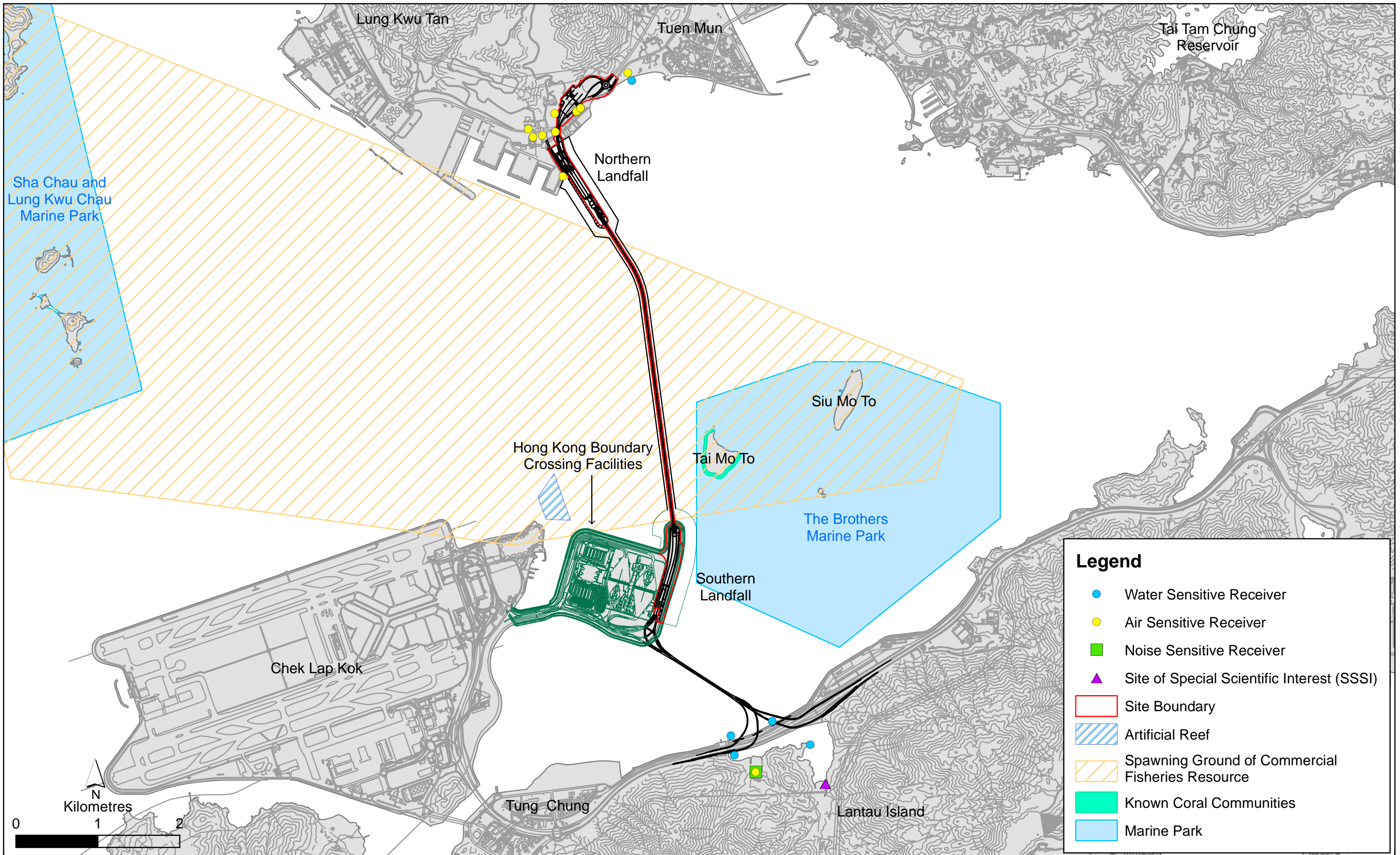


Figure 1.4

Environmental Sensitive Receivers in the Vicinity of the Project

The EM&A programme required environmental monitoring for air quality and environmental site inspections for air quality, water quality and waste management. The EM&A requirements and related findings for each component are summarized in the following sections

## 2.1 AIR QUALITY

### 2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual and the Enhanced TSP Monitoring Plan, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. 1-hr and 24-hr TSP monitoring frequency was increased to three times per day every three days and daily every three days, respectively, as excavation works for launching shaft under *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* commenced on 24 October 2014.

Informed by the Environmental Team of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section*, excavation works for launching shaft were completed and notification of change on air quality monitoring frequency was submitted to EPD on 14 September 2020. 1-hr and 24-hr TSP monitoring frequency was changed to three times per day every six days and daily every six days, respectively, since 14 September 2020.

Results of air quality monitoring were adopted from the published EM&A data of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* <sup>(1)</sup>.

The Action and Limit Levels of the air quality monitoring were adopted from the published EM&A reports of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* <sup>(2)</sup>. The Action and Limit Levels are provided in *Appendix D*.

The locations of the monitoring stations overlapped with *Contract No. HY/2012/08* are shown in *Figure 2.1* and presented in *Table 2.1*.

**Table 2.1** *Locations of Impact Air Quality Monitoring Stations and its Corresponding Monitoring Requirements*

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
--------------------	------------------	----------	-------------	------------------------

(1) Published EM&A data for impact air quality monitoring by *Contract No. HY/2012/08* are available at: <http://www.hzmbenpo.com/>

(2) Published EM&A reports of *Contract No. HY/2012/08* are available at: <http://www.hzmbenpo.com/>

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	2, 6, 12, 18, 24 and 30 November 2020	Tuen Mun Fireboat Station	Office	TSP monitoring <ul style="list-style-type: none"> <li>1-hour Total Suspended Particulates (1-hour TSP, <math>\mu\text{g}/\text{m}^3</math>), 3 times in every 6 days</li> </ul>
ASR5		Pillar Point Fire Station	Office	<ul style="list-style-type: none"> <li>24-hour Total Suspended Particulates (24-hour TSP, <math>\mu\text{g}/\text{m}^3</math>), daily for 24-hour in every 6 days</li> </ul>
AQMS1		Previous River Trade Golf	Bare ground	Enhanced TSP monitoring (commenced on 24 October 2014 under <i>Contract No. HY/2012/08</i> )
ASR6		Butterfly Beach Laundry	Office	<ul style="list-style-type: none"> <li>1-hour Total Suspended Particulates (1-hour TSP, <math>\mu\text{g}/\text{m}^3</math>), 3 times in every 3 days</li> </ul>
ASR10		Butterfly Beach Park	Recreational uses	<ul style="list-style-type: none"> <li>24-hour Total Suspended Particulates (24-hour TSP, <math>\mu\text{g}/\text{m}^3</math>), daily for 24-hour in every 3 days</li> </ul>

### 2.1.2 Results and Observations

Results of air quality monitoring were adopted from the published EM&A data of *Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section* <sup>(1)</sup>.

Three (3) Action Level and one (1) Limit Level exceedances for 1-hour TSP and two (2) Action Level exceedances for 24-hour TSP were recorded in the reporting period. The exceedances were considered not related to this Contract upon further investigation and the investigation reports are presented in *Appendix J*. No action is required to be undertaken in accordance with the Event Action Plan as presented in *Appendix E*.

## 2.2 LANDFILL GAS HAZARD MONITORING

In accordance with the Updated EM&A Manual of the TM-CLK Link Project, landfill gas hazard monitoring should be performed to ensure that the works area at Pillar Point Valley (PPV) Landfill is free of landfill gas. A total of 25 days of landfill gas hazard monitoring was conducted at Main Control Building during 1 to 30 November 2020 (*Appendix F*).

The landfill gas hazard monitoring was conducted in accordance to the Updated EM&A Manual with a Altair 5X Gas Detector. The calibration certificate for the equipment is presented in *Appendix G*.

The Action Level of the landfill gas hazard monitoring was adopted from the Updated EM&A Manual of the TM-CLK Link Project and are provided in *Appendix D*.

(1) Published EM&A data for impact air quality monitoring by *Contract No. HY/2012/08* are available at: <http://www.hzmbenpo.com/>



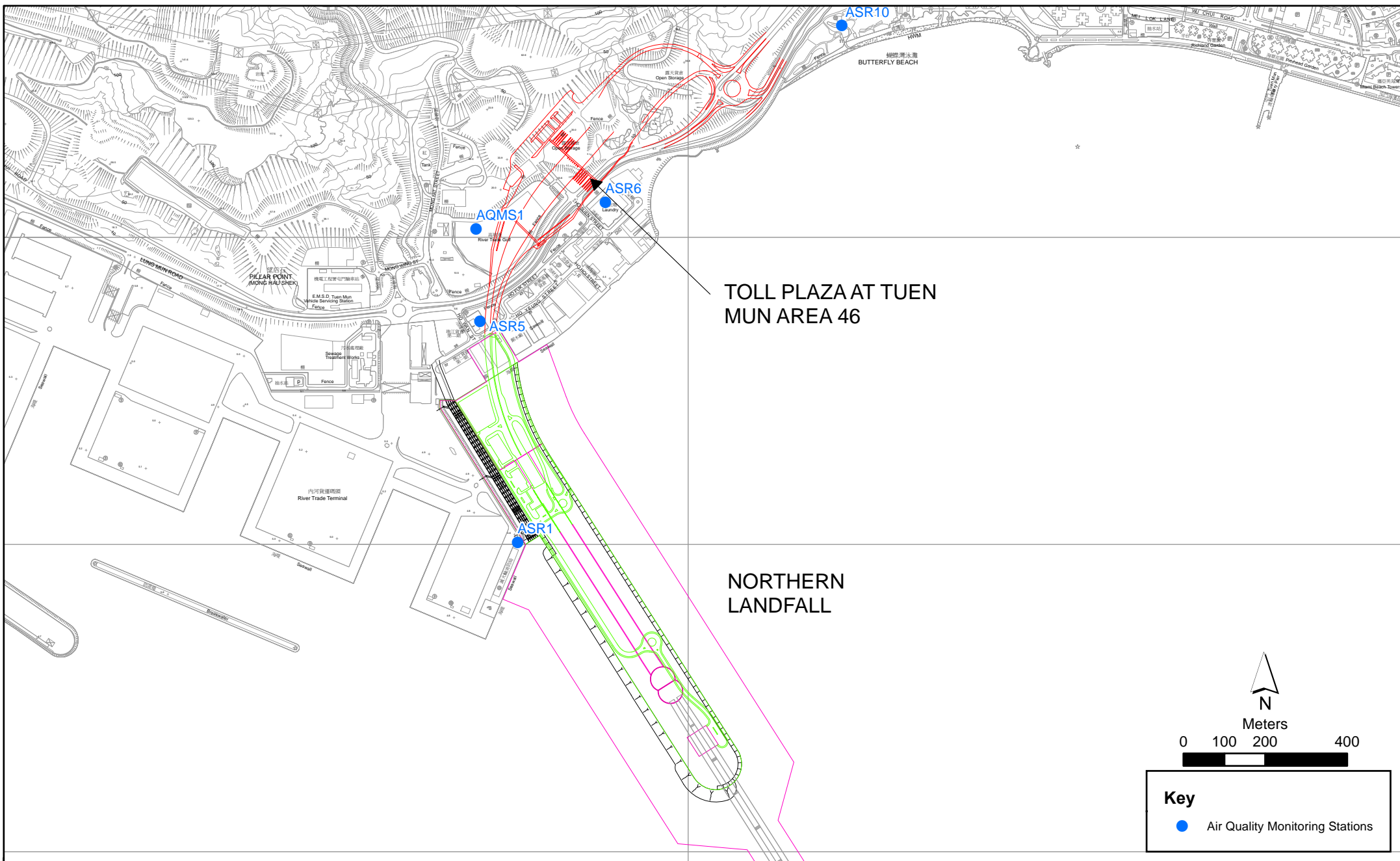


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring  
 (Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link -  
 Northern Connection Sub-sea Tunnel Section)

### 2.2.1 Results and Observations

Results for landfill gas hazard monitoring are summarized in *Table 2.2* and the monitoring data is provided in *Appendix H*.

Results of methane, oxygen and carbon dioxide in the reporting month complied with the Action Level. No action as stated in the Updated EM&A Manual of the TM-CLK Link Project and presented in *Appendix D* is required to be undertaken.

**Table 2.2 Summary of Landfill Gas Hazard Monitoring Results in the Reporting Period**

	Average (%)	Range (%)	Action Level (%) <sup>(a)</sup>
Methane	0	0	10/20
Oxygen	20.8	20.8-20.8	19/18
Carbon Dioxide	0.03	0.03-0.03	0.5/1.5

**Notes:**

(a) Depending on the results of the measurements, actions required will vary. Actions in the event of landfill gas being detected in excavation/confined area was adopted from the Updated EM&A Manual of the TM-CLK Link Project.

### 2.3 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, four (4) site inspections were carried out on 6, 13, 20 and 27 November 2020.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.3*.

**Table 2.3 Specific Observations and Recommendations during the Weekly Site Inspection in this Reporting Month**

Inspection Date	Observations	Recommendations/ Remarks
6 November 2020	South Ventilation Building <ul style="list-style-type: none"> <li>Accumulated residual was observed on site.</li> </ul>	South Ventilation Building <ul style="list-style-type: none"> <li>The Contractor was reminded to keep better housekeeping.</li> </ul>
13 November 2020	Customs and Excise Department Building <ul style="list-style-type: none"> <li>Nil.</li> </ul>	Customs and Excise Department Building <ul style="list-style-type: none"> <li>Nil.</li> </ul>
20 November 2020	C3 Bridge Container Village <ul style="list-style-type: none"> <li>Chemical containers without drip tray were observed on site.</li> </ul>	C3 Bridge Container Village <ul style="list-style-type: none"> <li>The Contractor was reminded to place chemical containers in trip tray.</li> </ul>
27 November 2020	Customs and Excise Department Building <ul style="list-style-type: none"> <li>Chemical was not placed in drip tray.</li> </ul>	Customs and Excise Department Building <ul style="list-style-type: none"> <li>The Contractor was reminded to place chemical in trip tray.</li> </ul>

The Contractor has rectified all of the observations as identified during environmental site inspections in the reporting month.

## 2.4 WASTE MANAGEMENT STATUS

The Contractor had submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

Wastes generated during this reporting period included mainly construction wastes (inert and non-inert). Reference has been made to the waste flow table prepared by the Contractor (*Appendix I*). The quantities of different types of wastes are summarized in *Table 2.4*.

**Table 2.4 Quantities of Different Waste Generated in the Reporting Month**

Month/Year	Inert C&D Materials <sup>(a)</sup> (m <sup>3</sup> )	Inert Construction Waste Re-used (m <sup>3</sup> )	Non-inert Construction Waste <sup>(b)</sup> (kg)	Imported Fill (m <sup>3</sup> )	Recyclable Materials <sup>(c)</sup> (kg)	Chemical Wastes (kg)
November 2020	114	0	150,600	0	14	0

**Notes:**

- (a) Inert construction wastes include hard rock and large broken concrete disposed as public fill.
- (b) Non-inert construction wastes include general refuse disposed at landfill.
- (c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

The Contractor was advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials and wastes. The Contractor was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store temporarily in designated chemical waste storage area on site in accordance with the *Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes*.

## 2.5 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.5* below.

**Table 2.5 Summary of Environmental Licensing and Permit Status**

<b>License/ Permit</b>	<b>License or Permit No.</b>	<b>Date of Issue</b>	<b>Date of Expiry</b>	<b>License/ Permit Holder</b>	<b>Remarks</b>
Environmental Permit	EP-354/2009/D	13 March 2015	N/A	HyD	Tuen Mun- Chek Lap Kok Link
APCO Construction Dust Notification	433493	14 May 2018	N/A	GCL	For Tuen Mun working area
Construction Waste Billing Account	7030836	15 May 2018	N/A	GCL	N/A
Chemical Waste Producer Registration	5213-422-G2827-01	13 June 2018	N/A	GCL	N/A
Discharge License under WPCO for Buildings at C2 area	WT00031783-2018	22 October 2018	31 October 2023	GCL	Sampling Frequency: Bimonthly
Discharge License under WPCO for Buildings at C3 area	WT00032062-2018	30 October 2018	31 October 2023	GCL	Sampling Frequency: Quarterly
Discharge License under WPCO for Southern Landfall	WT00034878-2019	1 April 2020	31 March 2025	GCL	Sampling Frequency: Quarterly
Construction Noise Permit	GW-RW0351-20	3 August 2020	29 January 2021	GCL	For Northern Landfall and Tunnel
Construction Noise Permit	GW-RS0413-20	19 June 2020	15 December 2020	GCL	For HKBCF Area
Construction Noise Permit	GW-RW0501-20	27 October 2020	24 December 2020	GCL	For Lung Mun Road Overnight Works

## 2.6 *IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES*

In response to the site audit findings, the Contractors carried out all corrective actions.

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in *Appendix C*. The necessary mitigation measures relevant to this Contract were implemented properly.

The landscape and visual (L&V) mitigation measures were also monitored on weekly basis in the reporting period. The monitoring status is summarized in *Appendix C*.

## 2.7 *SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT*

Three (3) Action Level and one (1) Limit Level exceedances for 1-hour TSP and two (2) Action Level exceedances for 24-hour TSP was recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period.

Results of landfill gas hazard monitoring in the reporting month complied with the Action Level.

Cumulative statistics are provided in *Appendix J*.

## 2.8 *SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS*

The Environmental Complaint Handling Procedure is provided in *Figure 2.2*.

There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

Statistics on complaints, notifications of summons, successful prosecutions are summarized in *Appendix J*.

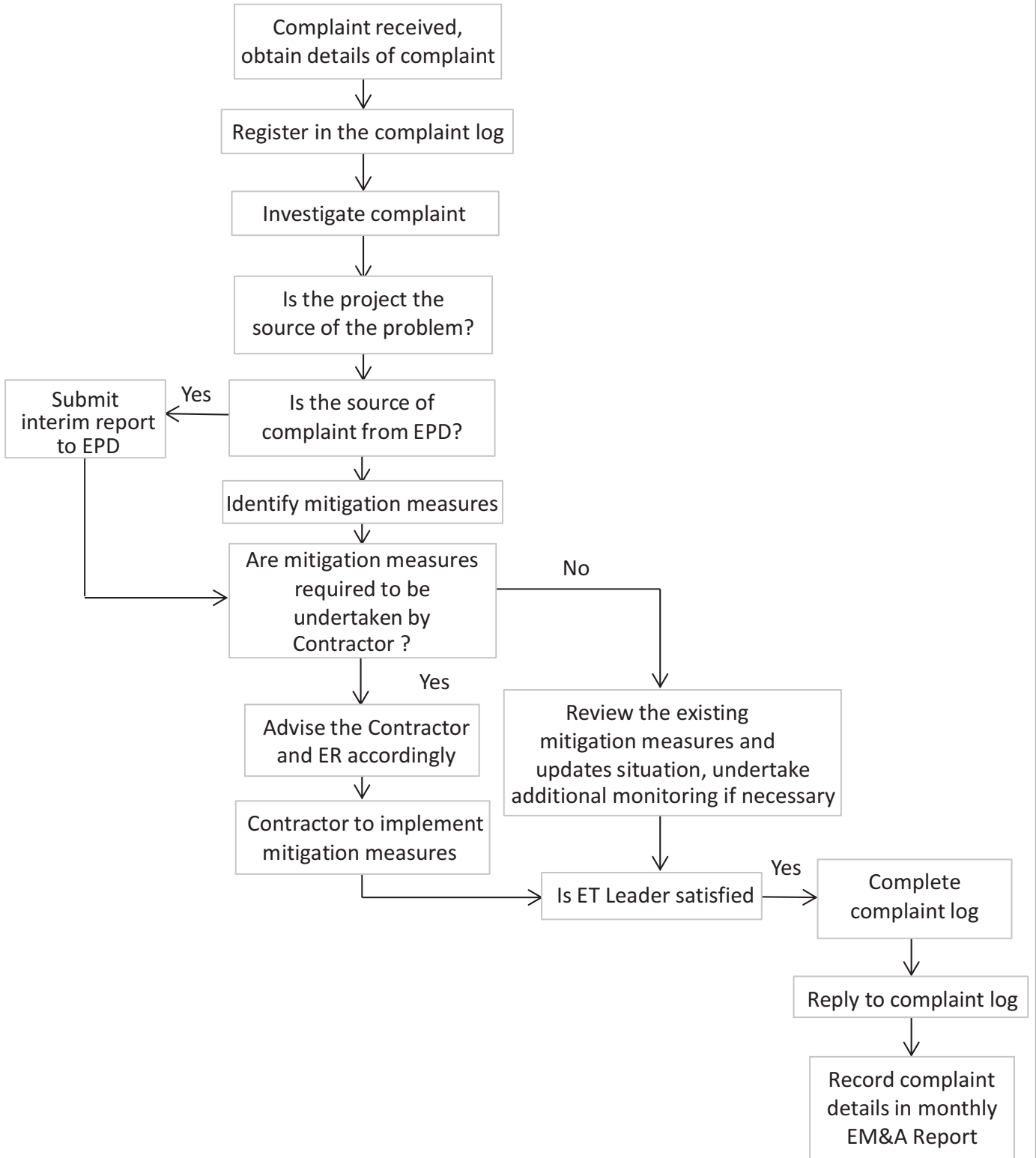


Figure 2.2

Environmental Complaint Handling Procedure

***3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH***

As informed by the Contractor, the major works for the Contract in December 2020 will be:

***Land-based Works***

- Handover Inspection at Main Control Building;
- Handover Inspection at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;
- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Handover Inspection at Fire Services Department Building;
- Handover Inspection at Customs and Excise Department Building;
- Handover Inspection at Kiosk N1;
- Handover Inspection at Kiosk N2;
- Handover Inspection at the Tunnel;
- Handover Inspection at C3 area;
- Handover Inspection at Satellite Control Building;
- Handover Inspection at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Handover Inspection at Northern Landfall and Southern Landfall.

***3.2 KEY ISSUES FOR THE COMING MONTH***

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of December 2020 are mainly associated with waste management and landfill gas monitoring issues.

**4.1 CONCLUSIONS**

This Thirtieth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 November 2020, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Air quality (including 1-hour TSP and 24-hour TSP) monitoring were carried out in this reporting month.

Three (3) Action Level and one (1) Limit Level exceedances for 1-hour TSP and two (2) Action Level exceedances for 24-hour TSP were recorded by the Environmental Team of Contract No. *HY/2012/08* during the reporting period.

Results of landfill gas hazard monitoring in the reporting month complied with the Action Level.

Environmental site inspection was carried out four (4) times in November 2020. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

Landscape and visual monitoring for 24-month establishment period conducted by Contract No. *HY/2012/07* and *HY/2013/12* was reported in the EM&A report for this Contract in this reporting period.

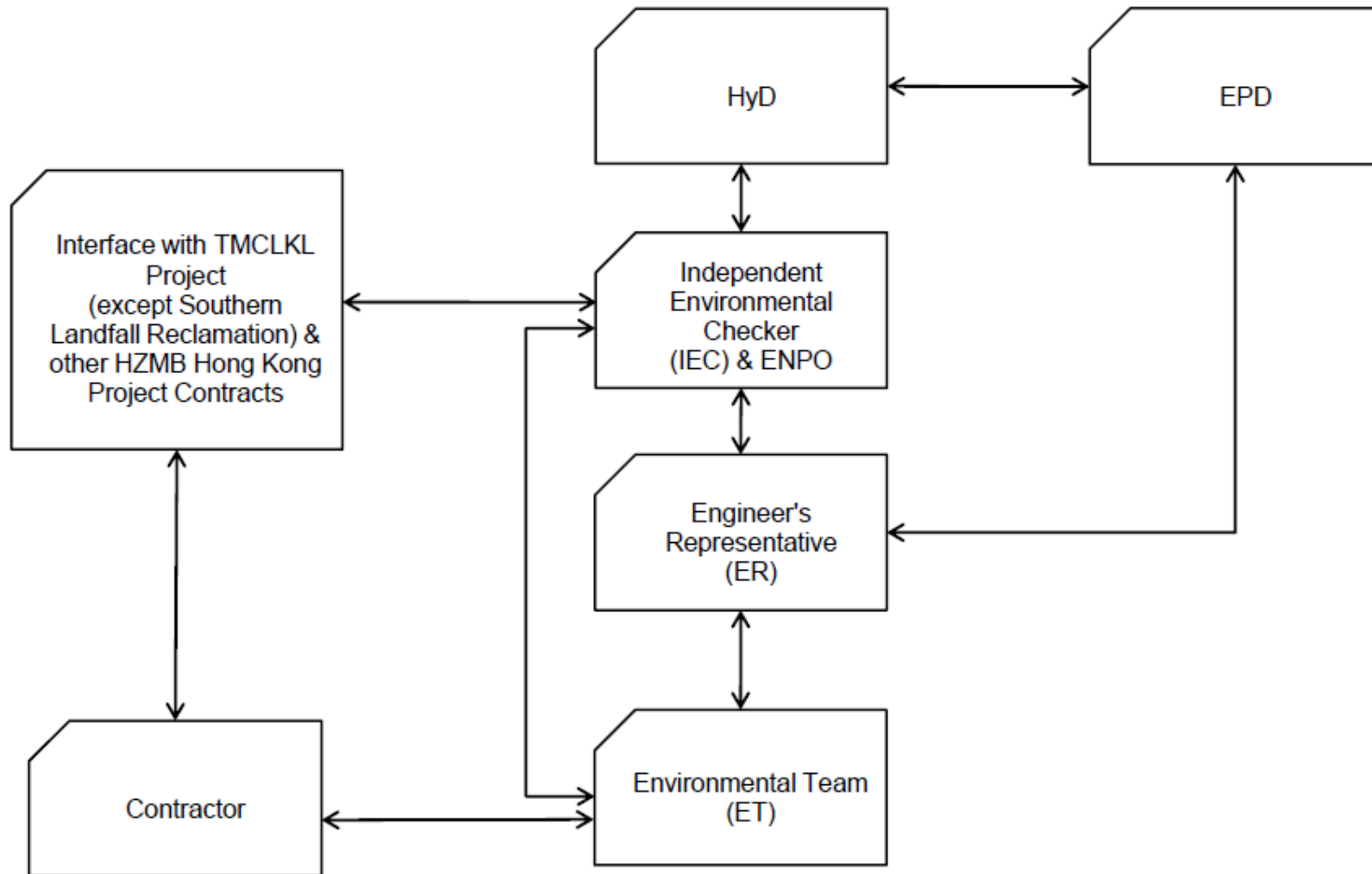
There was no environmental complaint, notification of summons or successful prosecution recorded in the reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.



Appendix A

## Project Organization for Environmental Works



↔ Line of Communication

Appendix B

## Construction Programme









Appendix C

# Environmental Mitigation and Enhancement Measure Implementation Schedules

(In reference to CINOTECH (2011) Agreement No.  
CE35/2011 EP Baseline Environmental Monitoring for  
Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chek Lap  
Kok Link - Investigation. Updated EM&A Manual for  
Tuen Mun-Chek Lap Kok Link)

*Contract No. HY/2017/10  
Tuen Mun – Chek Lap Kok Link  
Northern Connection Tunnel Buildings, Electrical and Mechanical Works  
Environmental Mitigation and Enhancement Measure Implementation Schedule*

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
<b>Air Quality</b>									
4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		✓
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.	All site exits / throughout construction period	Contractor	TMEIA Avoid dust		Y		✓

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

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**Tuen Mun – Chek Lap Kok Link**  
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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		√
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		N/A
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit.	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		N/A (Results adopted from published EM&A data of Contract No. HY/2012/08)
<b>WATER QUALITY (LAND WORKS)</b>									
6.10	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	Sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.10	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.10	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.10	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.10	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A

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Northern Connection Tunnel Buildings, Electrical and Mechanical Works  
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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
6.10	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
6.10	-	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>
6.10	-	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.10	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	N/A
6.10	Section 11	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		✓
<b>WASTE</b>									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		✓
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.	Contract Mobilisation	Contractor	TMEIA		Y		✓
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	All areas / throughout construction period	Contractor	TMEIA		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		<>
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	All areas / throughout construction period	Contractor	TMEIA		Y		✓

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						D	C	O	
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	All areas / throughout construction period	Contractor	TMELA		Y		✓
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMELA		Y		✓
12.6	8.1	Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows:  <i>f</i> suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; <i>f</i> Having a capacity of <450L unless the specifications have been approved by the EPD; and w Chinese according to the instructions prescribed in Schedule 2 of the Regulations. <i>f</i> Clearly labelled and used solely for the storage of chemical wastes; <i>f</i> Enclosed with at least 3 sides; <i>f</i> Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; <i>f</i> Adequate ventilation;	All areas / throughout construction period	Contractor	TMELA		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
		<i>f</i> Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and <i>f</i> Incompatible materials are adequately separated.							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		↔
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	Site Offices/ throughout construction period	Contractor	TMEIA		Y		✓
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Y		✓

**LANDSCAPE AND VISUAL**

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

**Contract No. HY/2017/10**  
**Tuen Mun – Chek Lap Kok Link**  
**Northern Connection Tunnel Buildings, Electrical and Mechanical Works**  
**Environmental Mitigation and Enhancement Measure Implementation Schedule**

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
10.9	7.6	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas (Tree protection measures will be detailed at Tree Removal Application Stage) (CM1)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A
10.9	7.6	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A
10.9	7.6	Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A
10.9	7.6	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMELIA	Y	Y		✓
10.9	7.6	Recycle/ Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMELIA	Y	Y		N/A

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

*Contract No. HY/2017/10  
Tuen Mun – Chek Lap Kok Link  
Northern Connection Tunnel Buildings, Electrical and Mechanical Works  
Environmental Mitigation and Enhancement Measure Implementation Schedule*

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMELIA	Y	Y		n/a. To be maintained by HyD
10.9	7.6	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMELIA	Y	Y	Y	n/a. To be maintained by HyD/LCSD
10.9	7.6	Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimise unnecessary light spill (OM3)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMELIA	Y	Y	Y	n/a. To be maintained by HyD
10.9	7.6	Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement (OM4)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMELIA	Y	Y	Y	n/a. To be maintained by HyD/ ArchSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMELIA	Y	Y	Y	n/a. To be maintained by HyD/ ArchSD
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMELIA	Y	Y	Y	n/a. To be maintained by HyD/ ArchSD

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

Contract No. HY/2017/10  
 Tuen Mun – Chek Lap Kok Link  
 Northern Connection Tunnel Buildings, Electrical and Mechanical Works  
 Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	

\* Remarks:

- ✓ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable in Reporting Period

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government



Appendix D

## Summary of Action and Limit Levels

**Table D1** *Action and Limit Levels for 1-hour and 24-hour TSP*

<b>Parameters</b>	<b>Action</b>	<b>Limit</b>
24 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214	260
1 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337	500

**Table D2** *Actions in the Event of Landfill Gas being Detected in Excavation/ Confined Area*

<b>Parameter</b>	<b>Measurement</b>	<b>Action</b>
Oxygen	< 19%	- Ventilate to restore oxygen to > 19%
	< 18%	- Stop work - Evacuate personnel / prohibit entry - Increase ventilation to restore to > 19%
Methane	> 10% LEL (> 0.5% v/v)	- Prohibit hot work - Ventilate to restore methane to < 10% LEL
	> 20% LEL (>1% v/v)	- Stop work - Evacuate personnel / prohibit entry - Increase ventilation to restore to < 10%
Carbon Dioxide	> 0.5%	- Ventilate to restore oxygen to < 0.5%
	> 1.5%	- Stop work - Evacuate personnel / prohibit entry - Increase ventilation to restore to < 0.5%

Appendix E

## Event Action Plan

*Appendix E1 Event/ Action Plan for Air Quality*

EVENT	ET <sup>(1)</sup>	ACTION		
		IEC <sup>(1)</sup>	ER <sup>(1)</sup>	Contractor
<b>Action Level</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Inform the IEC and the ER.</li> <li>3. Repeat measurement to confirm finding.</li> <li>4. Increase monitoring frequency to daily.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET.</li> <li>2. Check Contractor's working method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice</li> <li>2. Amend working methods if appropriate</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Inform the IEC and the ER.</li> <li>3. Repeat measurements to confirm findings.</li> <li>4. Increase monitoring frequency to daily.</li> <li>5. Discuss with the IEC and the Contractor on remedial actions required.</li> <li>6. If exceedance continues, arrange meeting with the IEC and the ER.</li> <li>7. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET.</li> <li>2. Check the Contractor's working method.</li> <li>3. Discuss with the ET and the Contractor on possible remedial measures.</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures.</li> <li>5. Supervise implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>2. Implement the agreed proposals</li> <li>3. Amend proposal if appropriate</li> </ol>

EVENT	ACTION			
	ET <sup>(1)</sup>	IEC <sup>(1)</sup>	ER <sup>(1)</sup>	Contractor
<b>Limit Level</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Inform the ER and the DEP.</li> <li>3. Repeat measurement to confirm finding.</li> <li>4. Increase monitoring frequency to daily.</li> <li>5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET.</li> <li>2. Check Contractor's working method.</li> <li>3. Discuss with the ET and the Contractor on possible remedial measures.</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures.</li> <li>5. Supervise implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>3. Implement the agreed proposals</li> <li>4. Amend proposal if appropriate</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Notify the IEC, the ER, the DEP and the Contractor.</li> <li>2. Identify the source.</li> <li>3. Repeat measurements to confirm findings.</li> <li>4. Increase monitoring frequency to daily.</li> <li>5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>6. Arrange meeting with the IEC and the ER to discuss the remedial actions to be taken.</li> <li>7. Assess effectiveness of the Contractor's remedial actions</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst the ER, ET and the Contractor on the potential remedial actions.</li> <li>2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented.</li> <li>4. Ensure remedial measures are properly implemented.</li> <li>5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance.</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>3. Implement the agreed proposals.</li> <li>4. Resubmit proposals if problem still not under control.</li> <li>5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.</li> </ol>

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and keep the IEC, the DEP and  
the ER informed of the results.

8. If the exceedance stops, cease  
additional monitoring.

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Abbreviations: ET - Environmental Team, IEC - Independent Environmental Checker, ER - Engineer's Representative, DEP - Director of Environmental Protection



Appendix F

## EM&A Monitoring Schedule

**HY/2017/10 Tuen Mun - Chek Lap Kok Link - Northern Tunnel Connection Buildings, E&M Works  
Landfill Gas Monitoring Schedule (1 to 30 November 2020)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Nov	02-Nov	03-Nov	04-Nov	05-Nov	06-Nov	07-Nov
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
08-Nov	09-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
29-Nov	30-Nov					
	LFG Monitoring (a.m. & p.m.)					

**HY/2017/10 Tuen Mun - Chek Lap Kok Link - Northern Tunnel Connection Buildings, E&M Works  
Landfill Gas Monitoring Schedule (1 to 31 December 2020)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Dec	02-Dec	03-Dec	04-Dec	05-Dec
		LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
06-Dec	07-Dec	08-Dec	09-Dec	10-Dec	11-Dec	12-Dec
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)
20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)		
27-Dec	28-Dec	29-Dec	30-Dec	31-Dec		
	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)	LFG Monitoring (a.m. & p.m.)		

The schedule is subject to excavation work at Main Control Building. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

Appendix G

## Calibration Certificate of Monitoring Equipment



**MSA Hong Kong Ltd.**

25/F Jupiter Tower, 9 Jupiter Street, Hong Kong

Tel 852-22587588 Fax 25478780 Email info.hk@msasafety.com Website www.msasafety.com

Ref. 2019/12/009  
Customer Gammon Constructions Limited

Date: 11-Dec-19

**CERTIFICATE FOR CALIBRATION CHECK TEST**

Model	Serial No.	Calibration Check Gas	Regulator	Full Scale	Response
Altair 5XIR	145986	1.45% Methane,	.25litre/min	100% LEL	29%LEL
		15% Oxygen		30% Vol	15% O2
		2.5% Carbon Dioxide		9.99%	2.5% CO2

Remarks: Regular inspection completed. Calibration passed

MSA Hong Kong Ltd. certify that instrument/s listed above has/have been calibrated check tested on:  
11-Dec-19

This instrument was calibrated in accordance with all requirements of the specifications of MSA.

This instrument must be calibration checked prior to use in accordance with the instruction manual.

This instrument was calibrated using NIST traceable equipment and was in accordance with all requirements of the drawings and specifications of MSA.

For and on behalf of  
MSA Hong Kong Ltd.



\_\_\_\_\_  
Authorised Signature



**MSA Hong Kong Ltd.**

25/F Jupiter Tower, 9 Jupiter Street, Hong Kong

Tel 852-22587588 Fax 25478780 Email info.hk@msasafety.com Website www.msasafety.com

Ref. 2020/11/056

Date: 26-Nov-20

Customer Gammon Constructions Limited

**CERTIFICATE FOR CALIBRATION CHECK TEST**

Model	Serial No.	Calibration Check Gas	Regulator	Full Scale	Response
Altair 5XIR	145986	1.45% Methane,	.25litre/min	100% LEL	29%LEL
		15% Oxygen		30% Vol	15% O2
		2.5% Carbon Dioxide		9.99%	2.5% CO2

Remarks: Regular inspection completed. Calibration passed

MSA Hong Kong Ltd. certify that instrument/s listed above has/have been calibrated check tested on:  
26-Nov-20

This instrument was calibrated in accordance with all requirements of the specifications of MSA.

This instrument must be calibration checked prior to use in accordance with the instruction manual.

This instrument was calibrated using NIST traceable equipment and was in accordance with all requirements of the drawings and specifications of MSA.

For and on behalf of  
MSA Hong Kong Ltd.



\_\_\_\_\_  
Authorised Signature



Appendix H

Landfill Gas Monitoring  
Results and Graphical  
Presentation

**Landfill Gas Monitoring Results on Methane Level**

Project	Works	Date(yyyy-mm-dd)	Monitoring Location	Time (hh:mm, 24hour)	Results (%)	Action Level (%)	Limit Level (%)
TMCLKL	HY/2017/10	2020-11-02	Main Control Building	8:15	0	10.0	20.0
TMCLKL	HY/2017/10	2020-11-02	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-03	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-03	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-04	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-04	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-05	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-05	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-06	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-06	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-07	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-07	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-09	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-09	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-10	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-10	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-11	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-11	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-12	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-12	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-13	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-13	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-14	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-14	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-16	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-16	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-17	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-17	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-18	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-18	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-19	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-19	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-20	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-20	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-21	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-21	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-23	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-23	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-24	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-24	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-25	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-25	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-26	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-26	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-27	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-27	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-28	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-28	Main Control Building	13:15	0		
TMCLKL	HY/2017/10	2020-11-30	Main Control Building	8:15	0		
TMCLKL	HY/2017/10	2020-11-30	Main Control Building	13:15	0		
				Average	0		
				Min.	0		
				Max.	0		

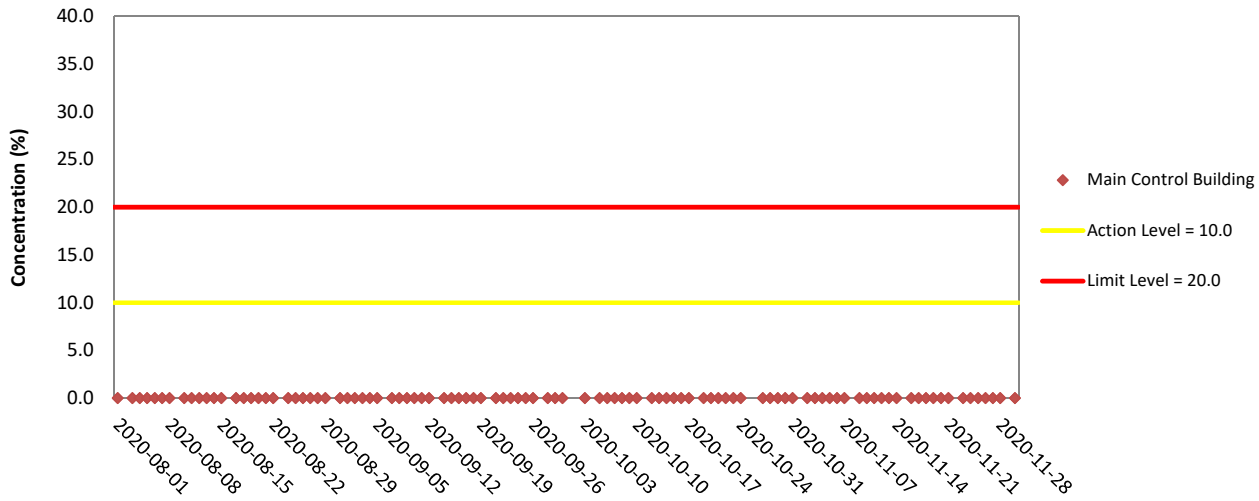
**Landfill Gas Monitoring Results on Oxygen Level**

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Results (%)	Action Level (%)	Limit Level (%)
TMCLKL	HY/2017/10	2020-11-02	Main Control Building	8:15	20.8	19.0	18.0
TMCLKL	HY/2017/10	2020-11-02	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-03	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-03	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-04	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-04	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-05	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-05	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-06	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-06	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-07	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-07	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-09	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-09	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-10	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-10	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-11	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-11	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-12	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-12	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-13	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-13	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-14	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-14	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-16	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-16	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-17	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-17	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-18	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-18	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-19	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-19	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-20	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-20	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-21	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-21	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-23	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-23	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-24	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-24	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-25	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-25	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-26	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-26	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-27	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-27	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-28	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-28	Main Control Building	13:15	20.8		
TMCLKL	HY/2017/10	2020-11-30	Main Control Building	8:15	20.8		
TMCLKL	HY/2017/10	2020-11-30	Main Control Building	13:15	20.8		
				Average	20.8		
				Min.	20.8		
				Max.	20.8		

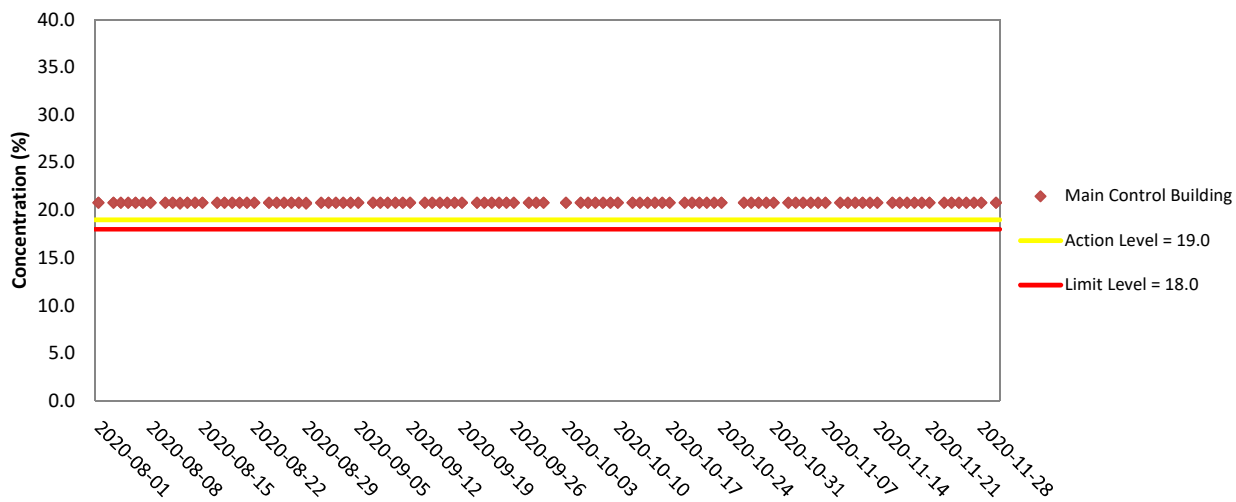
**Landfill Gas Monitoring Results on Carbon Dioxide Level**

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Results (%)	Action Level (%)	Limit Level (%)
TMCLKL	HY/2017/10	2020-11-02	Main Control Building	8:15	0.03	0.5	1.5
TMCLKL	HY/2017/10	2020-11-02	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-03	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-03	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-04	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-04	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-05	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-05	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-06	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-06	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-07	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-07	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-09	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-09	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-10	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-10	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-11	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-11	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-12	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-12	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-13	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-13	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-14	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-14	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-16	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-16	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-17	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-17	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-18	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-18	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-19	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-19	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-20	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-20	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-21	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-21	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-23	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-23	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-24	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-24	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-25	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-25	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-26	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-26	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-27	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-27	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-28	Main Control Building	8:15	0.03		
TMCLKL	HY/2017/10	2020-11-28	Main Control Building	13:15	0.03		
TMCLKL	HY/2017/10	2020-11-30	Main Control Building	18:15	0.03		
TMCLKL	HY/2017/10	2020-11-30	Main Control Building	23:15	0.03		
				Average	0.03		
				Min.	0.03		
				Max.	0.03		

### Landfill Gas Monitoring Results on Methane Level



### Landfill Gas Monitoring Results on Oxygen Level

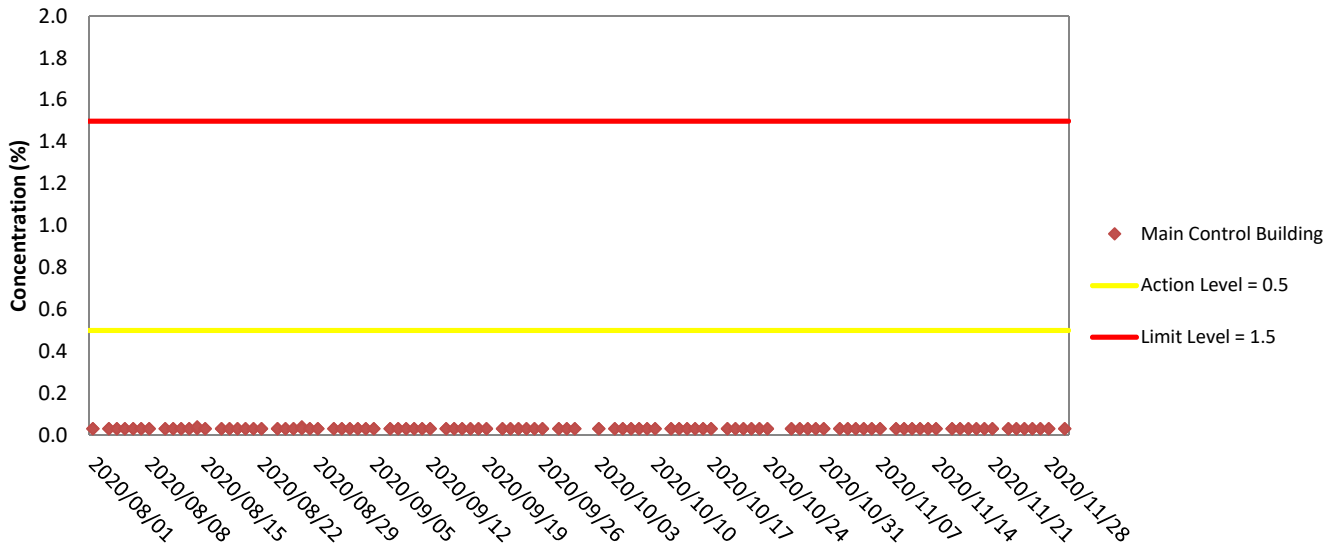


Weather condition within the reporting period was sunny to rainy

Major construction works undertaken within the reporting period include

- Handover Inspection at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;
- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Handover Inspection at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Soil Mix and Landscape Works at Northern Landfall and Southern Landfall.

### Landfill Gas Monitoring Results on Carbon Dioxide Level



Weather condition within the reporting period was sunny to rainy

Major construction works undertaken within the reporting period include

- Handover Inspection at Main Control Building;
- Electrical and Mechanical Works at Ventilation Plant Room;
- Handover Inspection at North Ventilation Building;
- Handover Inspection at Administration Building;
- Handover Inspection at Maintenance Depot;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Fire Services Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Customs and Excise Department Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at N1;
- Electrical and Mechanical Works at Kiosk N2;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at the Tunnel;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at underpass at C3 area;
- Handover Inspection at Satellite Control Building;
- Electrical and Mechanical Works and Architectural Builder's Work and Finishes at Kiosk S2;
- Handover Inspection at South Ventilation Building; and
- Soil Mix and Landscape Works at Northern Landfall and Southern Landfall.



Appendix I

## Monthly Summary of Waste Flow Table

Contract No. : HY/2017/10

Tuen Mun Chek Lap Kok Link – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Monthly Summary Waste Flow Table for 2020 (Year)

Month\Material	Actual Quantities of Inert C&D Materials Generation						Actual Quantities of C&D wastes Generation		Actual Quantities of Recyclables Generation			
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	0.025	0.000	-	-	0.025	-	-	187.500	-	-	0.070	-
Feb	0.074	0.026	-	-	0.074	-	-	176.100	-	-	0.084	-
Mar	0.650	0.117	-	-	0.366	0.284	-	237.850	-	-	0.042	-
Apr	0.139	0.000	-	-	0.139	-	-	167.820	-	-	-	-
May	6.429	0.000	-	1.975	0.023	4.431	-	252.730	-	-	0.056	-
Jun	17.715	0.053	-	0.421	0.034	17.260	-	255.300	-	-	-	-
<b>SUB-TOTAL</b>	<b>25.032</b>	<b>0.196</b>	<b>0.000</b>	<b>2.396</b>	<b>0.661</b>	<b>21.975</b>	<b>0.000</b>	<b>1277.300</b>	<b>0.000</b>	<b>0.000</b>	<b>0.252</b>	<b>0.000</b>
Jul	41.044	0.008	-	6.284	0.035	34.725	-	134.530	-	-	0.056	-
Aug	10.705	0.007	-	-	0.163	10.541	-	132.420	-	-	0.035	-
Sep	0.033	0.005	-	-	0.033	-	-	89.120	-	-	0.028	-
Oct	0.210	0.011	-	-	0.210	-	-	184.460	-	-	0.028	-
Nov	0.114	-	-	-	0.114	-	-	150.600	-	-	0.014	-
Dec	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>77.137</b>	<b>0.227</b>	<b>0.000</b>	<b>8.680</b>	<b>1.216</b>	<b>67.241</b>	<b>0.000</b>	<b>1,968.430</b>	<b>0.000</b>	<b>0.000</b>	<b>0.413</b>	<b>0.000</b>

Notes :

- 1 - The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2 - Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- 3 - Broken concrete for recycling into aggregates.
- 4 - Assumed 5 kg per damaged water-filled barrier.
- 5 - Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

Appendix J

Cumulative Statistics on  
Exceedances, Complaints,  
Notifications of Summons  
and Successful Prosecutions

*Appendix J1 Cumulative Statistics on Exceedances*

		Total No. recorded in this reporting month	Total No. recorded since contract commencement
1-Hr TSP	Action	3	53
	Limit	1	11
24-Hr TSP	Action	2	4
	Limit	0	0
Landfill gas hazard monitoring			
	• Methane	0	0
	• Oxygen	0	0
	• Carbon Dioxide	0	0

*Appendix J2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (November 2020)	0	0	0
Total No. received since contract commencement	1	0	0

Email  
message

Environmental  
Resources  
Management

**To** Ramboll Hong Kong Limited (ENPO)

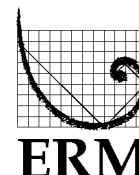
**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2017/10  
Tuen Mun – Chek Lap Kok Link – Northern  
Connection Tunnel Buildings, Electrical and  
Mechanical Works

**Subject** Notification of Exceedance for Air Quality  
Impact Monitoring

**Date** 27 November 2020

2507,  
25/F One Harbourfront,  
18 Tak Fung Street,  
Hung Hom, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jasmine.ng@erm.com



---

Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

**Action Level Exceedance**  
**0463091\_2November2020\_24hrTSP\_Station ASR1**

One (1) exceedance was recorded on 2 November 2020.

Regards,

Dr Jasmine Ng  
*Environmental Team Leader*

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2017/10  
 TUEN MUN – CHEK LAP KOK LINK –  
 NORTHERN CONNECTION TUNNEL BUILDINGS,  
 ELECTRICAL AND MECHANICAL WORKS

*Air Quality Impact Monitoring*

**Notification of Exceedance**

<b>Log No.</b>	<u>Action Level Exceedance</u> 0463091_2November2020_24hrTSP_Station ASR1  [Total No. of Exceedances = 1]	
<b>Date</b>	2 November 2020 (Measured) 27 November 2020 (Results obtained from ENPO Website)	
<b>Monitoring Station</b>	ASR1	
<b>Parameter(s) with Exceedance(s)</b>	24 - hr TSP	
<b>Action Levels</b>	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213
<b>Limit Levels</b>	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	500
	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	260
<b>Measured Levels</b>	Refer to <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
<b>Works Undertaken (at the time of monitoring event)</b>	Works undertaken under this Contract on 2 November 2020 included <ul style="list-style-type: none"> <li>Indoor defect works at Customs and Excise Department Building, including wall painting, vinyl sheet floor laying, wall plastering and floor sealer painting.</li> </ul>	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	<p>The exceedance is unlikely to be due to the Contract, in view of the following:</p> <ul style="list-style-type: none"> <li>With reference to the recorded wind direction (vary between 2° and 358° and) and wind speed (ranged between 1.3 and 4.0 m/s), the wind was mainly from north-easterly and north-westerly direction. Haze was observed during the sampling time.</li> <li>Only minor indoor defect works were conducted which are considered not major dust generating works, thus result of 24-hour TSP at ASR1 was unlikely impacted by the works under this project.</li> <li>The construction area under this Contract were paved/covered with vegetation. Dust are not anticipated.</li> </ul> <p>Based on the above, the exceedance is unlikely to be due to the Contract.</p>	
<b>Actions Taken / To Be Taken</b>	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
<b>Remarks</b>	The monitoring results on 2 November 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i> ).	

Appendix A

Results of Air Quality  
Monitoring, Meteorological  
Data and Locations of Air  
Quality Monitoring Stations

Air quality monitoring results on 2/11/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-11-02	ASR10	Hazy	8:02:00	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR10	Hazy	9:04:00	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR10	Hazy	10:06:00	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR6	Hazy	8:13:00	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR6	Hazy	9:15:00	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR6	Hazy	10:17:00	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR5	Hazy	8:24:00	1-hour TSP	283	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR5	Hazy	9:26:00	1-hour TSP	262	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR5	Hazy	10:28:00	1-hour TSP	214	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR1	Hazy	8:37:00	1-hour TSP	249	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR1	Hazy	9:39:00	1-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR1	Hazy	10:41:00	1-hour TSP	222	ug/m3
TMCLKL	HY/2012/08	2020-11-02	AQMS1	Hazy	8:48:00	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2020-11-02	AQMS1	Hazy	9:50:00	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2020-11-02	AQMS1	Hazy	10:52:00	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2020-11-02	AQMS1	Hazy	11:54:00	24-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR1	Hazy	11:43:00	24-hour TSP	244	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR10	Hazy	11:08:00	24-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR5	Hazy	11:30:00	24-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2020-11-02	ASR6	Hazy	11:19:00	24-hour TSP	121	ug/m3

Action level exceedance

Limit level exceedance



**Meteorological Data for Impact Monitoring in the reporting period**

<b>Date (yy-mm-dd)</b>	<b>Time (24hrs)</b>	<b>Average of Wind Speed (m/s)</b>	<b>Average of Wind Direction(degree)</b>
20/11/02	0:00	0.4	19
20/11/02	1:00	0.4	336
20/11/02	2:00	0.4	11
20/11/02	3:00	0.9	349
20/11/02	4:00	0.4	322
20/11/02	5:00	0.4	66
20/11/02	6:00	0.4	34
20/11/02	7:00	0.9	57
20/11/02	8:00	1.8	11
20/11/02	9:00	2.2	25
20/11/02	10:00	2.2	17
20/11/02	11:00	2.2	34
20/11/02	12:00	2.2	30
20/11/02	13:00	2.2	11
20/11/02	14:00	1.8	11
20/11/02	15:00	2.7	324
20/11/02	16:00	2.7	310
20/11/02	17:00	2.2	327
20/11/02	18:00	2.2	343
20/11/02	19:00	2.7	342
20/11/02	20:00	4.5	344
20/11/02	21:00	4.5	328
20/11/02	22:00	4	333
20/11/02	23:00	2.7	337
20/11/03	0:00	1.8	19
20/11/03	1:00	1.3	2
20/11/03	2:00	2.2	332
20/11/03	3:00	2.2	346
20/11/03	4:00	1.8	346
20/11/03	5:00	1.8	339
20/11/03	6:00	2.7	326
20/11/03	7:00	2.2	358
20/11/03	8:00	2.2	27
20/11/03	9:00	2.7	24
20/11/03	10:00	2.7	34
20/11/03	11:00	2.2	22
20/11/03	12:00	1.8	357
20/11/03	13:00	1.8	16
20/11/03	14:00	1.8	1
20/11/03	15:00	1.3	22
20/11/03	16:00	0.9	332
20/11/03	17:00	0.4	89
20/11/03	18:00	1.8	2
20/11/03	19:00	1.3	34
20/11/03	20:00	1.3	33
20/11/03	21:00	1.3	76
20/11/03	22:00	0.9	20
20/11/03	23:00	1.3	12

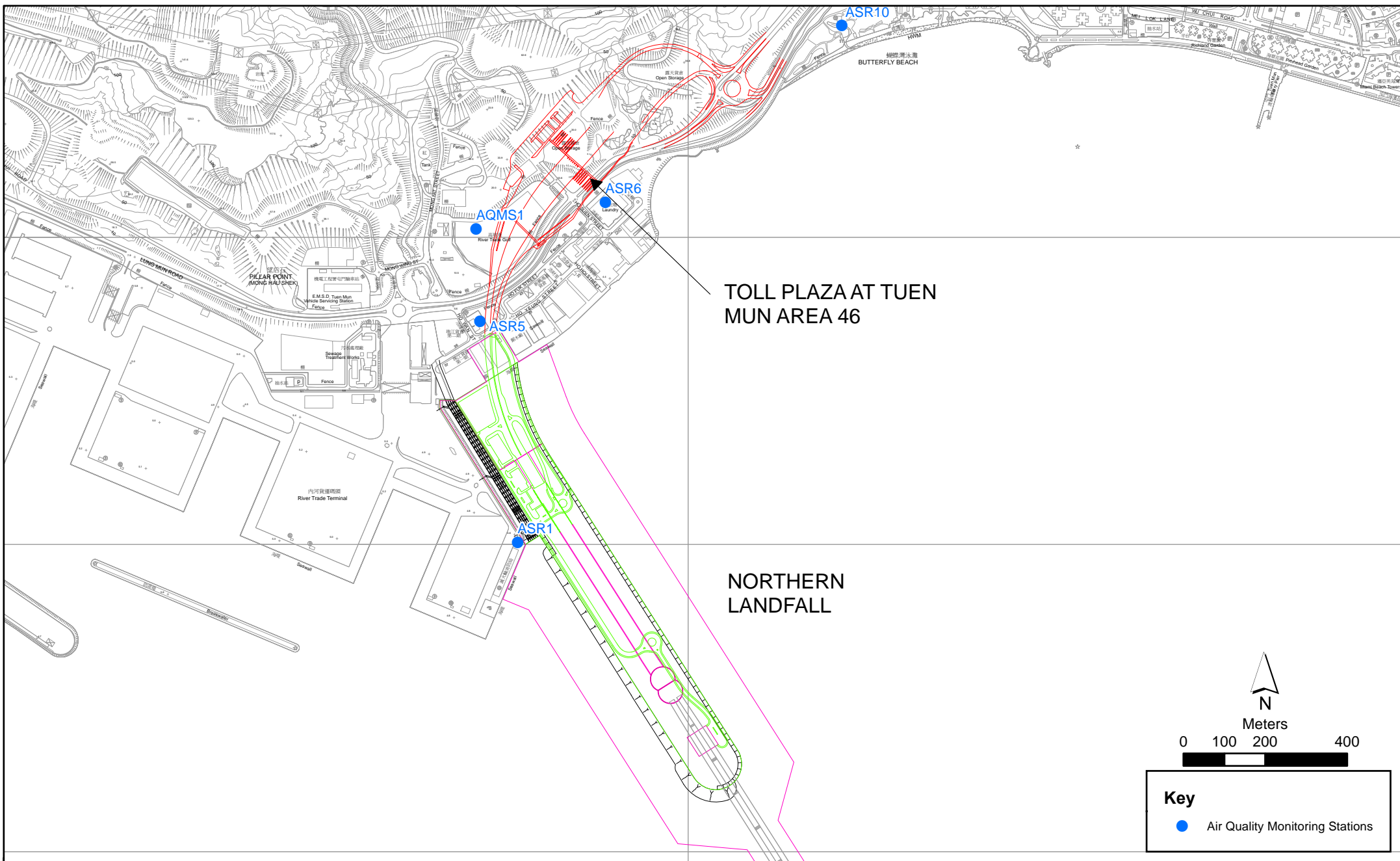


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring  
 (Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link -  
 Northern Connection Sub-sea Tunnel Section)

Email  
message

**Environmental  
Resources  
Management**

**To** Ramboll Hong Kong Limited (ENPO)

**From** ERM- Hong Kong, Limited

**Ref/Project number** Contract No. HY/2017/10  
Tuen Mun – Chek Lap Kok Link – Northern  
Connection Tunnel Buildings, Electrical and  
Mechanical Works

**Subject** Notification of Exceedance for Air Quality  
Impact Monitoring

**Date** 27 November 2020

2507,  
25/F One Harbourfront,  
18 Tak Fung Street,  
Hung Hom, Hong Kong  
Telephone: (852) 2271 3113  
Facsimile: (852) 2723 5660  
E-mail: jasmine.ng@erm.com



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Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following  
Log no.:

Action Level Exceedance  
0463091\_6November 2020\_24hrTSP\_Station ASR1

Limit Level Exceedance  
0463091\_6November2020\_1hrTSP\_Station ASR1

Two (2) exceedances were recorded on 6 November 2020.

Regards,

Dr Jasmine Ng  
*Environmental Team Leader*

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2017/10  
 TUEN MUN – CHEK LAP KOK LINK –  
 NORTHERN CONNECTION TUNNEL BUILDINGS,  
 ELECTRICAL AND MECHANICAL WORKS

*Air Quality Impact Monitoring*

**Notification of Exceedance**

Log No.	<p style="text-align: center;"><u>Action Level Exceedance</u>          0463091_6November 2020_24hrTSP_Station ASR1</p> <p style="text-align: center;"><u>Limit Level Exceedance</u>          0463091_6November2020_1hrTSP_Station ASR1</p> <p style="text-align: center;">[Total No. of Exceedances = 2]</p>	
Date	<p style="text-align: center;">6 November 2020 (Measured)          27 November 2020 (Results obtained from ENPO Website)</p>	
Monitoring Station	<p style="text-align: center;">ASR1</p>	
Parameter(s) with Exceedance(s)	<p style="text-align: center;">1 - hr TSP and 24 - hr TSP</p>	
Action Levels	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213
Limit Levels	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	500
	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	260
Measured Levels	Refer to <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
Works Undertaken (at the time of monitoring event)	Works undertaken under this Contract on 6 November 2020 included <ul style="list-style-type: none"> <li>• Indoor defect works at Customs and Excise Department Building, including wall painting, vinyl sheet floor laying, wall plastering and floor sealer painting.</li> </ul>	
Possible Reason for Action or Limit Level Exceedance(s)	The exceedances are unlikely to be due to the Contract, in view of the following: <ul style="list-style-type: none"> <li>• With reference to the recorded wind direction (vary between 13° and 325° and) and wind speed (ranged between 0.4 and 2.7 m/s), the wind was mainly from north-westerly direction and occasionally north-easterly direction. Haze was observed during the sampling time.</li> <li>• Only minor defect works were conducted which are considered not major dust generating works, thus results of 1-hour TSP and 24-hour TSP at ASR1 were unlikely impacted by the works under this project.</li> <li>• The construction area under this Contract were paved/covered with vegetation. Dust are not anticipated.</li> </ul> Based on the above, the exceedances are unlikely to be due to the Contract.	
Actions Taken / To Be Taken	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
Remarks	The monitoring results on 6 November 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i> ).	

Appendix A

Results of Air Quality  
Monitoring, Meteorological  
Data and Locations of Air  
Quality Monitoring Stations

Air quality monitoring results on 6/11/2020								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-11-06	ASR10	Hazy	8:00:00	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR10	Hazy	9:02:00	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR10	Hazy	10:04:00	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR6	Hazy	8:13:00	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR6	Hazy	9:15:00	1-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR6	Hazy	10:17:00	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR5	Hazy	8:25:00	1-hour TSP	247	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR5	Hazy	9:27:00	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR5	Hazy	10:29:00	1-hour TSP	229	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR1	Hazy	8:36:00	1-hour TSP	887	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR1	Hazy	9:38:00	1-hour TSP	311	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR1	Hazy	10:40:00	1-hour TSP	237	ug/m3
TMCLKL	HY/2012/08	2020-11-06	AQMS1	Hazy	8:47:00	1-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2020-11-06	AQMS1	Hazy	9:49:00	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2020-11-06	AQMS1	Hazy	10:51:00	1-hour TSP	222	ug/m3
TMCLKL	HY/2012/08	2020-11-06	AQMS1	Hazy	11:53:00	24-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR1	Hazy	11:42:00	24-hour TSP	214	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR10	Hazy	11:06:00	24-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR5	Hazy	11:31:00	24-hour TSP	176	ug/m3
TMCLKL	HY/2012/08	2020-11-06	ASR6	Hazy	11:19:00	24-hour TSP	185	ug/m3

Action level exceedance

Limit level exceedance

**Meteorological Data for Impact Monitoring in the reporting period**

<b>Date (yy-mm-dd)</b>	<b>Time (24hrs)</b>	<b>Average of Wind Speed (m/s)</b>	<b>Average of Wind Direction(degree)</b>
20/11/06	0:00	0.9	45
20/11/06	1:00	0.9	50
20/11/06	2:00	0.9	15
20/11/06	3:00	0.9	70
20/11/06	4:00	0.4	21
20/11/06	5:00	0.4	56
20/11/06	6:00	0.4	54
20/11/06	7:00	0	350
20/11/06	8:00	0.4	54
20/11/06	9:00	2.7	304
20/11/06	10:00	1.3	79
20/11/06	11:00	1.3	111
20/11/06	12:00	1.8	260
20/11/06	13:00	2.7	275
20/11/06	14:00	2.7	273
20/11/06	15:00	2.2	263
20/11/06	16:00	1.3	266
20/11/06	17:00	1.3	286
20/11/06	18:00	0.9	301
20/11/06	19:00	1.8	320
20/11/06	20:00	0.9	310
20/11/06	21:00	0.4	323
20/11/06	22:00	0.9	312
20/11/06	23:00	0.4	321
20/11/07	0:00	0.4	325
20/11/07	1:00	1.8	307
20/11/07	2:00	0.4	105
20/11/07	3:00	0.4	315
20/11/07	4:00	0.9	306
20/11/07	5:00	1.3	315
20/11/07	6:00	1.3	315
20/11/07	7:00	2.2	27
20/11/07	8:00	2.7	30
20/11/07	9:00	2.2	18
20/11/07	10:00	1.8	13
20/11/07	11:00	1.3	307
20/11/07	12:00	1.3	318
20/11/07	13:00	1.3	313
20/11/07	14:00	1.8	262
20/11/07	15:00	1.8	277
20/11/07	16:00	2.7	325
20/11/07	17:00	1.8	307
20/11/07	18:00	0.9	303
20/11/07	19:00	1.8	306
20/11/07	20:00	0.4	130
20/11/07	21:00	0.9	326
20/11/07	22:00	1.3	19
20/11/07	23:00	0.9	20

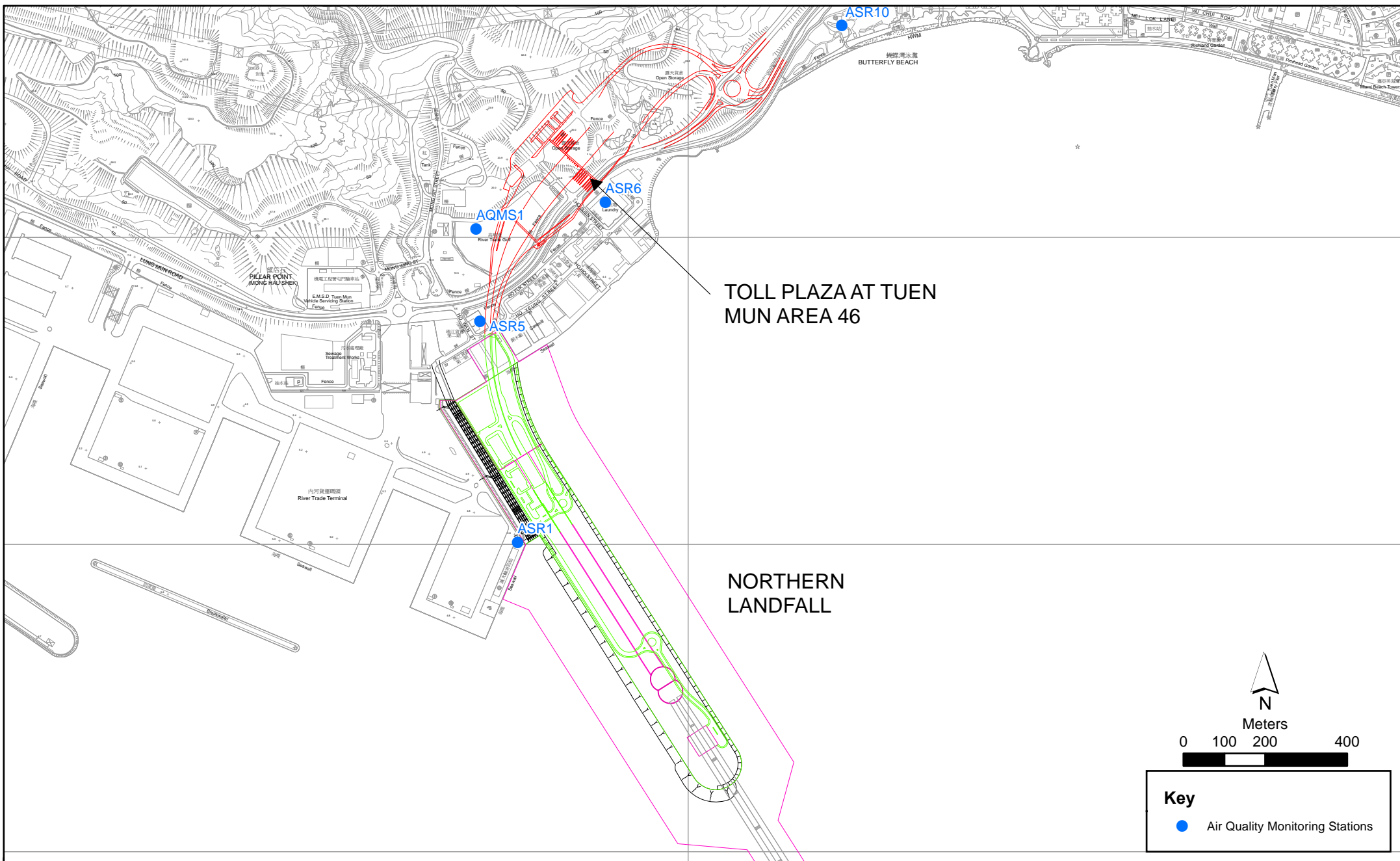


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring  
 (Source: Adopted from Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link -  
 Northern Connection Sub-sea Tunnel Section)

**Key**  
 ● Air Quality Monitoring Stations

**Environmental  
 Resources  
 Management**







**ERM-Hong Kong, Limited**

**CONTRACT NO. HY/2017/10**

**TUEN MUN – CHEK LAP KOK LINK –  
NORTHERN CONNECTION TUNNEL BUILDINGS,  
ELECTRICAL AND MECHANICAL WORKS**

*Air Quality Impact Monitoring*

**Notification of Exceedance**

<b>Log No.</b>	<u>Action Level Exceedance</u> 0463091_12November 2020_1hrTSP_Station ASR6 0463091_12November 2020_1hrTSP_Station ASR5 0463091_12November 2020_1hrTSP_Station ASR1  [Total No. of Exceedances = 3]	
<b>Date</b>	12 November 2020 (Measured) 27 November 2020 (Results obtained from ENPO Website)	
<b>Monitoring Station</b>	ASR6, ASR5 and ASR1	
<b>Parameter(s) with Exceedance(s)</b>	1 - hr TSP	
<b>Action Levels</b>	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	ASR1 = 331 ASR5 = 340 ASR6 = 338 ASR10 = 335 AQMS1 = 337
	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	ASR1 = 213 ASR5 = 238 ASR6 = 238 ASR10 = 214 AQMS1 = 213
<b>Limit Levels</b>	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	500
	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	260
<b>Measured Levels</b>	Refer to <i>Appendix A</i> (Data are source from Contract No. HY/2012/08).	
<b>Works Undertaken (at the time of monitoring event)</b>	Works undertaken under this Contract on 12 November 2020 included <ul style="list-style-type: none"> <li>Indoor defect works at Customs and Excise Department Building, including wall painting, vinyl sheet floor laying, wall plastering and floor sealer painting.</li> </ul>	
<b>Possible Reason for Action or Limit Level Exceedance(s)</b>	The exceedances are unlikely to be due to the Contract, in view of the following: <ul style="list-style-type: none"> <li>With reference to the recorded wind direction (vary between 192° and 228° and) and wind speed (ranged between 1.8 and 2.2 m/s), the wind was mainly from south-westerly direction. Haze was observed during the sampling time.</li> <li>Only minor defect works were conducted which are considered not major dust generating works, thus results of 1-hour TSP at ASR6, ASR5 and ASR1 were unlikely impacted by the works under this project.</li> <li>The construction area under this Contract were paved/covered with vegetation. Dust are not anticipated.</li> </ul> Based on the above, the exceedances are unlikely to be due to the Contract.	
<b>Actions Taken / To Be Taken</b>	No immediate action is considered necessary. The ET will monitor for future trends in exceedances.	
<b>Remarks</b>	The monitoring results on 12 November 2020, locations of air quality monitoring stations and wind data are attached (refer to <i>Appendix A</i> ).	

Appendix K

Landscape and Visual  
Monitoring for 24-Month  
Establishment Period

4 December 2020

*Our ref: 0215660\_226\_Establishment L&V Checklist Sept-Nov 2020.docx*

By email

Mr Manson Yeung  
Independent Environmental Checker  
Ramboll Hong Kong Limited  
21/F, BEA Harbour View Centre  
56 Gloucester Road  
Wan Chai, Hong Kong



Dear Sir,

**Contract No. HY/2012/07  
Tuen Mun-Chek Lap Kok Link -  
Southern Connection Viaduct Section**

**Reporting of Landscape Planting Works during the 24-month  
Establishment Period (September to November 2020)**

In accordance with *Section 7.3.1.2 of the Updated EM&A Manual*, we are pleased to provide you with the *Establishment Landscape Monitoring Checklist for September to November 2020* for your perusal and counter-signature.

Should you require any further information or clarification, please do not hesitate to contact the undersigned.

Yours faithfully  
For ERM-Hong Kong, Ltd

**Dr Jasmine Ng**  
*Environmental Team Leader*

*Direct Tel: (852) 2271 3311  
E-mail: jasmine.ng@erm.com*

C.C.  
AECOM (Attn: Mr K P Wong)  
GCL (Attn: Mr Roy Leung)



**Inspection Date:** 8<sup>th</sup> and 9<sup>th</sup> October 2020 **Inspected By:** Ray Yan  
**Time:** 9:30 a.m. – 5:00 p.m. **Weather Condition:** Sunny  
**Participants:** 8<sup>th</sup> October 2020: Spring Tsui (AECOM – RSFO) and Manson Yeung (Ramboll – IEC)  
 9<sup>th</sup> October 2020: Spring Tsui (AECOM – RSFO) and Manson Yeung (Ramboll – IEC)

1	Zone: Area along Cheung Tung Road	N/A or not observed	Yes	No	Remarks / Photo
1.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.3	Are trees or limb overhanging branches pruned?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
1.10	Overall health condition of the plants?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Zone: Southern Landfall, HKBCF	N/A or not observed	Yes	No	Remarks / Photo
2.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.3	Are trees or limb overhanging branches pruned?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
2.10	Overall health condition of the plants?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<b>3</b>	<b>Zone: Area within Expressway Boundary</b>	<b>N/A or not observed</b>	<b>Yes</b>	<b>No</b>	<b>Remarks / Photo</b>
3.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Obs. 2</b>
3.3	Are trees or limb overhanging branches pruned?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
3.10	Overall health condition of the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Obs. 1 &amp; 2</b>
<b>4</b>	<b>Zone: Slopes outside Expressway Boundary</b>	<b>N/A or not observed</b>	<b>Yes</b>	<b>No</b>	<b>Remarks / Photo</b>
4.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.3	Are trees or limb overhanging branches pruned?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Obs. 3</b>
4.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Obs. 3</b>
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
4.10	Overall health condition of the plants?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>5</b>	<b>General Document</b>	<b>N/A or not observed</b>	<b>Yes</b>	<b>No</b>	<b>Remarks / Photo</b>
5.1	Are the records of watering, fertilizing, weeding, pruning and mowing kept for checking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<p><b>Follow up actions for previous Site Audit:</b></p> <p>Follow-up actions taken for the observations as recorded during the previous landscape monitoring conducted on 22 June 2020:</p> <p>i) <i>Bauhinia variegata</i> on slope (10NW-C/F13) was put in upright position but in wilting (see Observation 1 for details); ii) <i>Bauhinia variegata</i> on slope (10NW-C/F15) was vigorous; and iii) General refuse was removed from the slope (10NW-C/F3).</p>
<p><b>Observations:</b></p> <p><b>Obs. 1:</b> The tree (<i>Bauhinia variegata</i>) on slope (10NW-C/F13) (i.e. the collapsed tree as identified during the previous landscape monitoring conducted on 22 June 2020) was put in upright position but in wilting. The tree health condition in terms of irrigation should be closely monitored and reviewed.</p> <p><b>Obs. 2:</b> The trees (<i>Bridelia tomentosa</i>) on slope (10NW-C/F15) became bent and wilted. It should be supported in upright position with appropriate staking or guying materials, and the tree health condition in terms of irrigation should be closely monitored and reviewed.</p> <p><b>Obs. 3:</b> A portion of the landscape planting area on slope (9SE-B/F85) was trenched by a powered mechanical equipment working for drainage works (NOT under Contract No. HY/2012/07) in the vicinity of Cheung Tung Road. The disturbed landscape planting area shall be reinstated to the original condition with the proposed shrub species re-planted in order to maintain the required total compensatory planting area for Contract No. HY/2012/07.</p>
<p><b>Corrective Actions (if any):</b></p> <ul style="list-style-type: none"><li>• Tree health condition, irrigation in particular, should be closely monitored and reviewed.</li><li>• Tree support systems (e.g. staking or guying materials) should be appropriately selected for tree species, whips in particular.</li><li>• Reinstatement of disturbed landscape planting area on slope (9SE-B/F85) to its original condition with the proposed shrub species re-planted shall be implemented once the drainage works (NOT under Contract No. HY/2012/07) has been completed.</li></ul>
<p><b>General Conclusion:</b></p> <p>Total number of trees planted: 72 (Zone 1); 275 (Zone 2); 714 (Zone 3); and 143 (Zone 4).</p> <p>Planting area under Contract No. HY/2012/07: 14.41 ha (based on the survey data provided by the SOR).</p>

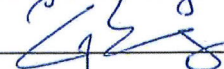
Inspected by (ET's Representative): Ray Yan Title: Deputy Environmental Team Leader

Signature:  Date: 27 October 2020

Reviewed by (RSS Landscape Representative): Candy Lau Title: Senior Resident Landscape Architect



Signature:  Date: 30 November 2020

Contractor's Representative: Roy Leung Title: Senior Eas Engineer



Signature:  Date: 4 Dec 2020

Checked by (IEC's Representative): Manson Yeung Title: Independent Environmental Checker

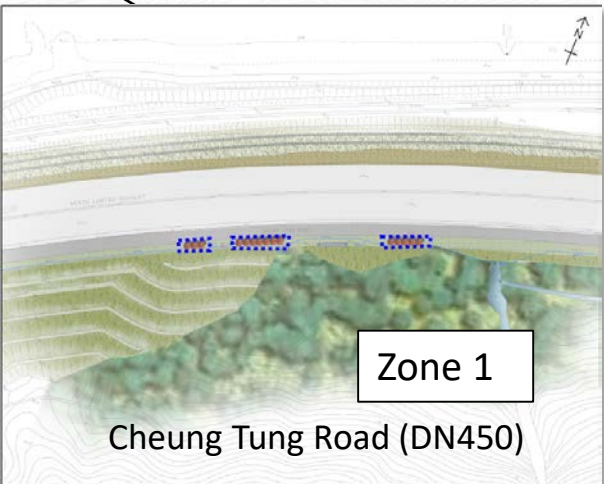
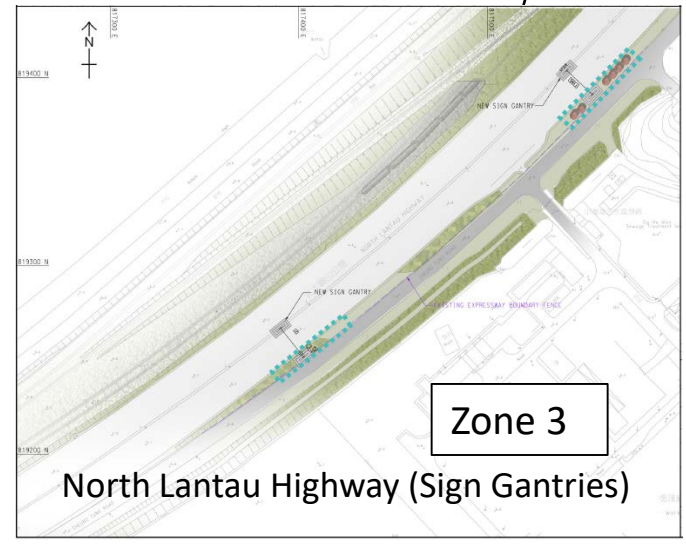
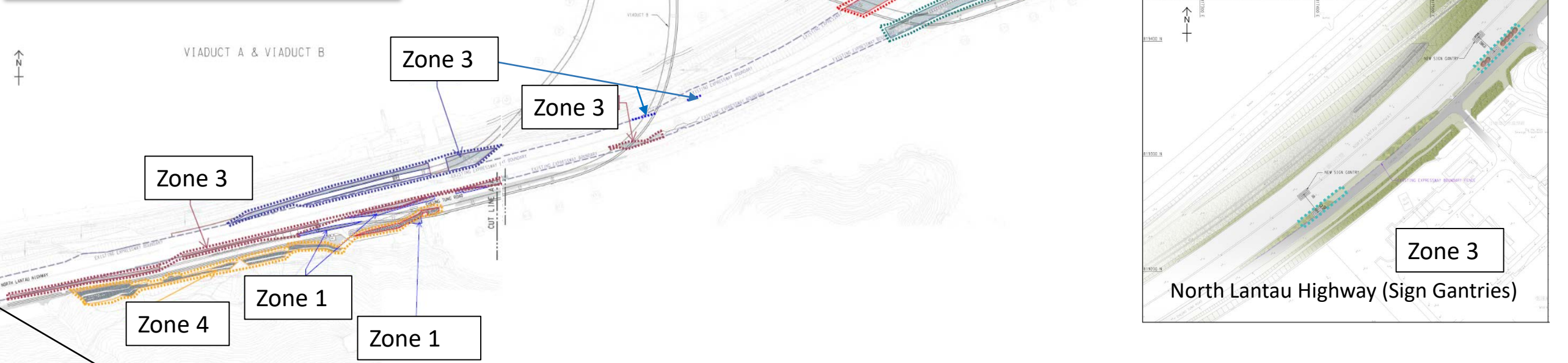
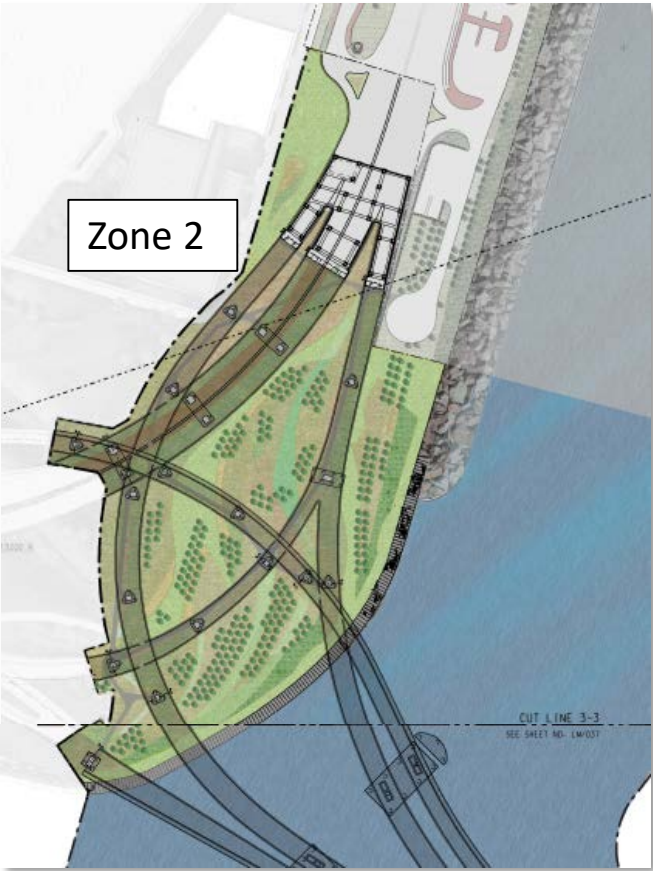
Signature:  Date: 7 Dec 2020

Location	Photo	Information
<p>Zone 3 (10NW-C/F13)</p>		<p>Date: 8 October 2020</p> <p>Follow-up action 1 (Observation 1): The tree on slope (10NW-C/F13) (i.e. the collapsed tree as identified during the previous landscape monitoring conducted on 22 June 2020) was put in upright position but in wilting. The tree health condition in terms of irrigation should be closely monitored and reviewed.</p> <p>Species: <i>Bauhinia variegata</i></p>
<p>Zone 3 (10NW-C/F15)</p>		<p>Date: 8 October 2020</p> <p>Follow-up action 2: The tree on slope (10NW-C/F15) (i.e. the tree with dead leaves as identified during the previous landscape monitoring conducted on 22 June 2020) was vigorous.</p> <p>Species: <i>Bauhinia variegata</i></p>
<p>Zone 3 (10NW-C/F3)</p>		<p>Date: 8 October 2020</p> <p>Follow-up action 3: General refuse was removed from the slope (10NW-C/F3).</p> <p>Species: <i>Hymenocallis littoralis</i>, <i>Ficus microcarpa</i> 'Golden leaf', <i>Gardenia jasminoides</i>, <i>Pittosporum tobira</i>, <i>Rhodomyrtus tomentosa</i> and <i>Schefflera arboricola</i></p>



Location	Photo	Information
<p>Zone 3 (10NW-C/F15)</p>		<p>Date: 8 October 2020</p> <p>Observation 2: The trees on slope (10NW-C/F15) became bent (left) and wilted (right). It should be supported in upright position with appropriate staking or guying materials, and the tree health condition in terms of irrigation should be closely monitored and reviewed.</p> <p>Species: <i>Bridelia tomentosa</i></p>
<p>Zone 4 (9SE-B/F85)</p>		<p>Date: 8 October 2020</p> <p>Observation 3: A portion of the landscape planting area on slope (9SE-B/F85) was trenched by a powered mechanical equipment working for drainage works (NOT under Contract No. HY/2012/07) in the vicinity of Cheung Tung Road. The disturbed landscape planting area shall be reinstated to the original condition with the proposed shrub species re-planted in order to maintain the required total compensatory planting area for Contract No. HY/2012/07.</p> <p>Species: <i>Gordonia axillaris</i>, <i>Melastoma candidum</i>, <i>Melastoma sanguineum</i>, <i>Psychotria asiatica</i> and <i>Rhodomyrtus tomentosa</i></p>





**CONTRACT NO. HY/2012/07  
TUEN MUN – CHEK LAP KOK LINK  
- SOUTHERN CONNECTION VIADUCT SECTION**

**ZONING PLAN – LANDSCAPE WORKS MONITORING (ESTABLISHMENT WORKS)**



Slope Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)
<b>WHIP</b>				
BRL.TOM.	<i>Bridelia tomentosa</i> *	土蜜樹	WHIP	1500-2000
GOR.AXI.	<i>Gordonia axillaris</i> *	大頭茶	WHIP	1500-2000
LIT.GLU.	<i>Litsea glutinosa</i> *	潺槁樹	WHIP	1500-2000
PHY.EMS.	<i>Phyllanthus emblica</i> *	餘甘子	WHIP	1500-2000
REE.THY.	<i>Reevesia thyrsoidea</i> *	梭羅樹	WHIP	1500-2000
<b>TREE</b>				
BAU.VAR.(A)	<i>Bauhinia variegata</i>	宮粉羊蹄甲	LIGHT STANDARD TREE	4000
BAU.VAR.(B)	<i>Bauhinia variegata</i>	宮粉羊蹄甲	STANDARD TREE	4000
BOM.CEI.	<i>Bombax ceiba</i>	木棉	LIGHT STANDARD TREE	4000-5000
BRL.TOM.	<i>Bridelia tomentosa</i> *	土蜜樹	LIGHT STANDARD TREE	3000
CIN.BUR.(A)	<i>Cinnamomum burmannii</i> *	陰香	LIGHT STANDARD TREE	4000
MEL.AZE.(A)	<i>Melia azedarach</i>	苦楝	LIGHT STANDARD TREE	4000
PLU.RUB.	<i>Plumeria rubra</i>	雞蛋花	2000 (H) X 2000 (S)	3500-4000
<b>PALM</b>				
CAR.MIT.	<i>Caryota mitis</i>	短穗魚尾葵	2500(H) x 1500(S)	2500
LIV.CHL.	<i>Livistona chinensis</i>	蒲葵	1500-2500(H) X 1500(S)	3500-4000
PHO.ROE.	<i>Phoenix roebelenii</i>	日本葵	2000(H) x 1500(S)	2000
WAS. ROB.	<i>Washingtonia robusta</i>	華盛頓葵	1500 - 2500(H) X 1500(S)	3500-4000
<b>SHRUB</b>				
CAL.HAE.	<i>Calliandra haematocephala</i>	紅絨球	300(H) X 300(S)	1000
FIC.MIC.'GOL'	<i>Ficus microcarpa</i> 'Golden Leaf'	黃榕	300(H) X 300(S)	500
GAR.JAS.	<i>Gardenia jasminoides</i> *	白蟬	300(H) x 300(S)	500
GOR.AXI.	<i>Gordonia axillaris</i> *	大頭茶	500(H) X 500(S)	500
HIB.ROS.	<i>Hibiscus rosa-sinensis</i>	大紅花	300(H) x 300(S)	1000
LIG.SIN.	<i>Ligustrum sinense</i> *	山指甲	300(H) x 300(S)	500
MEL.CAN.	<i>Melastoma candidum</i> *	野牡丹	300(H) X 300(S)	500
MEL.SAN.	<i>Melastoma sanguineum</i> *	毛萼	300(H) X 300(S)	500
NER.OLE.	<i>Nerium oleander</i>	夾竹桃	300(H) X 300(S)	1000
PIT.TOB.	<i>Pittosporum tobira</i> *	海桐花	300(H) x 300(S)	500
PSY.ASI.	<i>Psychotria asiatica</i> *	九節	300(H) x 300(S)	500
RHO.SIM.	<i>Rhododendron simsii</i> *	紅杜鵑	300(H) x 300(S)	500
RHO.TOM.	<i>Rhodomyrtus tomentosa</i> *	桃金娘	300(H) X 300(S)	500
SCH.ARB.	<i>Schefflera arboricola</i>	八葉	300(H) x 300(S)	500
<b>GROUNDCOVER</b>				
HYM.LIT.	<i>Hymenocallis littoralis</i>	蜘蛛蘭	300(H) X 300(S)	300
<b>CLIMBER</b>				
EPL.AUR.	<i>Epipremnum aureum</i>	綠蘿	MIN. 4 SHOOTS PER PLANT, 300mm LONG	500
FIC.PUM.	<i>Ficus pumila</i> *	薛荔	MIN. 3 SHOOTS PER PLANT, 300-1000mm LONG	300
LON.JAP.	<i>Lonicera japonica</i> *	金銀花	MIN. 4 SHOOTS PER PLANT, 600mm LONG	500
PAR.DAL.	<i>Parthenocissus dalzielii</i>	爬牆虎	MIN. 3 SHOOTS PER PLANT, 600-1000mm LONG	300/500
<b>HYDROSEEDING / GRASS</b>				
-	HYDROSEEDING	噴草	-	-

Roadside Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)
<b>TREE</b>				
BAU.VAR.(A)	<i>Bauhinia variegata</i>	宮粉羊蹄甲	LIGHT STANDARD TREE	4000
BAU.VAR.(B)	<i>Bauhinia variegata</i>	宮粉羊蹄甲	STANDARD TREE	5000
BAU.VAR.(H)	<i>Bauhinia variegata</i>	宮粉羊蹄甲	HEAVY STANDARD TREE	4000-5000
GAR.SUB.	<i>Garcinia subelliptica</i>	菲島福木	LIGHT STANDARD TREE	4000-5000
GRE.ROB.(H)	<i>Grevillea robusta</i>	銀樺	HEAVY STANDARD TREE	5000
ILE.ROT.	<i>Ilex rotunda</i>	鐵冬青	HEAVY STANDARD TREE	5000
LAG.SPE.	<i>Lagerstroemia speciosa</i>	大花紫薇	HEAVY STANDARD TREE	4000-4500
PLU.RUB.	<i>Plumeria rubra</i>	雞蛋花	2000 (H) X 2000 (S) - 2500 (H) X 2500 (S)	4000-5000
TAB.IMP.	<i>Tabebuia impetiginosa</i>	風鈴木	HEAVY STANDARD TREE	5000
<b>PALM</b>				
LIV.CHL.	<i>Livistona chinensis</i>	蒲葵	2500(H) X 1500(S)	4000
PHO.SYL.	<i>Phoenix sylvestris</i>	銀海蕁	2000(H) X 1500(S)	4000
<b>SHRUB</b>				
ALL.CAT.	<i>Allamanda cathartica</i>	軟枝黃蟬	300(H) X 300(S)	300/350
DUR.REP.	<i>Duranta repens</i>	假連翹	300(H) x 250(S)	400
FIC.MIC.'GOL'	<i>Ficus microcarpa</i> 'Golden Leaf'	黃榕	300(H) X 300(S)	350/500
GAR.JAS.	<i>Gardenia jasminoides</i> *	白蟬	300(H) x 300(S)	500
GOR.AXI.	<i>Gordonia axillaris</i> *	大頭茶	300(H) X 300(S)	350
IXO.CHI.	<i>Ixora chinensis</i> *	龍船花	300(H) x 300(S)	300
LIG.SIN.	<i>Ligustrum sinense</i> *	山指甲	300(H) x 250(S)	400
MEL.CAN.	<i>Melastoma candidum</i> *	野牡丹	300(H) X 300(S)	350
MEL.SAN.	<i>Melastoma sanguineum</i> *	毛萼	300(H) X 300(S)	350
NER.OLE.	<i>Nerium oleander</i>	夾竹桃	400(H) x 250(S) / 300(H) X 300(S)	400/500
PIT.TOB.	<i>Pittosporum tobira</i> *	海桐花	300(H) x 300(S)	500
RHA.IND.	<i>Rhaphiolepis indica</i> *	車輪梅	300(H) x 300(S)	300
RHO.TOM.	<i>Rhodomyrtus tomentosa</i> *	桃金娘	300(H) X 300(S)	350/500
SCH.ARB.	<i>Schefflera arboricola</i>	八葉	300(H) x 300(S)	350/500
<b>GROUNDCOVER</b>				
ARA.DUR.	<i>Arachis duranensis</i>	金花生	100(H) X 200(S)	250
EPL.AUR.	<i>Epipremnum aureum</i>	綠蘿	200(H) x 300(S)	300
HYM.LIT.	<i>Hymenocallis littoralis</i>	蜘蛛蘭	300(H) X 300(S)	300
TRA.SPA.	<i>Tradescantia spathacea</i>	蚌花	150-200(H) x 150-300(S)	250
WED.TRI.	<i>Wedelia trilobata</i>	蟛蜞菊	200(H) X 150(S)	300
<b>CLIMBER</b>				
EPL.AUR.	<i>Epipremnum aureum</i>	綠蘿	MIN. 4 SHOOTS PER PLANT, 300mm LONG	500
FIC.PUM.	<i>Ficus pumila</i> *	薛荔	MIN. 3 SHOOTS PER PLANT, 300-1000mm LONG	300
PAR.DAL.	<i>Parthenocissus dalzielii</i>	爬牆虎	MIN. 3 SHOOTS PER PLANT, 600-1000mm LONG	300
<b>HYDROSEEDING / GRASS</b>				
-	HYDROSEEDING	噴草	-	-
AXO.COM.	<i>Axonopus compressus</i>	地毯草(大葉草)	Whole piece turf 300(L)x300(W)x50(H)	-

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
2. SHRUB / GROUNDCOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.
3. GRASS SEED AS CEDD GENERAL SPECIFICATION 3.26(3).
4. \* SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
5. PLANTING FOR SOUTHERN LANDFALL REFER TO FIGURE 6.4.

Status: Planting Schedule is a consolidated list of plant species based on the planting plans as commented/ approved by the relevant Government departments, i.e. LCSD or HyD/Landscape Division.

Planting Schedule - HY/2012/07 (Contract 1) for Southern Landfall

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)
<b>TREE</b>				
GRE.ROB.	<i>Grevillea robusta</i>	銀鐘	HEAVY STANDARD TREE	4000-5000
PLU.RUB.	<i>Plumeria rubra</i>	雞蛋花(紅)	HEAVY STANDARD TREE	4000-5000
<b>SHRUB</b>				
RUS.EQU.	<i>Russelia equisetiformis</i>	燻仗竹	300(H) x 300(S)	250
<b>GROUNDCOVER</b>				
IPO.PES.	<i>Ipomoea pes-caprae</i> *	海邊牽牛	200(H) x 200(S)	200
LAN.MON.	<i>Lantana montevidensis</i>	鋪地臭金鳳	200(H) x 200(S)	250
OPH.JAP.	<i>Ophiopogon japonicus</i> *	麥冬	150(H) x 200(S)	200
SYN.POD.	<i>Synagonium podophyllum</i>	白蝴蝶	100(H) x 200(S)	200
TRA.SPA.	<i>Tradescantia spathacea</i>	蚌花	200(H) x 300(S)	250
ZEP.ROS.	<i>Zephyranthes rosea</i>	玫瑰蔥蘢	100(H) x 200(S)	150
<b>CLIMBER</b>				
MON.DEL.	<i>Monstera deliciosa</i>	龜背竹	MIN. 5 SHOOTS PER PLANT, 300mm LONG	500
<b>HYDROSEEDING / GRASS</b>				
-	HYDROSEEDING	噴草	-	-
ZOY.JAP.	<i>Zoysia japonica</i>	朝鮮草	300(L)x300(W)x50(H)	-

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
2. SHRUB / GROUNDCOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.
3. GRASS SEED AS CEDD GENERAL SPECIFICATION 3.26(3).
4. \* SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
5. THE PLANT SPECIES ALLOWED FOR PLANTING IN EACH ZONE STATED IN THE HONG KONG INTERNATIONAL AIRPORT (HKIA) APPROVED PLANT SPECIES LIST (Revision. 4.0.1: October 2015).

Status: Planting Schedule is a consolidated list of plant species based on the planting plans as commented/ approved by the relevant Government departments, i.e. LCSD or HyD/Landscape Division.





Photo 1: *Ilex rotunda* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)



Photo 2: *Ilex rotunda* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 10/10/20

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Photo 3: *Ilex rotunda* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)



Photo 4: *Ilex rotunda* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

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Photo 5: (A): *Ilex rotunda*; and (B): *Tabebuia impetiginosa* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)



Photo 6: *Ilex rotunda* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 10/10/20

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Photo 7: *Garcinia subelliptica* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)

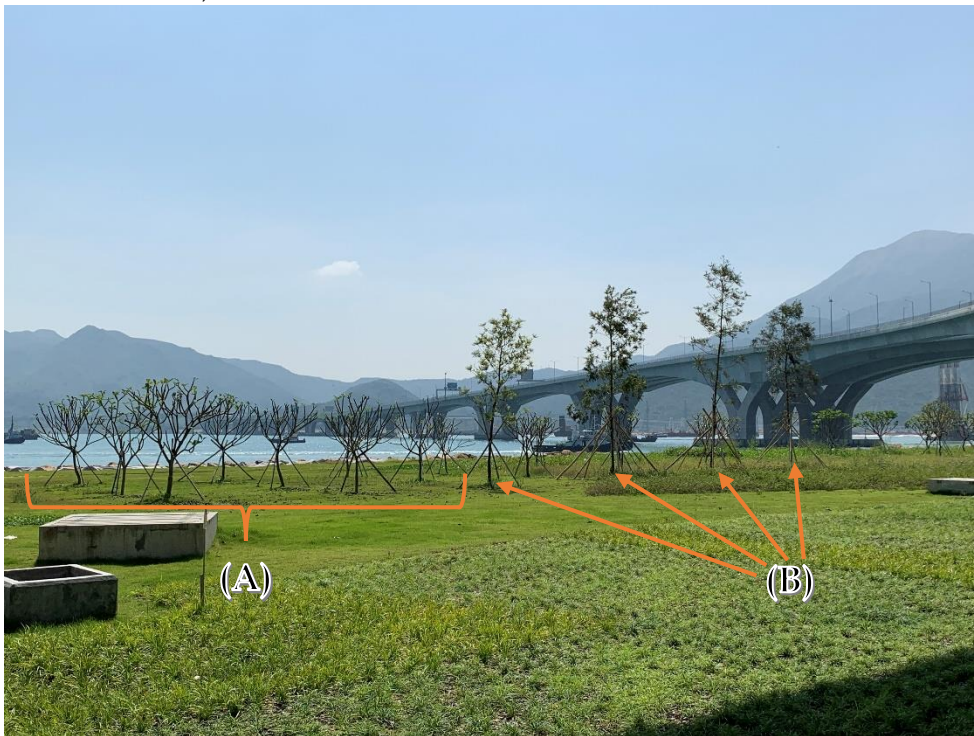


Photo 8: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2  
(Taken on: 9 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 10/10/20

**Environmental  
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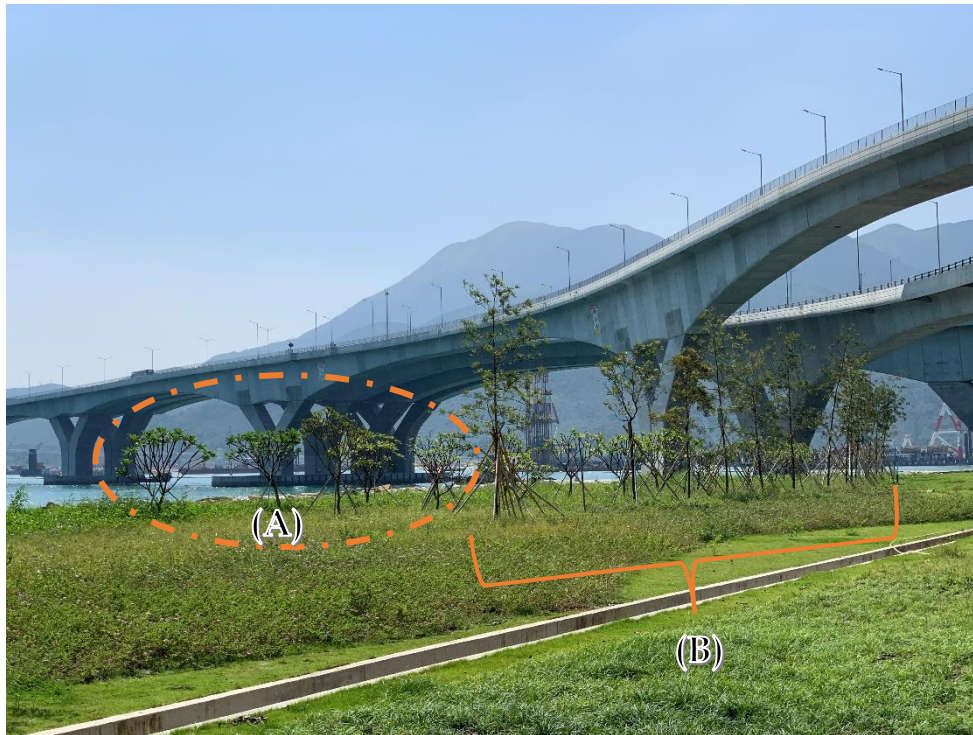


Photo 9: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2  
(Taken on: 9 October 2020)



Photo 10: *Plumeria rubra* on HKBCF within Zone 2  
(Taken on: 9 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 21/10/20

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Photo 11: *Plumeria rubra* on HKBCF within Zone 2  
(Taken on: 9 October 2020)

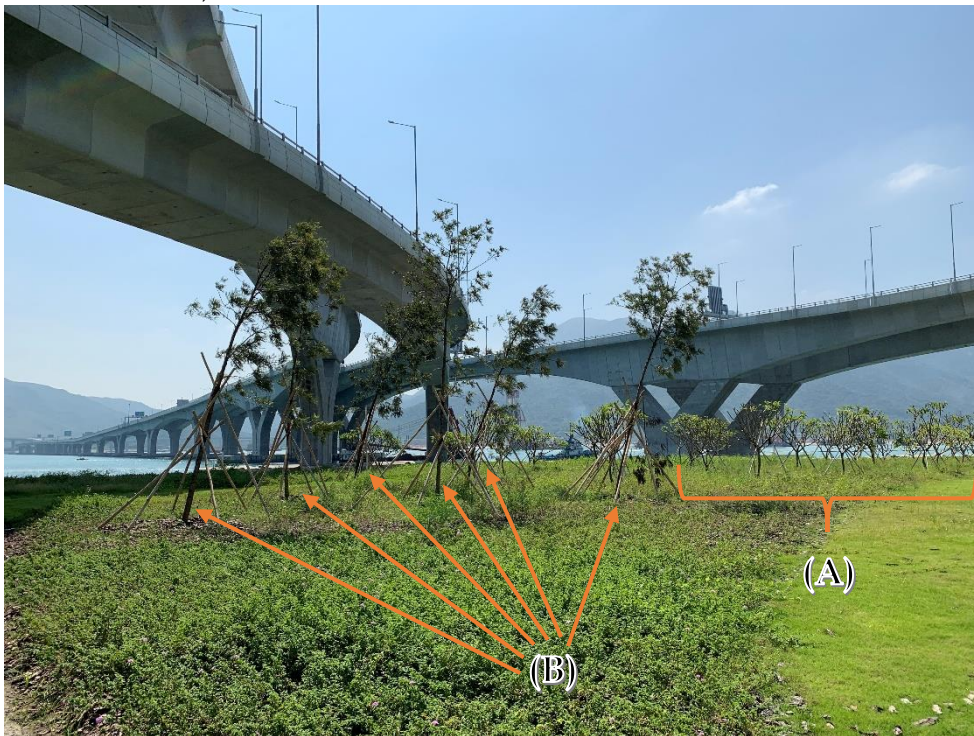


Photo 12: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2  
(Taken on: 9 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

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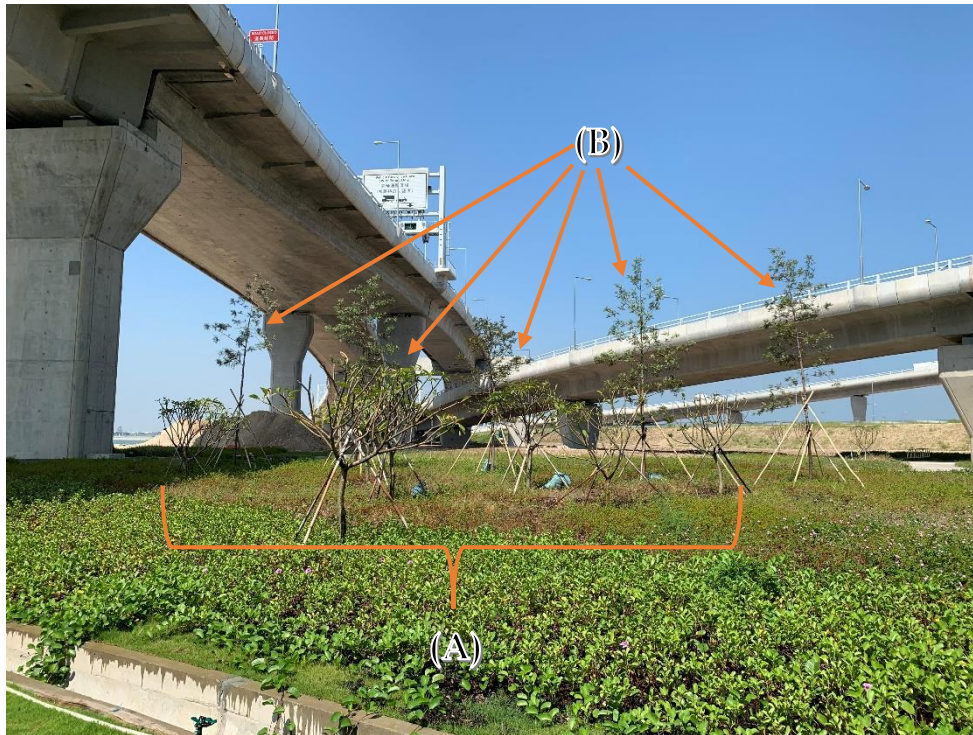


Photo 13: (A): *Plumeria rubra*; and (B): *Grevillea robusta* on HKBCF within Zone 2  
(Taken on: 9 October 2020)



Photo 14: *Plumeria rubra* on HKBCF within Zone 2  
(Taken on: 9b October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

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Photo 15: *Plumeria rubra* on HKBCF within Zone 2  
(Taken on: 9 October 2020)



Photo 16: *Plumeria rubra* on HKBCF within Zone 2  
(Taken on: 9 October 2020)

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Photo 17: (A): *Syngonium podophyllum*; and (B): *Monstera deliciosa* on HKBCF within Zone 2  
 (Taken on: 9 October 2020)

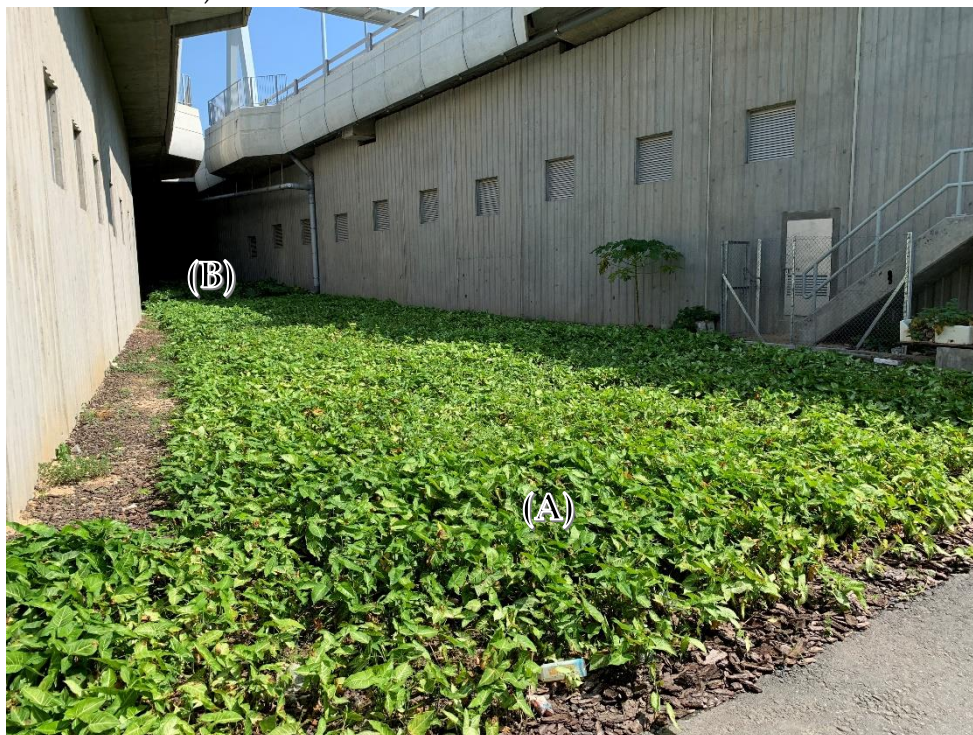


Photo 18: (A): *Syngonium podophyllum*; and (B): *Monstera deliciosa* on HKBCF within Zone 2  
 (Taken on: 9 October 2020)

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Photo 19: (A): Hydroseeding; (B): *Zoysia japonica*; (C): *Ophiopogon japonicus*; (D): *Russelia equisetiformis*; and (E): *Lantana montevidensis* on HKBCF within Zone 2  
(Taken on: 9 October 2020)



Photo 20: (A): *Hymenocallis littoralis*; (B): *Tradescantia spathacea*; and (C): *Gordonia axillaris*, *Melastoma candidum*, *Melastoma sanguineum* & *Rhodomyrtus tomentosa* along North Lantau Highway (slip road West Bound) within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

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Photo 21: *Plumeria rubra* opposite to Bridge Column C19 within Zone 3  
(Taken on: 8 October 2020)

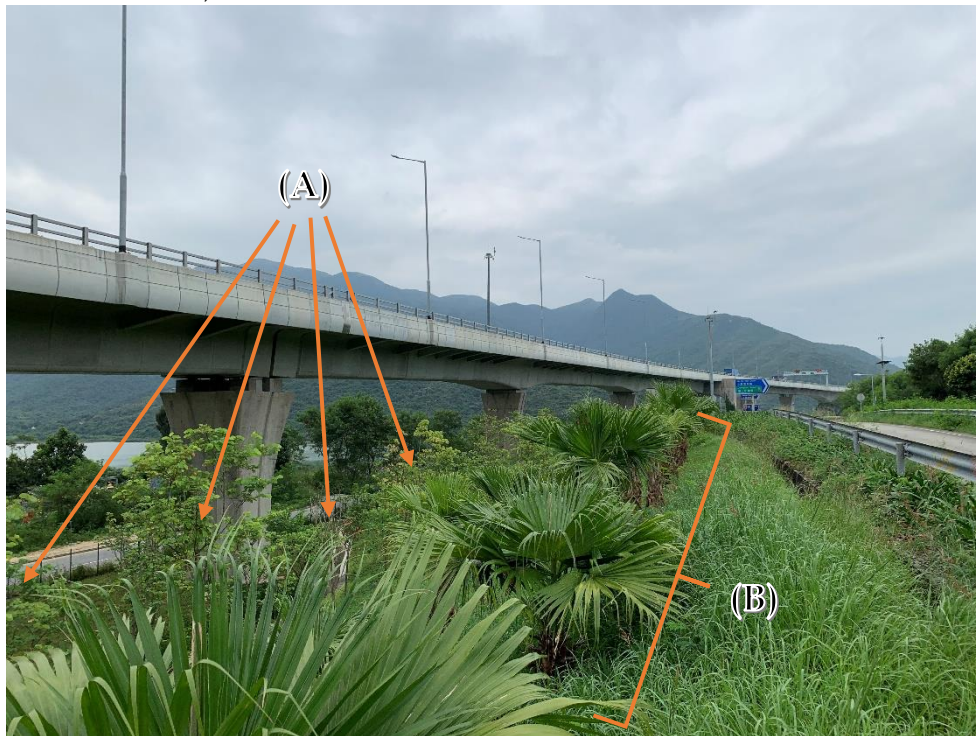


Photo 22: (A): *Bauhinia variegata*; and (B): *Livistona chinensis* between Bridge Columns C17 and C18 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

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Photo 23: *Plumeria rubra* between Bridge Columns C13 and C14 within Zone 3  
(Taken on: 8 October 2020)



Photo 24: *Grevillea robusta* in the vicinity of Bridge Column C13 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

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Photo 25: (A): *Plumeria rubra*; and (B): *Phoenix sylvestris* opposite to Bridge Column C12 within Zone 3

(Taken on: 8 October 2020)



Photo 26: (A): *Phoenix sylvestris*; and (B): *Plumeria rubra* opposite to Bridge Column C10 within Zone 3

(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

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Photo 27: (A): *Bauhinia variegata*; and (B): *Plumeria rubra* in the vicinity of Bridge Column C9 within Zone 3  
 (Taken on: 8 October 2020)



Photo 28: *Bridelia tomentosa* in the vicinity of Bridge Column C9 within Zone 3  
 (Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
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Photo 29: *Livistona chinensis* on Slope 10NW-C/F15 within Zone 3  
(Taken on: 8 October 2020)

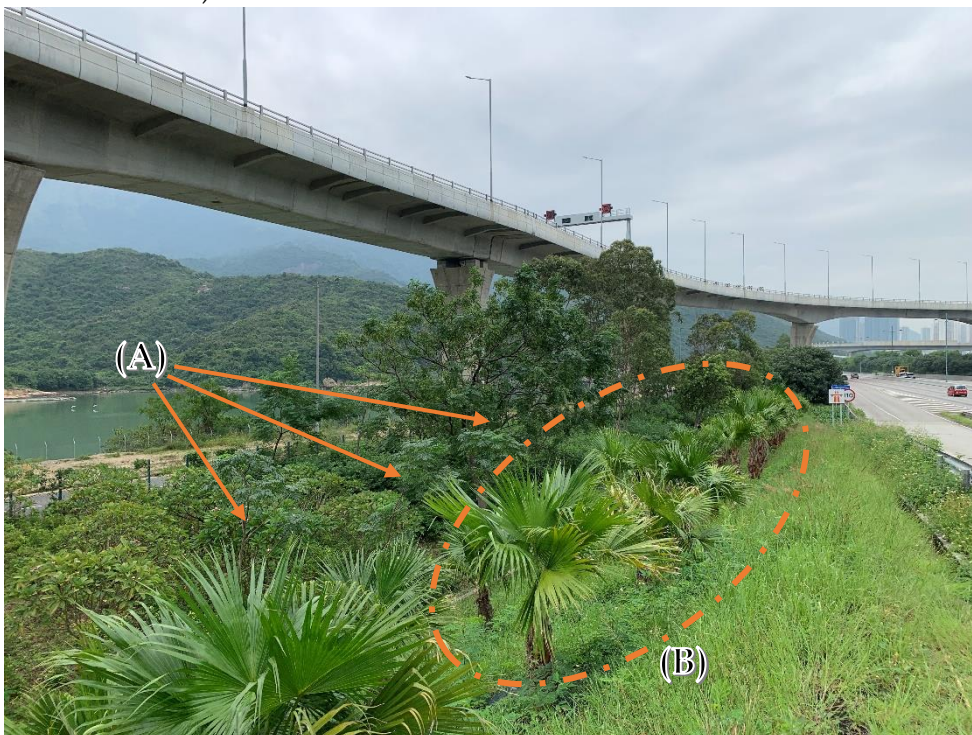


Photo 30: (A): *Melia azedarach*; and (B): *Livistona chinensis* on Slope 10NW-C/F15 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

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Photo 31: *Livistona chinensis* on Slope 10NW-C/F14 within Zone 3  
(Taken on: 8 October 2020)



Photo 32: *Livistona chinensis* on Slopes 10NW-C/F14 and 10NW-C/F15 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

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Photo 33: (A): *Livistona chinensis*; and (B): *Melia azedarach* on Slope 10NW-C/F13 within Zone 3 (Taken on: 8 October 2020)



Photo 34: (A): *Bauhinia variegata*; and (B): *Livistona chinensis* on Slope 10NW-C/F13 within Zone 3 (Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

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Resources  
Management**

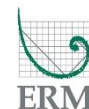






Photo 35: *Phoenix roebelenii* on Slope 10NW-C/F13 within Zone 3  
(Taken on: 8 October 2020)



Photo 36: *Livistona chinensis* on Slope 10NW-C/F13 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 37: *Hymenocallis littoralis* on Slope 10NW-C/F52 within Zone 3  
(Taken on: 8 October 2020)



Photo 38: *Hymenocallis littoralis* on Slope 10NW-C/F52 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 39: *Bauhinia variegata* adjacent to North Lantau Highway (East Bound) within Zone 3  
(Taken on: 8 October 2020)



Photo 40: *Bauhinia variegata* adjacent to North Lantau Highway (East Bound) within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 41: *Bauhinia variegata* in the vicinity of Slope 10NW-C/F10 within Zone 3  
(Taken on: 8 October 2020)



Photo 42: *Bauhinia variegata* in the vicinity of Slope 10NW-C/F10 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 43: (A): *Nerium oleander*; and (B): *Hymenocallis littoralis* in the vicinity of Slope 10NW-C/F11 within Zone 3  
 (Taken on: 8 October 2020)



Photo 44: *Hymenocallis littoralis* in the vicinity of Slope 10NW-C/F10 within Zone 3  
 (Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
 Resources  
 Management**







Photo 45: (A): *Hymenocallis littoralis*; (B): *Epipremnum aureum*; and (C): *Ficus pumila* in the vicinity of Slope 10NW-C/FR17 within Zone 3  
(Taken on: 8 October 2020)



Photo 46: *Hymenocallis littoralis* in the vicinity of Slope 10NW-C/F9 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 47: *Hymenocallis littoralis* in the vicinity of Slope 10NW-C/F9 within Zone 3  
(Taken on: 8 October 2020)



Photo 48: (A): *Hymenocallis littoralis*; and (B): *Ficus microcarpa* “Golden Leaf”, *Gardenia jasminoides*, *Pittosporum tobira*, *Rhodomyrtus tomentosa* & *Schefflera arboricola* in the vicinity of and/or on Slope 10NW-C/F9 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 49: *Bauhinia variegata* in the vicinity of Bridge Column C8 within Zone 3  
(Taken on: 8 October 2020)



Photo 50: *Bombax ceiba* in the vicinity of Bridge Column D10 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 51: *Bombax ceiba* on Slope 10NW-C/FR17 within Zone 3  
(Taken on: 8 October 2020)



Photo 52: *Bombax ceiba* on Slope 10NW-C/FR17 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 53: *Bombax ceiba* on Slope 10NW-C/F11 within Zone 3  
(Taken on: 8 October 2020)



Photo 54: *Bombax ceiba* on Slope 10NW-C/F11 within Zone 3  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 55: *Bauhinia variegata* in the vicinity of sign gantry near North Lantau Highway (West Bound) within Zone 3  
(Taken on: 8 October 2020)



Photo 56: Existing vegetation on Slope 9SE-B/C112 within Zone 4  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**





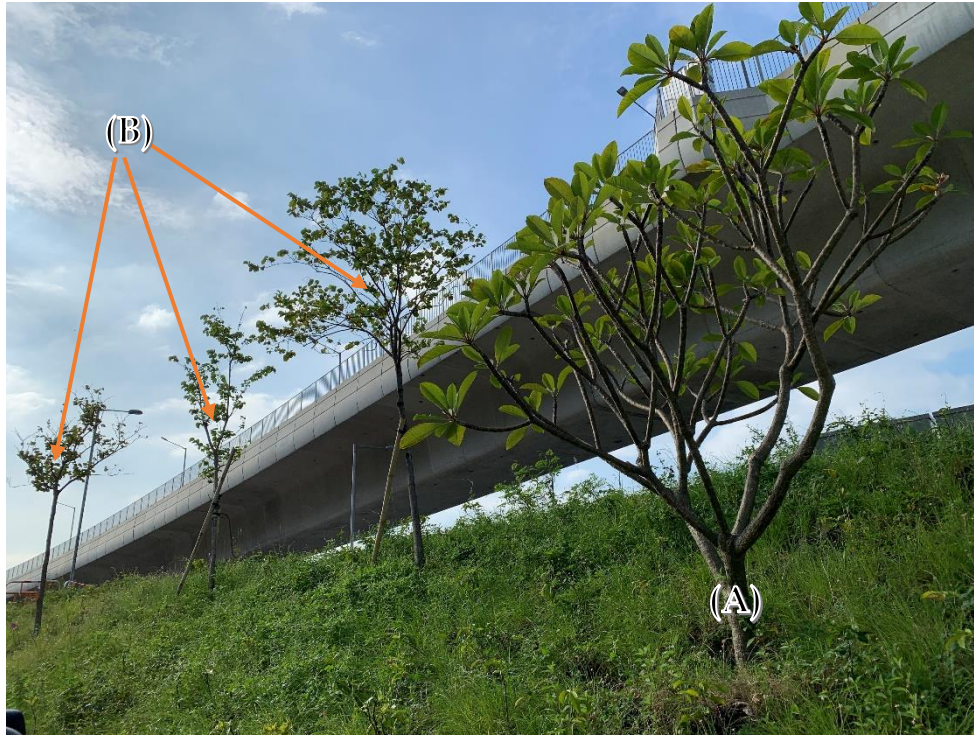


Photo 57: (A): *Plumeria rubra*; and (B): *Bauhinia variegata* on Slope 9SE-B/F85 within Zone 4  
(Taken on: 8 October 2020)

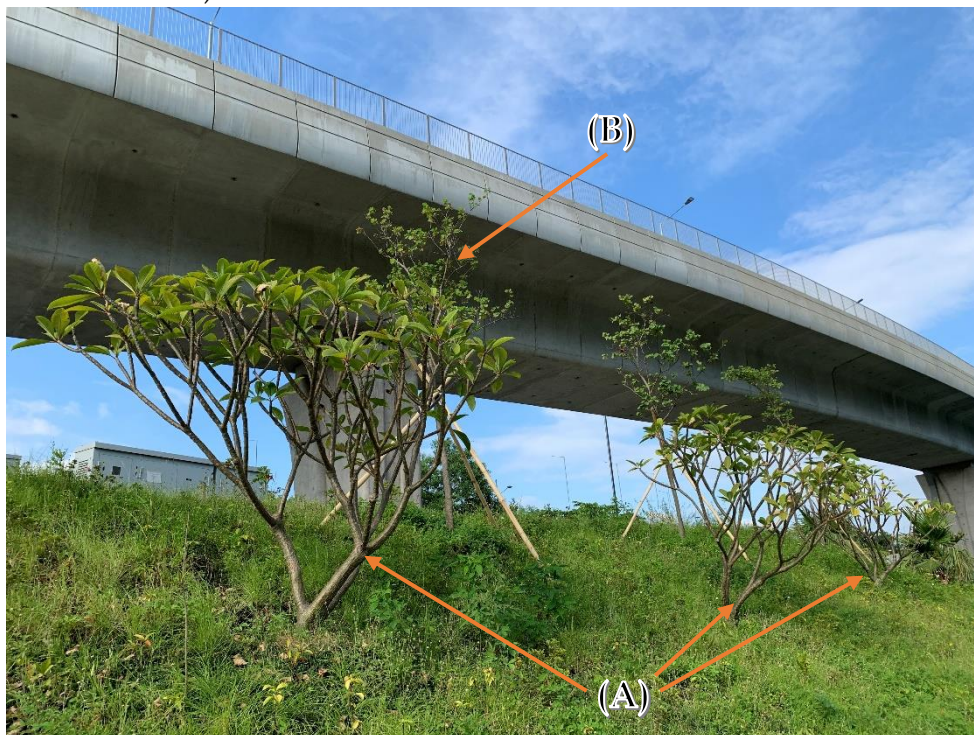


Photo 58: (A): *Plumeria rubra*; and (B): *Bauhinia variegata* on Slope 9SE-B/F85 within Zone 4  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 59: *Washingtonia robusta* on Slope 9SE-B/F85 within Zone 4  
(Taken on: 8 October 2020)



Photo 60: *Phoenix roebelenii* on Slope 9SE-B/F85 within Zone 4  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 61: (A): *Phoenix roebelenii*; and (B): *Caryota mitis* on Slope 9SE-B/F85 within Zone 4  
(Taken on: 8 October 2020)



Photo 62: *Caryota mitis* on Slope 9SE-B/F85 within Zone 4  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 63: *Bauhinia variegata* along North Lantau Highway (East Bound) within Zone 3  
(Taken on: 8 October 2020)



Photo 64: *Lagerstroemia speciosa* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 65: *Lagerstroemia speciosa* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)



Photo 66: *Lagerstroemia speciosa* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

**Environmental  
Resources  
Management**







Photo 67: *Lagerstroemia speciosa* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)



Photo 68: *Lagerstroemia speciosa* along Cheung Tung Road within Zone 1  
(Taken on: 8 October 2020)

Source: P:\Projects\0215660 Gammon TMCLK Link Southern EM&A\16 Site Audit\L&V establishment period checklist\02\_Sept20-Nov20

Date: 23/10/20

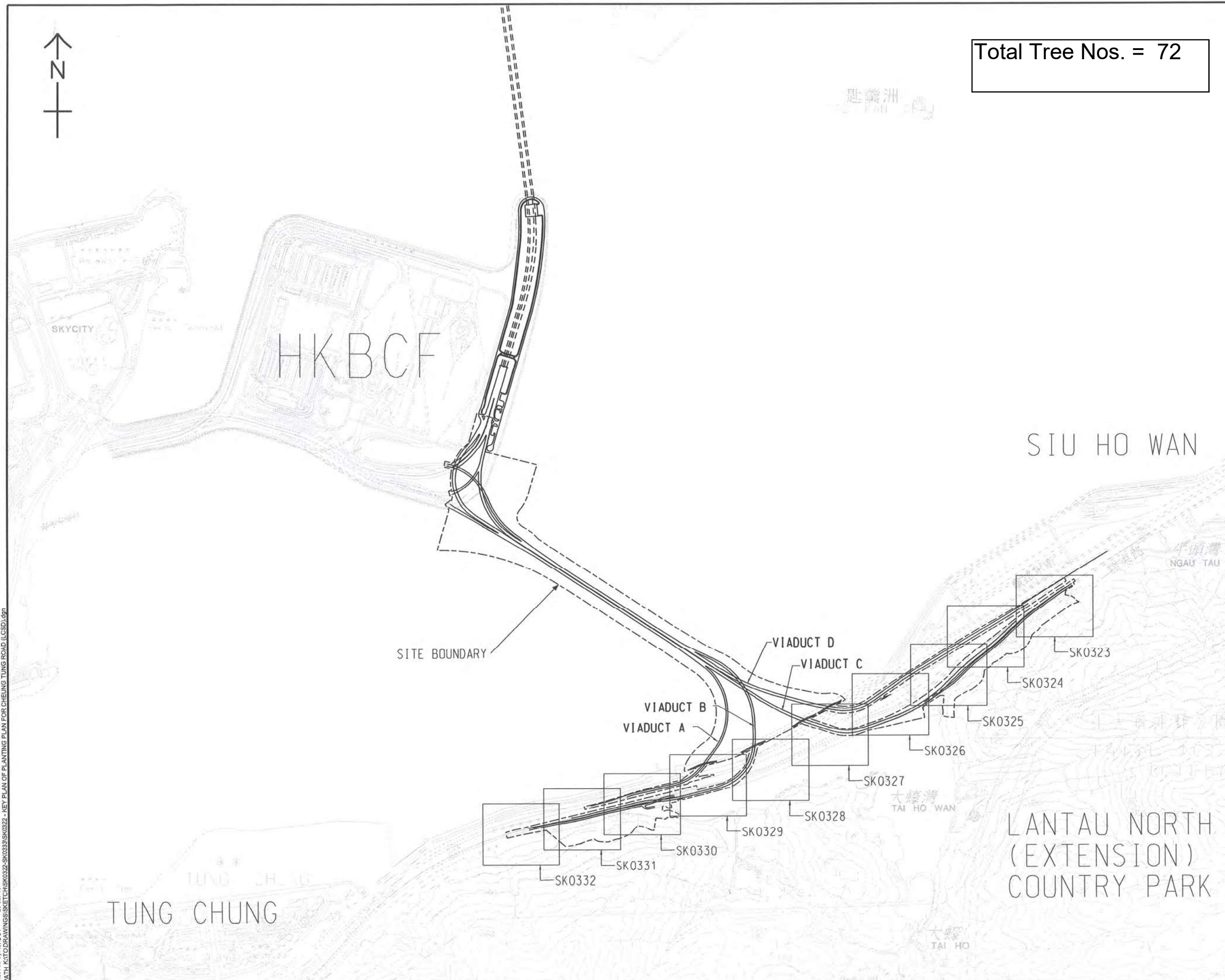
**Environmental  
Resources  
Management**







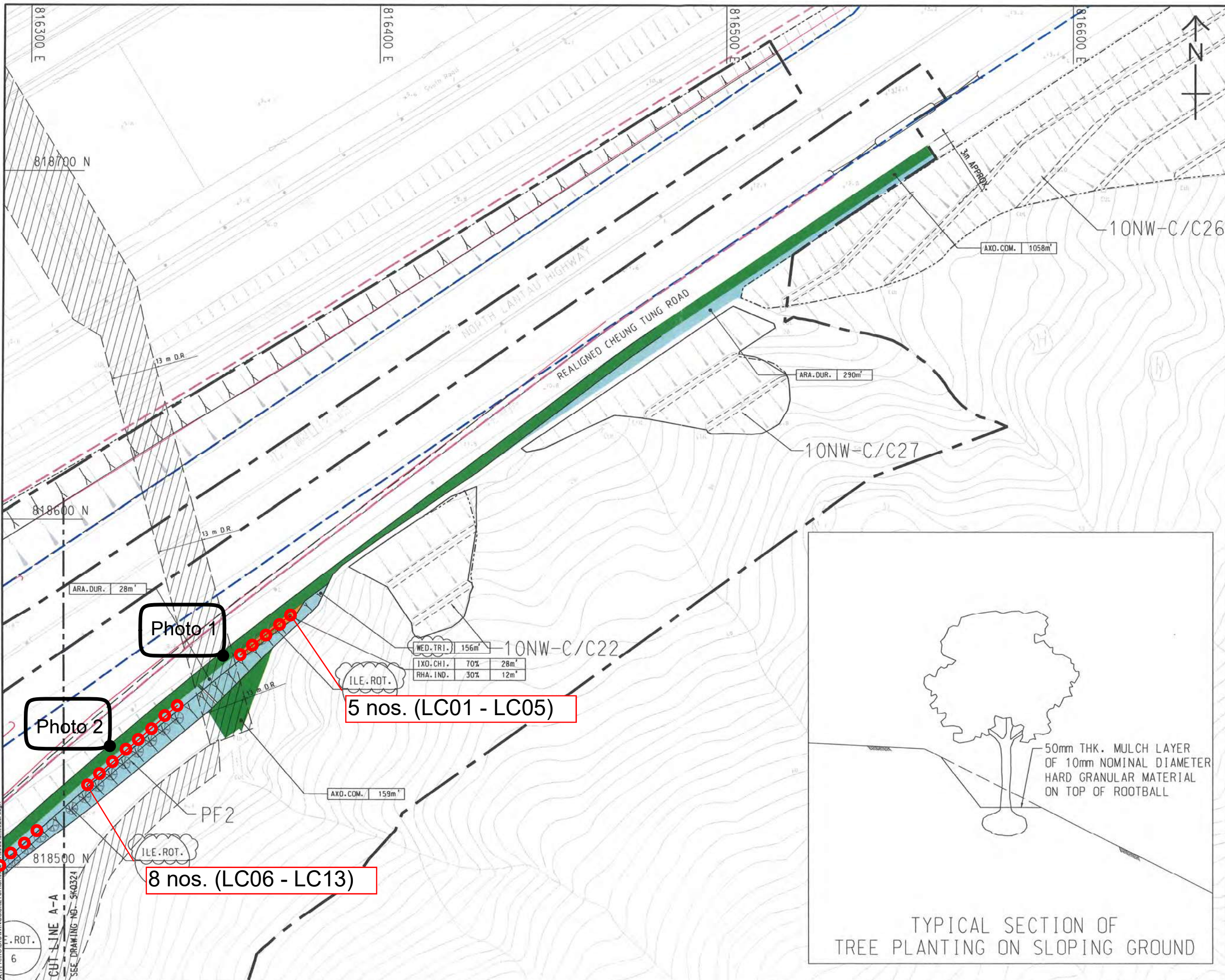
Total Tree Nos. = 72



Plot File by: RTOCT  
PATH: K:\DRAWING\SKETCH\SK0322 - KEY PLAN OF PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD).dgn

REV.	DATE	DESCRIPTION	DRAWN	CHK.	APP.
-	25/01/17	KEY PLAN FOR PLANTING PLAN OF PAVED LANDSCAPE AREA UNDER MAINTENANCE RESPONSIBILITY OF LCSD	GC	GH	CL
CLIENT					
		路政署 <b>HIGHWAYS DEPARTMENT</b> 港珠澳大橋香港工程管理局 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office			
PROJECT					
<b>TUEN MUN - CHEK LAP KOK LINK</b>					
CONTRACT NO.					
HY/2012/07					
CONTRACT TITLE					
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION					
TITLE					
KEY PLAN OF PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)					
SHEET 1 OF 12					
DRAWING REFERENCE		SCALE			
60240249/C1/1000A		1:8000 (A1) 1:16000 (A3)			
DRAWN	PREPARED	APPROVED			
GC <i>ky</i>	GH <i>gh</i>	CL <i>cl</i>			
SKETCH NO.	REV.				
SK0322	-				





- NOTE:**
- ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.
- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PIER MARK (B15)
  - PROPOSED GROUNDCOVER
  - PROPOSED SHRUB
  - PROPOSED GRASS
  - RHA-EXC. 195.78m<sup>2</sup> SPECIES AREA (sq.m)
  - PROPOSED TREE - MAINTENANCE UNDERTAKEN BY LCSD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY LCSD
  - EXISTING TREE (APPROXIMATE LOCATION)
  - PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
A	03-10-18	PLANTING REVISED	GC	GH	CL
-	10-07-18	PLANTING ALONG CTR	GC	GH	CL

CLIENT  
 路政處  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程發展處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

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PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

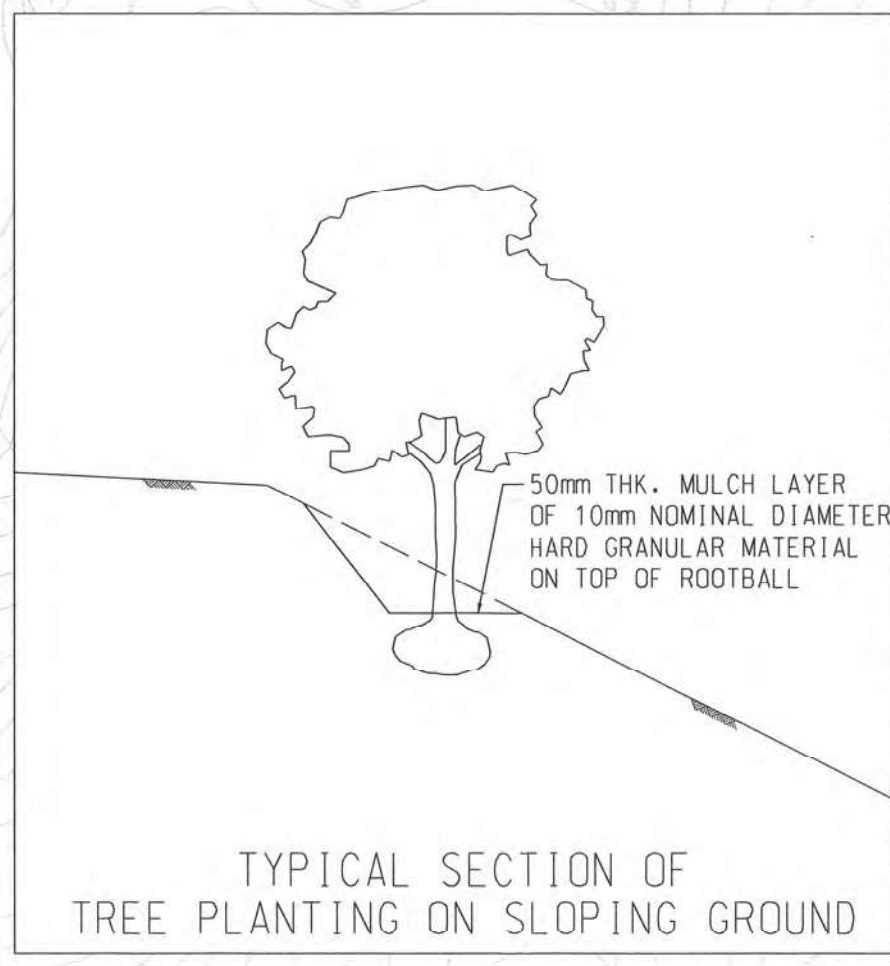
CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)**

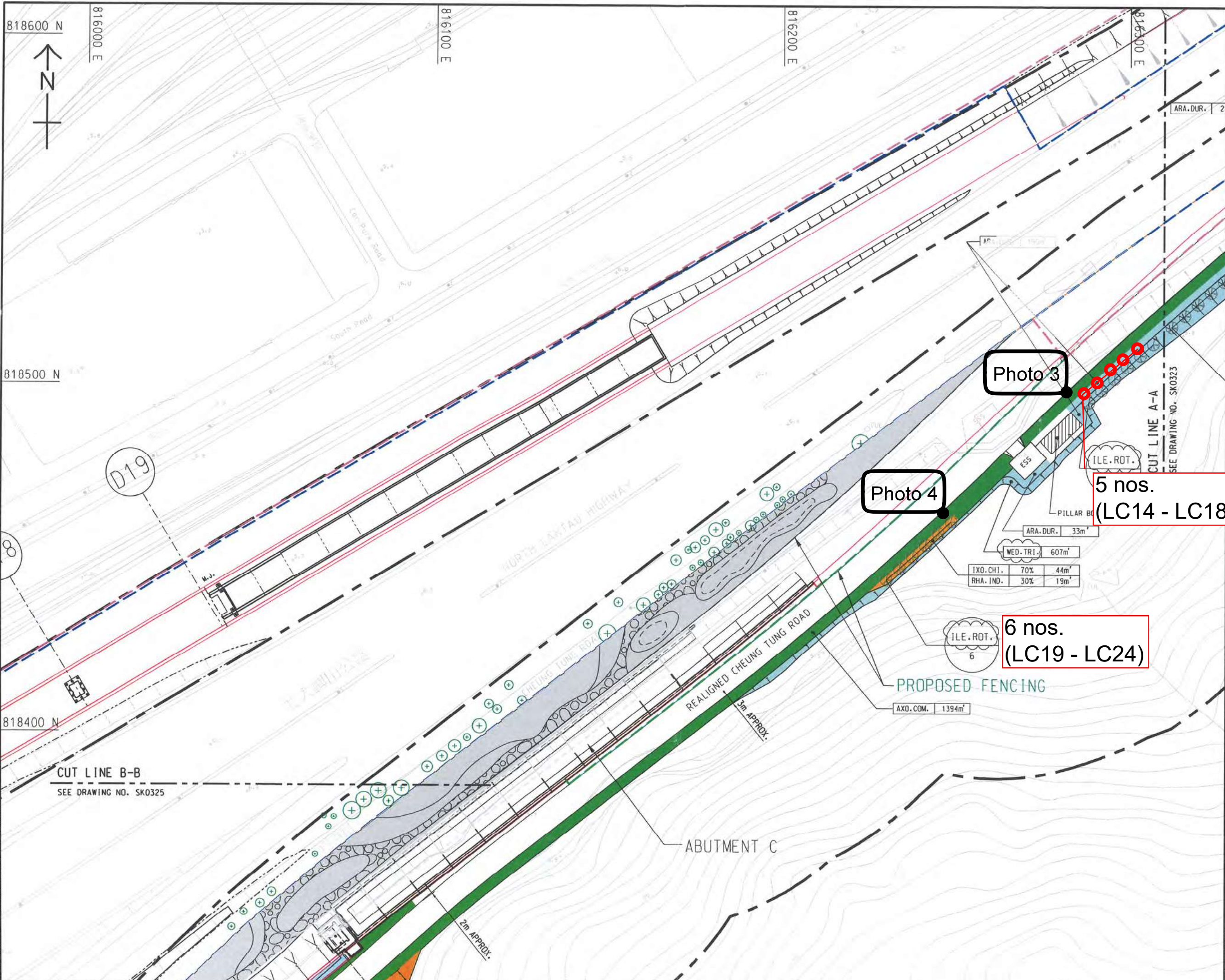
SHEET 2 OF 12

DRAWING REFERENCE 60240249/C1/1744C	SCALE 1:1000 (A3)
DRAWN GC	PREPARED GH
SKETCH NO. SK0323	REV. A



File Path: RT0C1\03-Oct-18\K0333\SK0323A.dgn  
 CUT LINE A-A  
 SEE DRAWING NO. SK0324





818600 N  
818500 N  
818400 N

816000 E  
816100 E  
816200 E  
816300 E

**NOTE:**

- ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

**LEGEND:**

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PIER MARK (B15)
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA-EXC. 1905.78m<sup>2</sup>
- SPECIES AREA (sq.m)
- PROPOSED TREE - MAINTENANCE UNDERTAKEN BY LCSD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

Photo 3

Photo 4

5 nos.  
(LC14 - LC18)

6 nos.  
(LC19 - LC24)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
A	03-10-18	PLANTING REVISED	GC	DH	CL
-	10-07-18	PLANTING ALONG CTR	GC	DH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 路政署  
 香港特別行政區  
 香港 - 珠海 - 澳門大橋  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

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PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)**

SKETCH NO. SK0324

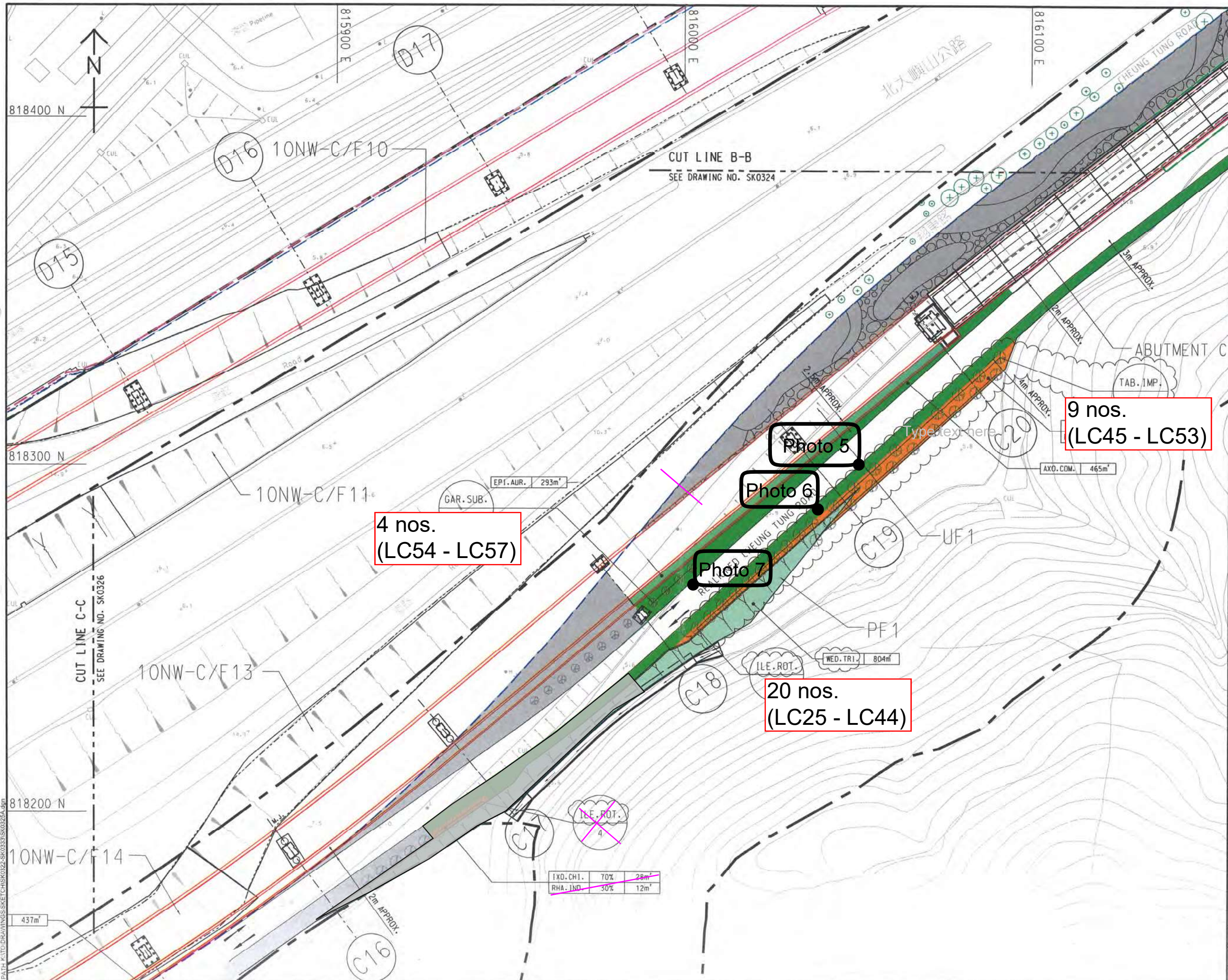
REV. A

DRAWING REFERENCE: 60240249/C1/1754B  
 SCALE: 1:1000 (A3)

DRAWN: GC  
 PREPARED: GH  
 APPROVED: CL

Plot File: RTOC1  
 PATH: K:\DRAWINGS\SKETCH\SK0324-SK0333\SK0324.dgn  
 03-Oct-18





- NOTE:**
- ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.
- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PIER MARK (B15)
  - PROPOSED GROUNDCOVER
  - PROPOSED SHRUB
  - PROPOSED GRASS
  - RHA. EXC.: 1905.78m²
  - SPECIES AREA (sq.m)
  - PROPOSED TREE - MAINTENANCE UNDERTAKEN BY LCSD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY LCSD
  - EXISTING TREE (APPROXIMATE LOCATION)
  - PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
A	03-10-18	PLANTING REVISED	GC	GH	CL
-	10-07-18	PLANTING ALONG CTR	GC	GH	CL

**HIGHWAYS DEPARTMENT**  
 香港特別行政區  
 運輸及房屋局  
 香港 - 珠海 - 澳門大橋  
 香港項目管理處

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**PROJECT**  
 TUEN MUN - CHEK LAP KOK LINK

**CONTRACT NO.**  
 HY/2012/07

**CONTRACT TITLE**  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

**TITLE**  
 PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)

SHEET 4 OF 12

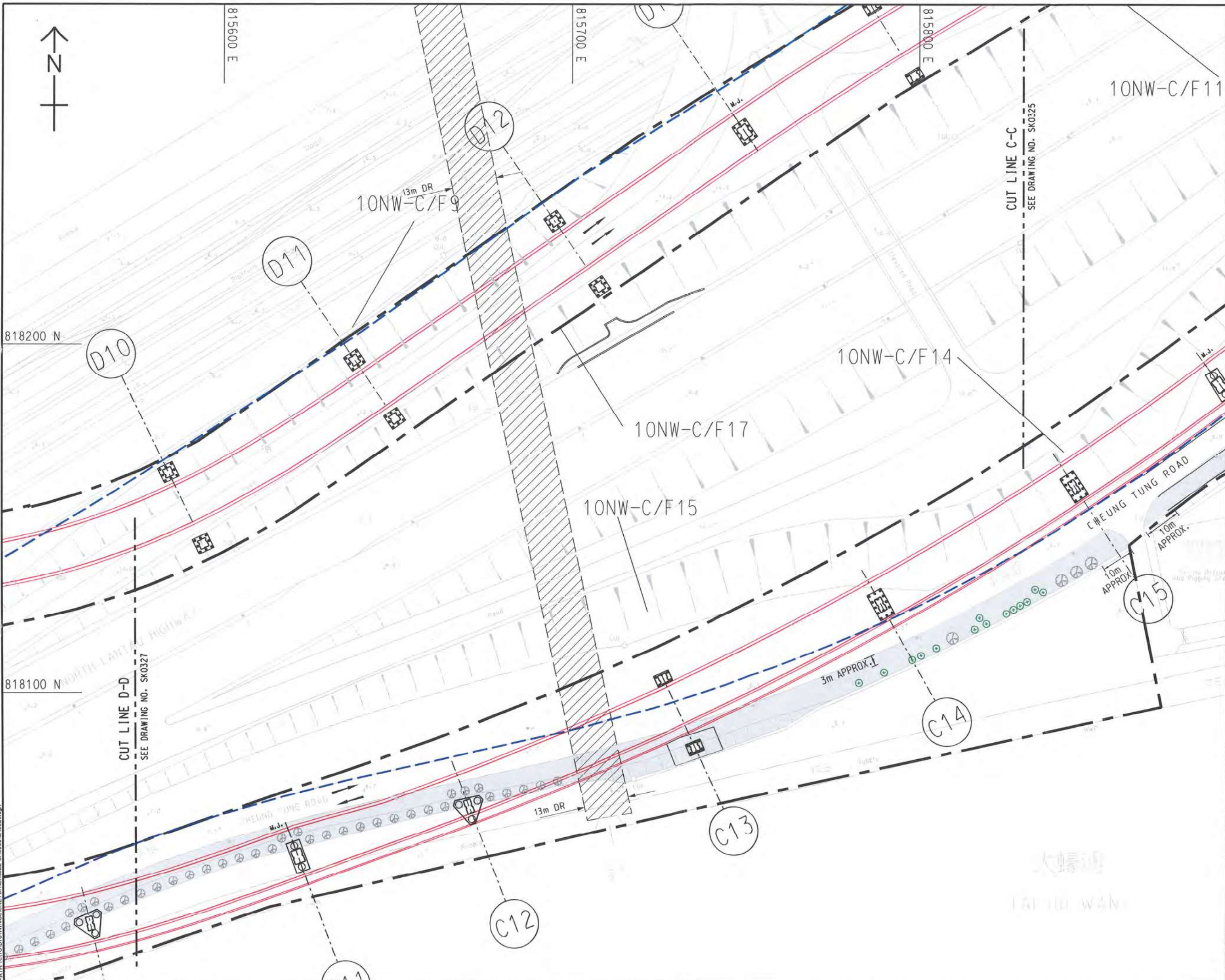
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60240249/C1/1755B	1:1000 (A3)

DRAWN	PREPARED	APPROVED
GC	GH	CL

SKETCH NO. SK0325

Plot File by: RT001  
 PATH: K:\DRAWINGS\SKETCH\SK0325-5K0333\5K0325A.dgn  
 31-Jan-19





**NOTE:**

- ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

**LEGEND:**

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PIER MARK (B15)
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA-EXC. 1905.78m<sup>2</sup> SPECIES AREA(1sq.m)
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD (CODE NOS.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD (NLO482)
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT  
 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大桥香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

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PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

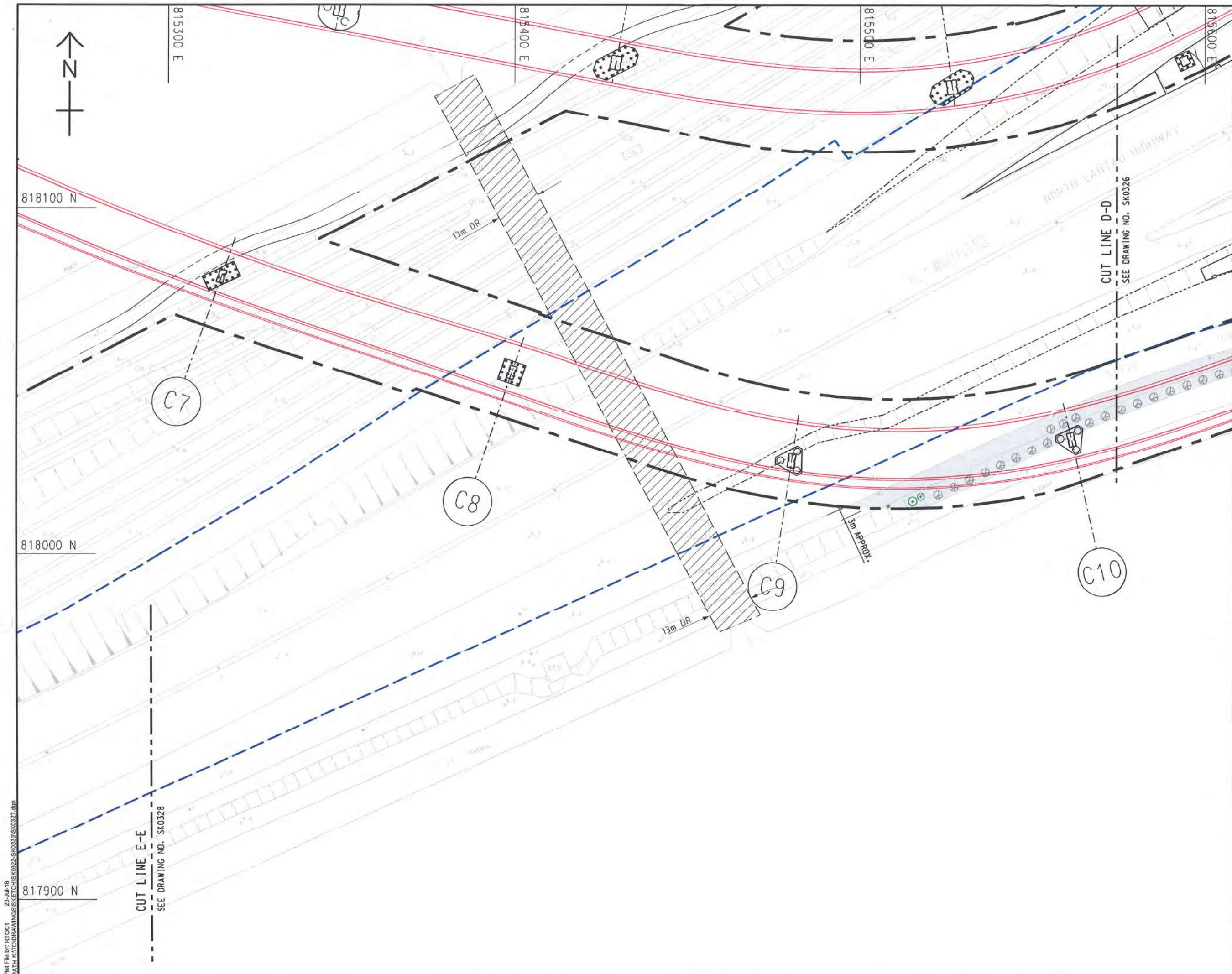
TITLE  
**PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)**

SHEET 5 OF 12

DRAWING REFERENCE	SCALE	
60240249/C1/1743B	1:1000 (A3)	
DRAWN	PREPARED	APPROVED
GC	GH	CL
SKETCH NO.	REV.	
SK0326	-	

Plot File by: RT0C1 23-Jul-18 PATH: K:\DRAWINGS\SKETCH\SK0326-SK0335\SK0326.dwg





- NOTE:**
1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.
- LEGEND:**
- SITE BOUNDARY
  - - - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - SSE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - /// PROPOSED ENGINEERING LAYOUT-VIADUCT
  - | PIER MARK (B15)
  - PROPOSED GROUNDCOVER
  - PROPOSED SHRUB
  - PROPOSED GRASS
  - RHA-EXC. 905.78m<sup>2</sup> SPECIES AREA(sq.m)
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
  - EXISTING TREE (APPROXIMATE LOCATION)
  - PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT

**路政署**  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
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PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

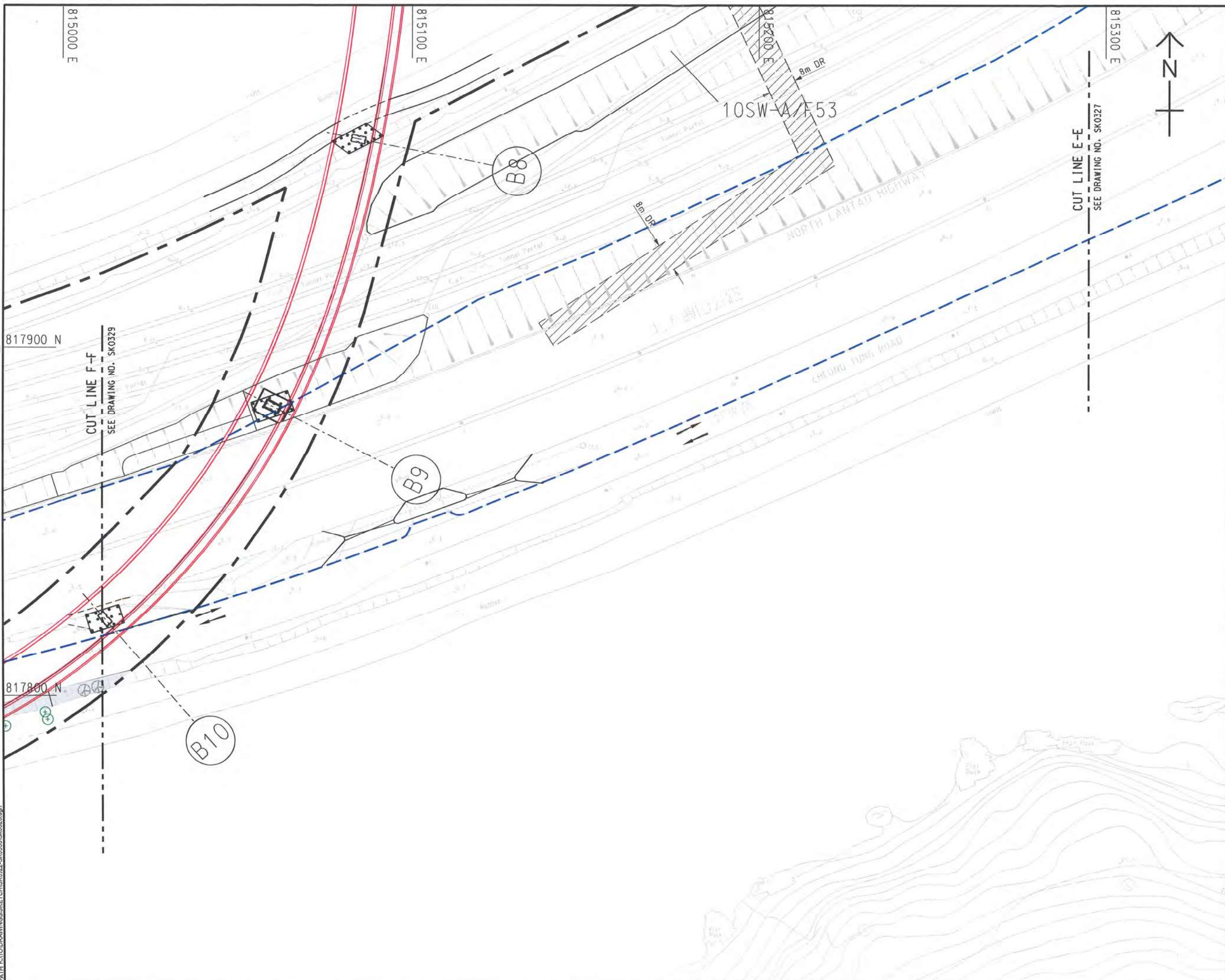
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**PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)**

SHEET 6 OF 12

DRAWING REFERENCE	SCALE	
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DRAWN	PREPARED	APPROVED
GC	GH	CL
SKETCH NO.	REV.	
SK0327	-	

File: RT0C1\_23-Jul-16 PATH\_KATOIDRAWINGS\KETCH\SK0322-SK0333\SK0327.dgn





**NOTE:**

1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

**LEGEND:**

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PIER MARK
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- SPECIES AREA (sq.m)
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRWN.	PRE.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT  
 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理有限公司  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

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PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

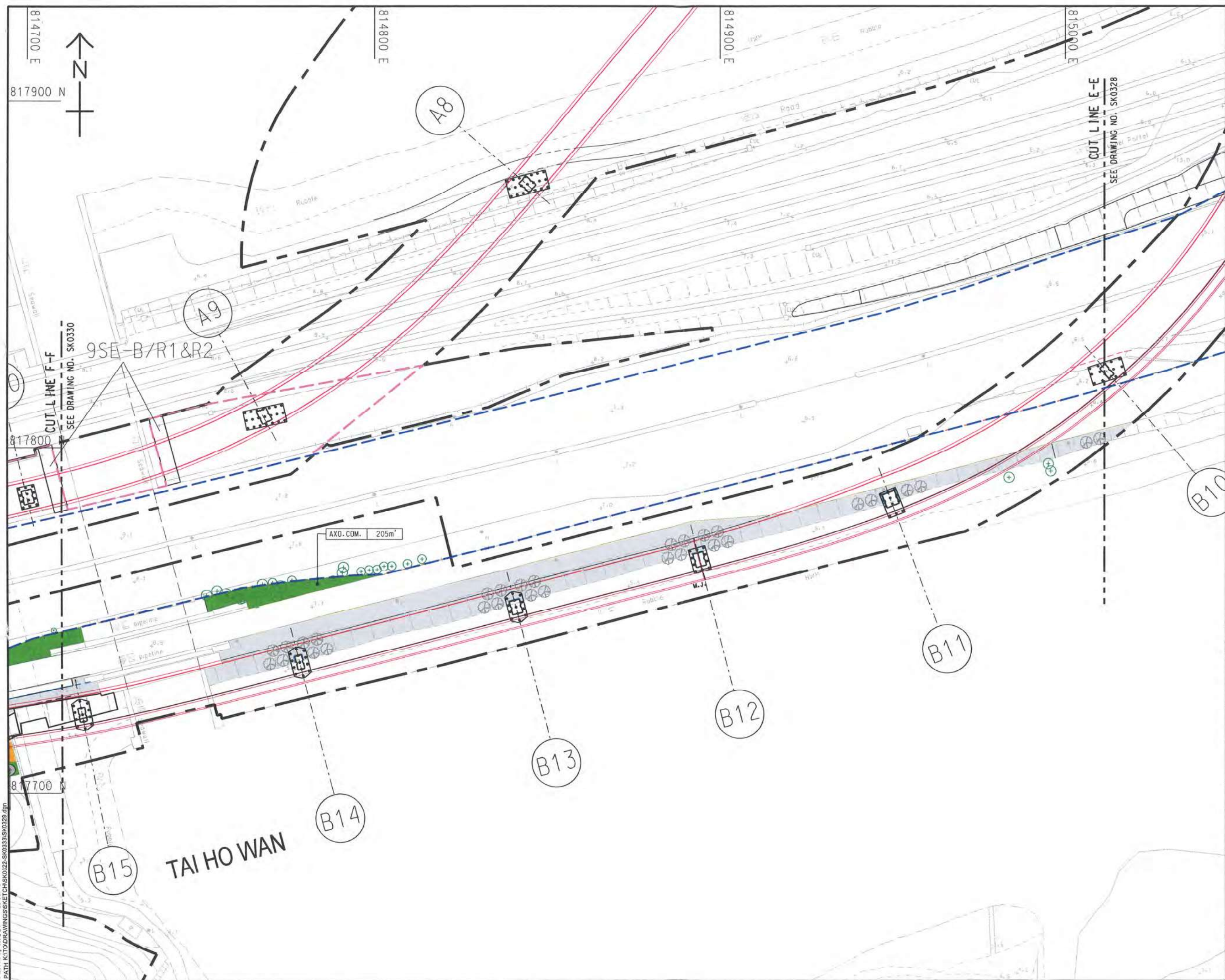
TITLE  
**PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)**

SHEET 7 OF 12

DRAWING REFERENCE 60240249/C1/1745C	SCALE 1:1000 (A3)
DRWN. GC	PREPARED GH
APPROVED CL	REV. -
SKETCH NO. SK0328	

Plot File by: RT0C1 23-Jul-18  
 PATH: K:\DRAWINGS\SKETCH\SK0322-SK0333\SK0328.dgn





- NOTE:**
- ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.
- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PIER MARK (B15)
  - PROPOSED GROUNDCOVER
  - PROPOSED SHRUB
  - PROPOSED GRASS
  - RMA, EXC. 905.78M
  - SPECIES - AREA (sq.m)
  - PROPOSED TREE - MAINTENANCE UNDERTAKEN BY LCSD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY LCSD
  - EXISTING TREE (APPROXIMATE LOCATION)
  - PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT  
 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM** Imagine it. Delivered.

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

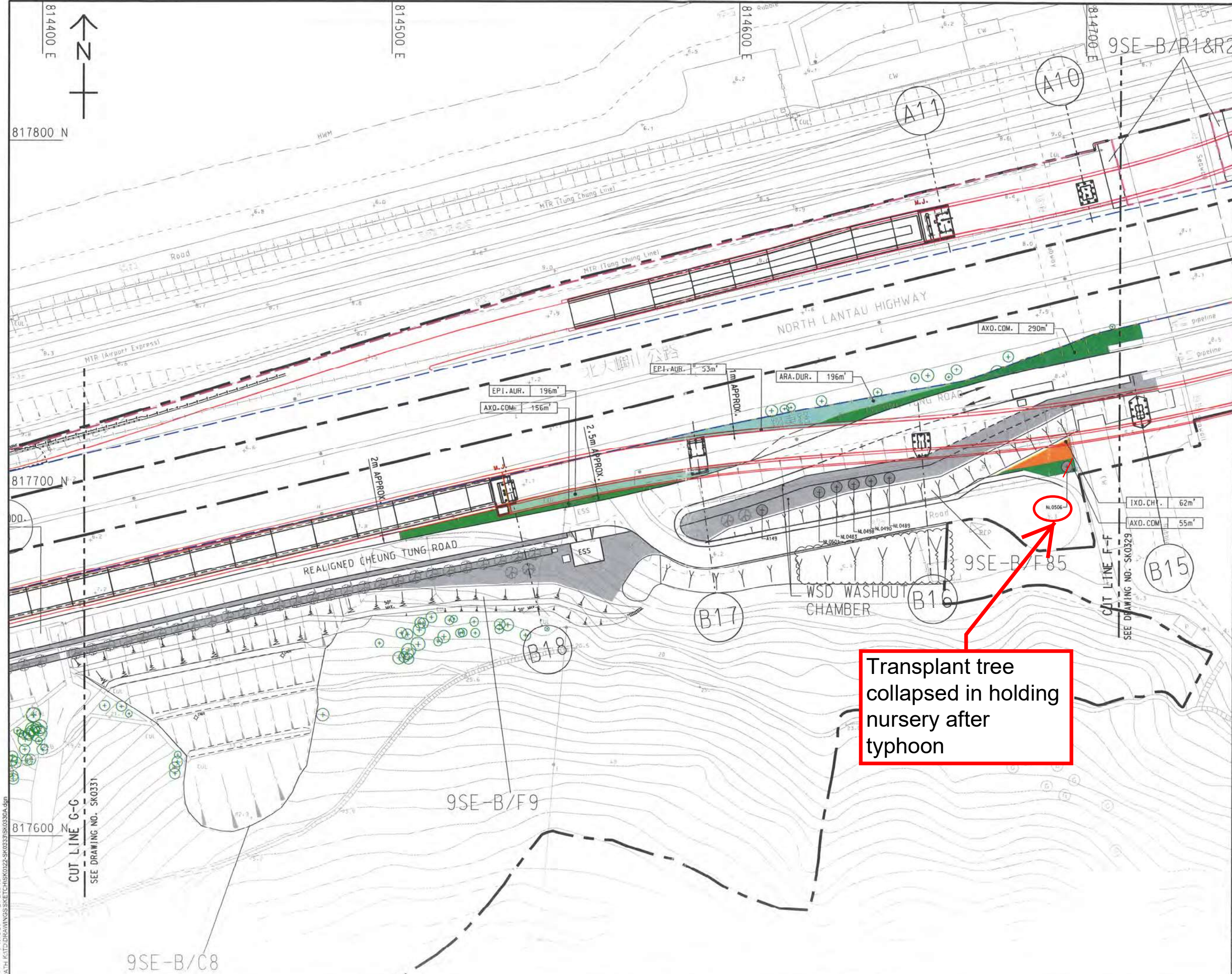
TITLE  
**PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)**

SHEET 8 OF 12

DRAWING REFERENCE 60240249/C1/1745C	SCALE 1:1000 (A3)
DRAWN GC	PREPARED GH
APPROVED CL	REV. -
SKETCH NO. SK0329	

Plot File by RT0C1  
 PATH K:\TODDRAWINGS\SKETCH\SK0322-SK0333\SK0329.dgn  
 23-Jul-18





**NOTE:**

- ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

**LEGEND:**

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PIER MARK (B15)
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA. EXC. 1905.78m<sup>2</sup>
- SPECIES AREA (sq. m)
- PROPOSED TREE - MAINTENANCE UNDERTAKEN BY LCSD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	CHKD	APP.
A	21-12-18	PLANTING AT SLOPE NO. 6SE-B/F85 REVISED	CC	GH	CL
-	24-05-18	PLANTING ALONG CTR	CC	GH	CL

CLIENT: 路政署 HIGHWAYS DEPARTMENT  
 港務局大橋及橋樑工程處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM** Imagine it. Delivered.

PROJECT: TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.: HY/2012/07

CONTRACT TITLE: TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE: PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)

SHEET 9 OF 12

DRAWING REFERENCE: 60240249/C1/1745C SCALE: 1:1000 (A3)

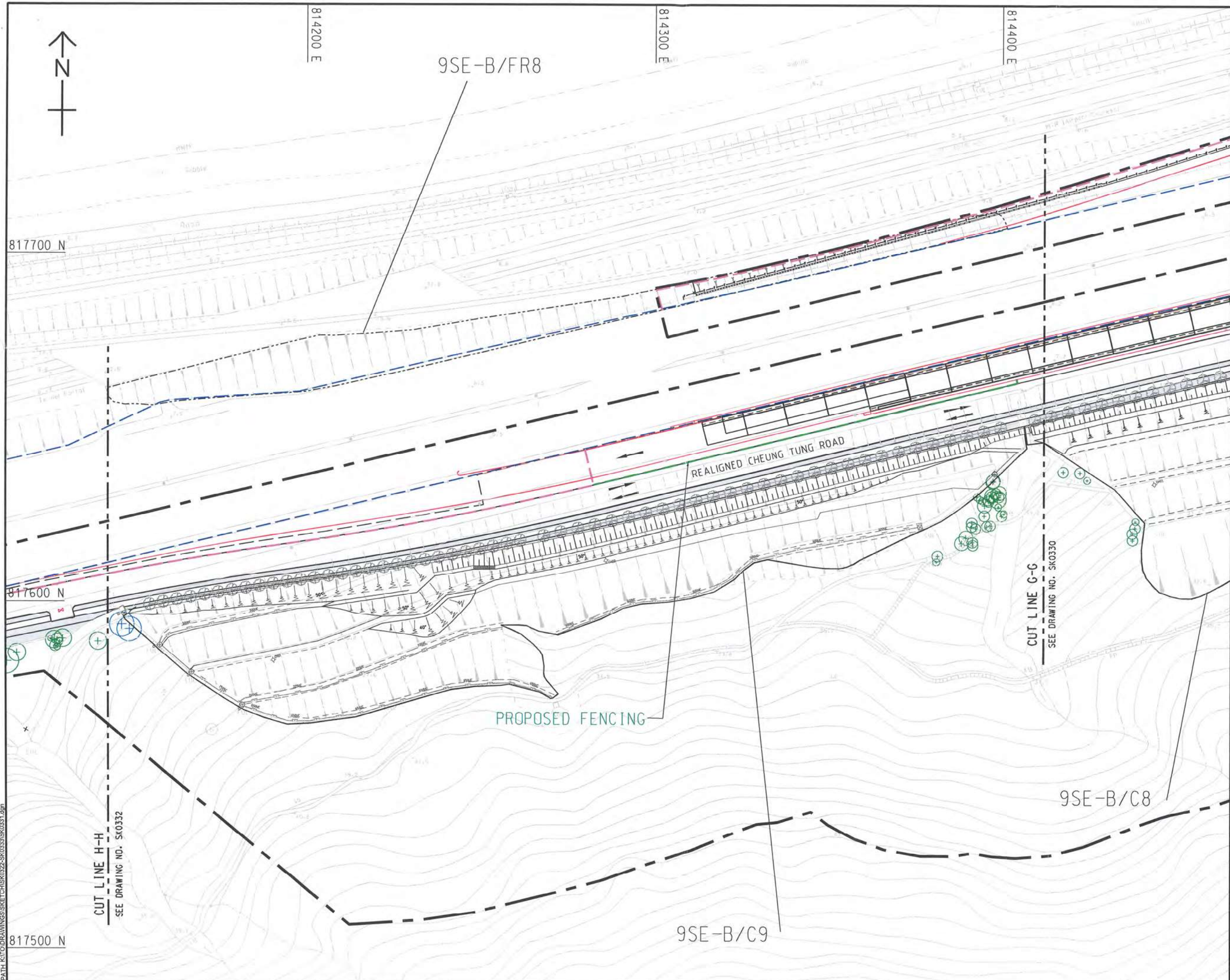
Drawn: CC [Signature] Prepared: GH [Signature] Approved: CL [Signature]

SKETCH NO.: SK0330 REV. A

Transplant tree collapsed in holding nursery after typhoon

Plot File by: RTOCT  
 PATH: K:\TD-DRAWINGS\SKETCH\SK0331-9\0331\0330.dgn  
 21-Dec-18





**NOTE:**

- ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

**LEGEND:**

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PIER MARK (B15)
- PROPOSED GROUNDCOVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RHA-EXC. 905.78m<sup>2</sup> SPECIES AREA(sq.m)
- PROPOSED TREE - MAINTENANCE UNDERTAKEN BY LCSD (CODE NOS.)
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY LCSD (NL0462)
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

CLIENT  
 路政署  
 HIGHWAYS DEPARTMENT  
 港珠澳大桥香港工務管理處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM** Imagine it. Delivered.

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
 PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)

SHEET 10 OF 12

DRAWING REFERENCE 60240249/C1/1746C	SCALE 1:1000 (A3)
DRAWN GC	PREPARED GH
SKETCH NO. SK0331	APPROVED CL

Plot File by: RT001 23-Jul-18 PATH: K:\DRAWINGS\SKETCH\SK0332-SK0333\SK0331.dgn





813900 E

814000 E

814100 E

817600 N

817500 N

NORTH LANTAU HIGHWAY

REALIGNED CHEUNG TUNG ROAD

CUT LINE H-H  
SEE DRAWING NO. SK0332

**NOTE:**

- 1. ROOT BARRIERS TO BE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.

**LEGEND:**

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PIER MARK (B15)
- PROPOSED GROUND COVER
- PROPOSED SHRUB
- PROPOSED GRASS
- RMA-EXC. 905.78m
- SPECIES AREA (sq.m)
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
- EXISTING TREE (APPROXIMATE LOCATION)
- PLANTING WORKS BY OTHERS

REV.	DATE	DESCRIPTION	DRAWN	PREL.	APP.
-	25-07-17	PLANTING ALONG CTR	GC	GH	CL

路政署  
HIGHWAYS DEPARTMENT  
港珠澳大橋香港工程管理有限公司  
Hong Kong - Zhuhai - Macao Bridge  
Hong Kong Project Management Office

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PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR CHEUNG TUNG ROAD (LCSD)**

SHEET 11 OF 12

DRAWING REFERENCE 60240249/C1/1746C	SCALE 1:1000 (A3)
DRAWN GC	PREPARED GH
SKETCH NO. SK0332	REV. -





赴冀洲  
TSE KAI CAU  
SIU HO WAN

HKBCF

DRAWING REFERENCE: APPROVED TREE REMOVAL APPLICATION  
UNDER AGREEMENT NO. CE7/2011(HY)  
SHEET NO. CP/021 TO CP/030

SITE BOUNDARY

VIADUCT D

VIADUCT C

VIADUCT B

VIADUCT A

SK0113

SK0006

SK0007

SK0008

SK0009

SK0010

SK0011

SK0012

SK0013

SK0014

SK0015

TUNG CHUNG

TUNG CHUI

大嶼灣  
TAI HO WAN

LANTAU NORTH  
(EXTENSION)  
COUNTRY PARK

大嶼  
TAI HO

B	10/07/15	FOR TRA (LCSD NO. 4)	YWK	GH	CL
A	05/03/14	SUPPLEMENTARY TRA	YWK	GH	CL
-	27/01/14	SUPPLEMENTARY TRA	KLH	GH	CL
REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.

CLIENT  
 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**




PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK  
 - SOUTHERN CONNECTION  
 VIADUCT SECTION**

TITLE  
**COMPENSATORY PLANTING PLAN**

DRAWING REFERENCE  
**60240249/C/1/1000A** SCALE  
**1:8000 (A1)**

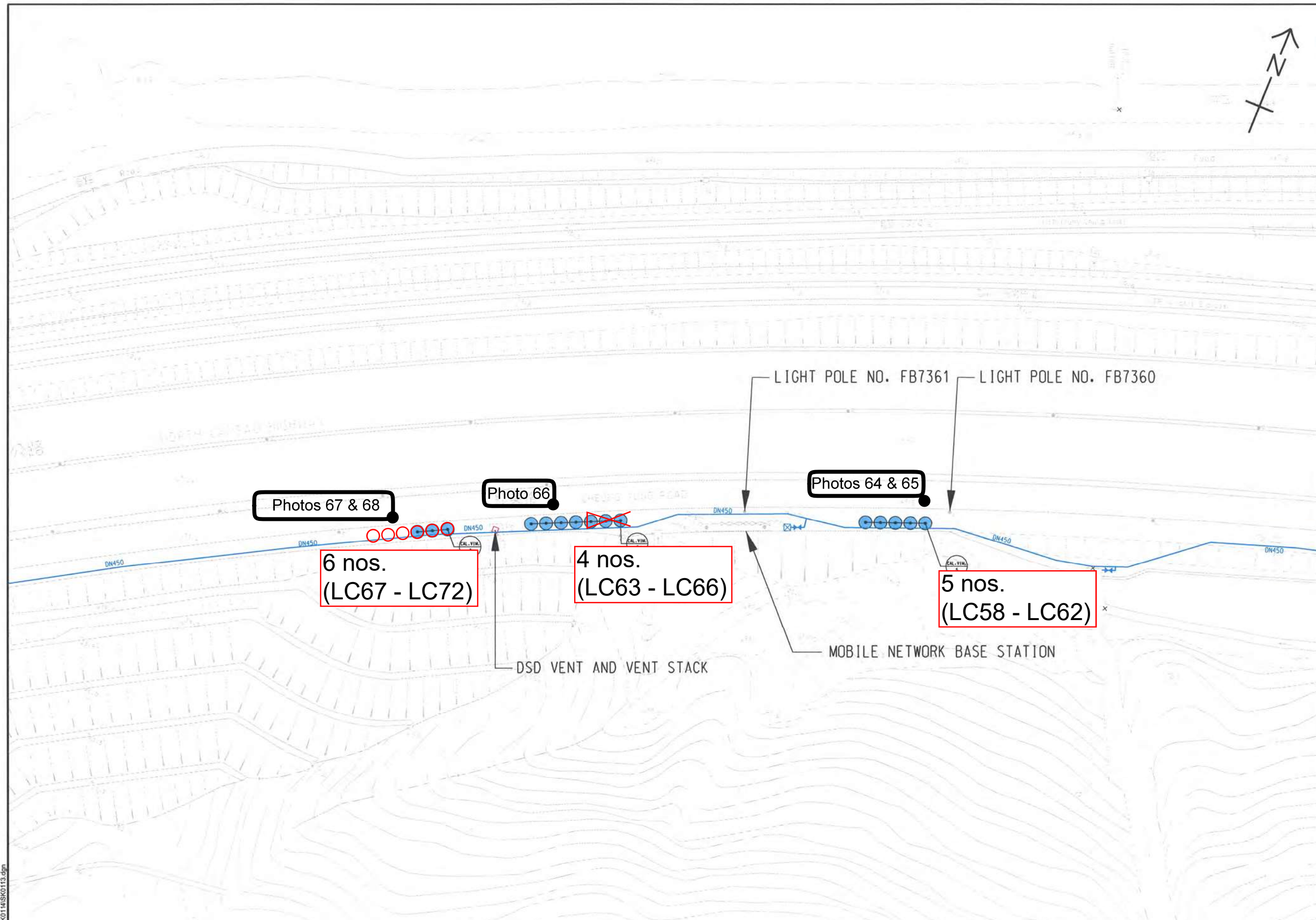
DRAWN  
 YWK  PREPARED  
 GH  APPROVED  
 CL 

SKETCH NO.  
**SK0005** REV.  
**B**



**LEGEND:**

NOS. OF COMPENSATORY TREE MAINTENANCE UNDERTAKEN BY LCSD (SUBJECT TO DETAILED DESIGN)  
 DN450 PROPOSED WATERMAIN (DN450)



REV.	DATE	DESCRIPTION	DRAWN	CHK	APP.
-	10/01/15	TRA FOR LCSD NO.4	YWK	GH	CL

CLIENT  

 路政署  
 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工程師管理處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
 TUEN MUN - CHEK LAP KOK LINK  
 CONTRACT NO.  
 HY/2012/07  
 CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
 COMPENSATORY PLANTING PLAN FOR TRA LCSD NO.4

DRAWING REFERENCE NEW DRAWING	SCALE 1:1000 (A3)
DRAWN YWK <i>Wing</i>	PREPARED GH <i>Huang</i>
SKETCH NO. SK0113	APPROVED CL <i>Chan</i>

- NOTES:**
- SETTING OUT OF COMPENSATORY TREE PLANTING TO ALIGN WITH EXISTING TREES.
  - SETTING OUT OF COMPENSATORY TREE PLANTING TO ADJUST ON SITE TO SUIT FOOTINGS OF DN450 WATERMAIN.

Plot File by: RTCC2  
 PATH: K:\TODDRAWINGS\NETCH\SK0113-SK0114\SK0113.dgn





- NOTES:**
1. THE PROPOSED PLANTING SPECIES AND ARRANGEMENT ON THE SOUTHERN LANDFALL SHALL FOLLOW THE GUIDELINES IN HONG KONG INTERNATIONAL AIRPORT APPROVED PLANT SPECIES LIST (REVISION 3.1: JUNE 2007), AS ATTACHED IN ER AREA 4.
  2. THE DRAWING SHALL BE READ IN CONJUNCTION WITH SHEET NOS. 60240249/C1/1741 TO 1746 AND 1771.

- LEGEND:**
- SITE BOUNDARY
  - AS-BUILT U-Channel
  - AS-BUILT MAINTENANCE ACCESS
  - AS-BUILT MAINTENANCE FOOTPATH
  - AS-BUILT SHRUB PLANTING
  - AS-BUILT ENGINEERING LAYOUT-VIADUCT
  - D19 PIER MARK
  - RHA.EXC. 905.78 m<sup>2</sup>  
SPECIES AREA(sq.m)
  - 10NW - C/F11 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS

**DRAFT**

Z	NOV/19	AS-CONSTRUCTED	CWY
REV.	DATE	DESCRIPTION	C.H.K.

CLIENT  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM** Imagine it. Delivered.

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

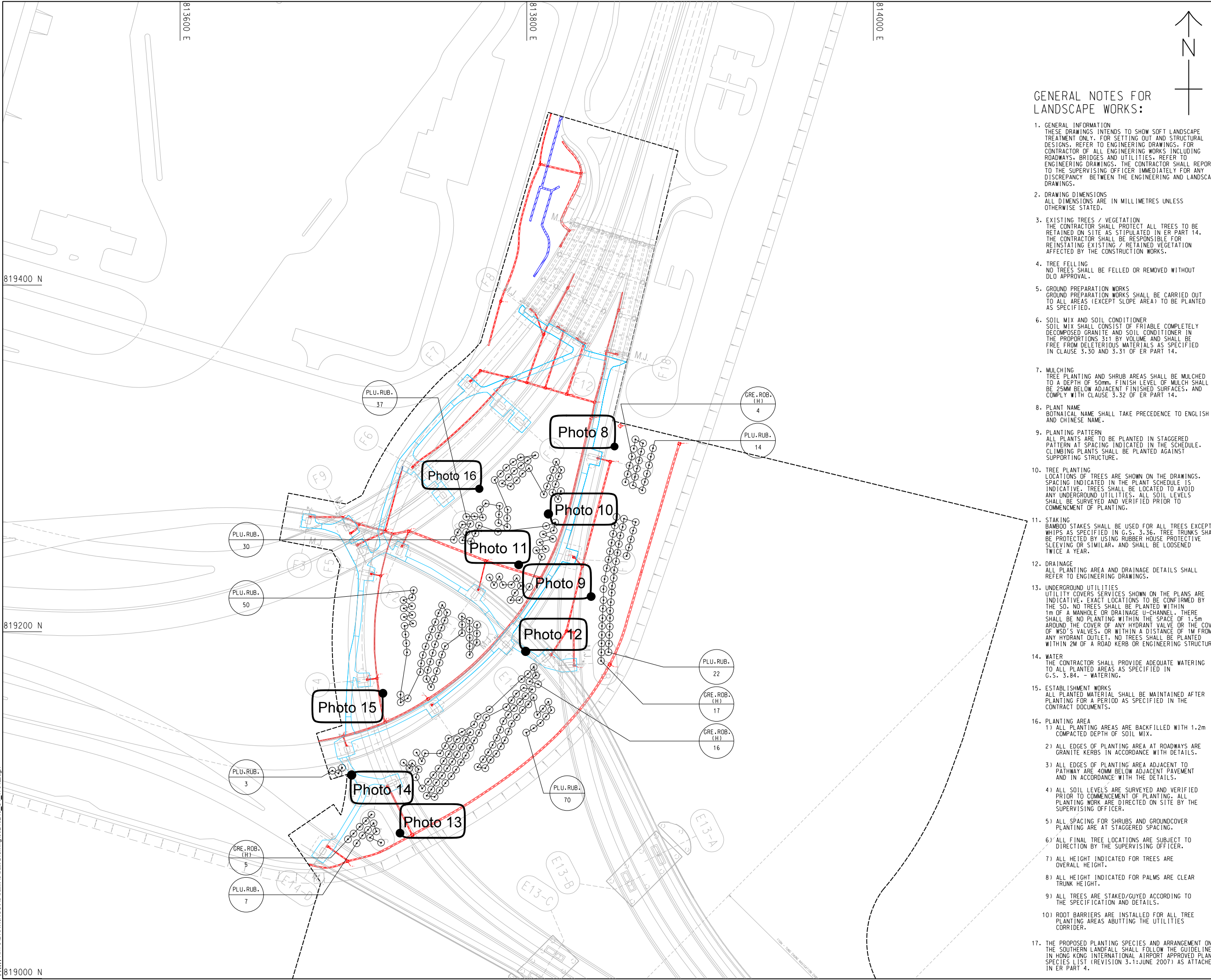
CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**SHRUB PLANTING PLAN**

SHEET 1 OF 6

STATUS	SCALE	
AS-BUILT DRAWING	1:1000 (A1) 1:2000 (A3)	
DRAWN	PREPARED	APPROVED
GC	GH	CL
DRAWING NO.	REV.	
60240249/C1/1741	Z	

Pk1 File by: RT0C1 21-Jan-20  
 PATH K:\TODDRAWINGS\As-built\As-built Drawing\60240249\_C1\_1741Z.dgn



- LEGEND:**
- SITE BOUNDARY
  - AS-BUILT U-Channel
  - AS-BUILT MAINTENANCE ACCESS
  - AS-BUILT MAINTENANCE FOOTPATH
  - AS-BUILT TREE
  - CODE NOS.
  - AS-BUILT ENGINEERING LAYOUT-VIADUCT
  - D19 PIER MARK
  - 10NW - C/F11 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS

**GENERAL NOTES FOR LANDSCAPE WORKS:**

1. GENERAL INFORMATION  
THESE DRAWINGS INTENDS TO SHOW SOFT LANDSCAPE TREATMENT ONLY. FOR SETTING OUT AND STRUCTURAL DESIGNS, REFER TO ENGINEERING DRAWINGS. FOR CONTRACTOR OF ALL ENGINEERING WORKS INCLUDING ROADWAYS, BRIDGES AND UTILITIES, REFER TO ENGINEERING DRAWINGS. THE CONTRACTOR SHALL REPORT TO THE SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
2. DRAWING DIMENSIONS  
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
3. EXISTING TREES / VEGETATION  
THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN ER PART 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING / RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.
4. TREE FELLING  
NO TREES SHALL BE FELLED OR REMOVED WITHOUT DLO APPROVAL.
5. GROUND PREPARATION WORKS  
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.
6. SOIL MIX AND SOIL CONDITIONER  
SOIL MIX SHALL CONSIST OF FRIABLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE FROM DELETERIOUS MATERIALS AS SPECIFIED IN CLAUSE 3.30 AND 3.31 OF ER PART 14.
7. MULCHING  
TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25MM BELOW ADJACENT FINISHED SURFACES, AND COMPLY WITH CLAUSE 3.32 OF ER PART 14.
8. PLANT NAME  
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
9. PLANTING PATTERN  
ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.
10. TREE PLANTING  
LOCATIONS OF TREES ARE SHOWN ON THE DRAWINGS. SPACING INDICATED IN THE SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
11. STAKING  
BAMBOO STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.36. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOUSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSENED TWICE A YEAR.
12. DRAINAGE  
ALL PLANTING AREA AND DRAINAGE DETAILS SHALL REFER TO ENGINEERING DRAWINGS.
13. UNDERGROUND UTILITIES  
UTILITY COVERS SERVICES SHOWN ON THE PLANS ARE INDICATIVE, EXACT LOCATIONS TO BE CONFIRMED BY THE SO. NO TREES SHALL BE PLANTED WITHIN 1m OF A MANHOLE OR DRAINAGE U-CHANNEL. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.5m AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF WSD'S VALVES, OR WITHIN A DISTANCE OF 1m FROM ANY HYDRANT OUTLET. NO TREES SHALL BE PLANTED WITHIN 2M OF A ROAD KERB OR ENGINEERING STRUCTURE.
14. WATER  
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84. - WATERING.
15. ESTABLISHMENT WORKS  
ALL PLANTED MATERIAL SHALL BE MAINTAINED AFTER PLANTING FOR A PERIOD AS SPECIFIED IN THE CONTRACT DOCUMENTS.
16. PLANTING AREA  
1) ALL PLANTING AREAS ARE BACKFILLED WITH 1.2m COMPACTED DEPTH OF SOIL MIX.  
2) ALL EDGES OF PLANTING AREA AT ROADWAYS ARE GRANITE KERBS IN ACCORDANCE WITH DETAILS.  
3) ALL EDGES OF PLANTING AREA ADJACENT TO PATHWAY ARE 40MM BELOW ADJACENT PAVEMENT AND IN ACCORDANCE WITH THE DETAILS.  
4) ALL SOIL LEVELS ARE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING. ALL PLANTING WORK ARE DIRECTED ON SITE BY THE SUPERVISING OFFICER.  
5) ALL SPACING FOR SHRUBS AND GROUND COVER PLANTING ARE AT STAGGERED SPACING.  
6) ALL FINAL TREE LOCATIONS ARE SUBJECT TO DIRECTION BY THE SUPERVISING OFFICER.  
7) ALL HEIGHT INDICATED FOR TREES ARE OVERALL HEIGHT.  
8) ALL HEIGHT INDICATED FOR PALMS ARE CLEAR TRUNK HEIGHT.  
9) ALL TREES ARE STAKED/GUYED ACCORDING TO THE SPECIFICATION AND DETAILS.  
10) ROOT BARRIERS ARE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.
17. THE PROPOSED PLANTING SPECIES AND ARRANGEMENT ON THE SOUTHERN LANDFALL SHALL FOLLOW THE GUIDELINES IN HONG KONG INTERNATIONAL AIRPORT APPROVED PLANT SPECIES LIST (REVISION 3.1: JUNE 2007) AS ATTACHED IN ER PART 4.

**DRAFT**

REV.	DATE	DESCRIPTION	C.H.K.
Z	NOV/19	AS-CONSTRUCTED	CWY

CLIENT  
**路政署 HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM** Imagine it. Delivered.

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

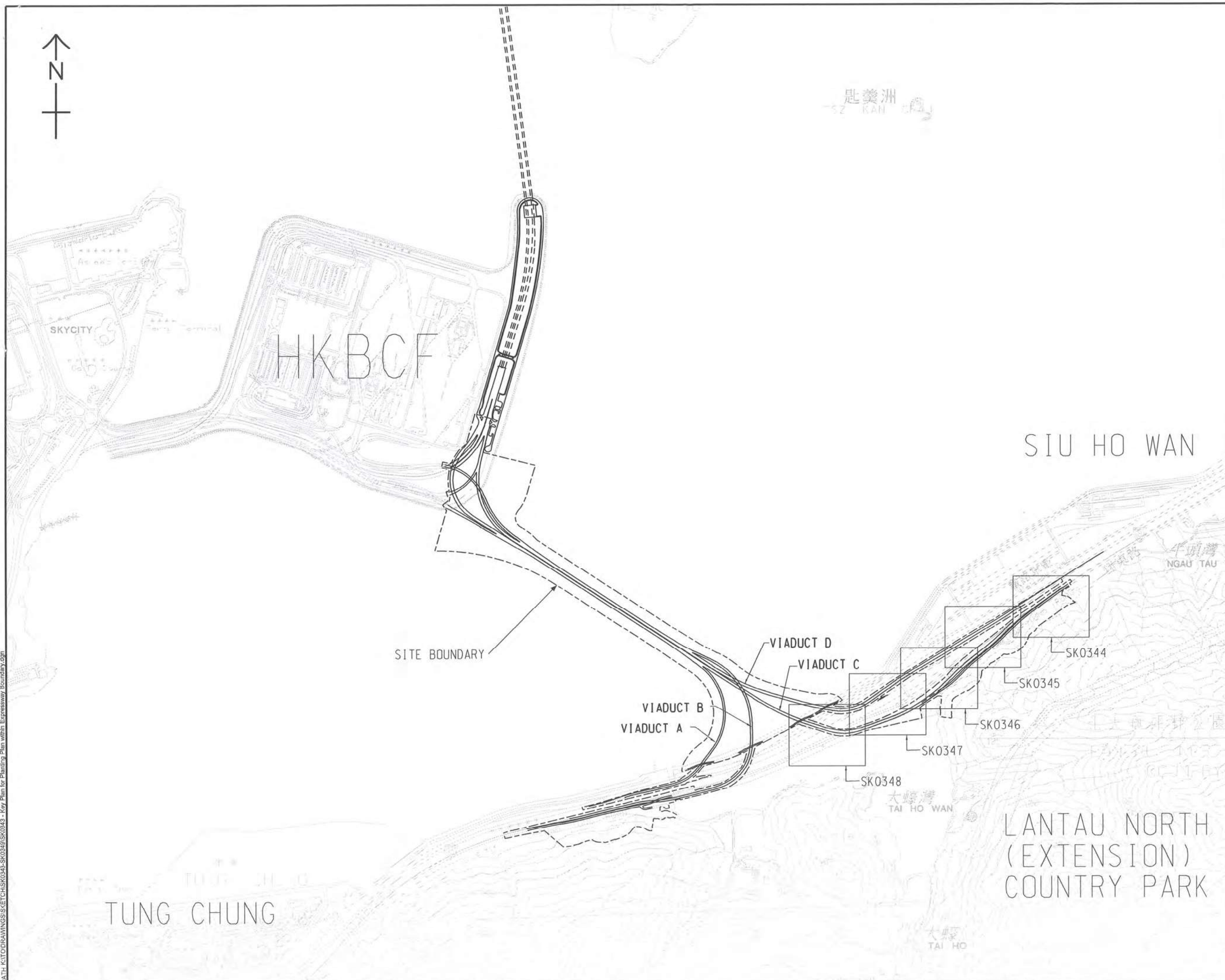
CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**TREE PLANTING PLAN**

STATUS AS-BUILT DRAWING		SCALE 1:1000 (A1) 1:2000 (A3)	
DRAWN GC	PREPARED GH	APPROVED CL	
DRAWING NO. 60240249/C1/1751			REV. Z





Plot File: RTCC1  
 Path: K:\TDR\DRAWINGS\SET\CHN\SK0343-SK0349\SK0343 - Key Plan for Planting Plan within Expressway Boundary.dgn  
 21-Mar-18

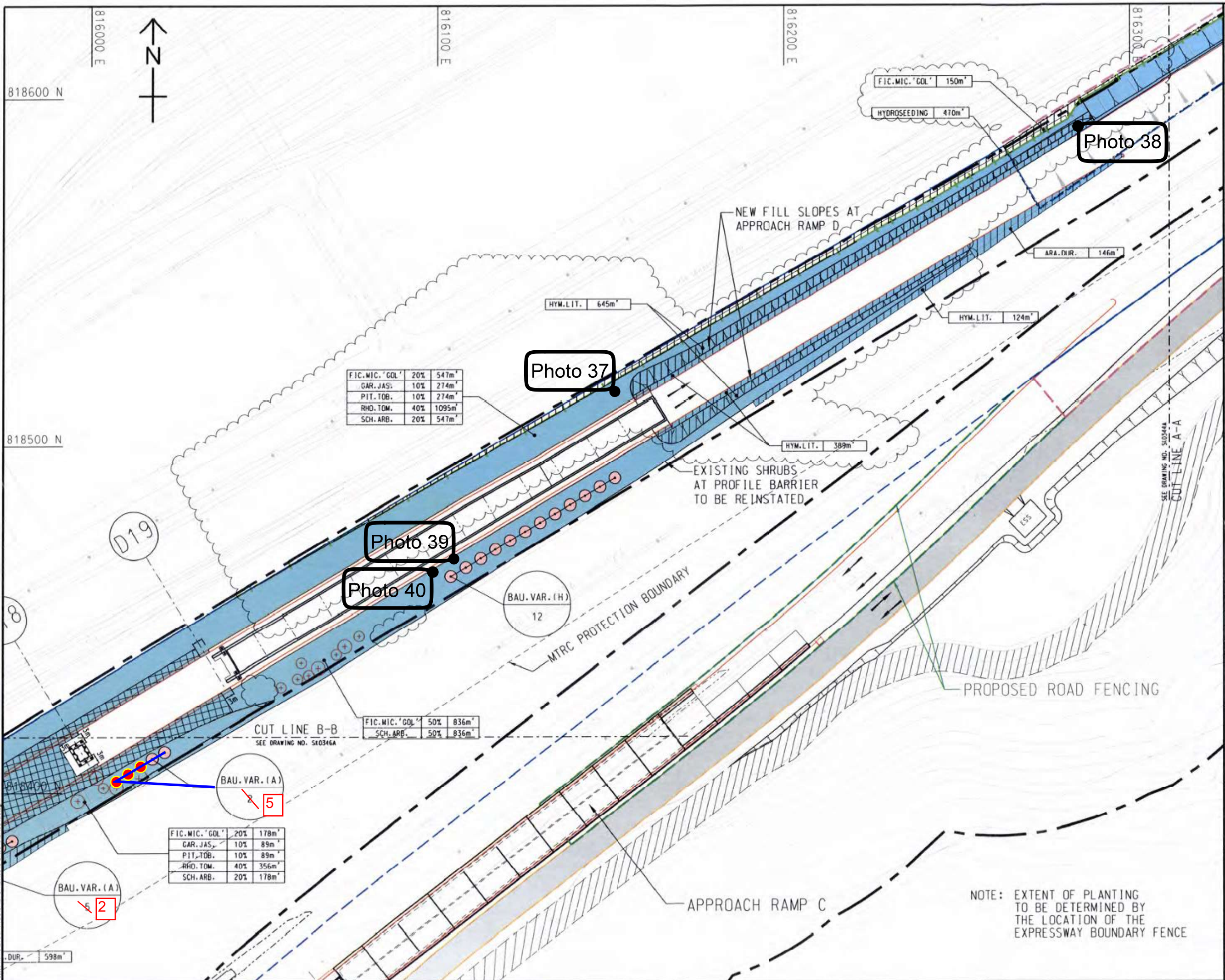
REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	23/03/18	KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON ROAD) VIADUCT D	GC	CH	CL
CLIENT					
<b>HIGHWAYS DEPARTMENT</b> 路政署 港珠澳大橋香港工程管理有限公司 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office					
PROJECT					
<b>AECOM</b> TUEN MUN - CHEK LAP KOK LINK					
CONTRACT NO.					
HY/2012/07					
CONTRACT TITLE					
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION					
TITLE					
KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON ROAD) VIADUCT D					
DRAWING REFERENCE					
60240249/C1/1000A					
SCALE: 1:8000 (A1) 1:16000 (A3)					
DRAWN	PREPARED	APPROVED			
GC	CH	CL			
SKETCH NO.	REV.				
SK0343	-				

SHEET 1 OF 7









- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (D19) PIER MARK
  - Y Y Y PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED PLANTING MAINTENANCE UNDERTAKEN BY MTR
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

FIC.MIC.'GOL'	20%	547m'
GAR.JAS.	10%	274m'
PIT.TOB.	10%	274m'
RHD.TOM.	40%	1095m'
SCH.ARB.	20%	547m'

FIC.MIC.'GOL'	50%	836m'
SCH.ARB.	50%	836m'

FIC.MIC.'GOL'	20%	178m'
GAR.JAS.	10%	89m'
PIT.TOB.	10%	89m'
RHD.TOM.	40%	356m'
SCH.ARB.	20%	178m'

C	27-08-18	PLANTING REVISED	GC	GH	CL
B	02-05-18	PLANTING REVISED	GC	GH	CL
A	19-04-18	PLANTING AND LEGEND REVISED	GC	GH	CL
-	23-03-18	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D	GC	GH	CL
REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.

CLIENT  
 路政署  
 HIGHWAYS DEPARTMENT  
 香港及澳門公路局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**  
 CONTRACT NO.  
**HY/2012/07**  
 CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

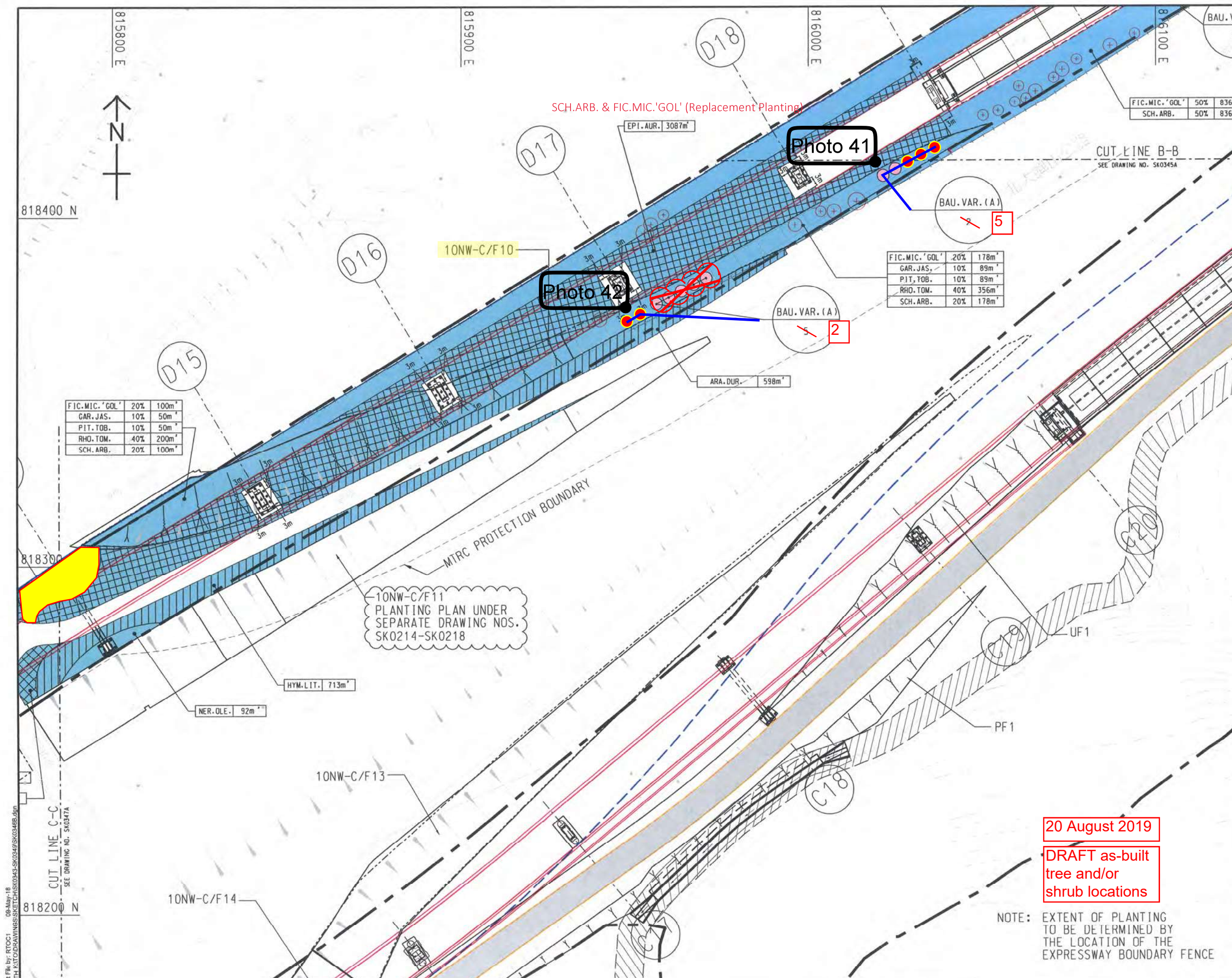
TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D**  
 SHEET 3 OF 7

DRAWING REFERENCE	SCALE
60240249/C1/1754B	1:500 (A1) 1:1000 (A3)
DRAWN	APPROVED
GC	CL
SKETCH NO.	REV.
SK0345	C

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

Plot File by: RSTOCT1  
 PATH: K:\DRAWINGS\SET\CH\1816000E-SK0345-SK0345C.dgn





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - PIER MARK
  - YYY PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED TREE - MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

FIC.MIC.'GOL'	20%	178m'
GAR.JAS.	10%	89m'
P.IT.TOB.	10%	89m'
RHO.TOM.	40%	356m'
SCH.ARB.	20%	178m'

B	09-05-18	GENERAL AMENDMENT	GC	GH	CL
A	19-04-18	PLANTING AND LEGEND REVISED	GC	GH	CL
-	23-01-18	PLANTING PLAN FOR NORTH LANTAU (KOWLOON BOUND) VIADUCT D	GC	GH	CL

CLIENT  

 路政署  
 HIGHWAYS DEPARTMENT  
 港務局大橋及橋樑工程管理處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
 TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
 PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D

DRAWING REFERENCE  
 60240249/C1/1754B  
 SCALE 1:500 (A1)  
 1:1000 (A3)

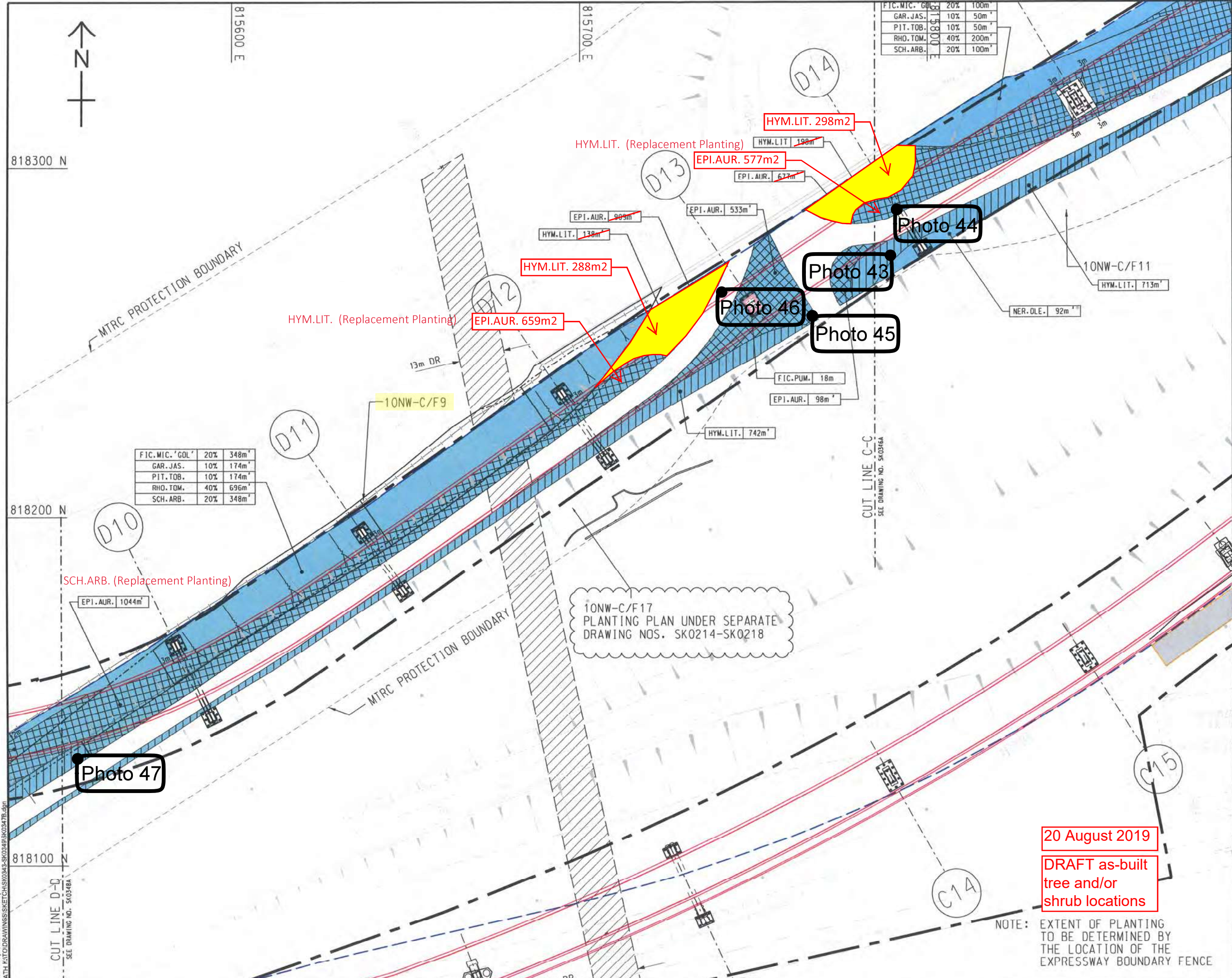
SKETCH NO. SK0346  
 REV. B

20 August 2019  
 DRAFT as-built tree and/or shrub locations

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

Plot File by: RT0C1  
 PATH: K:\IT\DRAWINGS\SKETCH\030343-SK0344\SK0346B.dgn





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (D19) PIER MARK
  - Y Y Y PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
  - (C) PROPOSED TREE - MAINTENANCE UNDERTAKEN BY HyD
  - (+ NL0402) PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY HyD
  - (+ NL0402) PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
  - (+ (+)) EXISTING TREE (APPROXIMATE LOCATION)

B	09-05-18	GENERAL AMENDMENT	GC	GH	CL
A	19-04-18	PLANTING AND LEGEND REVISED	GC	GH	CL
-	23-03-18	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D	GC	GH	CL

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
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CLIENT  

 路政署  
 HIGHWAYS DEPARTMENT  
 港務局大橋及港工管理處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D**

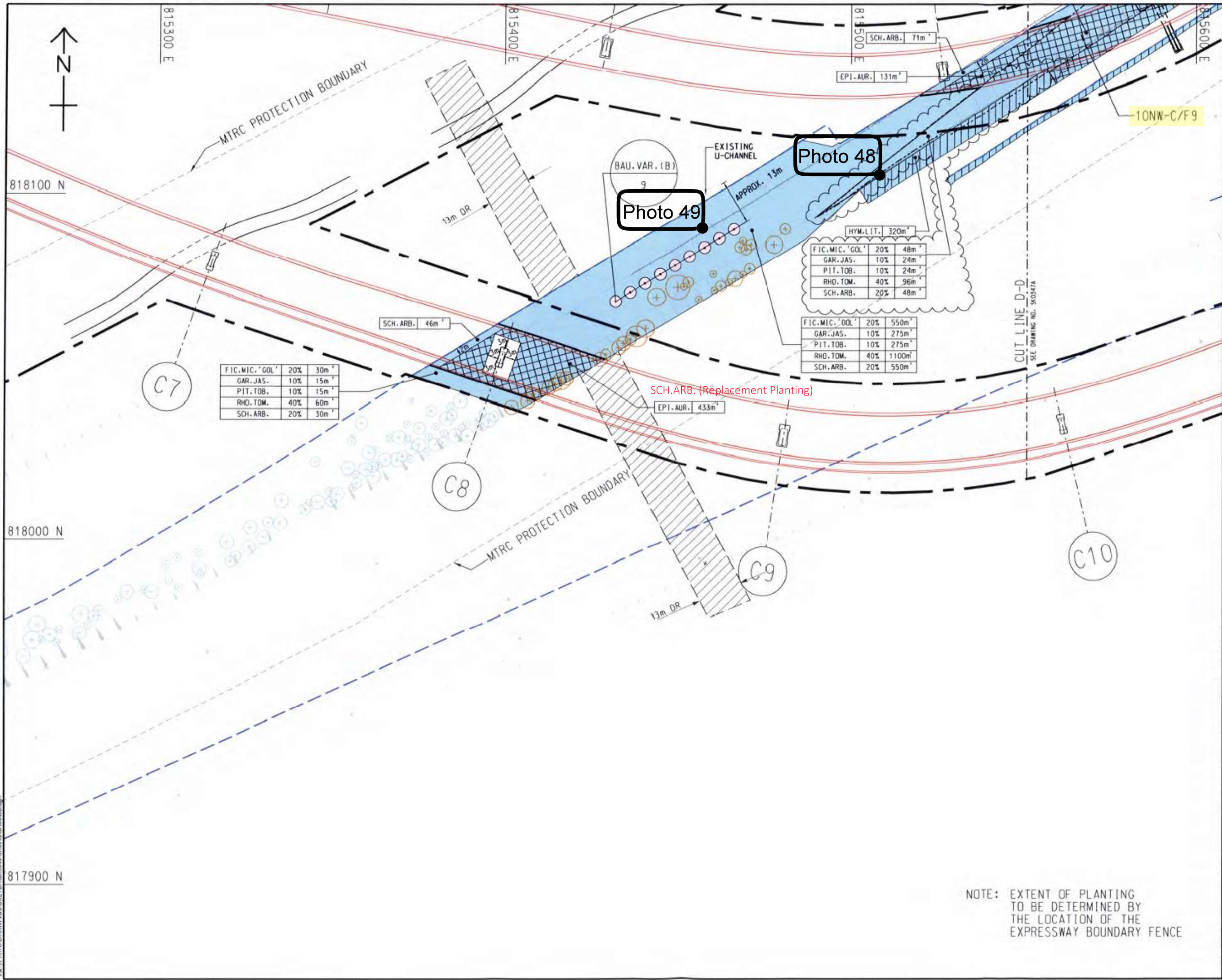
DRAWING REFERENCE 60240249/C1/1755B	SCALE 1:500 (A1) 1:1000 (A3)
DRAWN GC	PREPARED GH
APPROVED CL	REV. B
SKETCH NO. SK0347	

**20 August 2019**  
**DRAFT as-built tree and/or shrub locations**

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

Plot File: RTCC1\_09-Min-18  
 PATH: K:\D\DRAWINGS\SKETCH\SK0347\SK0347B.dgn





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - SSS - 0/170
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (D19) PIER MARK
  - Y Y Y PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED TREE MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

FIC. MIC. 'GOL'	20%	30m'
GAR. JAS.	10%	15m'
PIT. TOB.	10%	15m'
RHD. TOM.	40%	60m'
SCH. ARB.	20%	30m'

FIC. MIC. 'GOL'	20%	48m'
GAR. JAS.	10%	24m'
PIT. TOB.	10%	24m'
RHD. TOM.	40%	96m'
SCH. ARB.	20%	48m'

FIC. MIC. 'GOL'	20%	550m'
GAR. JAS.	10%	275m'
PIT. TOB.	10%	275m'
RHD. TOM.	40%	1100m'
SCH. ARB.	20%	550m'

Photo 49

Photo 48

SCH. ARB. (Replacement Planting)

CUT LINE D-D  
SEE DRAWING NO. SK0347A

B	24-08-18	PLANTING REVISED	CC	GH	CL
A	15-04-18	PLANTING AND LEGEND REVISED	CC	GH	CL
-	23-03-18	PLANTING PLAN FOR NORTH LANTAU HIGHWAY VIADUCT SECTION (KOWLOON BOUND)	CC	GH	CL
REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.

CLIENT  
**HIGHWAYS DEPARTMENT**  
 香港路政署  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (KOWLOON BOUND) VIADUCT D**

SHEET 6 OF 7

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

DRAWING REFERENCE	SCALE 1:500 (A1)	
60240249/C1/1756B	1:1000 (A3)	
DRAWN	PREPARED	APPROVED
CC	GH	CL
SKETCH NO.	REV.	
SK0348	B	





匙莪洲  
TSZ KAN

HKBCF

SIU HO WAN

SITE BOUNDARY

VIADUCT A  
VIADUCT B

VIADUCT D

VIADUCT C

SK0215  
SK0216  
SK0217

TAI HO WAN

LANTAU NORTH  
(EXTENSION)  
COUNTRY PARK

TUNG CHUNG

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	19/01/17	KEY PLAN OF PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17	KYL	GH	CL

路政署  
HIGHWAYS DEPARTMENT  
香港橋樑及道路工程署  
Hong Kong - Zhuhai - Macao Bridge  
Hong Kong Project Management Office



PROJECT  
TUEN MUN -  
CHEK LAP KOK LINK

CONTRACT NO.  
HY/2012/07

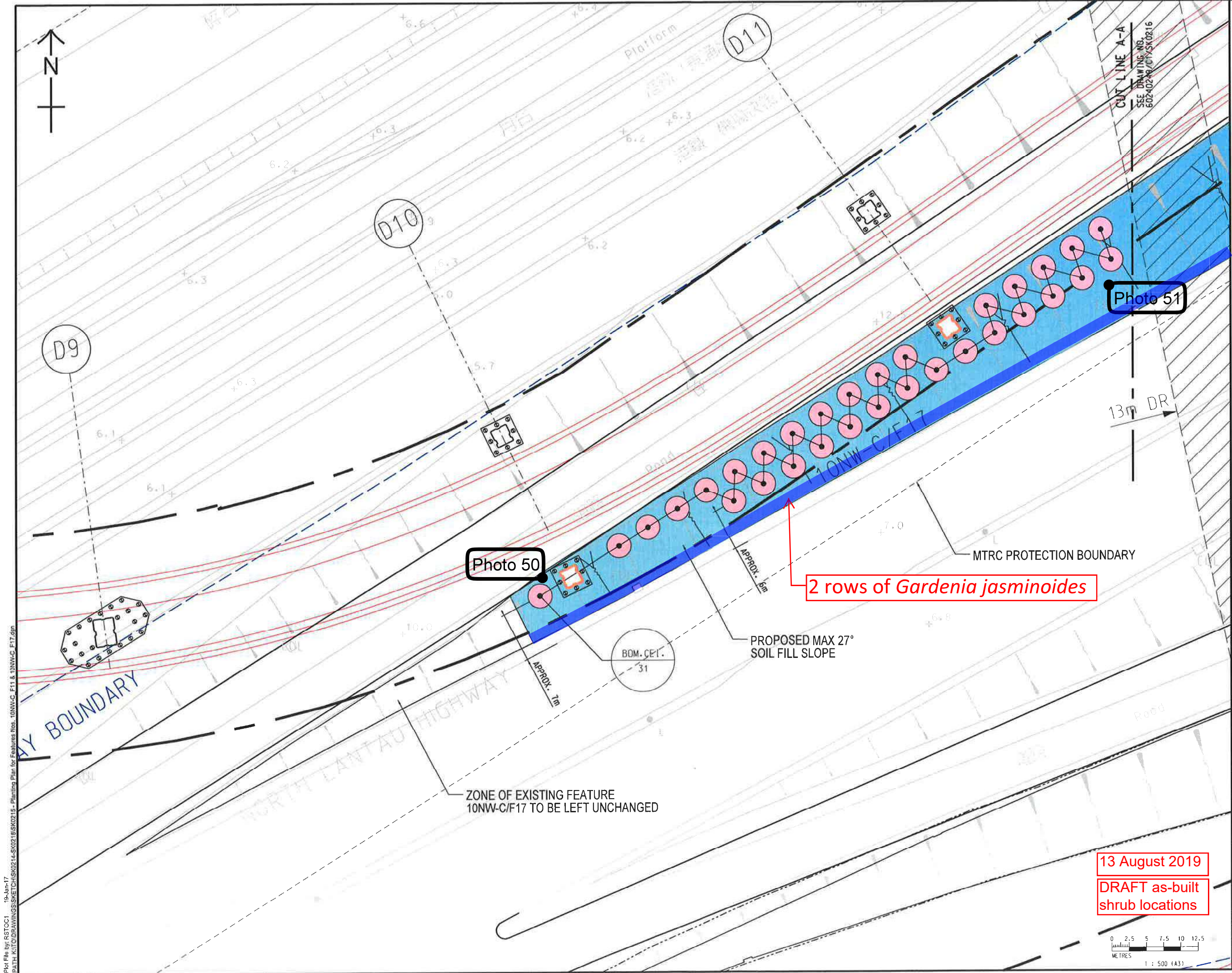
CONTRACT TITLE  
TUEN MUN - CHEK LAP KOK LINK  
- SOUTHERN CONNECTION  
VIADUCT SECTION

TITLE  
KEY PLAN OF PLANTING PLAN  
FOR FEATURE NOS 10NW-C/F11  
AND 10NW-C/F17

DRAWING REFERENCE 60240249/C1/1000A		SCALE 1:8000 (A1) 1:16000 (A3)	
DRAWN KYL	PREPARED GH	APPROVED CL	REV. -
SKETCH NO. SK0214			REV. -

Plot File by: RSTOC1 19-Jan-17  
PATH: K:\DRAWINGS\SKETCH\SK0214-SK0218\SK0214 - Key Plan for Planting Plan of Feature Nos. 10NW-C/F11 & 10NW-C/F17.dgn





- NOTES:**
- SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE CONDITIONS OF THE SLOPES.
  - THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SDR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
  - THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0218

- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (C9) PIER MARK
  - Y Y Y PROPOSED MAX 27° SOIL FILL SLOPE
  - PROPOSED SHRUB MIX
  - (C) PROPOSED TREE - MAINTENANCE UNDERTAKEN BY HYD
  - (C) PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT - MAINTENANCE UNDERTAKEN BY HYD
  - (+) (+) (+) (+) EXISTING TREE

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	19-01-17	PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17	KYL	CH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 香港公路局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

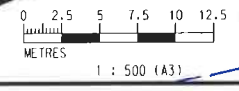
CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17**

SHEET 2 OF 5

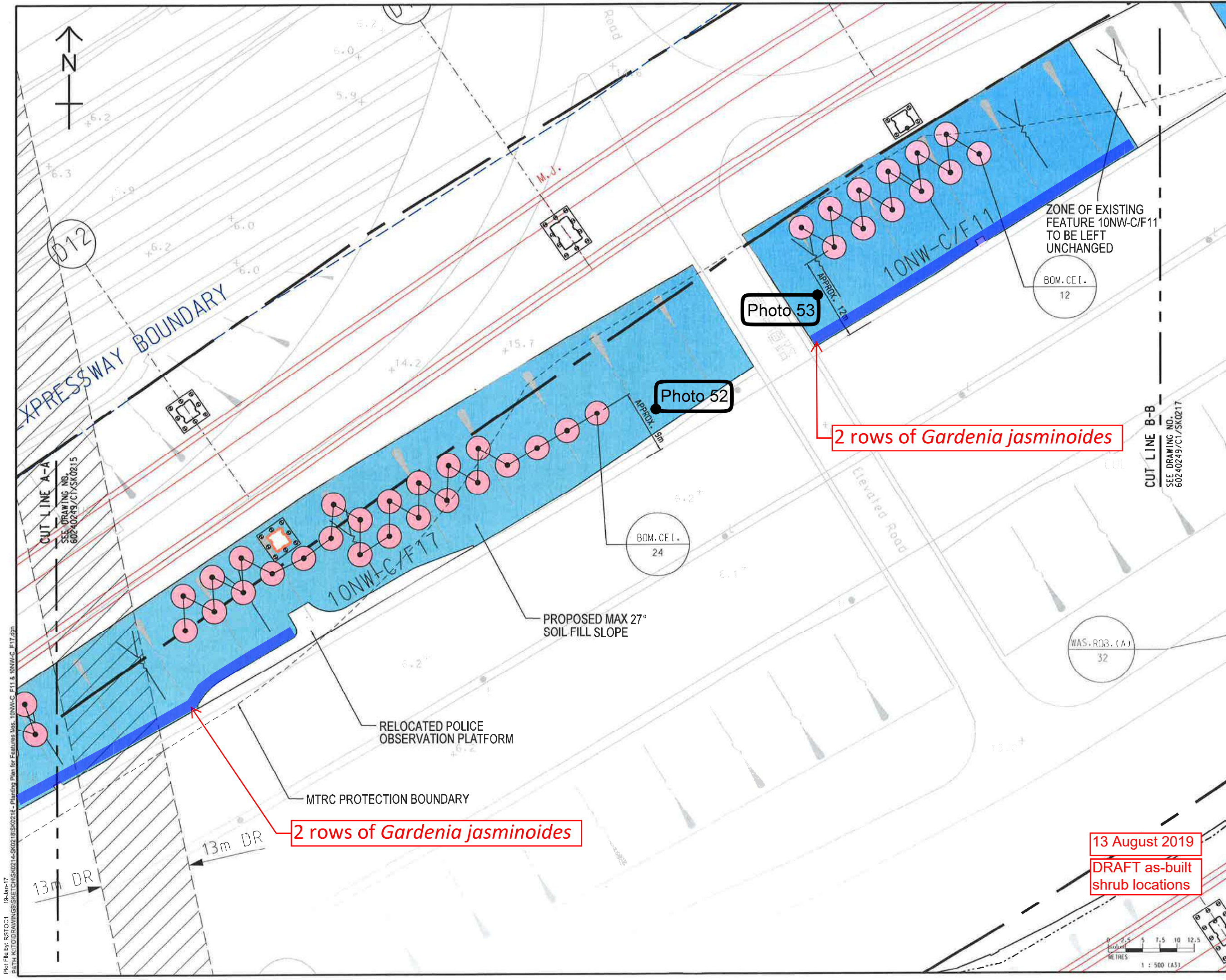
DRAWING REFERENCE 60240249/C1/1743B	SCALE 1:250 (A1) 1:500 (A3)
DRAWN KYL	APPROVED CH
SKETCH NO. SK0215	REV. -

**13 August 2019**  
**DRAFT as-built shrub locations**



Plot File by: RSTOC1 19-Jan-17 PATH K:\DRAWINGS\SS\KETCH\SK0214-SK0218\SK0215 - Planting Plan for Features Nos. 10NW-C/F11 & 10NW-C/F17.dgn





- NOTES:**
1. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE CONDITIONS OF THE SLOPES.
  2. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SDR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
  3. THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0218

- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - SSE - D/F70 EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (C9) PIER MARK
  - Y Y Y PROPOSED MAX 27° SOIL FILL SLOPE
  - PROPOSED SHRUB MIX
  - PROPOSED TREE - MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT - MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	19-01-17	PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 路政署  
 香港機場管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17**

SHEET 3 OF 5

DRAWING REFERENCE 60240249/C1/1743B	SCALE 1:250 (A1) 1:500 (A3)
DRAWN KYL	APPROVED GH
SKETCH NO. SK0216	REV. -

13 August 2019  
**DRAFT as-built shrub locations**

**2 rows of Gardenia jasminoides**

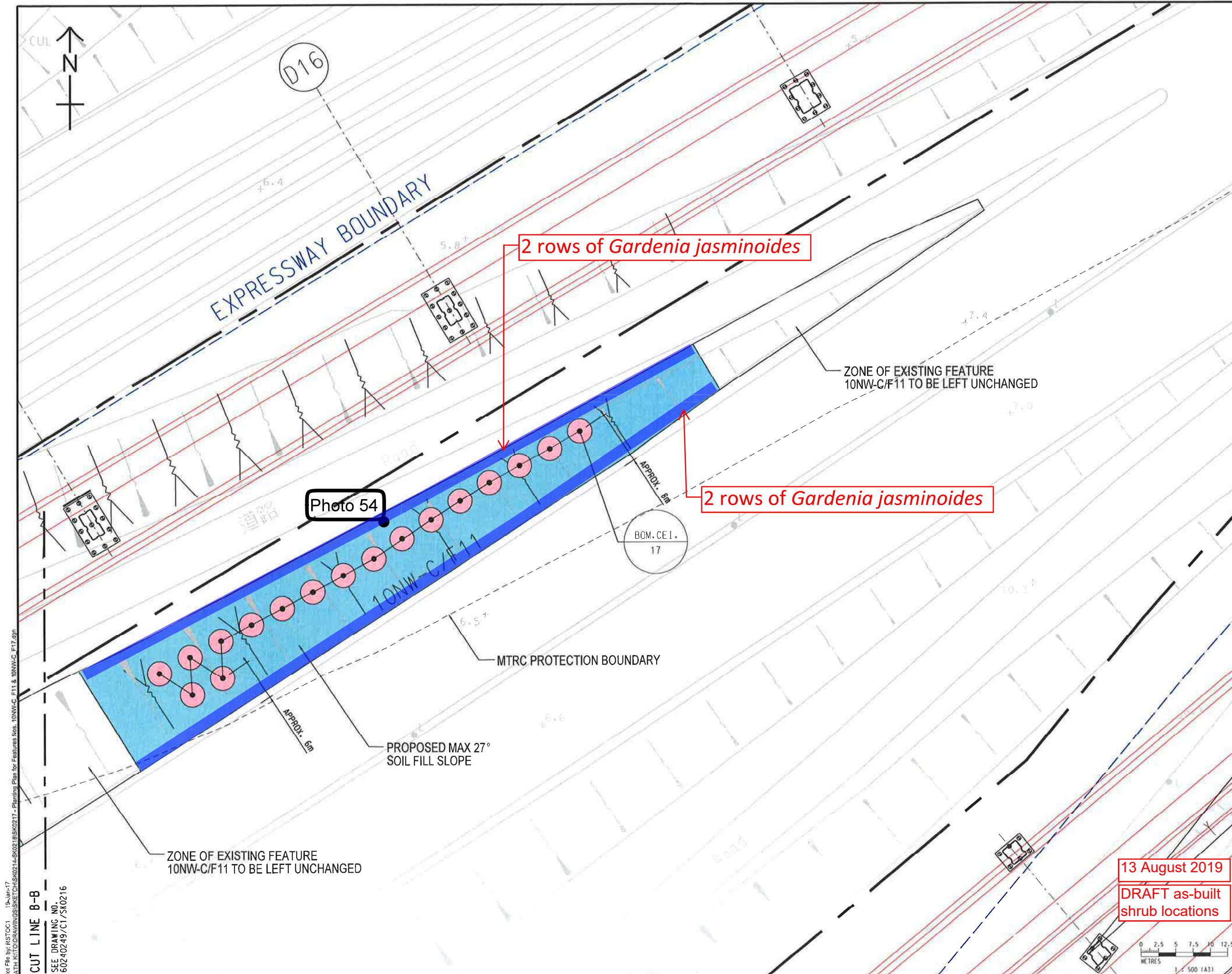
**2 rows of Gardenia jasminoides**

Photo 53

Photo 52

Plot File by: RSTOC1 19-Jan-17 PATH: K:\TOD\DRAWINGS\SKETCH\SK0216-Planting Plan for Features Nos. 10NW-C/F11 & 10NW-C/F17.dgn





- NOTES:**
1. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE CONDITIONS OF THE SLOPES.
  2. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
  3. THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0218

- LEGEND:**
- SITE BOUNDARY
  - - - EXISTING EXPRESSWAY BOUNDARY
  - - - PROPOSED EXPRESSWAY BOUNDARY
  - SSe - D/F10 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - C9 PIER MARK
  - Y Y Y PROPOSED MAX 27° SOIL FILL SLOPE
  - PROPOSED SHRUB MIX
  - PROPOSED TREE - MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT, MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	19-01-17	PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 路政署  
 香港鐵路有限公司  
 香港 - 珠海 - 澳門大橋  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR FEATURE NOS. 10NW-C/F11 AND 10NW-C/F17**

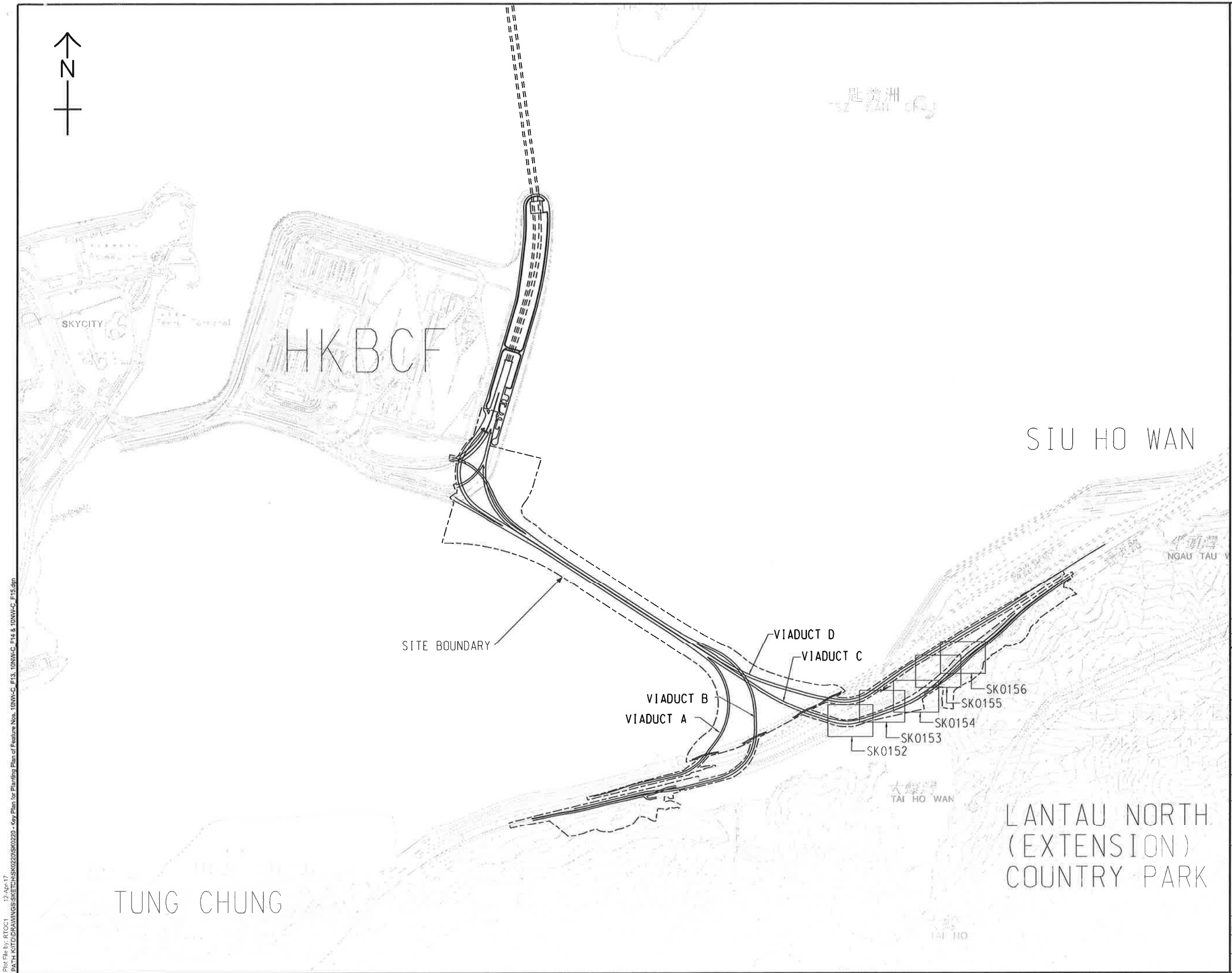
SHEET 4 OF 5

DRAWING REFERENCE 60240249/C1/1743B	SCALE 1:250 (A1) 1:500 (A3)
DRAWN KYL	APPROVED GH
SKETCH NO. SK0217	REV. --

**13 August 2019**  
**DRAFT as-built**  
**shrub locations**

Plot File: RSTOC1\_19-Jan-17  
 PATH: K:\TO\DRAWINGS\SKETCH\SK0217 - Planting Plan for Features Nos. 10NW-C/F11 & 10NW-C/F17.dgn  
**CUT LINE B-B**  
 SEE DRAWING NO.  
 60240249/C1/SK0216





Plot File by: RT001 12-Apr-17  
 PATH: K:\TO\DRAWINGS\SKETCH\HK0220\SK0220 - Key Plan for Planting Plan of Feature Nos. 10NW-C, F14 & 10NW-C, F15.dgn

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	12/04/17	KEY PLAN OF PLANTING PLAN FOR FEATURE NOS. 10NW-C/F14 AND 10NW-C/F15	GC	CH	CL

CLIENT  

**HIGHWAYS DEPARTMENT**  
 港務局  
 港務局大橋香港工程管理有限公司  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office





**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

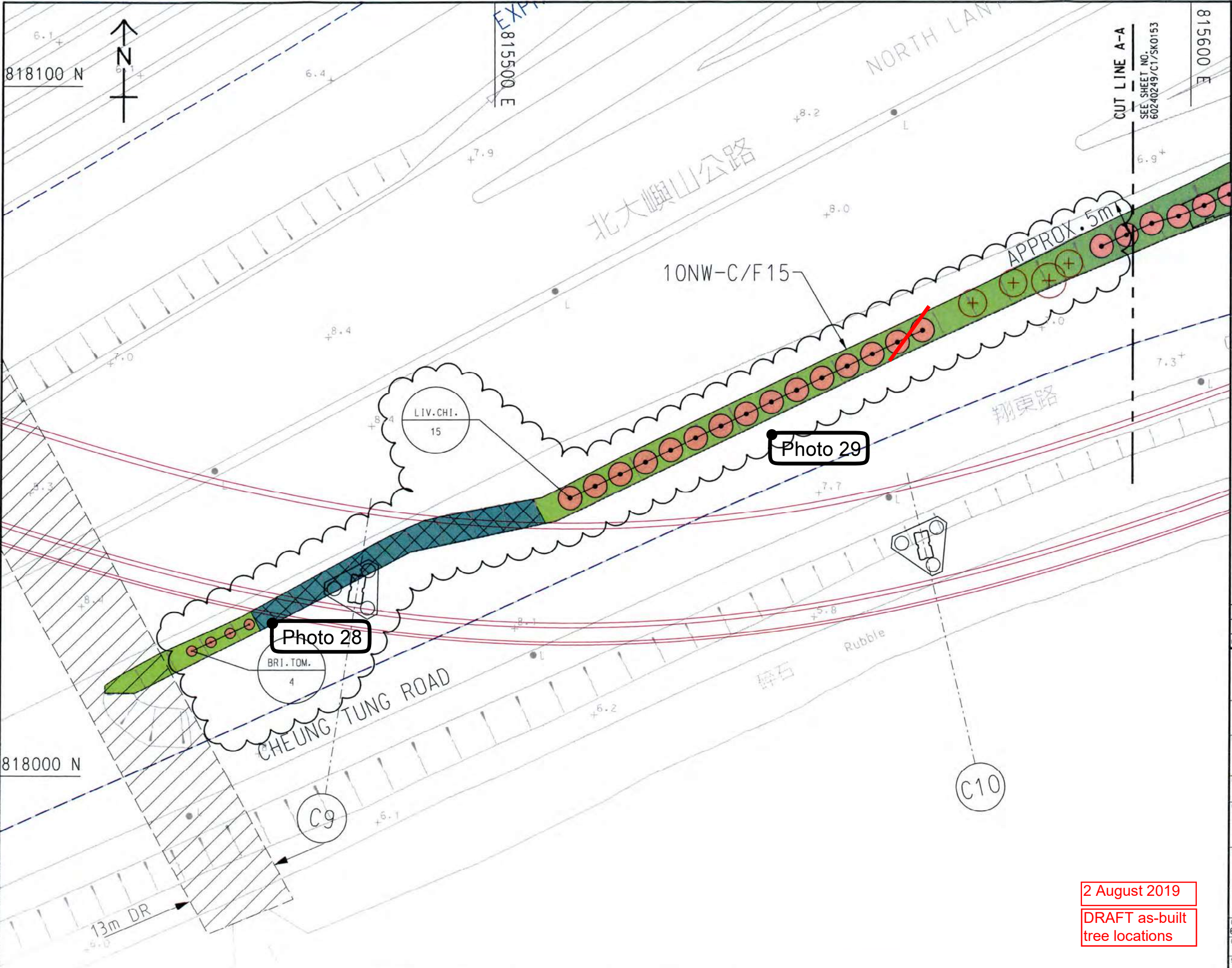
CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**KEY PLAN OF PLANTING PLAN FOR FEATURE NOS. 10NW-C/F14 AND 10NW-C/F15**

DRAWING REFERENCE 60240249/C1/1000A	SCALE 1:8000 (A1) 1:16000 (A3)
DRAWN GC 	PREPARED CH 
SKETCH NO. SK0220	APPROVED CL 
	REV. -





- LEGEND:**
- SITE BOUNDARY
  - - - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - 5SE - D/F70 EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - C9 PIER MARK
  - PROPOSED MAX 50° SOILCUT SLOPE
  - PROPOSED HYDROSEEDING
  - ▨ PROPOSED CLIMBER MIX
  - PROPOSED TREE - MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE - MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OF VIADUCT - MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
A	11-07-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	03-01-17	PLANTING ON SLOPES	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 香港路政署  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR FEATURE NOS. 10NW-C/F 13, 10NW-C/F 14 AND 10NW-C/F 15**

SHEET 1 OF 5

DRAWING REFERENCE 60240249/C1/1743B	SCALE 1:250 (A1) 1:500 (A3)
DRAWN KYL	APPROVED CL
SKETCH NO. SK0152	REV. A

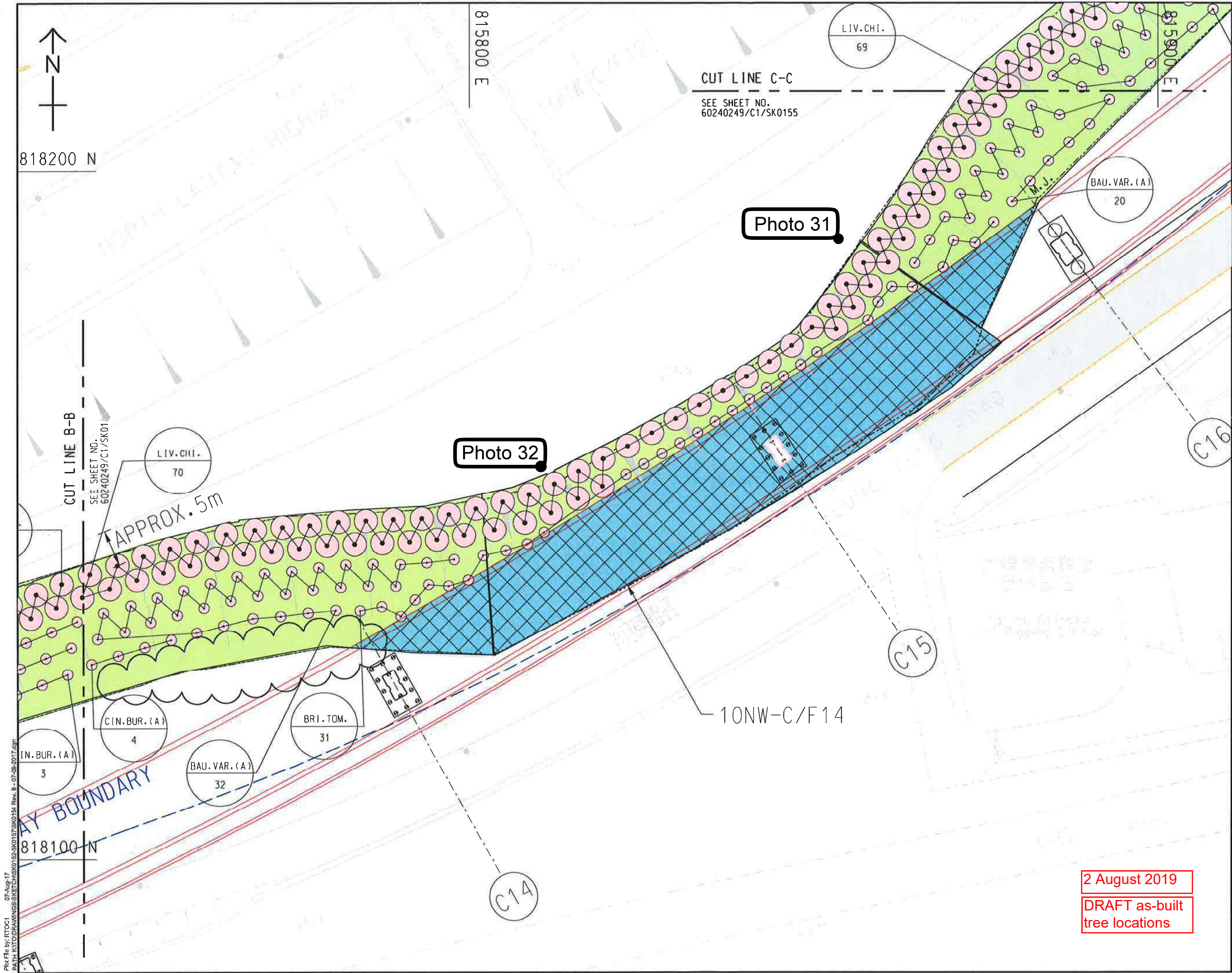
2 August 2019  
 DRAFT as-built  
 tree locations

Plot File by: RSTDC1 13-Jul-17  
 PATH: K:\DRAWINGS\SPRINT\CHS\0152-SK0152\SK0152.dgn









- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - 5SE - 0/F10 EXISTING SJMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - C9 PIER MARK
  - PROPOSED MAX 50° SOILCUT SLOPE
  - PROPOSED HYDROSEEDING
  - PROPOSED CLIMBER MIX
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OF VIADUCT, MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	07-08-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
A	11-07-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	03-01-17	PLANTING ON SLOPES	KYL	GH	CL

CLIENT  
 路政署  
 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR FEATURE NOS. 10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15**

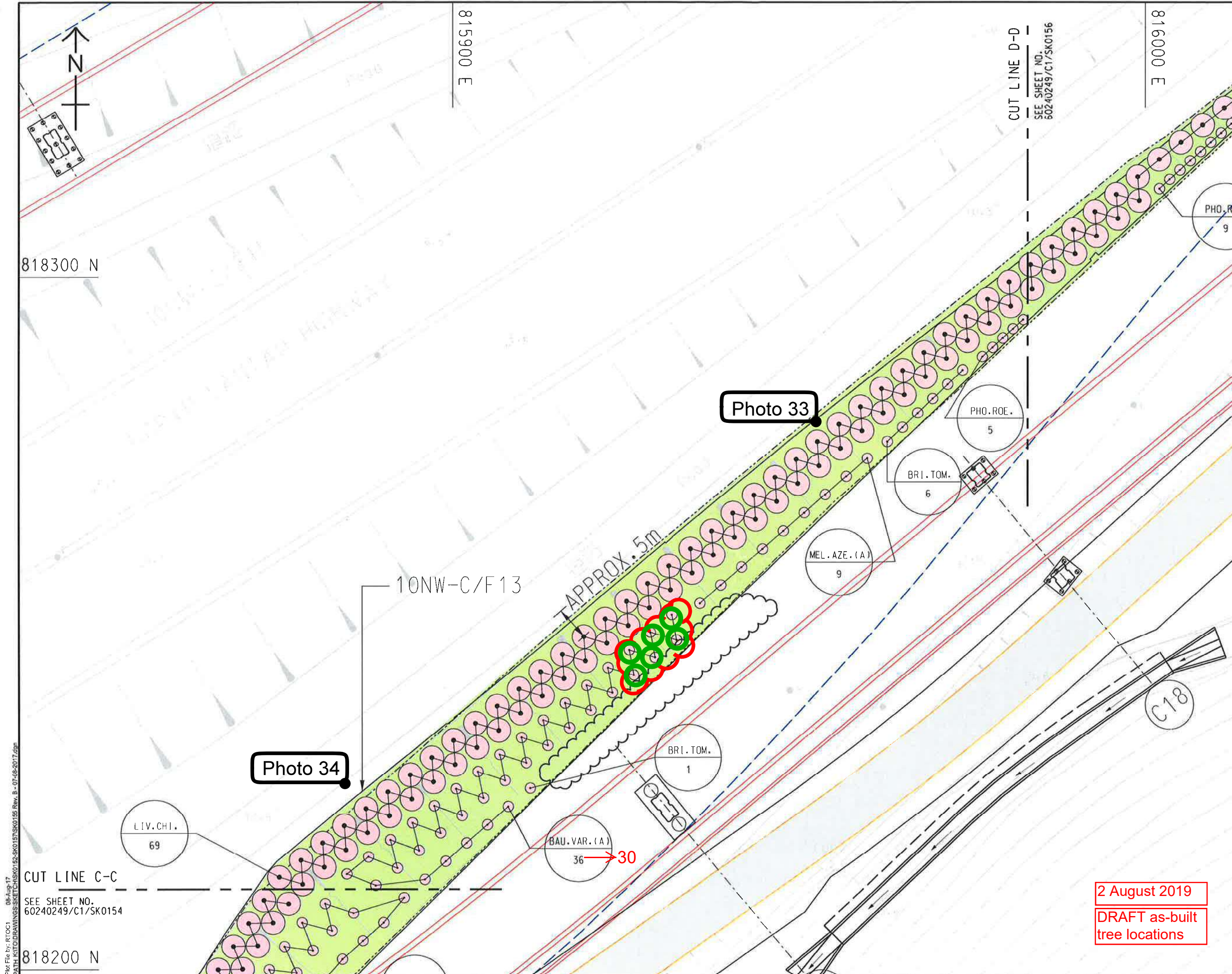
SHEET 3 OF 5

DRAWING REFERENCE 60240249/C1/1743B	SCALE 1:250 (A1) 1:500 (A3)
DRAWN KYL	APPROVED GH
SKETCH NO. SK0154	REV. B

2 August 2019  
 DRAFT as-built  
 tree locations

Plot File by: RT0C1  
 07-Aug-17  
 PATH: K:\D\DRAWINGS\SKETCH\SK0154-SK0157\SK0155\_Rev. B - 07-08-2017.dgn





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - C9 PIER MARK
  - PROPOSED MAX 50° SOILCUT SLOPE
  - PROPOSED HYDROSEEDING
  - PROPOSED CLIMBER MIX
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OF VIADUCT, MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
B	07-08-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
A	11-07-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	03-01-17	PLANTING ON SLOPES	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程師辦事處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR FEATURE NOS. 10NW-C/F 13, 10NW-C/F 14 AND 10NW-C/F 15**

SHEET 4 OF 5

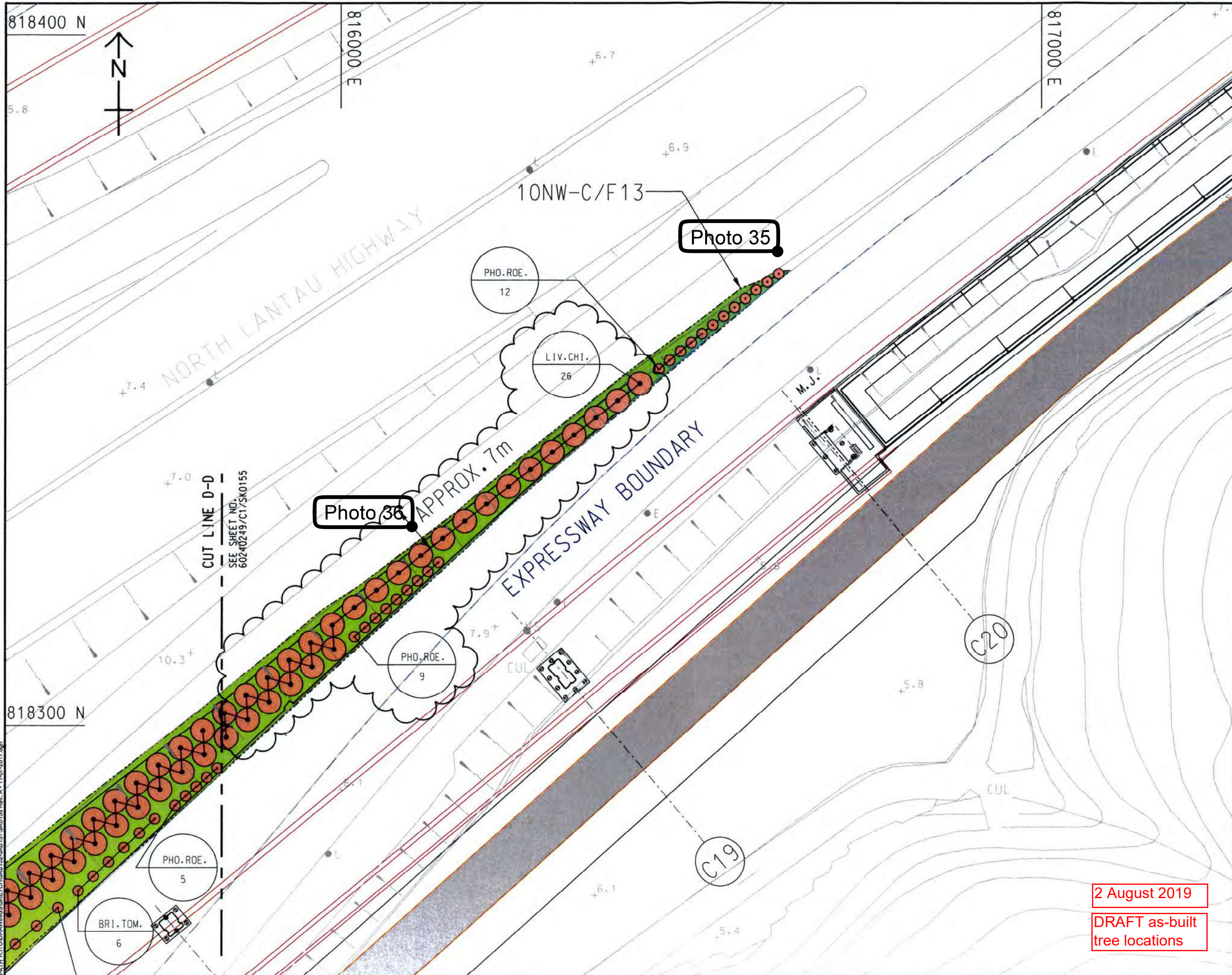
DRAWING REFERENCE	SCALE
60240249/C1/1743B	1:250 (A1) 1:500 (A3)
DRAWN	PREPARED
KYL	GH
SKETCH NO.	REV.
SK0155	B

2 August 2019

DRAFT as-built tree locations

Plot File by: RTOC1 08-Aug-17  
 PATH: K:\DRAWINGS\SKETCH\SK0155-SK0157\SK0155 Rev. B - 07-08-2017.dgn





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY
  - SSE - D/F10 EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (C9) PIER MARK
  - PROPOSED MAX 50° SOIL CUT SLOPE
  - PROPOSED HYDROSEEDING
  - PROPOSED CLIMBER MIX
  - PROPOSED TREE. MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE. MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OF VIADUCT. MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
A	11-07-17	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	03-01-17	PLANTING ON SLOPES	KYL	GH	CL

CLIENT  

 路政署  
 HIGHWAYS DEPARTMENT  
 港珠澳大桥香港工程管理有限公司  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**  
 CONTRACT NO.  
**HY/2012/07**  
 CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR FEATURE NOS. 10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15**

SHEET 5 OF 5

DRAWING REFERENCE 60240249/C1/1743B	SCALE 1:250 (A1) 1:500 (A3)
DRAWN KYL	PREPARED GH
SKETCH NO.	APPROVED CL
SK0156	REV. A

2 August 2019

DRAFT as-built tree locations

Plot File by RSTOC1 14-Jul-17  
 PATH: K:\DRAWINGS\SKETCH\182-SK0157\SK0155 Rev. A - 11-07-2017.dgn





Plot File by: RSTOC1  
 PATH: K:\TODDRAWINGS\SKETCH\SK0295 - Key Plan for Planting Plan for Resumed Area at...  
 22-Nov-17

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	21/11/17	KEY PLAN OF PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT  
 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

  
**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

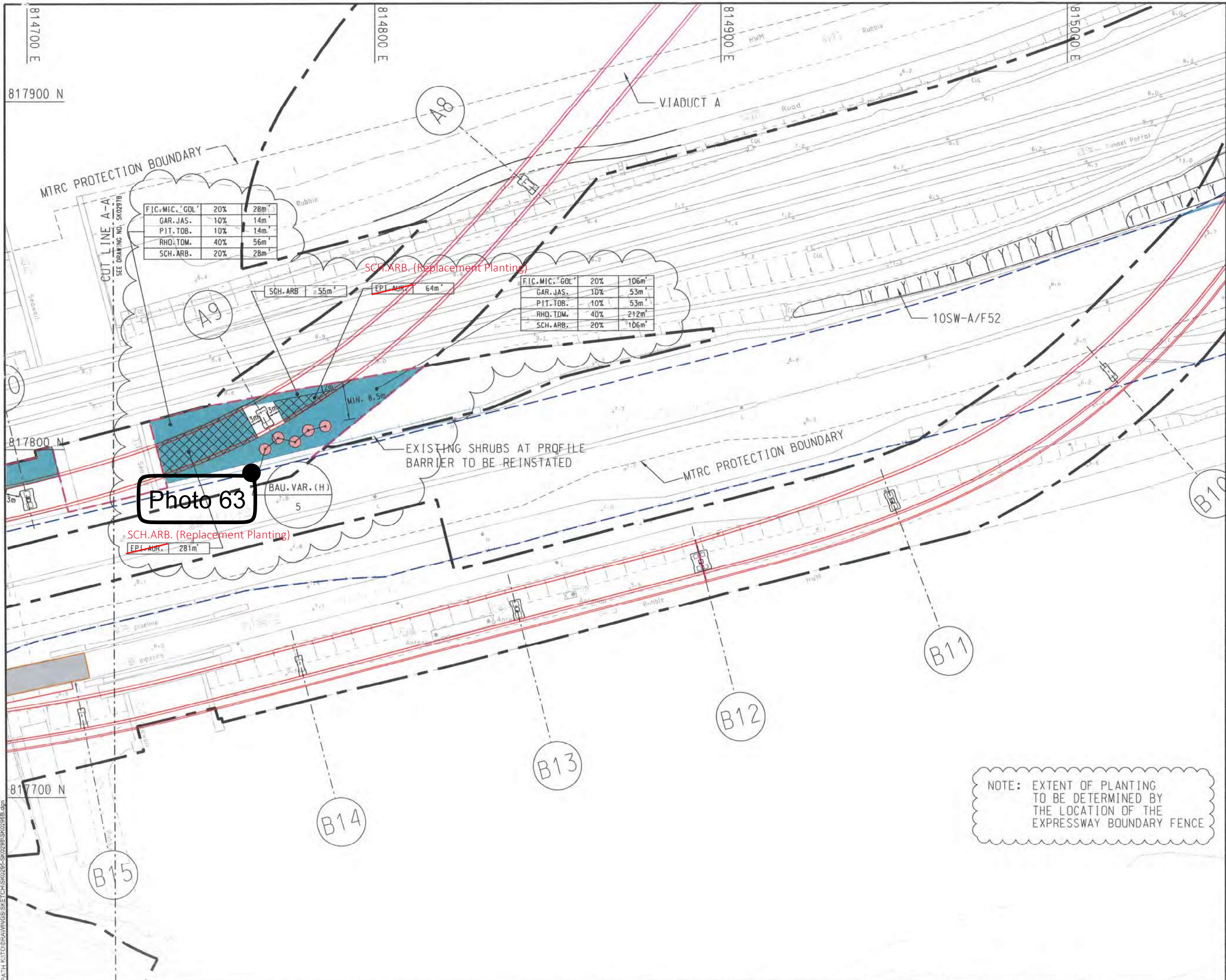
CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**KEY PLAN OF PLANTING PLAN FOR RESUMED AREA AT VIADUCT A**

DRAWING REFERENCE		SCALE 1:8000 (A1)	
60240249/C1/1000A		1:16000 (A3)	
DRAWN	PREPARED	APPROVED	
KYL	GH	CL	
SKETCH NO.		REV.	
SK0295		-	

SHEET 1 OF 4





FIC. MIC. 'GOL'	20%	28m'
GAR. JAS.	10%	14m'
PIT. TOB.	10%	14m'
RHD. TOM.	40%	56m'
SCH. ARB.	20%	28m'

FIC. MIC. 'GOL'	20%	106m'
GAR. JAS.	10%	53m'
PIT. TOB.	10%	53m'
RHD. TOM.	40%	212m'
SCH. ARB.	20%	106m'

- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - SSE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (D19) PIER MARK
  - Y Y Y PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE (APPROXIMATE LOCATION)

D 19-04-18	PROPOSED PLANTING AND LEGEND AMEND	CC	CH	CL	
A 08-02-18	PROPOSED PLANTING AMENDED	CC	GH	CL	
- 21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL	
REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.

CLIENT  
**HIGHWAYS DEPARTMENT**  
 香港路政處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

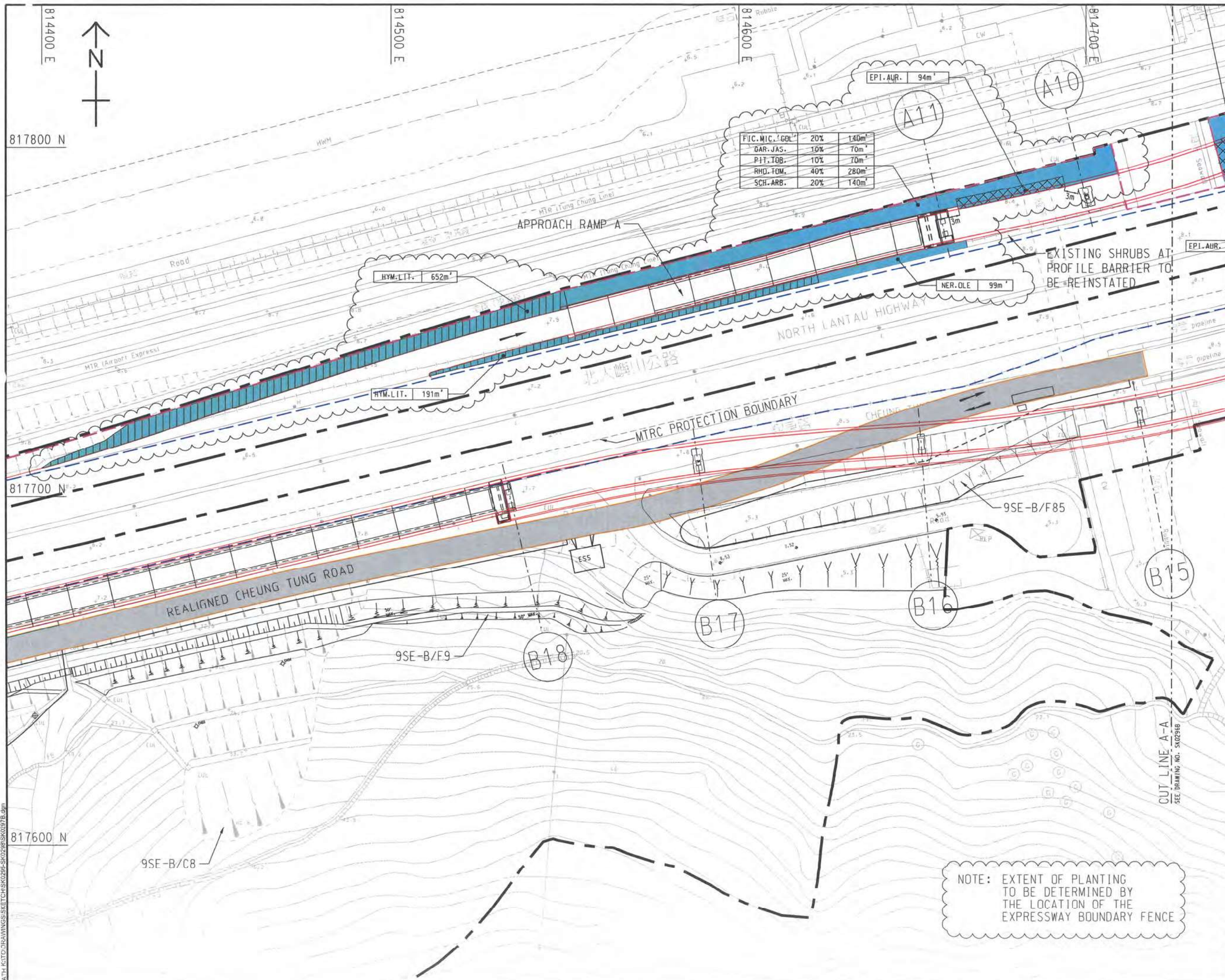
CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR RESUMED AREA AT VIADUCT A**

SHEET 2 OF 4

DRAWING REFERENCE	SCALE 1:500 (A1)	
60240249/C1/17450	1:1000 (A3)	
DRAWN	PREPARED	APPROVED
GC	GH	CL
SKETCH NO.	REV.	
SK0296	B	





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - SSS - 0/170 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (D19) PIER MARK
  - Y Y Y PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE (APPROXIMATE LOCATION)

B	19-04-18	PROPOSED PLANTING AND LEGEND AMENDED	GC	GH	CL
A	08-02-18	PROPOSED PLANTING AMENDED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL
REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.

CLIENT  
**HIGHWAYS DEPARTMENT**  
 香港路政署  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR RESUMED AREA AT VIADUCT A**

SHEET 3 OF 4

DRAWING REFERENCE	SCALE
60240249/C1/1745C	1:500 (A1) 1:1000 (A3)
DRAWN	PREPARED
GC	GH
SKETCH NO.	REV.
SK0297	B

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE LOCATION OF THE EXPRESSWAY BOUNDARY FENCE

File Path: \\PTCC\1\DRAWINGS\PROJECTS\SK0295-SK0298\SK0297B.dgn  
 27-Apr-18





HKBCF

SIU HO WAN

SITE BOUNDARY

VIADUCT D

VIADUCT C

VIADUCT B  
VIADUCT A

SK0319

SK0318

SK0317

SK0316

SK0315

大螺灣  
TAI HO WAN

LANTAU NORTH  
(EXTENSION)  
COUNTRY PARK

TUNG CHUNG

赴葵洲  
TSE KAN

NGAU TAU

REV.	DATE	DESCRIPTION	DRAWN	CHKD	APP.
-	29/12/11	KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND)	KYL	GH	CL

CLIENT  
 路政署  
 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工程管理局  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
 TUEN MUN - CHEK LAP KOK LINK




CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK  
 - SOUTHERN CONNECTION  
 VIADUCT SECTION

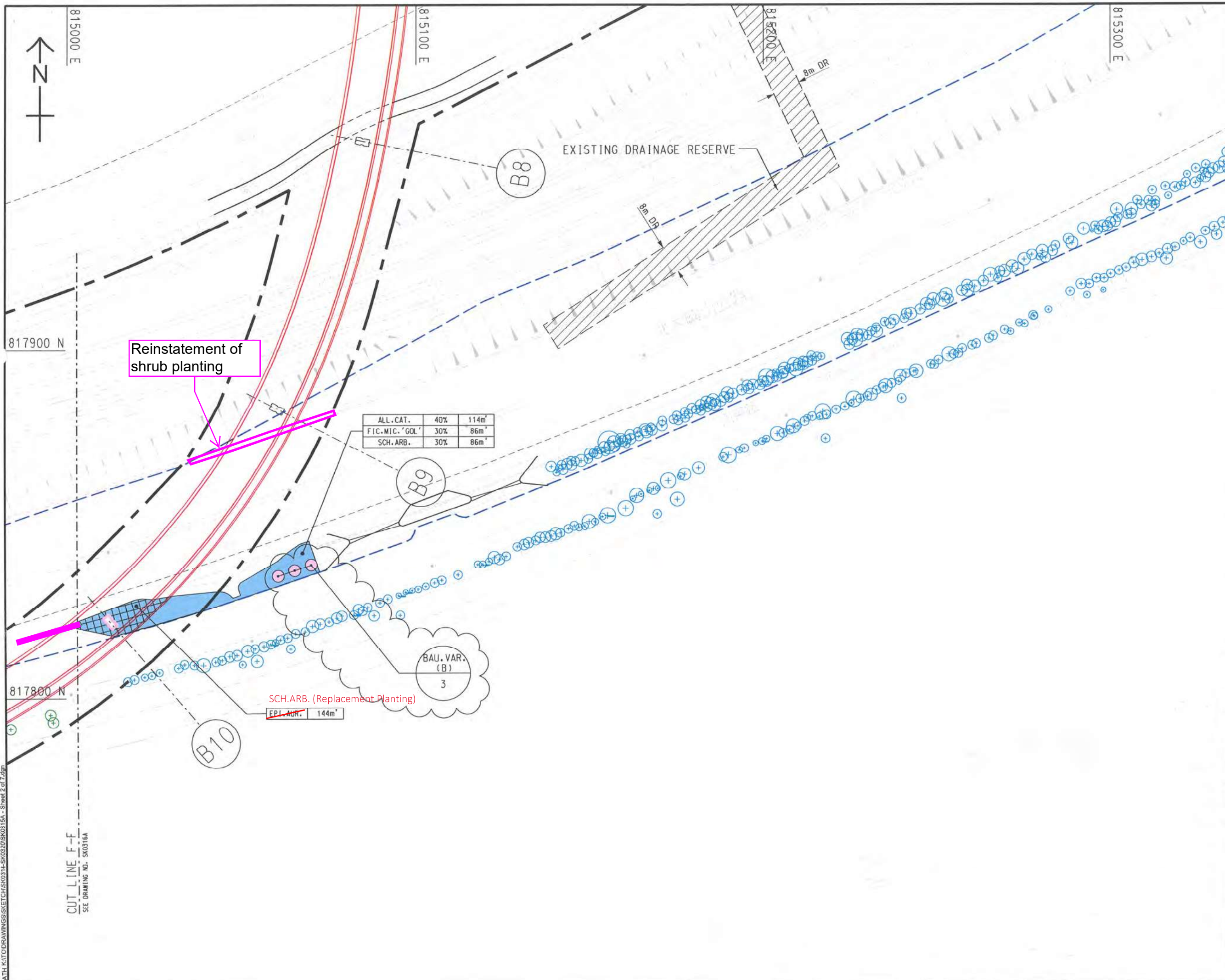
TITLE  
 KEY PLAN OF PLANTING PLAN  
 FOR NORTH LANTAU HIGHWAY  
 (TUNG CHUNG BOUND)  
 VIADUCT B

DRAWING REFERENCE  
 60240249/C1/1000A  
 SCALE 1:8000 (A1)  
 1:16000 (A3)

SKETCH NO. SK0314

    
 KYL GH CL  
 REV. -





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - PIER MARK
  - Y Y Y PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 香港路政署  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

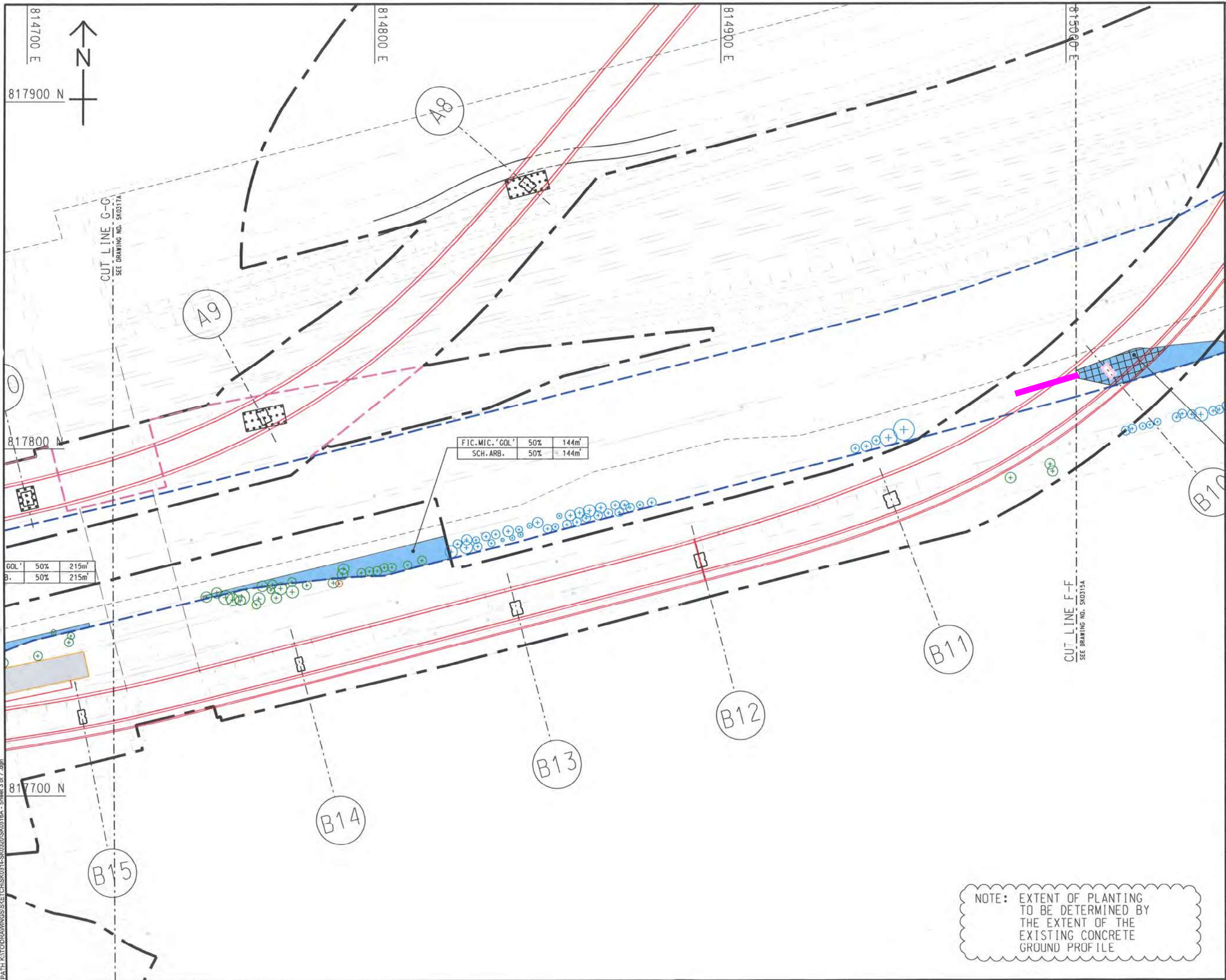
TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT B**

SHEET 2 OF 7

DRAWING REFERENCE 60240249/C1/1758	SCALE 1:500 (A1) 1:1000 (A3)
DESIGNED GC	APPROVED GH
SKETCH NO. SK0315	REV. A

Plot File by: FTCC1  
 PATH: K:\D\DRAWINGS\SITE\CHIS\SK0311-SK0320\SK0316A - Sheet 2 of 7.dwg  
 20-Apr-18





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - D19 PIER MARK
  - YY PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED GROUND COVER, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	CHKD	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 香港路政署  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

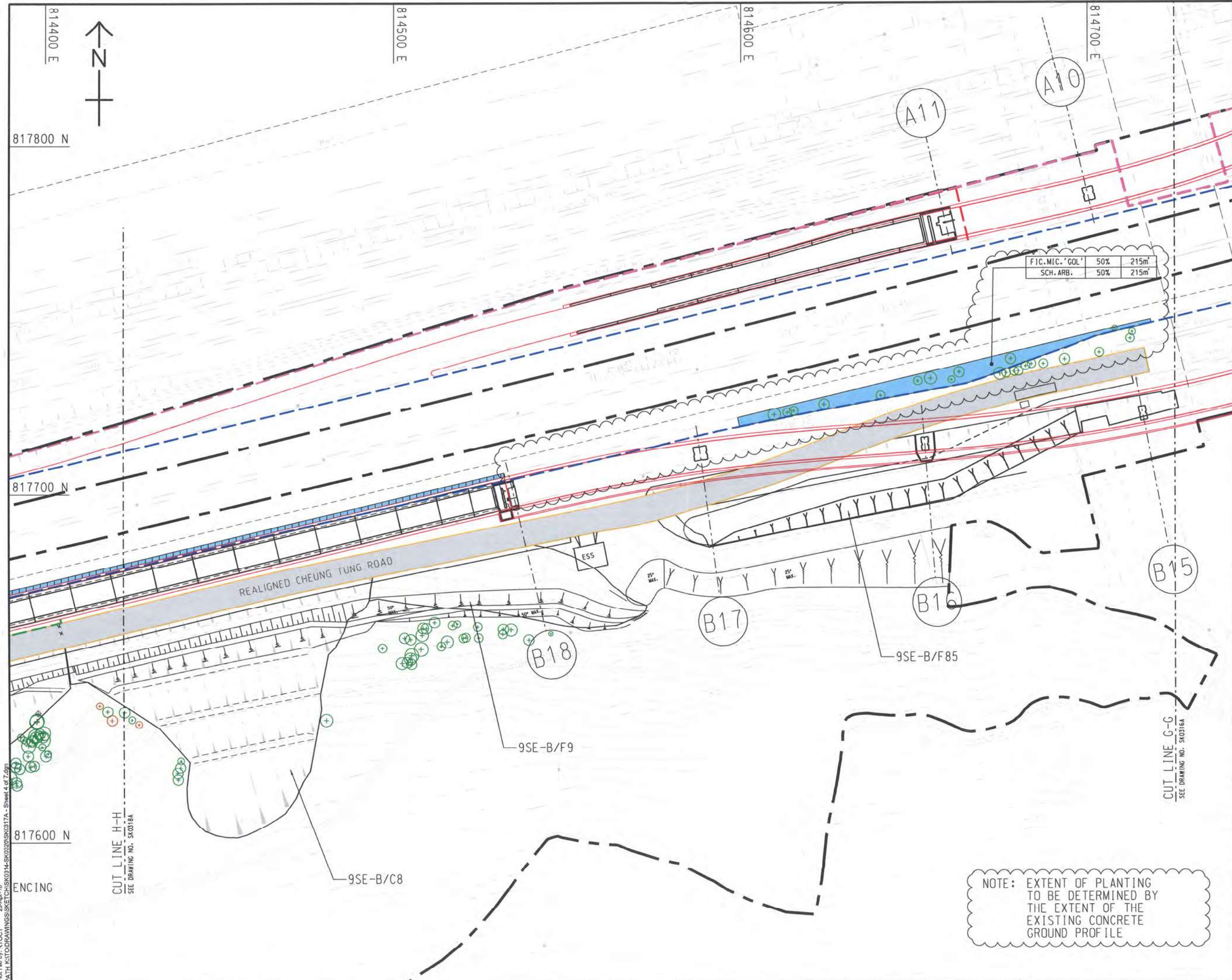
TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT B**

DRAWING REFERENCE	SCALE
60240249/C1/1759A	1:500 (A1) 1:1000 (A3)
DRAWN	APPROVED
GC	GH
SKETCH NO.	REV.
SK316	A

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE EXTENT OF THE EXISTING CONCRETE GROUND PROFILE

Plot File by: PTC01  
 PATH: K:\DRAWINGS\SET\CHAS\SK316-SK0320\SK0318A - Sheet 3 of 7.dgn





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (D19) PIER MARK
  - YYY PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE (APPROXIMATE LOCATION)

FIC. MIC. 'GOL'	50%	215m
SCH. ARB.	50%	215m

REV.	DATE	DESCRIPTION	DRW	CHK	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 港務局  
 香港路政署  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

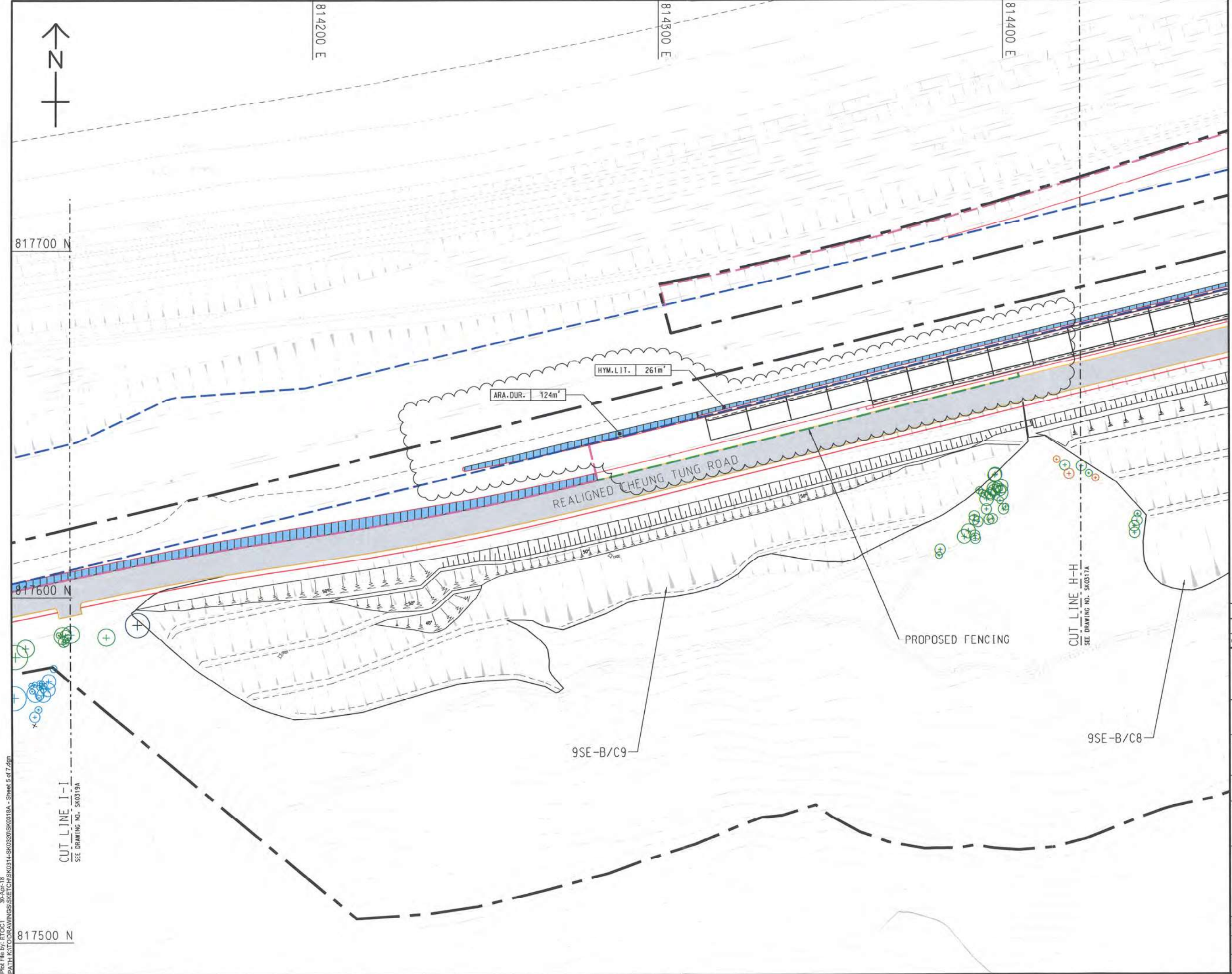
TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT B**

SHEET 4 OF 7

DRAWING REFERENCE 60240249/C1/1760A	SCALE 1:500 (A1) 1:1000 (A3)
DRW GC	PREPARED GH
SKETCH NO.	APPROVED CL
SK0317	REV. A

Plot File by: 3TOC1  
 PATH: K:\DRAWINGS\SKETCH\SK0317A-SK0320\SK0317A - Sheet 4 of 7.dgn  
 28-Apr-18





**LEGEND:**

- SITE BOUNDARY
- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY (REVISED)
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- D19 PIER MARK
- YYY PROPOSED FILL SLOPE
- PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
- PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
- EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 路政署  
 香港路政工程處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

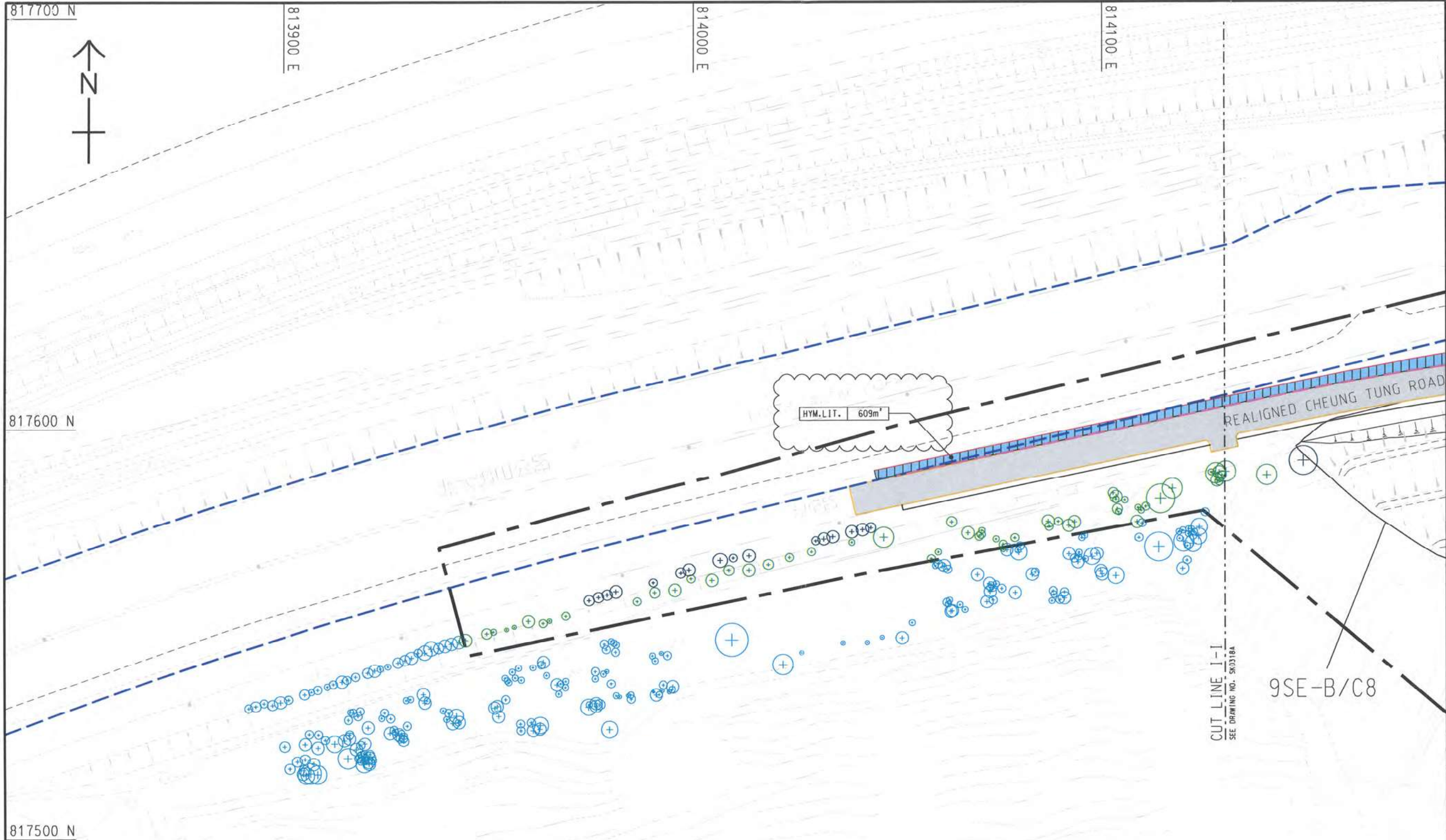
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**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT B**

DRAWING REFERENCE: 60240249/C1/1716B  
 SCALE: 1:500 (A1), 1:1000 (A3)

DRAWN	PREPARED	APPROVED	REV.
GC	GH	CL	A
SKETCH NO. SK0318			

Plot File by: RTCC1  
 PATH: K:\IT\DRAWINGS\SKETCH\SK0311-SK0320\SK0318A - Sheet 5 of 7.dgn  
 3c-Acc-18





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SJMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - PIER MARK
  - PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING, MAINTENANCE UNDERTAKEN BY Hyd
  - PROPOSED SHRUB, MAINTENANCE UNDERTAKEN BY Hyd
  - PROPOSED GROUNDCOVER, MAINTENANCE UNDERTAKEN BY Hyd
  - PROPOSED CLIMBER, MAINTENANCE UNDERTAKEN BY Hyd
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY Hyd
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY Hyd
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY Hyd
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	CHK.	APP.
A	27-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	21-11-17	PLANTING PLAN FOR RESUMED AREA AT VIADUCT A	KYL	GH	CL

CLIENT  
**HIGHWAYS DEPARTMENT**  
 路政署  
 港珠澳大橋香港工程管理有限公司  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

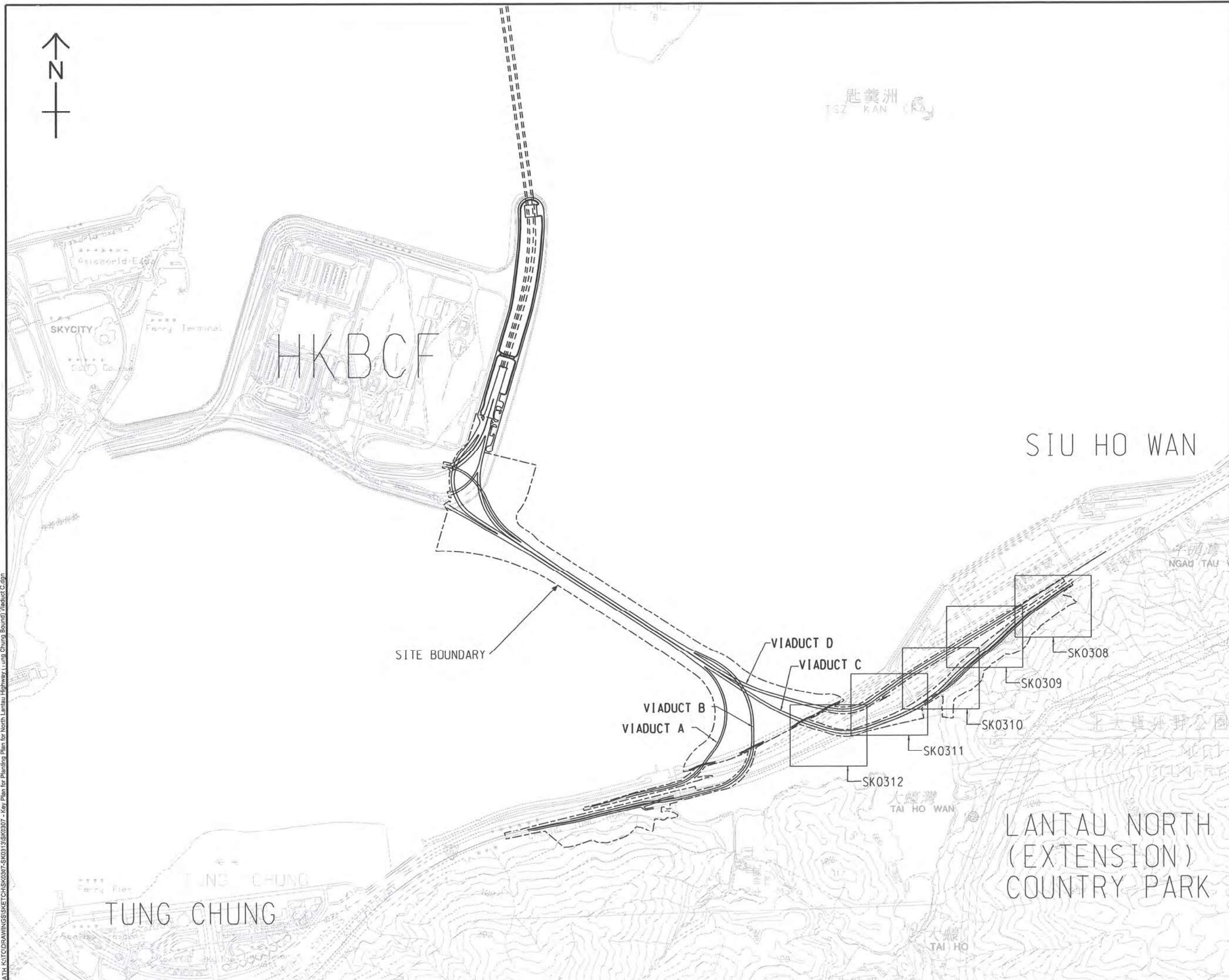
CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT B**

SHEET 6 OF 7

DRAWING REFERENCE	SCALE	
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DRAWN	PREPARED	APPROVED
GC	GH	CL
SKETCH NO.	REV.	
SK0319	A	





Plot File by: RSTOC1 27-Dec-17 PATH: K:\CADD\DRAWINGS\SKETCH\SK0307 - Key Plan for Planting Plan for North Lantau Highway (Lung Chung Bound) Viaduct C.dgn

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	27/12/17	KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (LUNG CHUNG BOUND)	KYL	GH	CL

CLIENT  
 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理有限公司  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C**

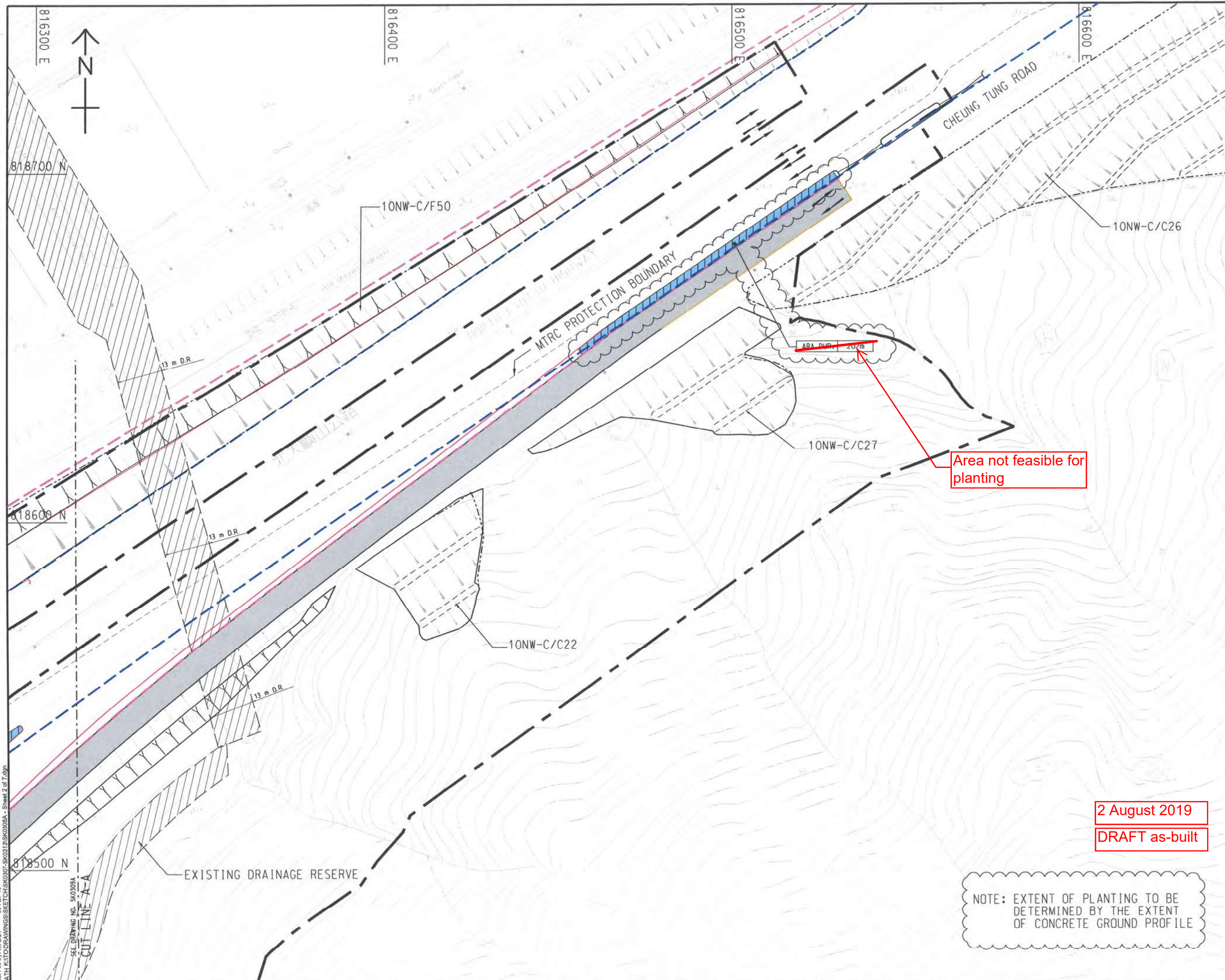
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SCALE: 1:8000 (A1)  
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DRAWN: KYL  
 PREPARED: GH  
 APPROVED: CL  
 SKETCH NO.: SK0307  
 REV.: -

SHEET 1 OF 7





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - SSE - D/F70 EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - D19 PIER MARK
  - Y Y Y PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

A	16-04-18	PROPOSED PLANTING AND LEGEND REVISED	GC	GH	CL
-	27-12-17	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND)	KYL	GH	CL
REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.

CLIENT  
**HIGHWAYS DEPARTMENT**  
 香港路政署  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C.**

SHEET 2 OF 7

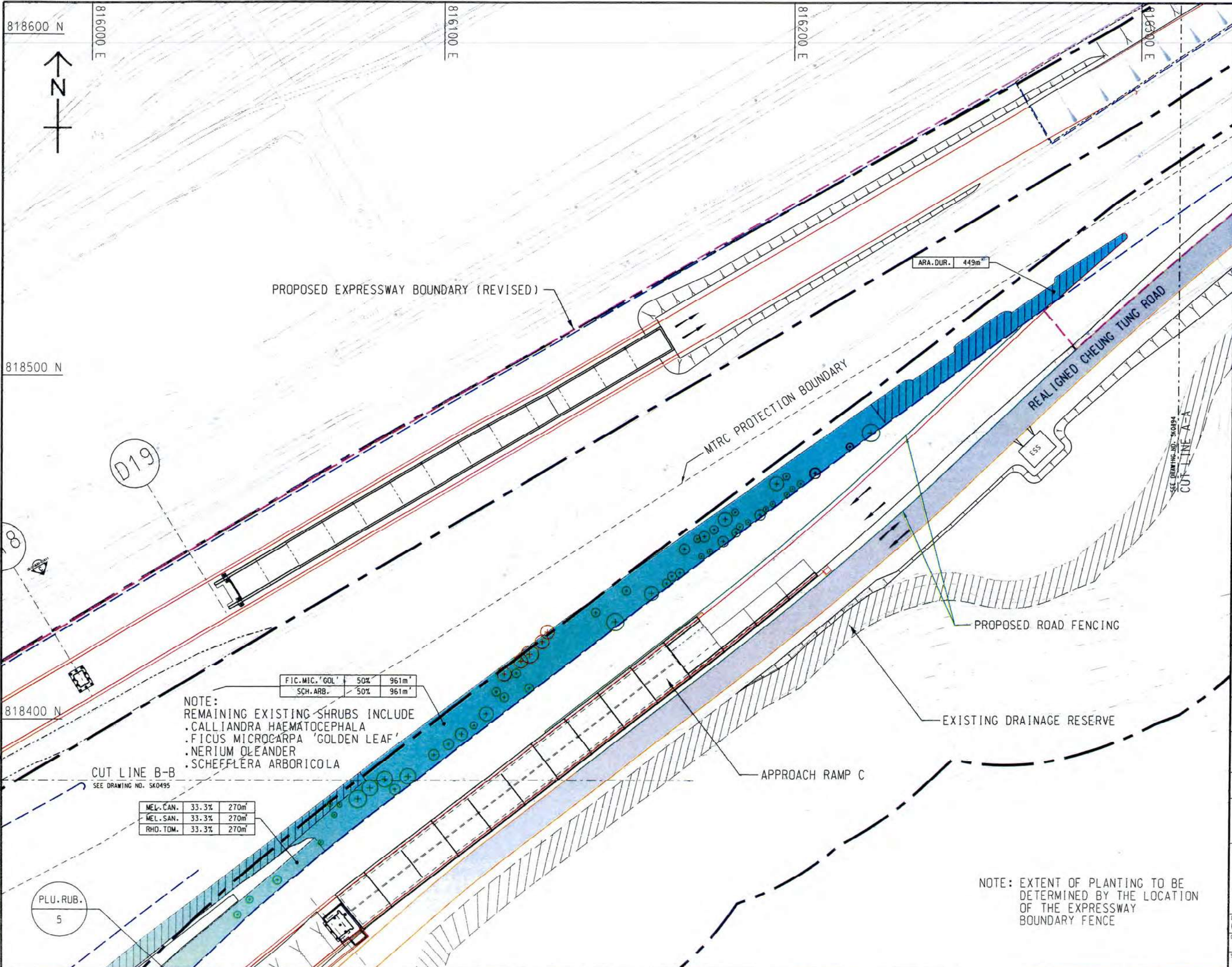
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DRAWN	APPROVED
GC	GH
SKETCH NO.	REV.
SK0308	A

**2 August 2019**  
**DRAFT as-built**

NOTE: EXTENT OF PLANTING TO BE DETERMINED BY THE EXTENT OF CONCRETE GROUND PROFILE

Plot File by: RT0C1  
 PATH: K:\DRAWINGS\SKETCH\SK0308-SK031\SK0308A - Sheet 2 of 7.dgn  
 30-Apr-18





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - D19 PIER MARK
  - YYY PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - CORE MS-
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	15-04-19	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND)	KYL	GH	CL

路政署  
HIGHWAYS DEPARTMENT  
香港路政工程處  
Hong Kong Project Management Office



PROJECT  
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.  
HY/2012/07

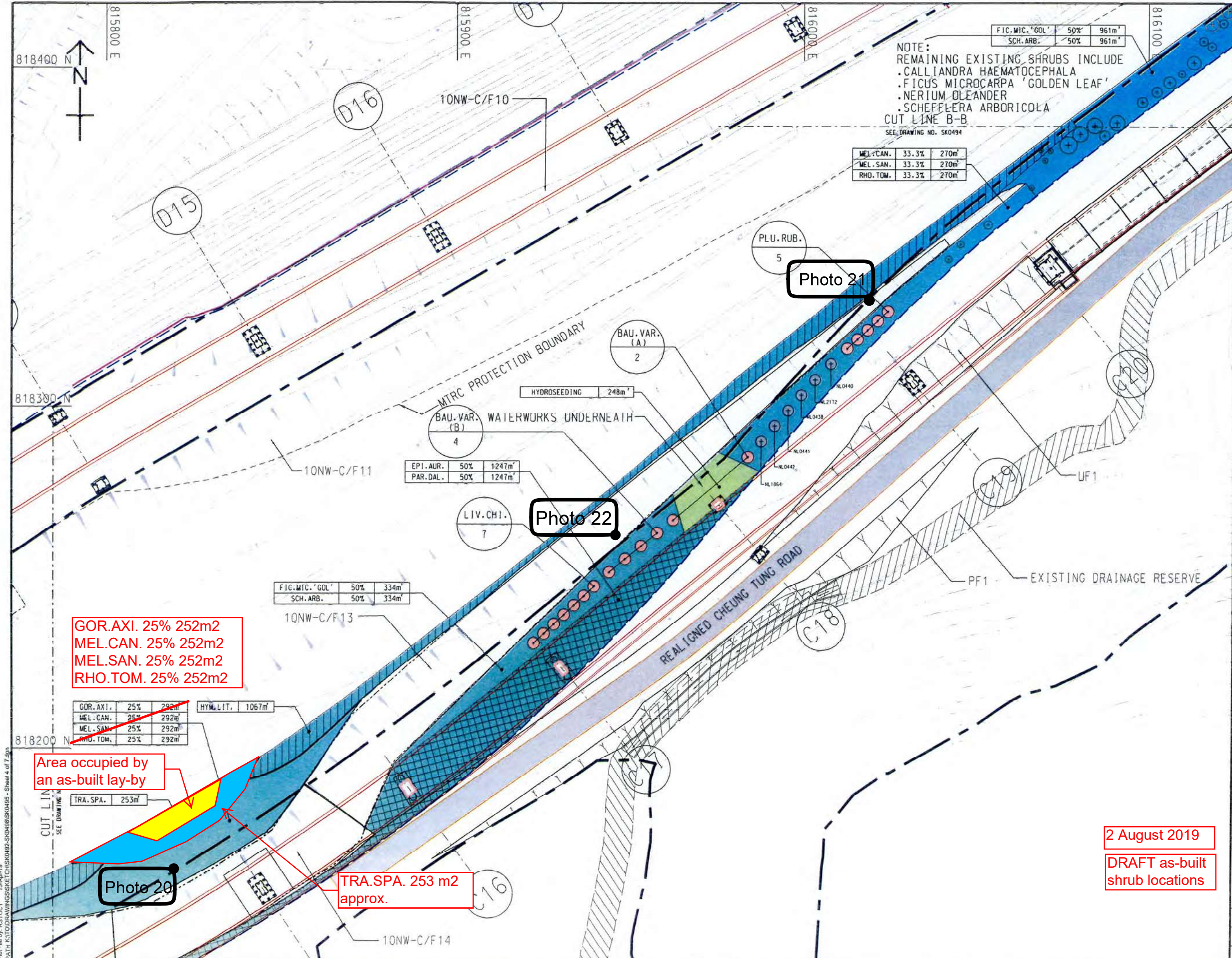
CONTRACT TITLE  
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C (HyD)

DRAWING REFERENCE	SCALE
60240249/C1/1754B	1:500 (A1) 1:1000 (A3)
DRAWN	PREPARED
KYL	GH
SKETCH NO.	REV.
SK0494	-

Plot File by: RSTOCT1 15-Apr-19 PATH: K:\DRAWINGS\SKETCH\SK0494 - Sheet 3 of 7.dgn





GOR.AXI. 25% 252m2  
 MEL.CAN. 25% 252m2  
 MEL.SAN. 25% 252m2  
 RHO.TOM. 25% 252m2

GOR.AXI.	25%	292m
MEL.CAN.	25%	292m
MEL.SAN.	25%	292m
RHO.TOM.	25%	292m

Area occupied by an as-built lay-by

TRA.SPA. 253 m2 approx.

MEL.CAN.	33.3%	270m
MEL.SAN.	33.3%	270m
RHO.TOM.	33.3%	270m

FIC.MIC.'GOL'	50%	961m
SCH.ARB.	50%	961m

NOTE:  
 REMAINING EXISTING SHRUBS INCLUDE  
 .CALLIANDRA HAEMATOCEPHALA  
 .FICUS MICROCARPA 'GOLDEN LEAF'  
 .NERIUM OLEANDER  
 .SCHEFFLERA ARBORICOLA  
 CUT LINE B-B  
 SEE DRAWING NO. SK0494

- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SLOPE SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - D19 PIER MARK
  - YYY PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - CODE NOS.
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	15-04-19	Planting Plan for North Lantau Highway (Tung Chung Bypass)	KYL	GH	CL

路政署  
 HIGHWAYS DEPARTMENT  
 香港路政署工程處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
 TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
 PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C (HyD)

DRAWING REFERENCE	SCALE	
60240249/C1/1754B	1:500 (A1) 1:1000 (A3)	
DRAWN	PREPARED	APPROVED
KYL	GH	CL
SKETCH NO.	REV.	
SK0495	-	

2 August 2019

DRAFT as-built shrub locations

Plot File by: RSTOC1 15-Apr-19 PATH: K:\TO\DRAWINGS\SKETCH\SK0495 - Sheet 4 of 7.dgn





- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - (D19) PIER MARK
  - Y Y Y PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED TREE MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE MAINTENANCE UNDERTAKEN BY HYD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HYD
  - EXISTING TREE (APPROXIMATE LOCATION)

FIC. MIC. 'GDL'	50%	334m'
SCH. ARB.	50%	334m'

GOR.AXI. 25% 252m2  
 MEL.CAN. 25% 252m2  
 MEL.SAN. 25% 252m2  
 RHO.TOM. 25% 252m2

GOR.AXI.	25%	292m'
MEL.CAN.	25%	292m'
MEL.SAN.	25%	292m'
RHO.TOM.	25%	292m'

Area occupied by an as-built lay-by

TRA.SPA. 253m'

HYM.LIT. 1067m'

HYM.LIT. 997m'

Photo 23

Photo 24

Photo 25

10NW-C/F15  
 PLANTING PLAN UNDER  
 SEPARATE DRAWING NOS.  
 SK0152-SK0157 AND SK0220

FIC. MIC. 'GDL'	16.6%	620m'
GOR.AXI.	16.6%	620m'
MEL.CAN.	16.6%	620m'
MEL.SAN.	16.6%	620m'
RHO.TOM.	16.6%	620m'
SCH.ARB.	16.6%	620m'

NOTE:  
 REMAINING EXISTING SHRUBS INCLUDE  
 .CALLIANDRA HAEMATOCEPHALA  
 .LANTANA CAMERA  
 .NERIUM OLEANDER  
 .THEVETIA PERUVIANA  
 .YUCCA GLORIOSA

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	15-04-19	Planting Plan for North Lantau Highway (Tung Chung Bound) (HyD)	KYL	GH	CL

路政署  
 HIGHWAYS DEPARTMENT  
 路政處  
 香港六福橋工程處  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
 TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

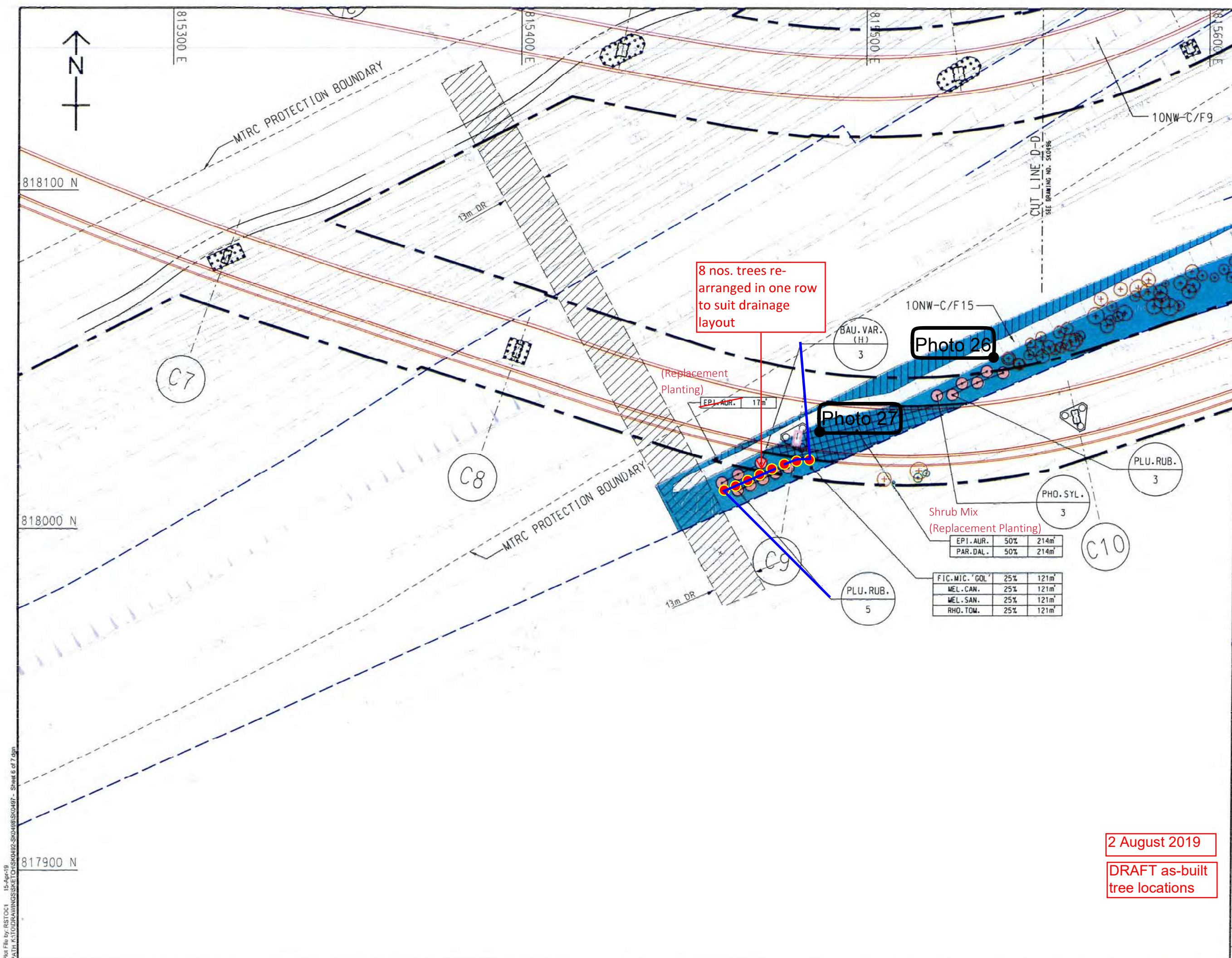
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 PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C (HyD)

SHEET 5 OF 7

DRAWING REFERENCE	SCALE
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KYL	GH
CHECKED	APPROVED
CL	CL
SKETCH NO.	REV.
SK0496	-

Plot File by: RSTOC1 15-Apr-19 PATH: K:\DRAWINGS\SS\K101\SK0496-Sheet 5 of 7.dgn





8 nos. trees re-arranged in one row to suit drainage layout

(Replacement Planting)

Photo 26

Photo 27

Shrub Mix (Replacement Planting)

EPI. AUR.	50%	214m
PAR. DAL.	50%	214m
FIC. MIC. 'GOL'	25%	121m
MEL. CAN.	25%	121m
MEL. SAN.	25%	121m
RHO. TOM.	25%	121m

- LEGEND:**
- SITE BOUNDARY
  - EXISTING EXPRESSWAY BOUNDARY
  - PROPOSED EXPRESSWAY BOUNDARY (REVISED)
  - EXISTING SLOPE WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED ENGINEERING LAYOUT-VIADUCT
  - PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
  - PIER MARK
  - PROPOSED FILL SLOPE
  - PROPOSED HYDROSEEDING MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED SHRUB MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED GROUNDCOVER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBER MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY HyD
  - PROPOSED CLIMBERS FOR PIERS OR VIADUCT MAINTENANCE UNDERTAKEN BY HyD
  - EXISTING TREE (APPROXIMATE LOCATION)

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
15-04-19		Planting Plan (HyD) (Landscape)	KYL	GH	CL

CLIENT

**HIGHWAYS DEPARTMENT**  
 香港公路工程處  
 Hong Kong - Zhuhai - Maкао Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) VIADUCT C (HyD)**

SHEET 6 OF 7

DRAWING REFERENCE  
 60240249/C1/1756B

SCALE  
 1:500 (A1)  
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DRAWN  
 KYL

PREPARED  
 GH

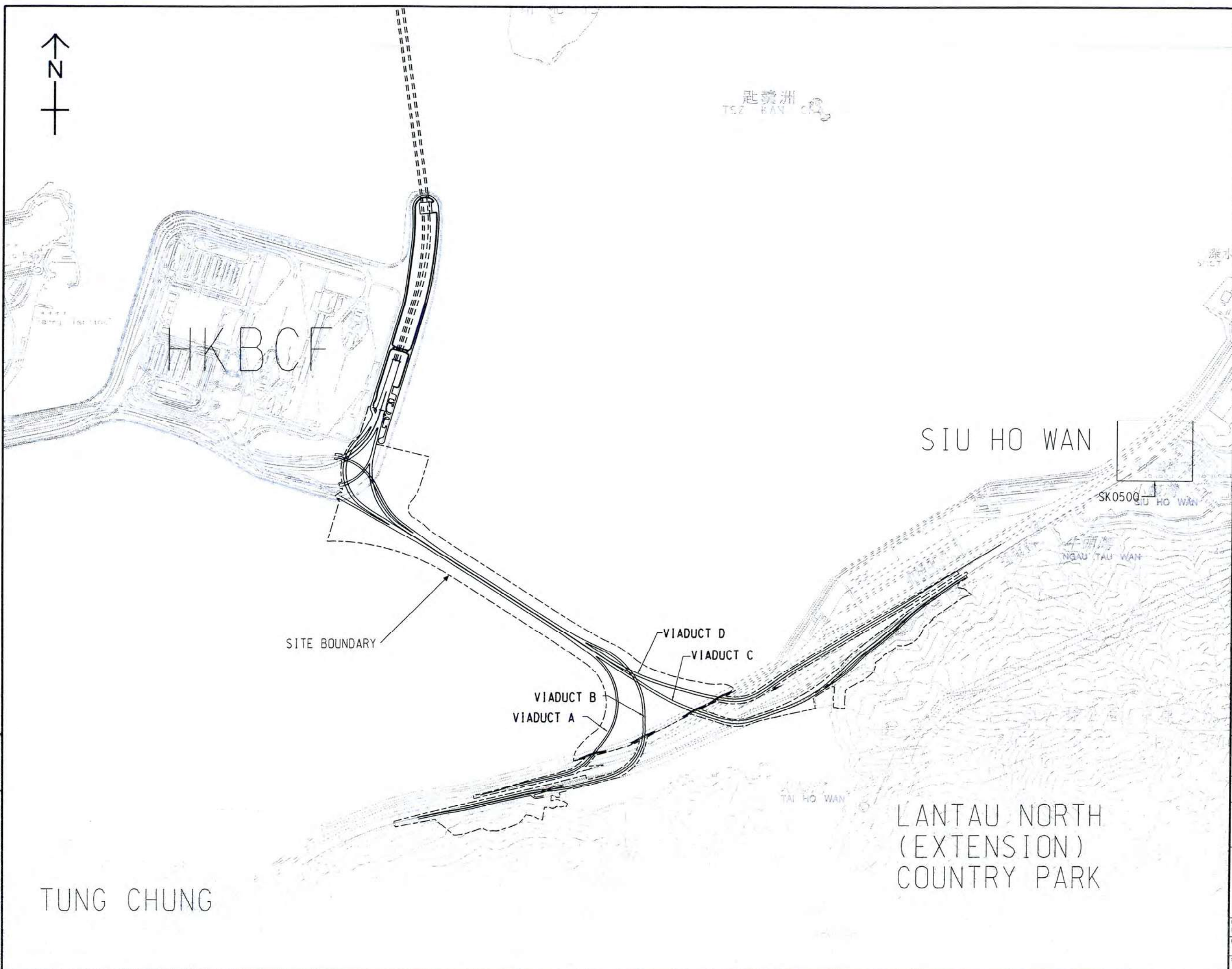
APPROVED  
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SKETCH NO.  
 SK0497

2 August 2019  
 DRAFT as-built tree locations

Plot File by: RSTOCT 15-Apr-19  
 PATH: K:\TODDRAWINGS\KST\CH\SK0497-SK0498-SK0499-Sheet 6 of 7.dgn

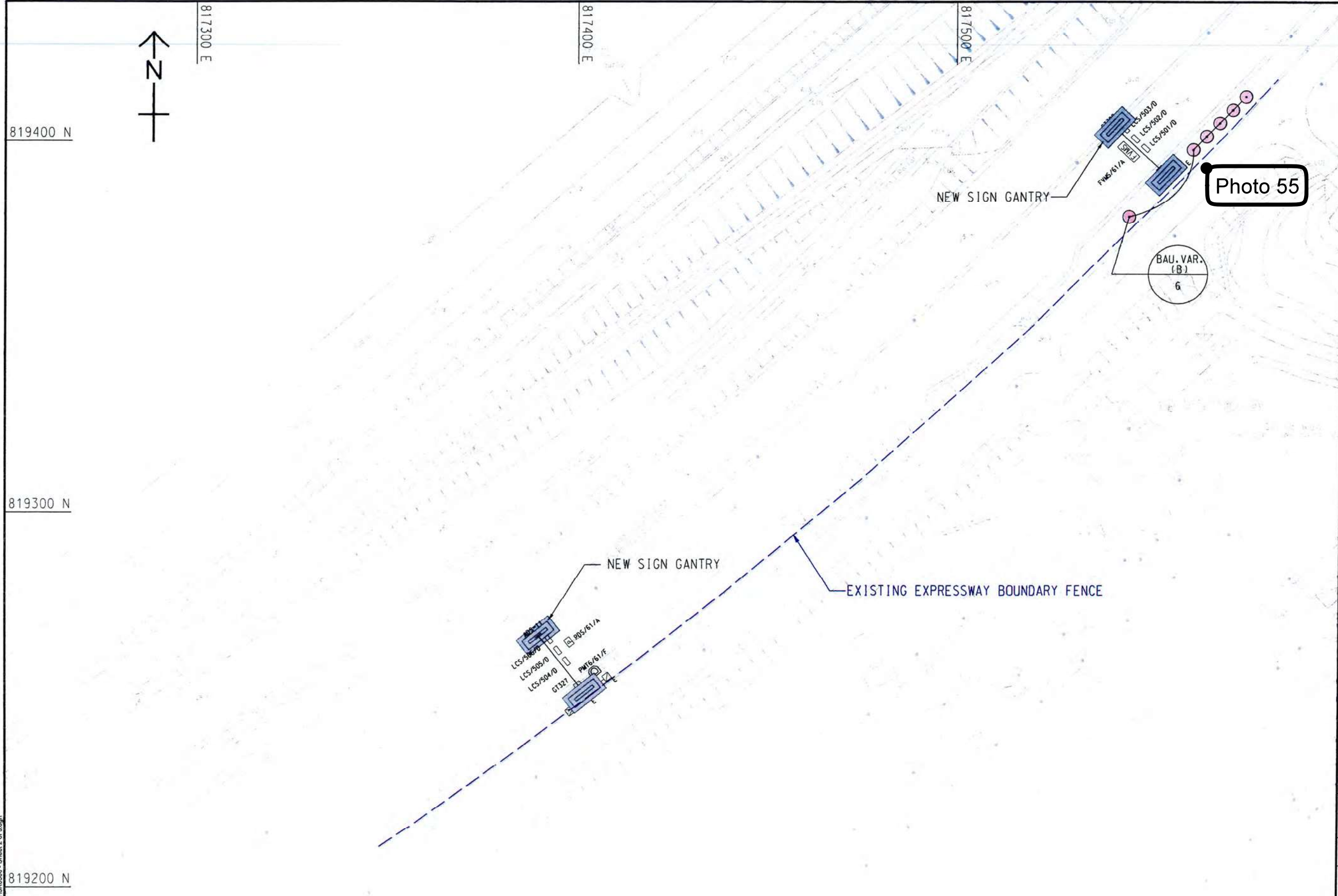




REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	15/04/19	KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) SIGN GANTRIES (HyD)	GC	GH	CL
CLIENT					
<p>路政署 HIGHWAYS DEPARTMENT 港珠澳大橋跨境工程管理局 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office</p>					
PROJECT					
TUEN MUN - CHEK LAP KOK LINK					
CONTRACT NO.					
HY/2012/07					
CONTRACT TITLE					
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION					
TITLE					
KEY PLAN OF PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) SIGN GANTRIES (HyD)					
SHEET 1 OF 3					
DRAWING REFERENCE		SCALE			
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DRAWN	PREPARED	APPROVED			
KYL	GH	CL			
SKETCH NO.	REV.				
SK0499					

Plot File by: RST001 16-Apr-19  
 PATH: K:\TODDRAWINGS\SKETCH\HSK0499-SK0501\SK0499 - Key Plan Sheet 1 of 3.dgn





**LEGEND:**

- PROPOSED TREE - MAINTENANCE UNDERTAKEN BY HyD
- FULLY VARIABLE MESSAGE SIGN

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	15/04/19	PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) SIGN GANTRIES (HyD)	KYL	GH	CL

CLIENT  
 路政署  
 HIGHWAYS DEPARTMENT  
 港珠澳大橋香港工務管理處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM** Imagine it. Delivered.

PROJECT  
 TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
 PLANTING PLAN FOR NORTH LANTAU HIGHWAY (TUNG CHUNG BOUND) SIGN GANTRIES (HyD)  
 SHEET 2 OF 3

DRAWING REFERENCE GCL DRAWING: J3518/T/GCL/SK/0936C		SCALE 1:500 (A1) 1:1000 (A3)	
DRAWN KYL	PREPARED GH	APPROVED CL	REV. -
SKETCH NO.		REV.	
SK0500		-	

- NOTES:**
1. LOCATION REFER TO KEY PLAN DRAWING NO. SK0499.
  2. FOR SHRUB PLANTING, REFER TO REINSTATEMENT PLANTING PROPOSAL, DRAWING NOS. J3518/T/GCL/SK/1083 REV.B AND J3518/T/GCL/SK/1083 REV.D



DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.

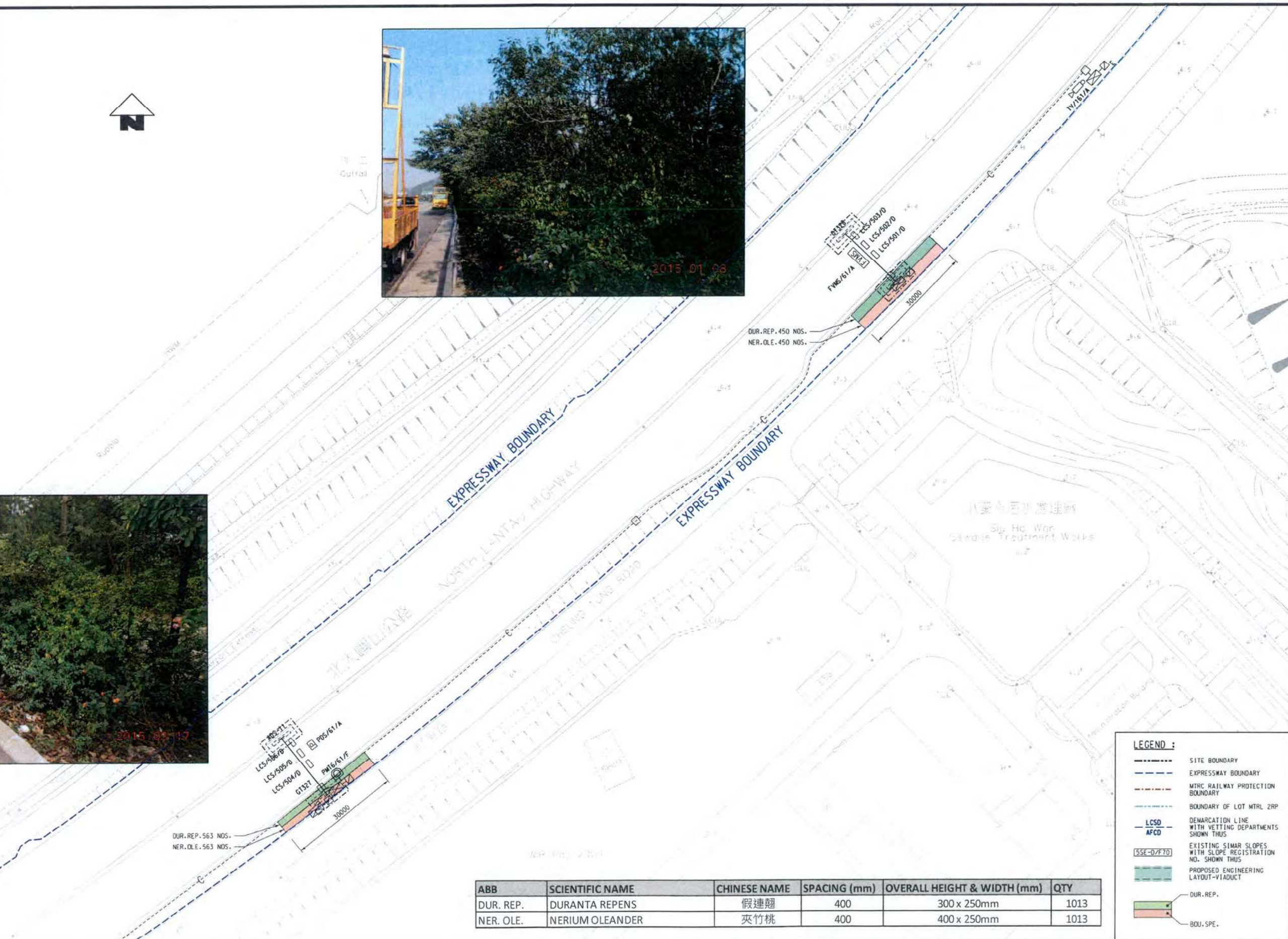


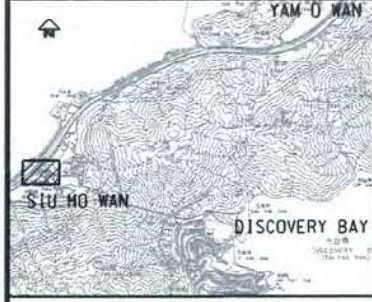
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DUR. REP.	DURANTA REPENS	假連翹	400	300 x 250mm	1013
NER. OLE.	NERIUM OLEANDER	夾竹桃	400	400 x 250mm	1013

Printed by : 4/21/2015  
 File name : M:\Job\3518 - TMCL Southern Connection Viaduct Section\Drawings\Sketch\Tree Penetration\3518\_I\_GCL\_SK\_1083.dgn

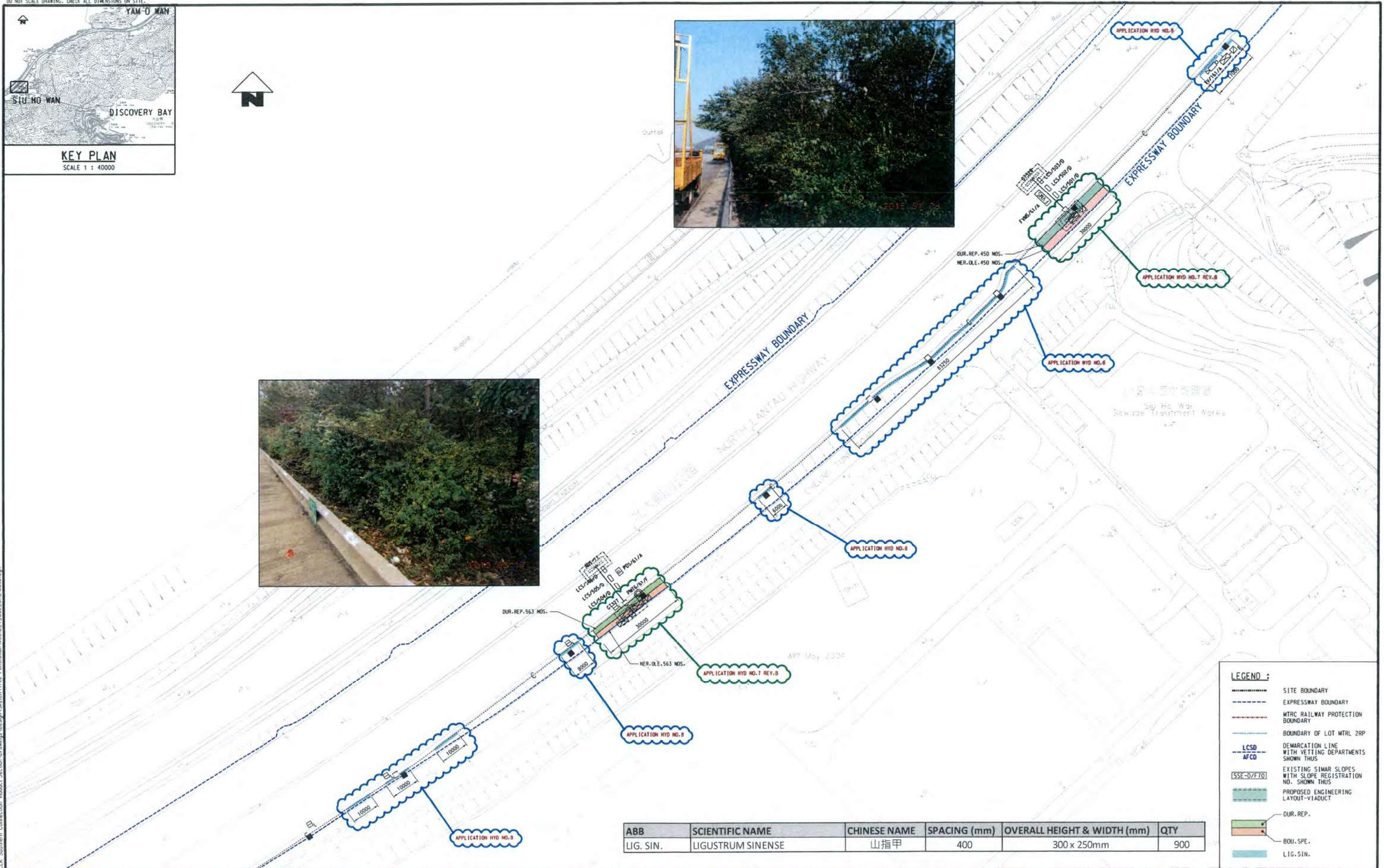
Rev	Description	By	Date	Rev	Description	By	Date	Drawn	Date	Client	Project Title	Drawing title
A	FIRST ISSUE	PSK	17MAR15					AY	17/MAR/2015	路政署 <b>HIGHWAYS DEPARTMENT</b> 港珠澳人橋香港工程管理局 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office	Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section	<b>REINSTATEMENT PLANTING PROPOSAL</b>
B	SECOND ISSUE	PSK	21APR15				PSK	BK	Supervising Officer <b>AECOM</b>			
Scale: 1:500 @ A1 / 1:1000 @ A3										Drawing no. <b>J3518/T/GCL/SK/1083</b> Rev. <b>B</b>		



DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.



**KEY PLAN**  
SCALE 1 : 40000



**LEGEND :**

- SITE BOUNDARY
- EXPRESSWAY BOUNDARY
- MTRC RAILWAY PROTECTION BOUNDARY
- BOUNDARY OF LOT MTRL 2RP
- LCSO A/FCO DEMARCATION LINE WITH VETTING DEPARTMENTS SHOWN THUS
- SSE-D/E/F/D EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- DUR. REP.
- BOU. SPE.
- LIG. SIN.

ABB	SCIENTIFIC NAME	CHINESE NAME	SPACING (mm)	OVERALL HEIGHT & WIDTH (mm)	QTY
LIG. SIN.	LIGUSTRUM SINENSE	山指甲	400	300 x 250mm	900

Rev	Description	By	Date	Rev	Description	By	Date
A	FIRST ISSUE	PSK	17MAR15				
B	SECOND ISSUE	PSK	21APR15				
C	THIRD ISSUE	PSK	16JUN 15				
D	FOURTH ISSUE	PSK	19AUG15				

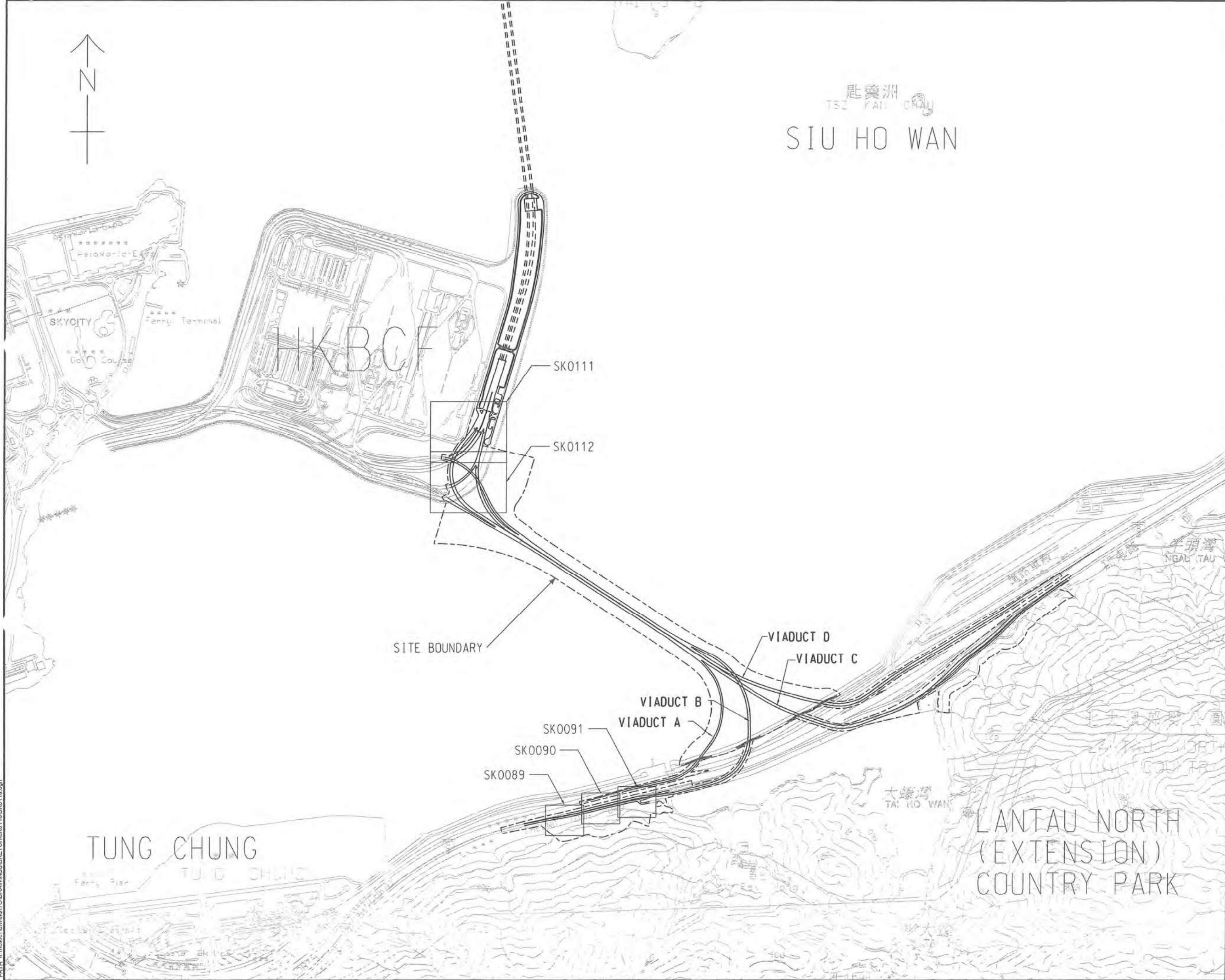
Drawn	Date	Checked	Approved
AY	17/MAR/2015	PSK	BK

Scale: 1:800 @ A1 / 1:1200 @ A3

Client	<b>路政署</b> <b>HIGHWAYS DEPARTMENT</b> 港珠澳大橋香港工程管理有限公司 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office	Project Title	Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section	Drawing title	<b>REINSTATEMENT PLANTING PROPOSAL</b>
Supervising Officer	<b>AECOM</b>	Contractor	<b>Gammon</b>	Originator	<b>LAMBETH</b>
				Drawing no.	J3518/T/GCL/SK/1083
				Rev.	D

Printed by : 8/10/2015  
 File Name : M:\J3518 - TMLK Southern Connection Viaduct Section\Drawings\Design\Sketch\Tree Plantation\J3518\_T\_GCL\_SK\_1083.dgn





匙羹洲  
TSZ KAI CHAU  
SIU HO WAN

TUNG CHUNG

LANTAU NORTH  
(EXTENSION)  
COUNTRY PARK

REV.	DATE	DESCRIPTION	YWK	GH	CL
-	20/07/15	FOR PLANTING PROPOSAL			

CLIENT  
 路政署  
 HIGHWAYS DEPARTMENT  
 港務處大橋管理工程處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
 TUEN MUN -  
 CHEK LAP KOK LINK

CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK  
 - SOUTHERN CONNECTION  
 VIADUCT SECTION

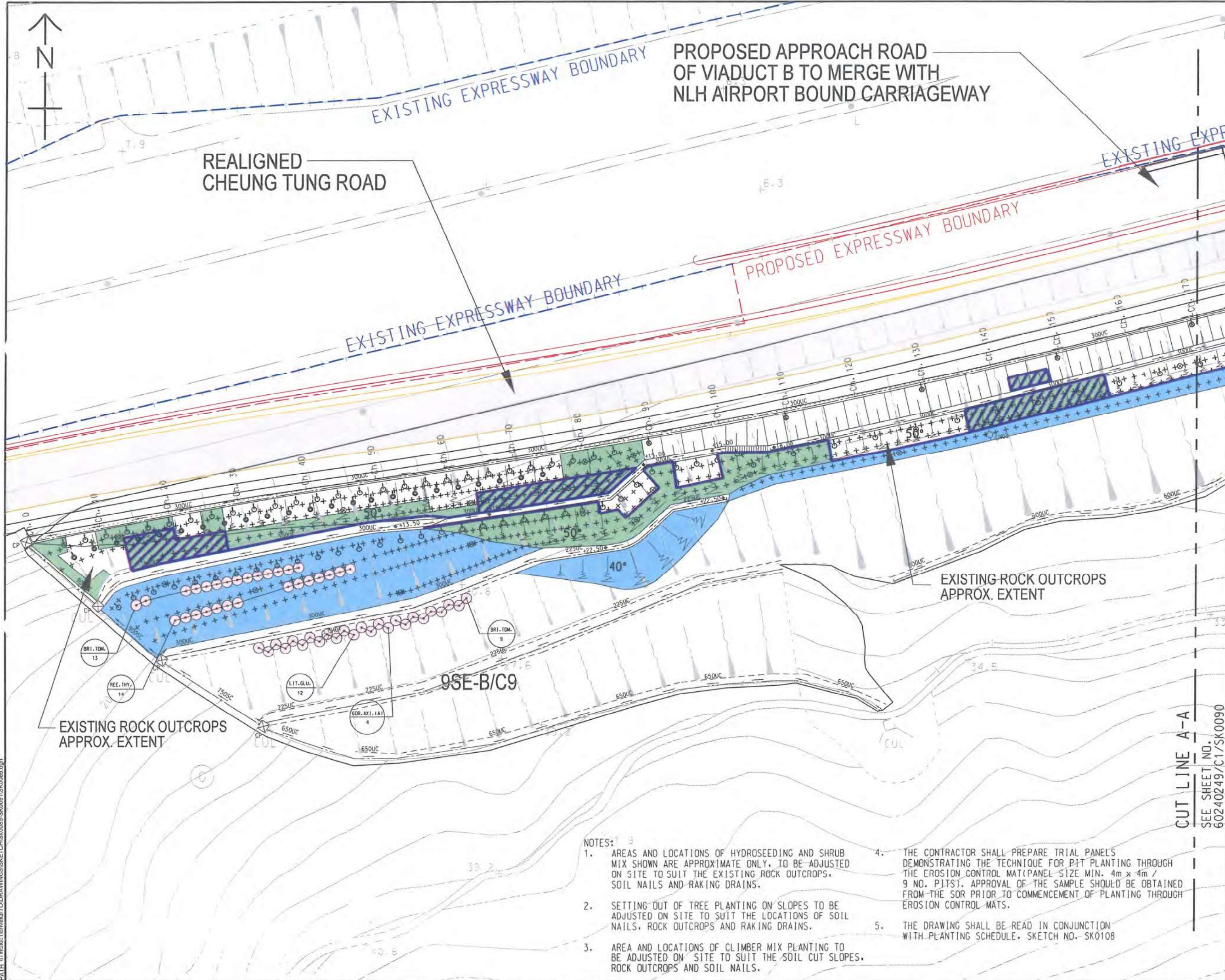
TITLE  
 KEY PLAN FOR  
 PLANTING PLANS

DRAWING REFERENCE  
 60240249/C1/1000A SCALE 1:8000 (A1)  
 1:16000 (A3)

DRAWN YWK	PREPARED GH	APPROVED CL
SKETCH NO.	SK0118	REV. -

Plot File by: RT0C2 24-Jul-15  
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PROPOSED APPROACH ROAD OF VIADUCT B TO MERGE WITH NLH AIRPORT BOUND CARRIAGEWAY

REALIGNED CHEUNG TUNG ROAD

EXISTING ROCK OUTCROPS APPROX. EXTENT

EXISTING ROCK OUTCROPS APPROX. EXTENT

95E-B/C9

NOTES:

1. AREAS AND LOCATIONS OF HYDROSEEDING AND SHRUB MIX SHOWN ARE APPROXIMATE ONLY, TO BE ADJUSTED ON SITE TO SUIT THE EXISTING ROCK OUTCROPS, SOIL NAILS AND RAKING DRAINS.
2. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE LOCATIONS OF SOIL NAILS, ROCK OUTCROPS AND RAKING DRAINS.
3. AREA AND LOCATIONS OF CLIMBER MIX PLANTING TO BE ADJUSTED ON SITE TO SUIT THE SOIL CUT SLOPES, ROCK OUTCROPS AND SOIL NAILS.
4. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
5. THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0108

**LEGEND:**

- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- LIMIT OF WORKS AREA
- PROPOSED TREE MAINTENANCE UNDER TAKEN BY HYD
- SSE - D/F TD
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- PROPOSED MAX 70° ROCK CUT SLOPE
- PROPOSED SOIL NAIL
- PROPOSED RAKING DRAIN (TYPE 1)
- PROPOSED RAKING DRAIN (TYPE 2)
- PROPOSED RAKING DRAIN (TYPE 3)
- PROPOSED PULL OUT TEST
- PROPOSED MAX 50° SOIL CUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED SHRUB MIX
- PROPOSED CLIMBER MIX AT SOIL ZONE INTERFACE AND AT TOE OF SOIL CUT SLOPES
- PROPOSED CLIMBER MIX

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	25-03-15	PLANTING ON SLOPES	YWK	GH	CL

CLIENT  
 路政署  
 HIGHWAYS DEPARTMENT  
 港務局大橋及橋樑工程處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
 TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

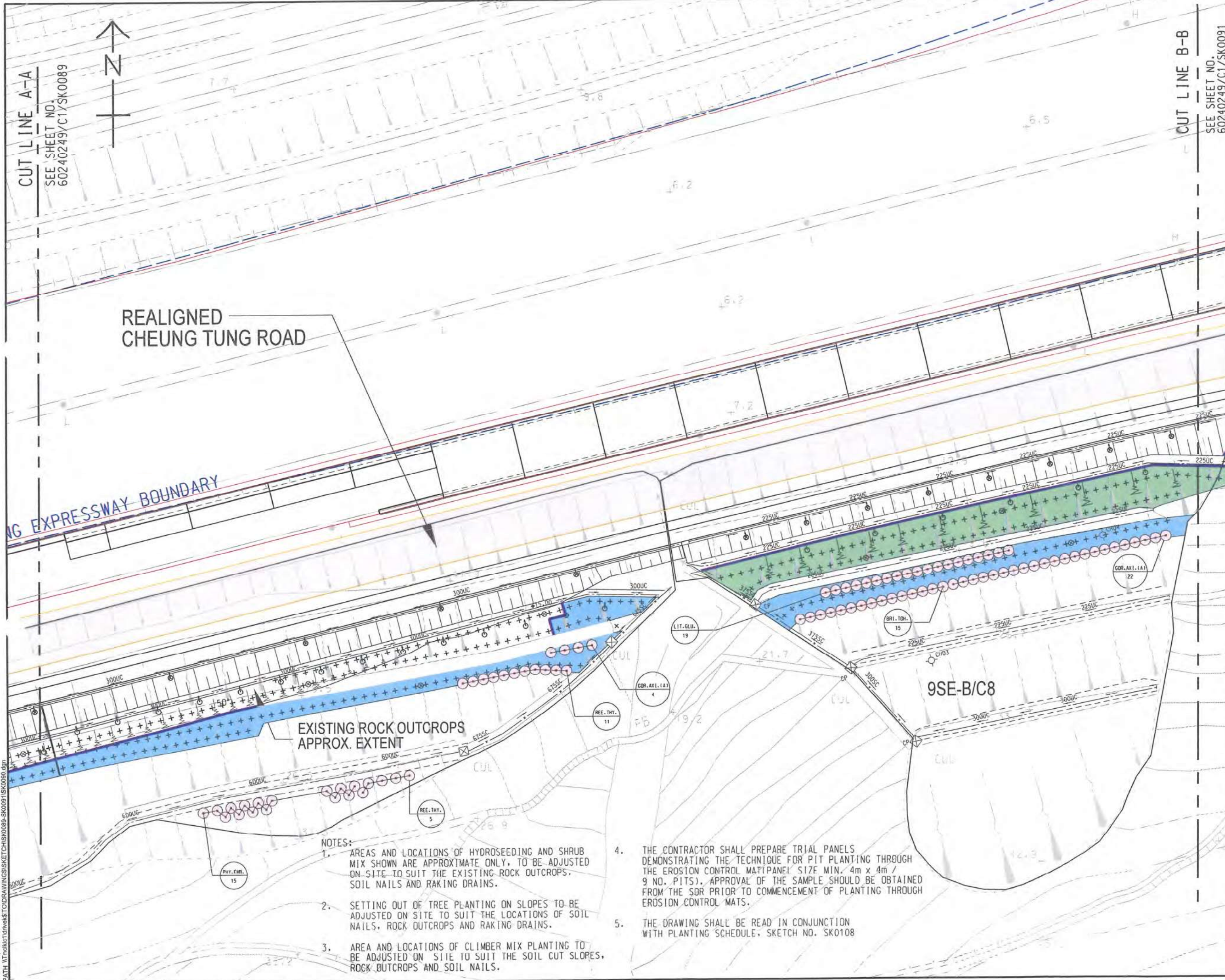
TITLE  
 PLANTING PLAN FOR SLOPES 95E-B/C8, 95E-B/C9 AND 95E-B/F9 ADJACENT TO CHEUNG TUNG ROAD, NORTH LANTAU

SHEET 1 OF 3

DRAWING REFERENCE	SCALE	
60240249/C1/1746C	1:500 (A3)	
DRAWN	PREPARED	APPROVED
YWK	GH	CL
SKETCH NO.	REV.	
SK0089		

Plot File by: RTOC2 28-Jul-15 PATH \\media\1\drives\1\DRAWINGS\SKETCH\SK0089-SK0091\SK0089.dgn





**LEGEND:**

- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- LIMIT OF WORKS AREA
- PROPOSED TREE MAINTENANCE UNDER TAKEN BY HYD
- EXISTING SIMAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- PROPOSED MAX 70° ROCK CUT SLOPE
- PROPOSED SOIL NAIL
- PROPOSED RAKING DRAIN (TYPE 1)
- PROPOSED RAKING DRAIN (TYPE 2)
- PROPOSED RAKING DRAIN (TYPE 3)
- PROPOSED PULL OUT TEST
- PROPOSED MAX 50° SOIL CUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED SHRUB MIX
- PROPOSED CLIMBER MIX AT SOIL/ROCK INTERFACE AND AT TOE OF SOIL CUT SLOPES
- PROPOSED CLIMBER MIX

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	25/03/15	PLANTING ON SLOPES	YWK	GH	CL
CLIENT					
<b>HIGHWAYS DEPARTMENT</b> 港務處大橋及港工經營處 Hong Kong - Zhuhai - Macao Bridge Hong Kong Project Management Office					
PROJECT					
TUEN MUN - CHEK LAP KOK LINK					
CONTRACT NO.					
HY/2012/07					
CONTRACT TITLE					
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION					
TITLE					
PLANTING PLAN FOR SLOPES 9SE-B/C8, 9SE-B/C9 AND 9SE-B/F9 ADJACENT TO CHEUNG TUNG ROAD, NORTH LANTAU					
DRAWING REFERENCE					
60240249/C1/1746C					
SCALE					
1:500 (A3)					
DRAWN					
YWK					
PREPARED					
GH					
APPROVED					
CL					
SKETCH NO.					
SK0090					
REV.					
-					

- NOTES:**
- AREAS AND LOCATIONS OF HYDROSEEDING AND SHRUB MIX SHOWN ARE APPROXIMATE ONLY, TO BE ADJUSTED ON SITE TO SUIT THE EXISTING ROCK OUTCROPS, SOIL NAILS AND RAKING DRAINS.
  - SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE LOCATIONS OF SOIL NAILS, ROCK OUTCROPS AND RAKING DRAINS.
  - AREA AND LOCATIONS OF CLIMBER MIX PLANTING TO BE ADJUSTED ON SITE TO SUIT THE SOIL CUT SLOPES, ROCK OUTCROPS AND SOIL NAILS.
  - THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SGR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
  - THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0108

Plot File by: RTOC2  
 28-Jul-15  
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CUT LINE B-B  
SEE SHEET NO.  
60240249/C1/SK0090

NORTH LANTAU HIGHWAY

REALIGNED  
CHEUNG TUNG ROAD

ABUTMENT OF VIADUCT B

Photo 56

Registered as:  
9SE-B/C112

**LEGEND:**

- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- LIMIT OF WORKS AREA
- PROPOSED TREE MAINTENANCE UNDER TAKEN BY HYD
- SSE - D/F/D EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- PROPOSED MAX 70° ROCK CUT SLOPE
- PROPOSED SOIL NAIL
- PROPOSED RAKING DRAIN (TYPE 1)
- PROPOSED RAKING DRAIN (TYPE 2)
- PROPOSED RAKING DRAIN (TYPE 3)
- PROPOSED PULL OUT TEST
- PROPOSED MAX 50° SOIL CUT SLOPE
- PROPOSED HYDROSEEDING
- PROPOSED SHRUB MIX
- PROPOSED CLIMBER MIX AT SOIL/ROCK INTERFACE AND AT TOE OF SOIL CUT SLOPES
- PROPOSED CLIMBER MIX

REV.	DATE	DESCRIPTION	DRAWN	PREP.	APP.
-	25-03-15	PLANTING ON SLOPES	YWK	GH	CL

路政署  
HIGHWAYS DEPARTMENT  
港珠澳大橋香港邊境管理處  
Hong Kong - Zhuhai - Macao Bridge  
Hong Kong Project Management Office

**AECOM**

PROJECT  
TUEN MUN - CHEK LAP KOK LINK

CONTRACT NO.  
HY/2012/07

CONTRACT TITLE  
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
PLANTING PLAN FOR SLOPES 9SE-B/C8, 9SE-B/C9 AND 9SE-B/F9 ADJACENT TO CHEUNG TUNG ROAD, NORTH LANTAU

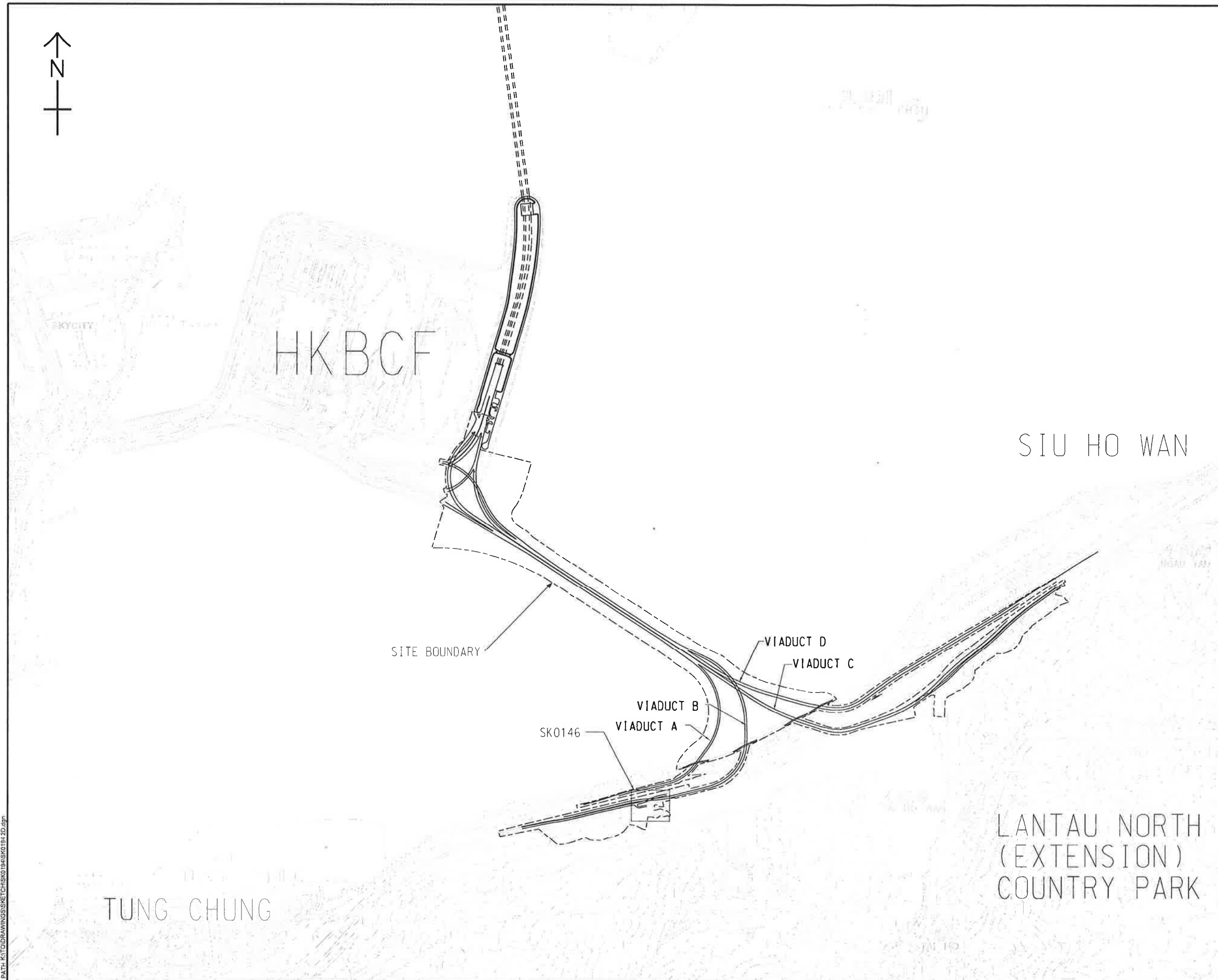
SHEET 3 OF 3

DRAWING REFERENCE 60240249/C1/1746C	SCALE 1:500 (A3)
DRAWN YWK	PREPARED GH
SKETCH NO. SK0091	APPROVED CL

- NOTES:**
1. AREAS AND LOCATIONS OF HYDROSEEDING AND SHRUB MIX SHOWN ARE APPROXIMATE ONLY, TO BE ADJUSTED ON SITE TO SUIT THE EXISTING ROCK OUTCROPS, SOIL NAILS AND RAKING DRAINS.
  2. SETTING OUT OF TREE PLANTING ON SLOPES TO BE ADJUSTED ON SITE TO SUIT THE LOCATIONS OF SOIL NAILS, ROCK OUTCROPS AND RAKING DRAINS.
  3. AREA AND LOCATIONS OF CLIMBER MIX PLANTING TO BE ADJUSTED ON SITE TO SUIT THE SOIL CUT SLOPES, ROCK OUTCROPS AND SOIL NAILS.
  4. THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT-PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
  5. THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0108

Plot File by: RT0C2 28-Jul-15 PATH: \\mckk1\drive\1\TO DRAWINGS\SKETCH\SK0091\SK0091.dgn





Plot File by: RSTOC1 2014 Aug 16  
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REV.	DATE	DESCRIPTION	DRWN	PRE.	APP.
-	22/08/16	KEY PLAN FOR PLANTING PLAN	KYL	GH	CL

路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程管理有限公司  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
 TUEN MUN - CHEK LAP KOK LINK

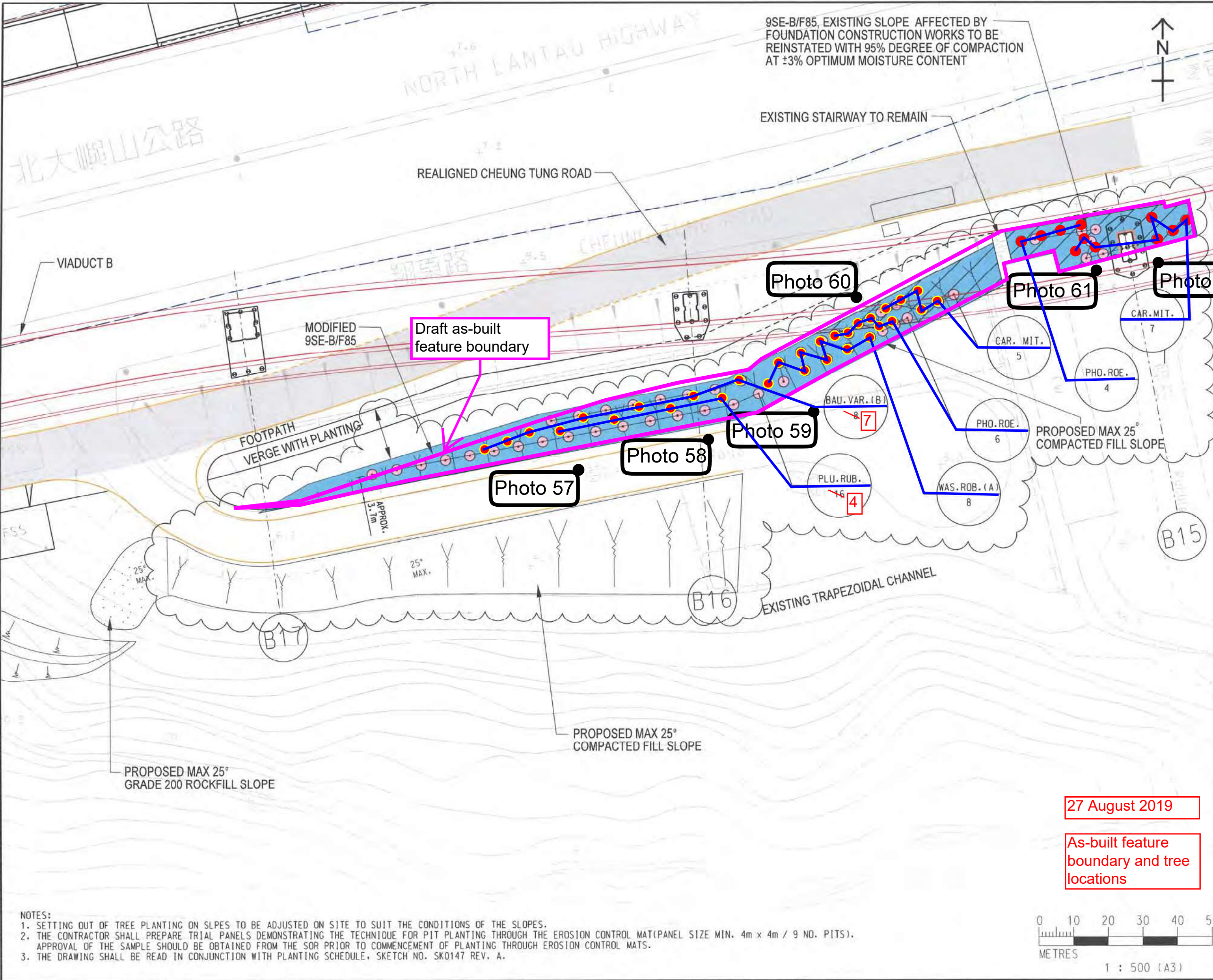
CONTRACT NO.  
 HY/2012/07

CONTRACT TITLE  
 TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
 KEY PLAN FOR PLANTING PLAN

DRAWING REFERENCE		SCALE 1:8000 (A1)	
60240249/C1/1000A		1:16000 (A3)	
DRWN	PREPARED	APPROVED	
KYL	GH	CL	
SKETCH NO.	REV.		
SK0194	-		





**LEGEND:**

- EXISTING EXPRESSWAY BOUNDARY
- PROPOSED EXPRESSWAY BOUNDARY
- SSE - D/F70 EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED ENGINEERING LAYOUT-VIADUCT
- PROPOSED ENGINEERING LAYOUT-REALIGNMENT OF CHEUNG TUNG ROAD
- PIER MARK
- PROPOSED MAX 25° COMPACTED FILL SLOPE
- PROPOSED MAX 25° GRADE 200 ROCKFILL SLOPE
- PROPOSED TREE MAINTENANCE UNDERTAKEN BY HYD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE
- PROPOSED SHRUB MIX A
- PROPOSED SHRUB MIX B
- PROPOSED CLIMBER MIX AT SOIL/ROCK INTERFACE AND AT TOE OF SLOPE CUTS
- PROPOSED CLIMBER FOR PIERS OF VIADUCT

REV.	DATE	DESCRIPTION	DRAWN	PREL.	APP.
A	17-10-16	PLANTING ON SLOPES REVISED	KYL	GH	CL
-	25-08-16	PLANTING ON SLOPES	KYL	GH	CL

CLIENT  
 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大桥香港工程管理有限公司  
 Hong Kong - Zhuhai - Maкао Bridge  
 Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

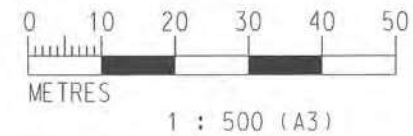
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**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**PLANTING PLAN FOR FEATURE NO. 9SE-B/F85**

DRAWING REFERENCE 60240249/C1/1745C	SCALE 1:500 (A3)
DRAWN KYL	PREPARED GH
SKETCH NO. SK0146	APPROVED CL
	REV. A

27 August 2019  
 As-built feature boundary and tree locations



- NOTES:**
- SETTING OUT OF TREE PLANTING ON SLPES TO BE ADJUSTED ON SITE TO SUIT THE CONDITIONS OF THE SLOPES.
  - THE CONTRACTOR SHALL PREPARE TRIAL PANELS DEMONSTRATING THE TECHNIQUE FOR PIT PLANTING THROUGH THE EROSION CONTROL MAT (PANEL SIZE MIN. 4m x 4m / 9 NO. PITS). APPROVAL OF THE SAMPLE SHOULD BE OBTAINED FROM THE SOR PRIOR TO COMMENCEMENT OF PLANTING THROUGH EROSION CONTROL MATS.
  - THE DRAWING SHALL BE READ IN CONJUNCTION WITH PLANTING SCHEDULE, SKETCH NO. SK0147 REV. A.

Plot File: RST001\_14-Nov-18 PATH: K:\DRAWINGS\SET\CH\SK0146-SK0147\SK0146-SK0147\SK0146-SK0147 (To EPD).dgn

**Contract No. HY/2012/07 (C1) Landscape Area Checking for EP Condition 2.9**

Area Code	Location	Plan Area (sq.m.) Approx.	Average Slope Angle	Plane Area (sq.m.) Approx.
N1	CTR	1575	0	1575
N2	CTR	264	0	264
N3	NLH	34	0	34
N4	NLH	1824	0	1824
N5	CTR	725	0	725
N6	CTR	14273	0	14273
N7	NLH	9095	0	9095
N8	NLH	918	0	918
N9	NLH	1302	0	1302
N10	NLH	6413	0	6413
N11	NLH	29	0	29
N12	NLH	489	0	489
N13	CTR and NLH	447	0	447
N14	CTR and NLH	983	0	983
N15	CTR	359	0	359
N16	CTR	130	0	130
N17	NLH	963	0	963
N18	NLH	454	0	454
N19	NLH	1028	0	1028
N20	NLH	464	0	464
N21	NLH	370	0	370
S1	CTR - PF2	607	27	681
S2	CTR - PF1	230	27	258
S3	10NW-C/F13, C/F14, C/F15	8483	26	9438
S4	10NW-C/F50(de-registered)	968	20	1030
S5	10NW-C/F52	619	27	695
S6	NLH - RD1	317	27	356
S7	10NW-C/F10	2515	27	2823
S8	10NW-C/F11	2893	27	3247
S9	10NW-C/F17	3138	27	3522
S10	10NW-C/F9	3052	26	3396
S11	9SE-B/F85	714	25	788
S12	9SE-B/C112	450	50	700
S13	9SE-B/C8	2832	40	3697
S14	9SE-B/C9	7361	45	10410
-	Southern Landfall	47120	0	47120
<b>Sub-total (A)</b>				<b>130300</b>
DSD Project: DC/2016/01 Entrusted Landscape Works along Cheung Tung Road	CTR	13834	0	13834
<b>Sub-total (B)</b>				<b>13834</b>
<b>Total (A) + (B)</b>				<b>144134</b>

ABBREVIATIONS

CTR Cheung Tung Road  
 NLH North Lantau Highway





- LEGEND:**
- SITE BOUNDARY
  - AS-BUILT U-Channel
  - AS-BUILT MAINTENANCE ACCESS
  - AS-BUILT MAINTENANCE FOOTPATH
  - AS-BUILT PLANTING
  - ENGINEERING LAYOUT-VIADUCT
  - D19 PIER MARK
  - AREA BOUNDARY

APPROVED AND CONFIRMED BY  
 TITLE  
**AECOM (RLS)**  
 NAME  
**SAMMY TSOI**  
 SIGNATURE

**FOR INFORMATION**

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.

CLIENT  
**HIGHWAYS DEPARTMENT**  
 港務局大橋及港地工程管理處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM** Imagine it. Delivered.

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
**HY/2012/07**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION**

TITLE  
**LANDSCAPE AREA A (SOUTHERN LANDFALL)**

DRAWING REFERENCE  
**NEW DRAWING** SCALE 1:1000 (A1)  
 1:2000 (A3)

DRAWN	PREPARED	APPROVED
KW	CL	CL

SKETCH NO. SK-0600 REV. -



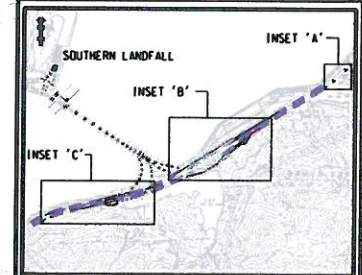
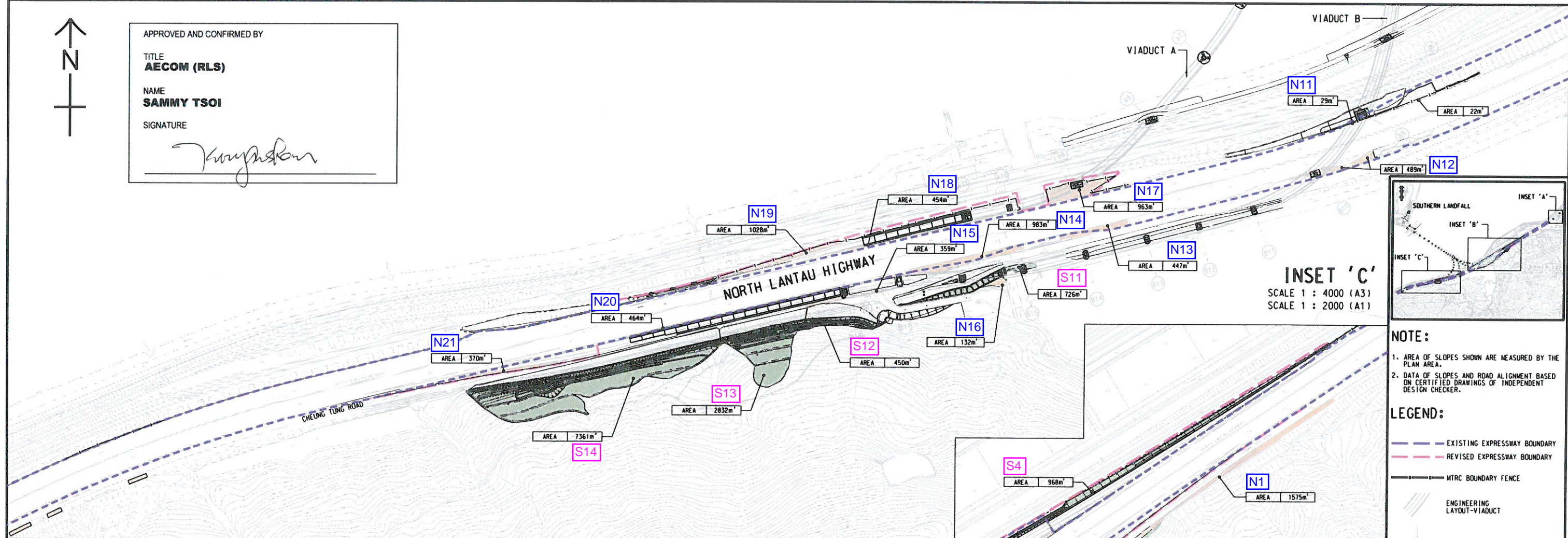


APPROVED AND CONFIRMED BY

TITLE  
**AECOM (RLS)**

NAME  
**SAMMY TSOI**

SIGNATURE



**INSET 'C'**  
SCALE 1 : 4000 (A3)  
SCALE 1 : 2000 (A1)

**NOTE:**  
1. AREA OF SLOPES SHOWN ARE MEASURED BY THE PLAN AREA.  
2. DATA OF SLOPES AND ROAD ALIGNMENT BASED ON CERTIFIED DRAWINGS OF INDEPENDENT DESIGN CHECKER.

- LEGEND:**
- EXISTING EXPRESSWAY BOUNDARY
  - REVISED EXPRESSWAY BOUNDARY
  - MTRC BOUNDARY FENCE
  - ENGINEERING LAYOUT-VIADUCT
  - PIER MARK
  - NON-SLOPE AREA
  - SLOPE AREA

**FOR INFORMATION**

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
-	03/09/20	LANDSCAPE AREA	KW	CL	CL

路政署  
**HIGHWAYS DEPARTMENT**  
香港國際機場工程管理局  
Hong Kong - Zhuhai - Macao Bridge  
Hong Kong Project Management Office

**AECOM**

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT NO.  
HY/2012/07

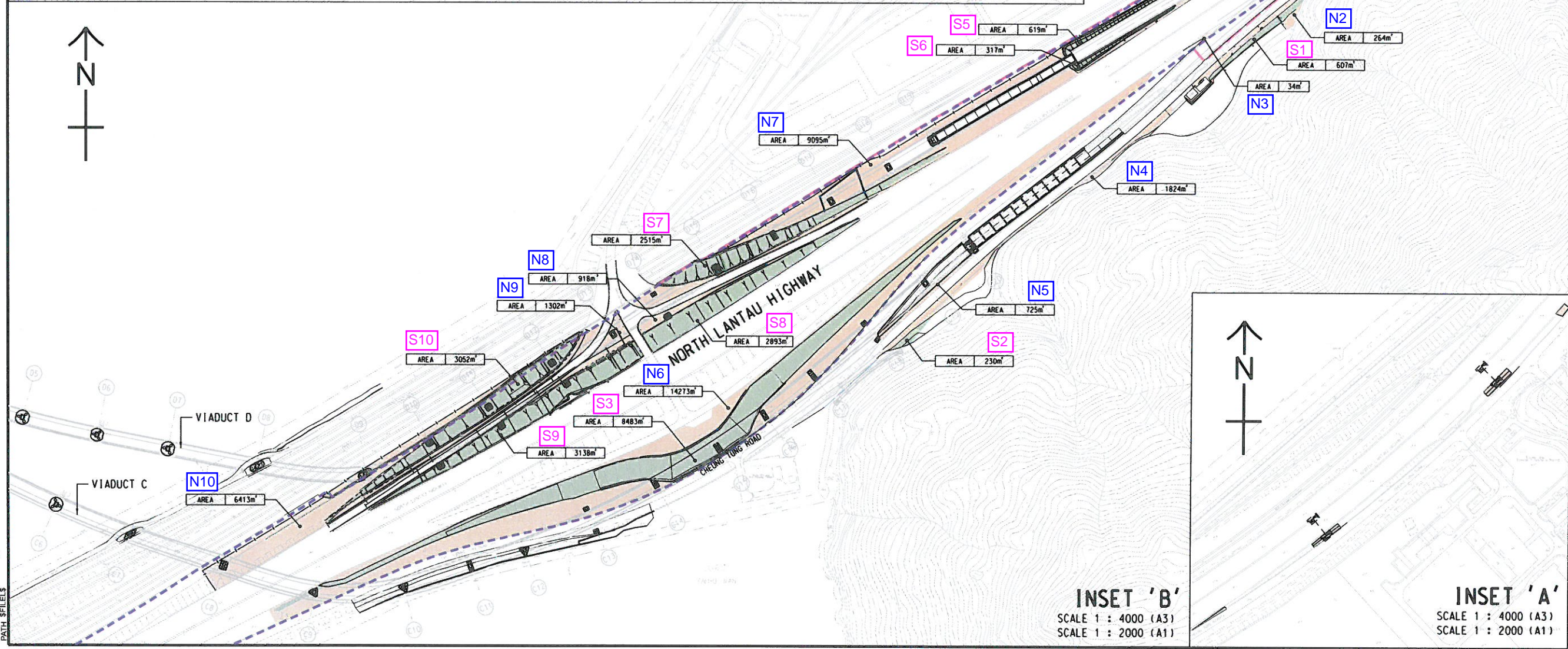
CONTRACT TITLE  
TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

TITLE  
LANDSCAPE AREA

DRAWING REFERENCE	SCALE
-	1:2000 (A1) 1:4000 (A3)

DRAWN	PREPARED	APPROVED
KW	CL	CL

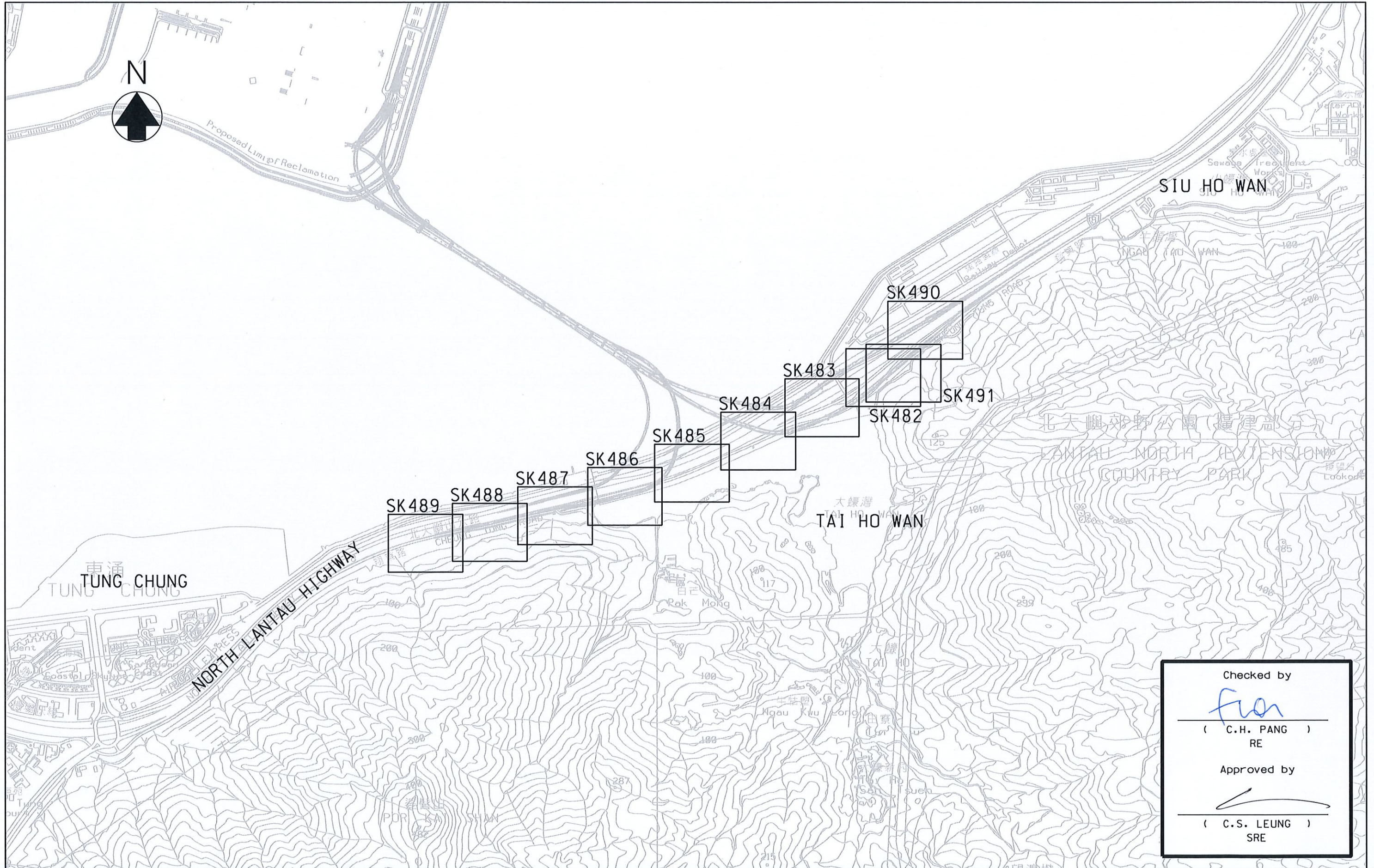
SKETCH NO. SK0598



**INSET 'B'**  
SCALE 1 : 4000 (A3)  
SCALE 1 : 2000 (A1)

**INSET 'A'**  
SCALE 1 : 4000 (A3)  
SCALE 1 : 2000 (A1)





Checked by  
*Fan*  
 ( C.H. PANG )  
 RE  
 Approved by  
*[Signature]*  
 ( C.S. LEUNG )  
 SRE

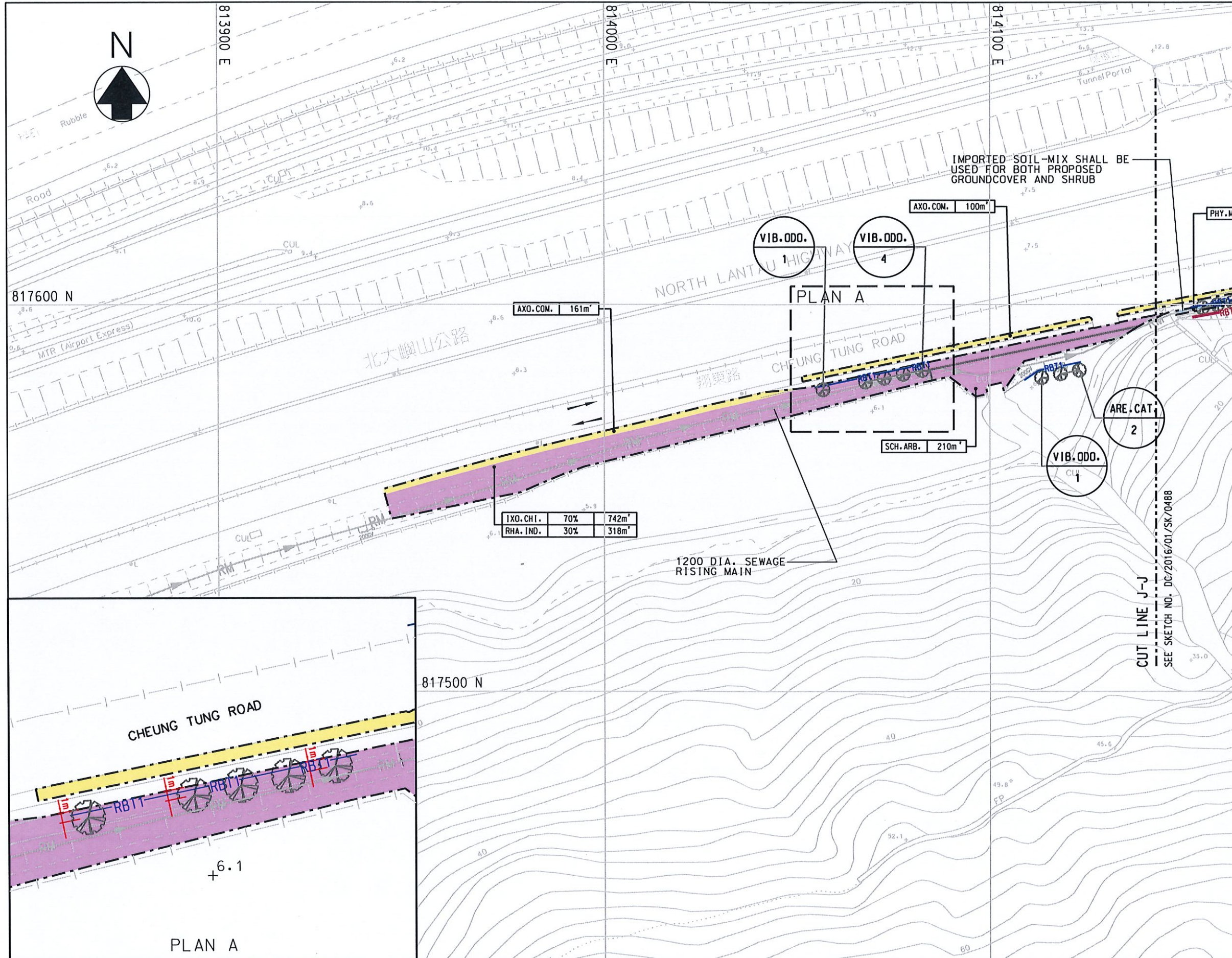
Project	CONTRACT NO. DC/2016/01 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS 建造東涌至小蠔灣額外污水泵喉及附屬工程
Title	KEY PLAN OF PLANTING PLAN


 香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE  
 HONG KONG  
 SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT  
  
  
 BLACK & VEATCH HONG KONG LIMITED  
 博威工程顧問有限公司

Drawn by	PL	Date	14/06/2018
Checked by	FNT	Scale	A3 1 : 15000
Approved by	TC	Sketch no.	DC/2016/01/SK/0481
		Revision	B

Plot Date = 9/9/2020





- LEGEND:**
- LANDSCAPE LIMIT
  - RM RISING MAIN
  - PROPOSED GROUNDCOVER (1200mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
  - PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
  - PROPOSED PIT PLANTING (INDIVIDUAL EXCAVATIONS TO ACCOMMODATE REPLANTED TREES 600mm THK. FOR SHRUB 1200mm THK. FOR TREES)
  - PHY. MYR. SPECIES AREA (sq. m)
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
  - RBT1 RBT1 ROOT BARRIER (TYPE I)
  - RBT2 RBT2 ROOT BARRIER (TYPE II)

1531m<sup>2</sup>

Checked by  
*(Signature)*  
 ( C.H. PANG )  
 RE  
 Approved by  
*(Signature)*  
 ( C.S. LEUNG )  
 SRE

- NOTES:**
- SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
  - THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
  - IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

**Project** CONTRACT NO. DC/2016/01  
 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS  
 建造東涌至小蠔灣額外污水泵喉及附屬工程

**Title** PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 8 OF 8)

香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE HONG KONG  
 SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
 博誠工程顧問有限公司

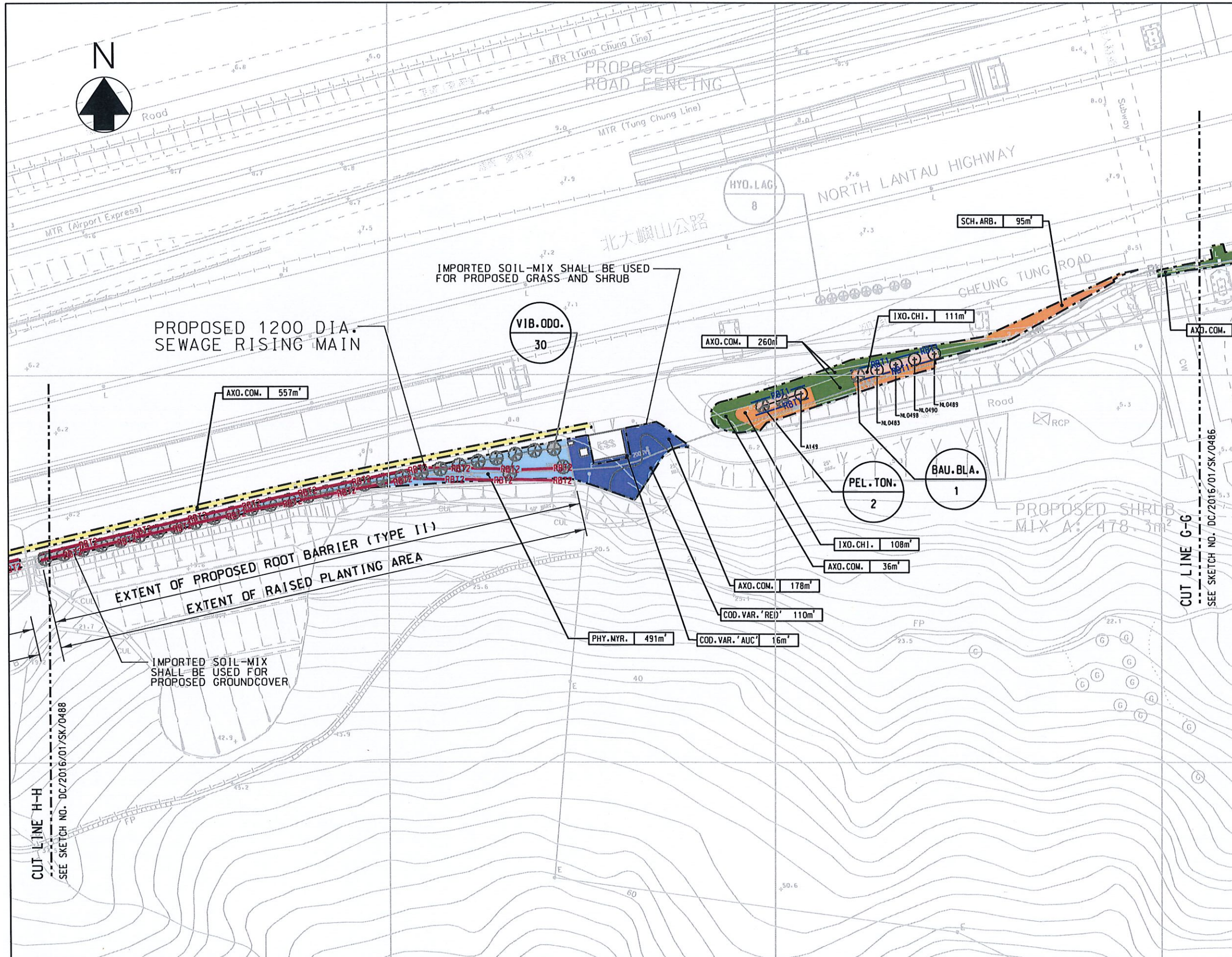
Drawn by	W T L	Date	19/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0489
		Revision	F

Plot Date = 9/9/2020









- LEGEND:**
- LANDSCAPE LIMIT
  - RM RISING MAIN
  - PROPOSED GROUNDCOVER (1200mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
  - PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
  - PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
  - PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
  - PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
  - PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
  - PROPOSED GRASS AND SHRUB (600mm THK. SOIL-MIX FOR GRASS AND SHRUB PLANTING)
  - SPECIES AREA(sq.m)
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD
  - RBT1- RBT1- ROOT BARRIER (TYPE I)
  - RBT2- RBT2- ROOT BARRIER (TYPE II)

Checked by  
*(Signature)*  
 ( C.H. PANG )  
 RE

Approved by  
*(Signature)*  
 ( C.S. LEUNG )  
 SRE

**NOTES:**

- SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
- THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
- IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project	CONTRACT NO. DC/2016/01 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS 建造東涌至小蠔灣額外污水泵喉及附屬工程
Title	PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 6 OF 8)

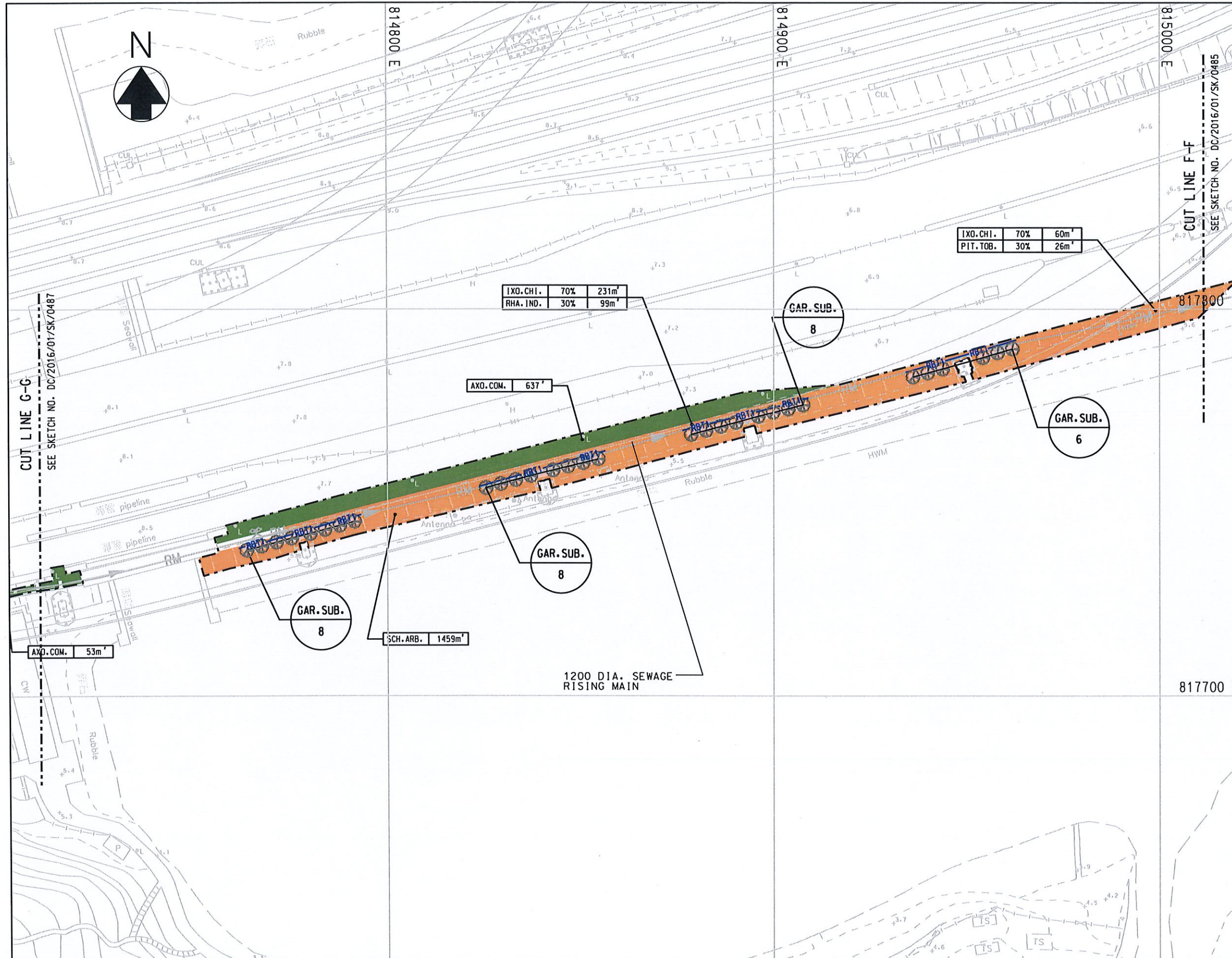
香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE HONG KONG  
 SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
 博達工程顧問有限公司

Drawn by	C F	Date	31/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0487
		Revision	K

Plot Date = 9/9/2020





- LEGEND:**
- LANDSCAPE LIMIT
  - RM RISING MAIN
  - PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
  - PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
  - PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
  - PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
  - RIA.E.C. 905.76m
  - SPECIES AREA@sq.m
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
  - RBT1-RBT1- ROOT BARRIER (TYPE I)
  - RBT2-RBT2- ROOT BARRIER (TYPE II)

2565m<sup>2</sup>

Checked by  
*(Signature)*  
 ( C.H. PANG )  
 RE  
 Approved by  
*(Signature)*  
 ( C.S. LEUNG )  
 SRE

- NOTES:**
- SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
  - THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
  - IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

**Project** CONTRACT NO. DC/2016/01  
 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS  
 建造東涌至小蠔灣額外污水泵喉及附屬工程

**Title** PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 5 OF 8)

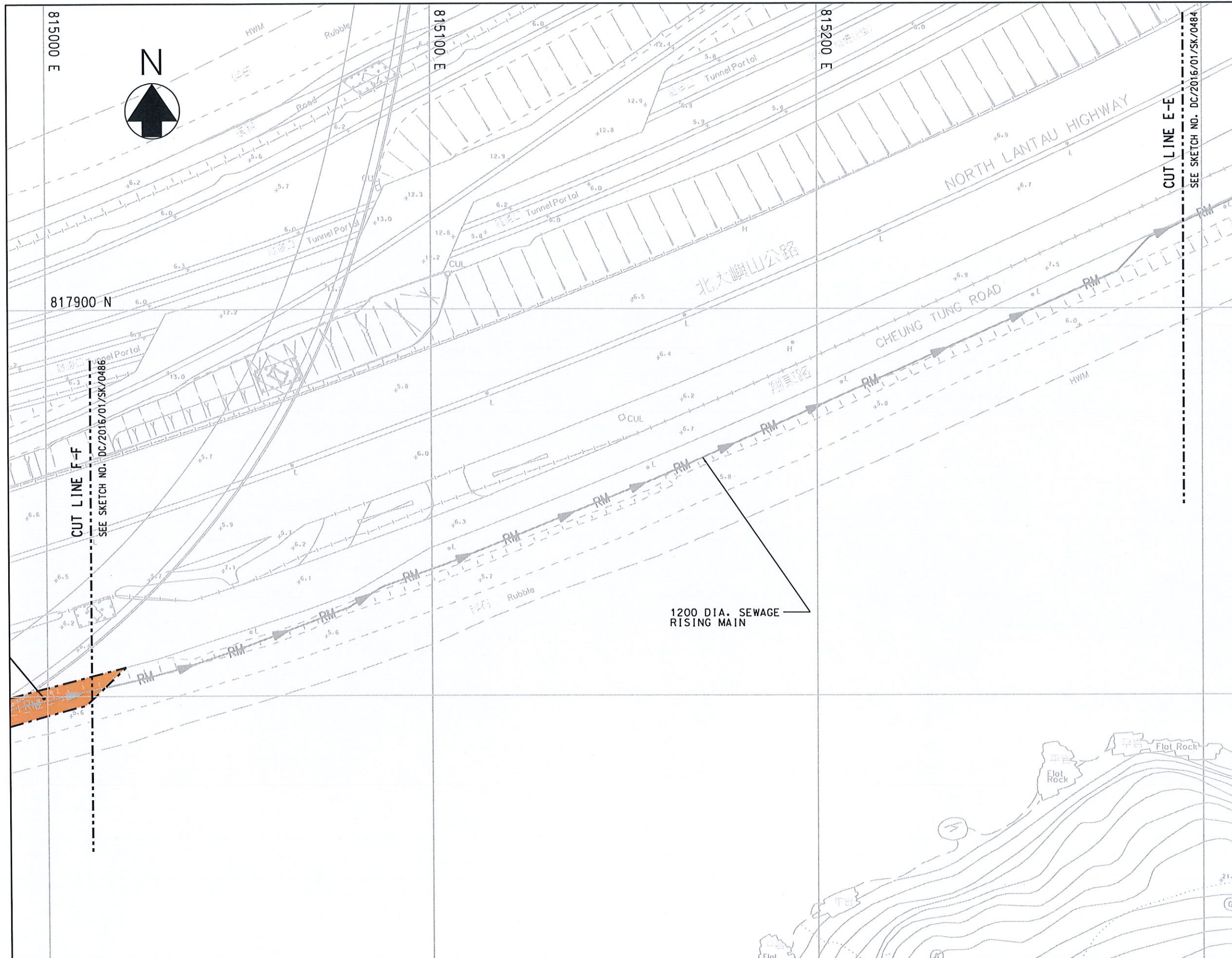
香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
 博威工程顧問有限公司

Drawn by	C F	Date	31/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0486
		Revision	H

Plot Date = 9/9/2020





- LEGEND:**
- LANDSCAPE LIMIT
  - RM RISING MAIN
  - PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
  - PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
  - PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
  - PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
- RIA.EXC. 905.78m<sup>2</sup>  
SPECIES AREA(sq.m)
- PROPOSED TREE - MAINTENANCE UNDERTAKEN BY LCSD
- RBT1- RBT1- ROOT BARRIER (TYPE I)
  - RBT2- RBT2- ROOT BARRIER (TYPE II)

Checked by  
*(Signature)*  
 ( C.H. PANG )  
 RE

Approved by  
*(Signature)*  
 ( C.S. LEUNG )  
 SRE

**NOTES:**

- SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
- THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
- IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

**Project** CONTRACT NO. DC/2016/01  
 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS  
 建造東涌至小蠔灣額外污水泵喉及附屬工程

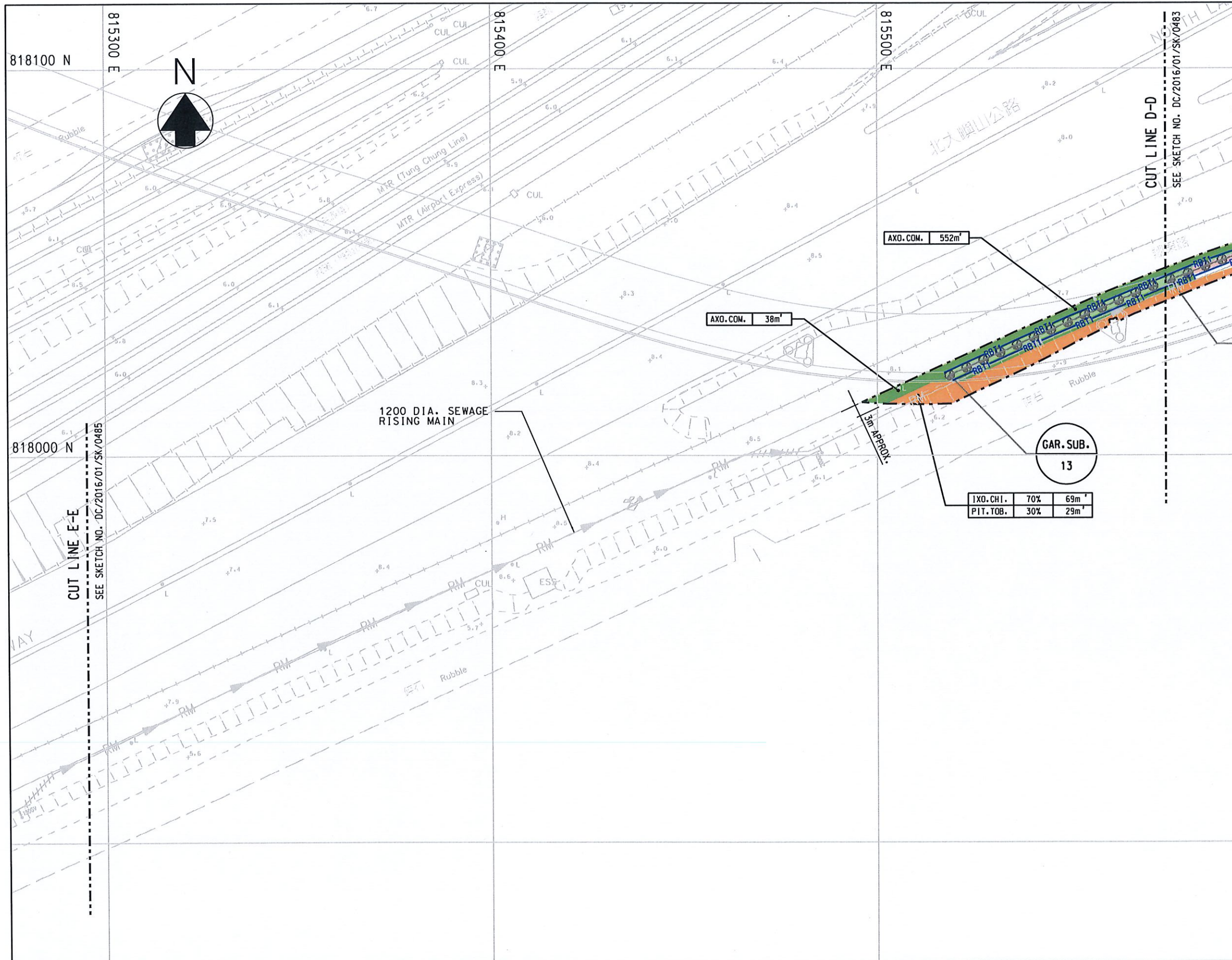
**Title** PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 4 OF 8)

香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
 博威工程顧問有限公司

Drawn by	W T L	Date	31/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0485
		Revision	D





- LEGEND:**
- LANDSCAPE LIMIT
  - RM RISING MAIN
  - PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
  - PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
  - PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
  - PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
  - RMA, EXC. 905.78m<sup>2</sup>
  - SPECIES AREA (sq.m)
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
  - CODE NOS.
  - RBT1- RBT1- ROOT BARRIER (TYPE I)
  - RBT2- RBT2- ROOT BARRIER (TYPE II)

688m<sup>2</sup>

Checked by  
*(Signature)*  
 ( C.H. PANG )  
 RE  
 Approved by  
*(Signature)*  
 ( C.S. LEUNG )  
 SRE

**NOTES:**

- SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
- THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
- IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

**Project** CONTRACT NO. DC/2016/01  
 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS  
 建造東涌至小蠔灣額外污水泵喉及附屬工程

**Title** PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 3 OF 8)

香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
 博威工程顧問有限公司

Drawn by	W T L	Date	31/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0484
		Revision	E

Plot Date = 9/9/2020





- LEGEND:**
- LANDSCAPE LIMIT
  - RM RISING MAIN
  - PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
  - PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
  - PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
  - PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
  - R.H.A. IND. 905.74m
  - SPECIES AREA(m²)
  - PROPOSED TREE, MAINTENANCE UNDERTAKEN BY LCSD
  - RBT1 RBT1 ROOT BARRIER (TYPE I)
  - RBT2 RBT2 ROOT BARRIER (TYPE II)

2207m<sup>2</sup>

Checked by  
*(Signature)*  
 ( C.H. PANG )  
 RE  
 Approved by  
*(Signature)*  
 ( C.S. LEUNG )  
 SRE

- NOTES:**
- SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
  - THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
  - IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

**Project** CONTRACT NO. DC/2016/01  
 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS  
 建造東涌至小蠔灣額外污水泵喉及附屬工程

**Title** PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 2 OF 8)

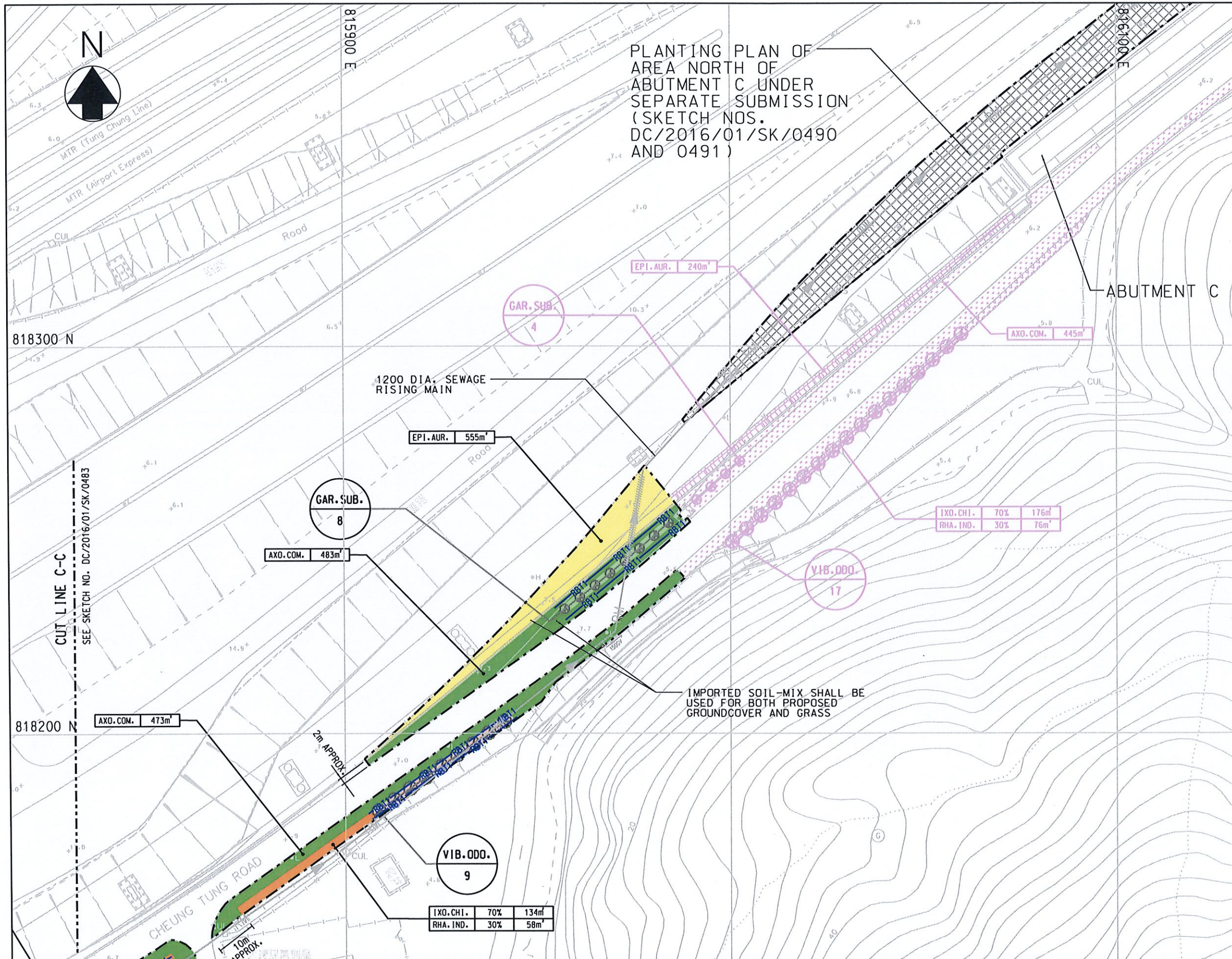
香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE HONG KONG  
 SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
 博威工程顧問有限公司

Drawn by	W T L	Date	31/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0483
		Revision	E

Plot Date = 9/9/2020





- LEGEND:**
- LANDSCAPE LIMIT
  - RM PROPOSED DN1200 RISING MAIN
  - RBT1-RBT1- ROOT BARRIER (TYPE I)
  - RBT2-RBT2- ROOT BARRIER (TYPE II)
  - ⊕ PROPOSED FINAL LOCATION OF TRANSPLANTED TREE. MAINTENANCE UNDERTAKEN BY LCSD

- HANDOVER BY DC/2016/01**
- PROPOSED GROUNDCOVER (450mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
  - PROPOSED TREE AND SHRUB (1200mm THK. SOIL-MIX FOR TREE AND SHRUB PLANTING)
  - PROPOSED SHRUB (600mm THK. SOIL-MIX FOR SHRUB PLANTING)
  - PROPOSED TREE AND GRASS (1200mm THK. SOIL-MIX FOR TREE AND GRASS PLANTING)
  - PROPOSED GRASS (450mm THK. SOIL-MIX FOR GRASS PLANTING)
- RHA. EXC. 905.78m<sup>2</sup>  
SPECIES AREA (sq.m)

- ⊕ PROPOSED TREE. MAINTENANCE UNDERTAKEN BY LCSD
- 1703m<sup>2</sup>

- HANDOVER BY HY/2012/07**
- PROPOSED GROUNDCOVER
  - PROPOSED SHRUB
  - PROPOSED GRASS
- RHA. EXC. 905.78m<sup>2</sup>  
SPECIES AREA (sq.m)
- ⊕ PROPOSED TREE. MAINTENANCE UNDERTAKEN BY LCSD (HANDOVER BY HY/2012/07)

Checked by  
*Fia*  
( C.H. PANG )  
RE

Approved by  
*[Signature]*  
( C.S. LEUNG )  
SRE

- NOTES:**
1. SECTION FOR ROOT BARRIER REFER TO SKETCH NO. DC/2016/01/SK/554.
  2. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
  3. IN-SITU SOIL-MIX SHALL BE USED UNLESS OTHERWISE SPECIFIED.

Project CONTRACT NO. DC/2016/01  
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS  
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title PLANTING PLAN FOR LCSD ALONG CHEUNG TUNG ROAD (SHEET 1 OF 8)

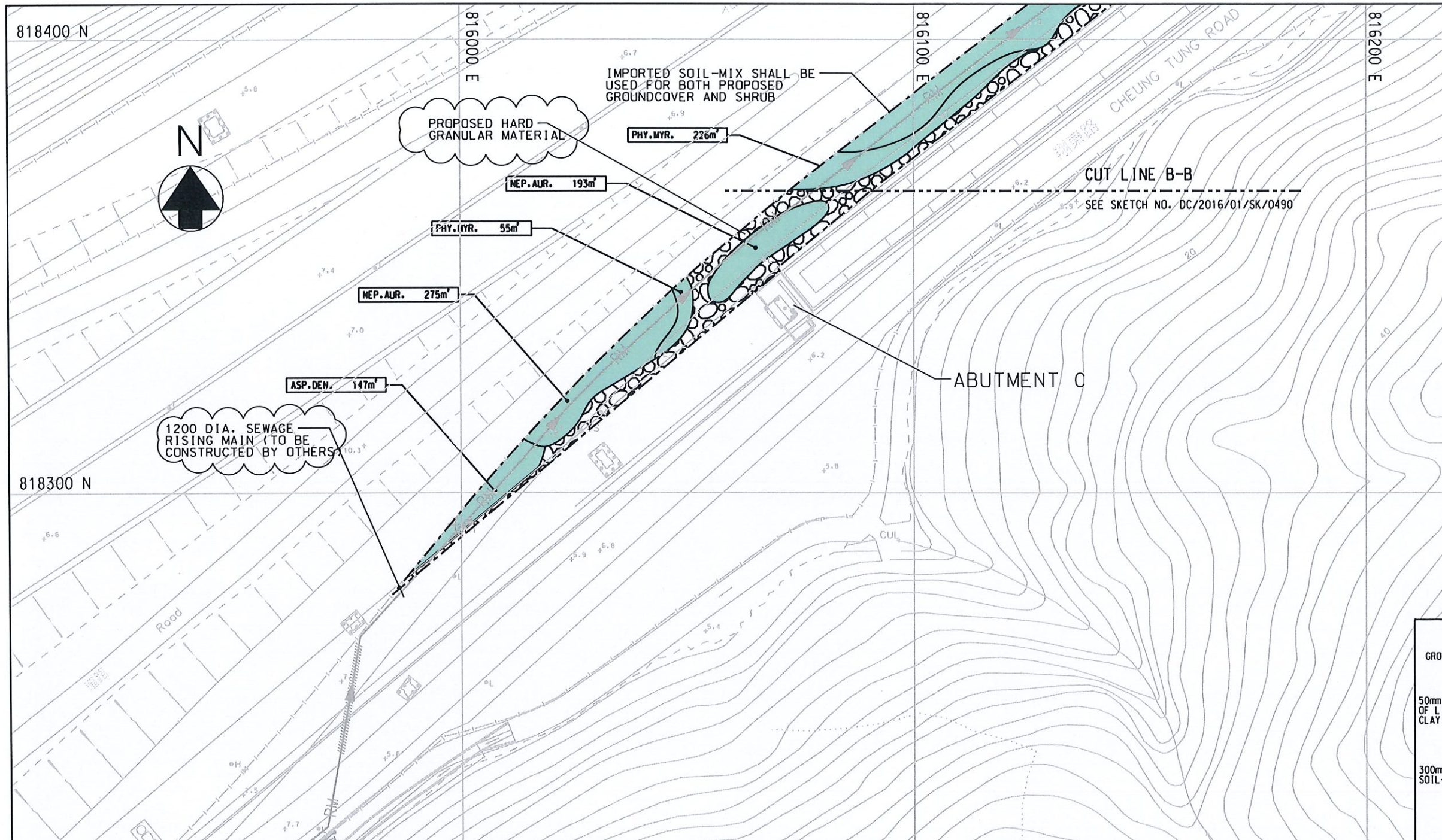
香港特別行政區政府渠務署  
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
博威工程顧問有限公司

Drawn by	W T L	Date	31/07/2019
Checked by	F P	Scale	A3 1 : 1000
Approved by	C L	Sketch no.	DC/2016/01/SK/0482
		Revision	K

Plot Date = 9/9/2020

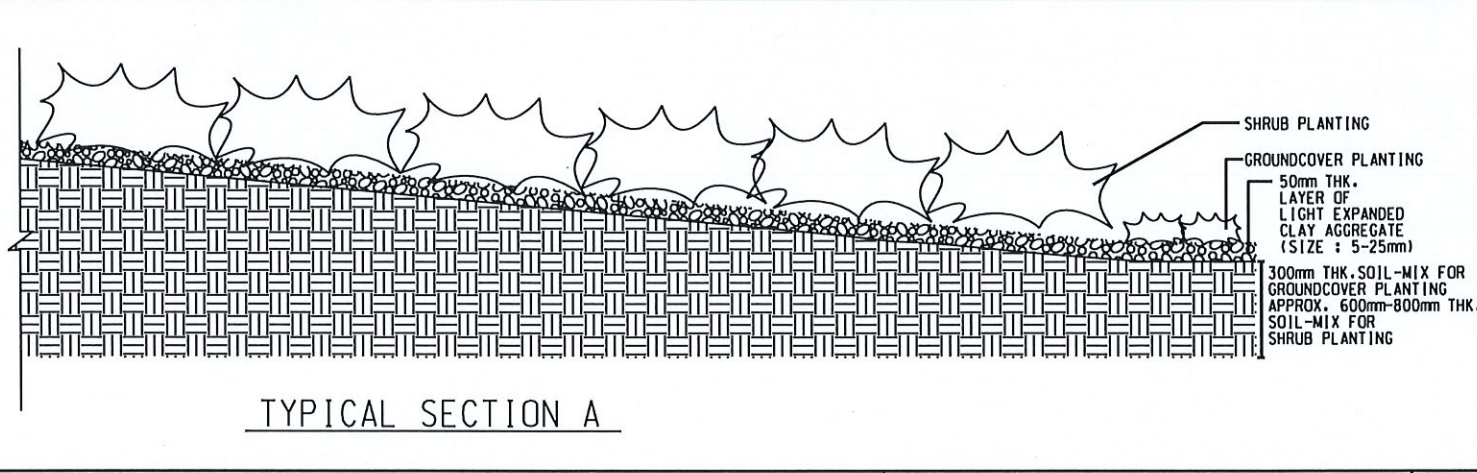
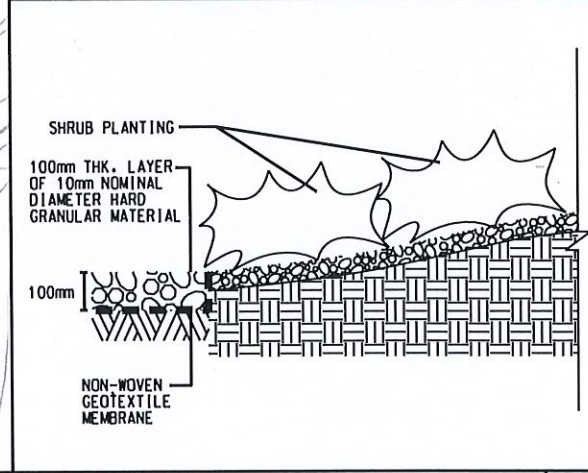
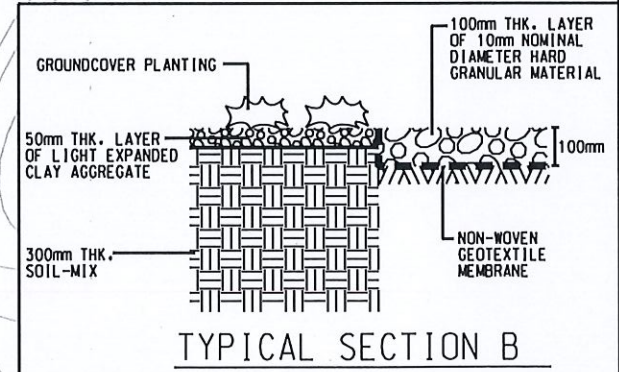




**LEGEND:**

- LANDSCAPE LIMIT
- RM RISING MAIN (TO BE CONSTRUCTED BY OTHERS)
- 5SE - D/F70 EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
- PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
- PROPOSED SHRUB (600mm THK. MIN. SOIL-MIX FOR SHRUB PLANTING)
- RIA.E.C. 905.76m<sup>2</sup> SPECIES AREA @ (sq.m)
- PROPOSED TREE. MAINTENANCE UNDERTAKEN BY LCSD
- PROPOSED FINAL LOCATION OF TRANSPLANTED TREE, MAINTENANCE UNDERTAKEN BY LCSD

896m<sup>2</sup>



Checked by  
*(Signature)*  
 ( C.H. PANG )  
 RE

Approved by  
*(Signature)*  
 ( C.S. LEUNG )  
 SRE

**NOTES:**

1. THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
2. IMPORTED SOIL-MIX SHALL BE USED.

Project CONTRACT NO. DC/2016/01  
 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS  
 建造東涌至小蠔灣額外污水泵喉及附屬工程

Title PLANTING PLAN FOR AREA NORTH OF ABUTMENT C  
 (SHEET 2 OF 2)

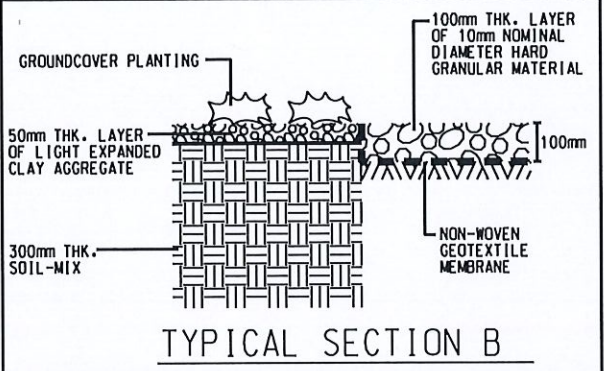
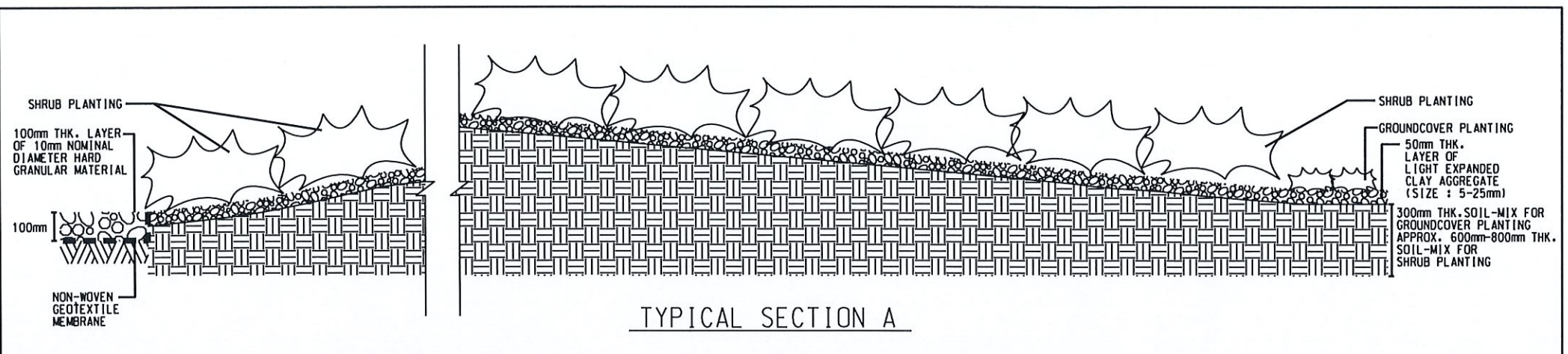
香港特別行政區政府渠務署  
 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
 DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
 博威工程顧問有限公司

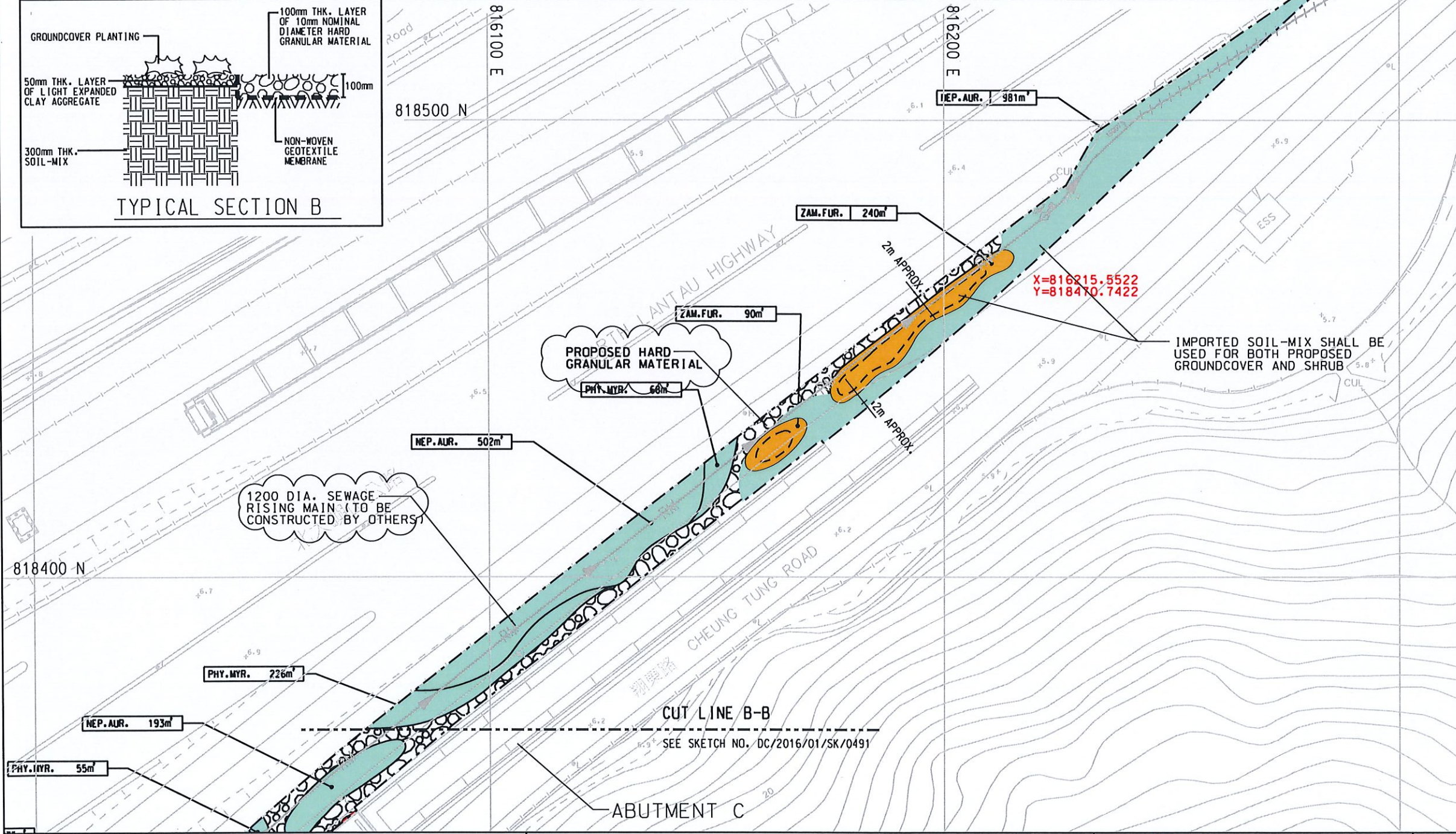
Drawn by	P L	Date	03/07/2018
Checked by	F N T	Scale	A3 1 : 1000
Approved by	T C	Sketch no.	DC/2016/01/SK/0491
		Revision	D

Plot Date = 9/9/2020





- LEGEND:**
- LANDSCAPE LIMIT
  - RM RISING MAIN (TO BE CONSTRUCTED BY OTHERS)
  - 5SE - D/F70 EXISTING SIMILAR SLOPES WITH SLOPE REGISTRATION NO. SHOWN THUS
  - PROPOSED GROUNDCOVER (300mm THK. SOIL-MIX FOR GROUNDCOVER PLANTING APPROX.)
  - PROPOSED SHRUB (600mm THK. MIN. SOIL-MIX FOR SHRUB PLANTING)
  - RIA.E.C. 1905.762 SPECIES AREA 10q.m
  - PROPOSED TREE. MAINTENANCE UNDERTAKEN BY LCSD
  - PROPOSED FINAL LOCATION OF TRANSPLANTED TREE. MAINTENANCE UNDERTAKEN BY LCSD



Checked by  
*fpa*  
( C.H. PANG )  
RE

Approved by  
*[Signature]*  
( C.S. LEUNG )  
SRE

**NOTES:**

- THE CONTRACTOR SHALL TAKE NOTE OF GS CLAUSE 3.30 REGARDING THE REQUIREMENT OF SOIL-MIX.
- IMPORTED SOIL-MIX SHALL BE USED.

Project CONTRACT NO. DC/2016/01  
CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS  
建造東涌至小蠔灣額外污水泵喉及附屬工程

Title PLANTING PLAN FOR AREA NORTH OF ABUTMENT C (SHEET 1 OF 2)

香港特別行政區政府渠務署  
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
博威工程顧問有限公司

Drawn by	PL	Date	03/07/2018
Checked by	FNT	Scale	A3 1 : 1000
Approved by	TC	Sketch no.	DC/2016/01/SK/0490
		Revision	E


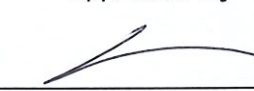
Plot Date = 9/9/2020



PLANTING SCHEDULE FOR CHEUNG TUNG ROAD (UNDER MAINTENANCE OF LCSD)								
CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)	NO./m <sup>2</sup>	%MIX.	QUANTITY (APPROX. NOS.)	REMARK
TREE PLANTING								
GAR.SUB.	Garcinia subelliptica	非洲福木	Light Standard	4000-5000	-	-	79	-
BAU.BLA	Bauhinia x blakeana	洋紫荊	Heavy Standard	5000	-	-	1	-
PEL.TON.	Peltophorum tonkinense	銀珠	Heavy Standard	5000	-	-	2	-
VIB.ODO.	Viburnum odoratissimum	珊瑚樹	Heavy Standard	5000	-	-	76	-
PALM PLANTING - EXOTIC								
ARE.CAT	Areca catechu	檳榔	4000(H)	4000	-	-	28	-
GROUND COVER PLANTING								
EPI.AUR.	Epipremnum aureum	綠蘿	200(H) x 300(S)	300	12.54	-	6264	-
SHRUB PLANTING								
IXO.CHI.	Ixora chinensis	龍船花	300(H) x 300(S)	300	12.54	-	19482	PLANT ALL SPECIES IN STAGGERED PATTERN.
PHY.MYR.	Phyllanthus myrtifolius	錫蘭葉下珠	300(H) x 300(S)	300	12.54	-	8949	
CAR.MIT.	Caryota mitis	短穗魚尾葵	2500(H),min 4 clumps pre plant	750	1.95	-	137	
SCH.ARB.	Schefflera arboricola	八葉	300(H) x 300(S)	300	12.54	-	27819	
COD.VAR.'AUC'	Codiaeum variegatum 'aucubaefolium'	灑金榕	300(H) x 300(S)	300	12.54	-	161	
COD.VAR.'RED'	Codiaeum variegatum 'red'	灑金榕 (紅色)	300(H) x 300(S)	300	12.54	-	1104	
PIT.TOB.	Pittosporum tobira	海桐花	300(H) x 300(S)	300	12.54	-	552	
RHA.IND.	Rhaphiolepis indica	車輪梅	300(H) x 300(S)	300	12.54	-	6862	
GRASS PLANTING								
AXO.COM.	Axonopus compressus	地毯草 (大葉草)	WHOLE PIECE TURF 300(L) x 300(W) x 50(H)	-	m <sup>2</sup>	-	3548	25mm HIGH SWORD AND 25mm SOIL BASE OF TURF

NOTES:

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. DC/2016/01/SK/0482 TO DC/2016/01/SK/0489.

Checked by
 ( C.H. PANG ) RE
Approved by
 ( C.S. LEUNG ) SRE



<b>Project</b> CONTRACT NO. DC/2016/01 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS 建造東涌至小蠔灣額外污水泵喉及附屬工程		<b>Drawn by</b> W T L	<b>Date</b> 28/11/2019
<b>Title</b> PLANTING SCHEDULE FOR CHEUNG TUNG ROAD (LCSD)	 BLACK & VEATCH HONG KONG LIMITED 博威工程顧問有限公司	<b>Checked by</b> F P	<b>Scale</b> SCHEDULE
		<b>Approved by</b> C L	<b>Sketch no.</b> DC/2016/01/SK/0343
			<b>Revision</b> E



PLANTING SCHEDULE FOR AREA NORTH OF ABUTMENT C (UNDER MAINTENANCE OF LCSD)								
CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)	NO./m <sup>2</sup>	%MIX.	QUANTITY (APPROX. NOS.)	REMARK
SHRUB PLANTING								
ZAM.FUR.	Zamia furfuracea	牙買加蘇鐵	400(H) x 500 (S)	500	4.6	-	1366	PLANT IN STAGGERED PATTERN.
PHY.MYR.	Phyllanthus myrtifolius	錫蘭葉下珠	300(H) x 300 (S)	300	12.54	-	3939	
GROUNDCOVER PLANTING								
ASP.DEN.	Asparagus densiflorus	非洲天門冬	200(H) x 300 (S)	200	29	-	3837	PLANT ALL SPECIES IN STAGGERED PATTERN.
NEP.AUR.	Nephrolepis auriculate	腎蕨	250(H) x 250 (S)	150	51.59	-	90587	

NOTES:

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NOS. DC/2016/01/SK/0490 TO DC/2016/01/SK/0491.

Checked by  ( C.H. PANG ) RE
Approved by  ( C.S. LEUNG ) SRE

B	QUANTITY REVISED
A	NOTE REVISED
REV	DESCRIPTION

Project	CONTRACT NO. DC/2016/01 CONSTRUCTION OF AN ADDITIONAL SEWAGE RISING MAIN BETWEEN TUNG CHUNG AND SIU HO WAN AND ASSOCIATED WORKS 建造東涌至小蠔灣額外污水泵喉及附屬工程
Title	PLANTING SCHEDULE FOR AREA NORTH OF ABUTMENT C (LCSD)



Drawn by	W T L	Date	28/11/2019
Checked by	F P	Scale	SCHEDULE
Approved by	C L	Sketch no.	DC/2016/01/SK/0347
		Revision	B



Inspection Date: 30 November 2020

Inspected By: AUES

Time: 10:00 – 12:30

Weather Condition: Sunny

Participants: AECOM (RSS), Ramboll (IEC) & AUES (ET) Rep.

		N/A or not observed	Yes	No	Remarks / Photo
<b>1</b>	<b>Zone: Area along Lung Mun Road and Lung Fu Road</b>				
1.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.3	Are trees or limb overhanging branches pruned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
1.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
1.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
1.10	Overall health condition of the plants?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>2</b>	<b>Zone: Area along cycling track near Butterfly Bay Beach and Raised Planter at Abutment Sides of Bridge H1 and G1</b>				
2.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.3	Are trees or limb overhanging branches pruned?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	



2.10 Overall health condition of the plants?    \_\_\_\_\_

<b>3 Zone: Area on Toll Plaza</b>		<b>N/A or not observed</b>	<b>Yes</b>	<b>No</b>	<b>Remarks / Photo</b>
3.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.3	Are trees or limb overhanging branches pruned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
3.10	Overall health condition of the plants?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

<b>4 Zone: Slopes on Toll Plaza near the East and West Portals</b>		<b>N/A or not observed</b>	<b>Yes</b>	<b>No</b>	<b>Remarks / Photo</b>
4.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.3	Are trees or limb overhanging branches pruned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
4.10	Overall health condition of the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____



<b>5 Zone: Slopes along Lung Mun Road and Lung Fu Road</b>		<b>N/A or not observed</b>	<b>Yes</b>	<b>No</b>	<b>Remarks / Photo</b>
5.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.3	Are trees or limb overhanging branches pruned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.4	Are pest and disease observed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
5.5	Are litter and debris removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.6	Are plants/ grasses overgrown?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
5.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.8	Are planting locations and tree spacing matched with the approved planting plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.9	Are the planting species on site matched with the approved planting schedules (Annex B)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Please refer to the attached comment
		<b>Good</b>	<b>Fair</b>	<b>Poor</b>	_____
5.10	Overall health condition of the plants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<b>6 General Document</b>		<b>N/A or not observed</b>	<b>Yes</b>	<b>No</b>	<b>Remarks / Photo</b>
6.1	Are the records of watering, fertilizing, weeding, pruning and mowing kept for checking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

<b>Follow up actions for previous Site Audit:</b>  NA
<b>Observations:</b> Refer to the attachment
<b>Corrective Actions (if any):</b> <ol style="list-style-type: none"><li>1. Incorrect species of tree should be replaced according to the approved planting plan in zone 5</li><li>2. Some missing or poor health condition planting should be replaced ASAP</li><li>3. Some fallen tree should be fixed properly</li></ol>
<b>General Conclusion:</b> The establishment planting for the contract is generally in fair and good condition. Regularly watering, fertilizing, weeding, pruning and mowing had been provided by Contractor. Some tree planting species are different from the approved tree planting plan should be rectified.

Inspected by  
(ET's Representative):

**Ben Tam**

Title:

**Environmental Consultant**

Signature:



Date:

**30 November 2020**

Reviewed by  
(RSS Landscape Representative):

**Candy Lau**

Title:

**Senior Resident Landscape Architect**

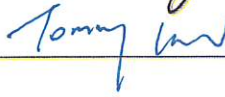
Signature:



Date:

**1 December 2020**

Contractor's Representative:



Title:

*Environmental Specialist*

Signature:



Date:

**7 Dec 2020**

Checked by  
(IEC's Representative):

**Manson Yeung**

Title:

**Independent Environmental Checker**

Signature:



Date:

**7 December 2020**



**Zone 1**

**Lung Mun Road/Lung Fu Road Roundabout area**

One missing heavy standard *Tabebuia impetiginosa* inspected at last quarter was replaced.



General View



General View



General View



Replaced *Tabebuia impetiginosa*



**Lung Mun Road**

Two missing light standard *Garcinia subelliptica* inspected at last quarter was replaced.



General View



General View



General View



Replaced *Garcinia subelliptica*



**Zone 2**

**Lung Mun Road**



General View



General View



General View



General View



### Zone 3

#### Toe planter at Slope TP A and TP B



General View

#### Toe planter and toll plaza

Some leaning *Tabebuia chrysantha* were re-staked.

One missing *Melaleuca cajuputi* subsp. *Cumingiana* (T2820) was replaced.



General View



General View





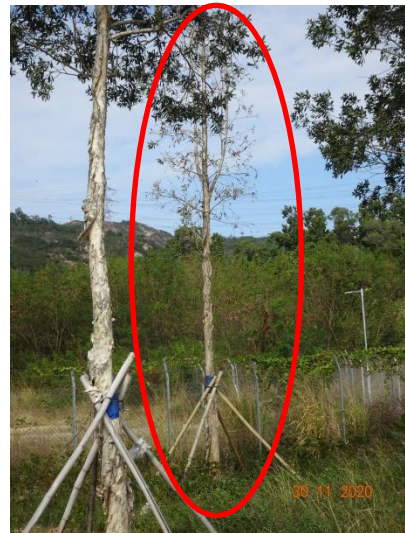
General View



General View



Leaning tree were re-staked



Replaced *Melaleuca cajuputi* subsp. *Cumingiana*



**Zone 4**

**Slope TP A and TP B**

One missing light standard *Sterculia lanceolata* was replaced.

Some trees that in poor health condition was replaced.

Some dead whips were replaced.

Weed covered on whips had been removed.



General View



General View



Replacement works for poor health tree



Missing light standard *Sterculia lanceolata* was replaced.



**Slope TP D**

Some dead whips (*Gordonia axillaris*) were replaced.

Weed covered on whips had been removed.



General View



General View



## Zone 5

### 5SE-D/C170

Four light standard *Bauhinia variegata* was missing. Aecom said the trees were fallen and removed and there will be a replacement.

Fifteen *Schima superba* have been changed to *Sterculia lanceolata*, please review the planting plan and schedule.

Some trees were in poor health condition and dead and Aecom said there will be a replacement.

Some dead whips (*Sapium discolor*) were replaced.



General View



General View



General View



General View





Tree with poor health



Fallen tree



Dead whips (*Sapium discolor*) were replaced



**TP C**



General View



General View

**5SE-D/C171**



General View



**5SE-D/C21**



General View

**5SE-D/C215**



General View



General View



**5SE-D/C16**



General View



General View

**5SE-D/C18**



General View

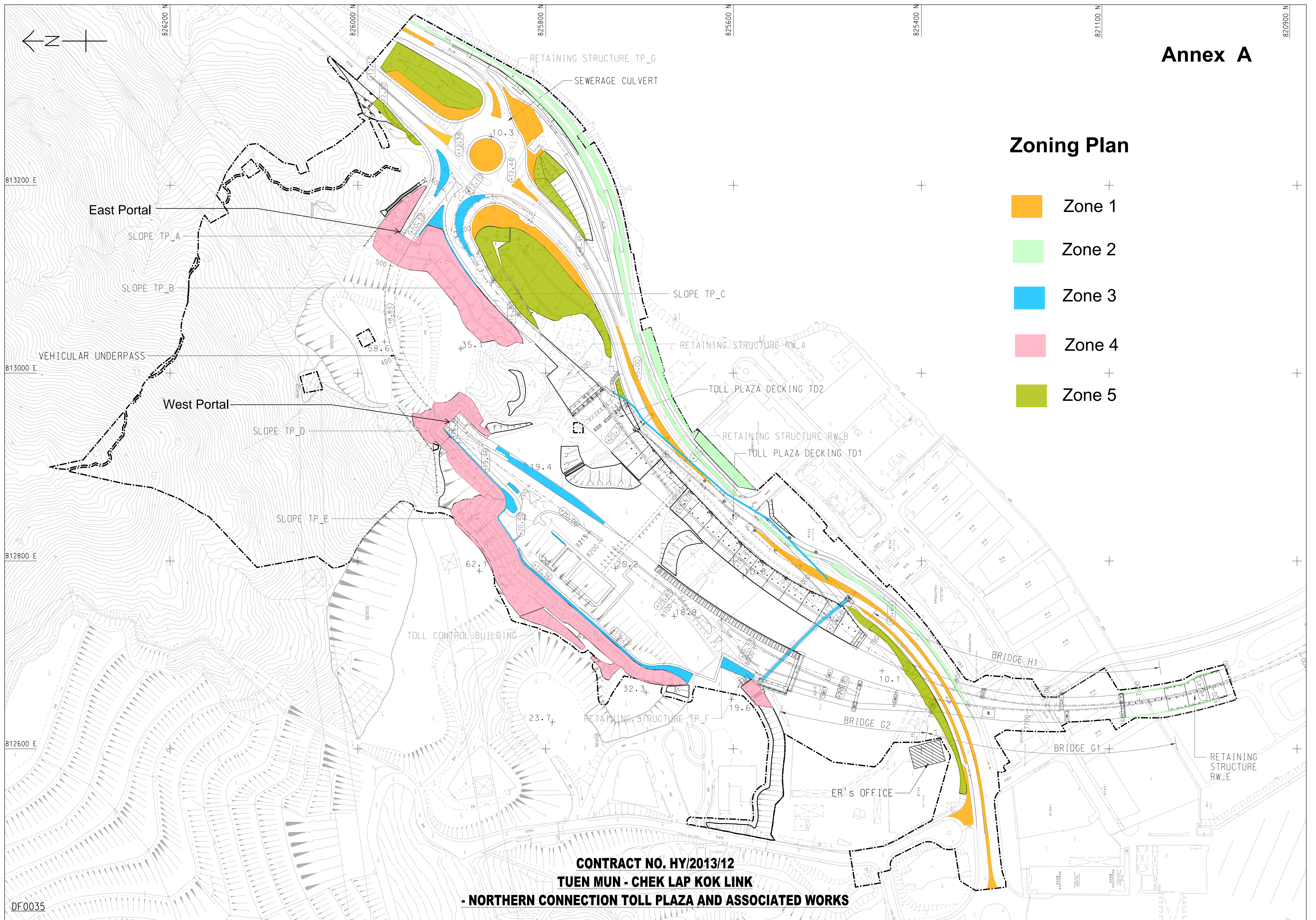


**Appendix A**  
**Zoning Plan for Contract No. HY/2013/12**



### Zoning Plan

-  Zone 1
-  Zone 2
-  Zone 3
-  Zone 4
-  Zone 5



**CONTRACT NO. HY/2013/12**  
**TUEN MUN - CHEK LAP KOK LINK**  
**- NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS**



**Appendix B**  
**Summary of Compensatory Planting Area for Contract No. HY/2013/12**



Contract No. HY/2013/12 (C3) Landscape Area Summary for EP Condition 2.9

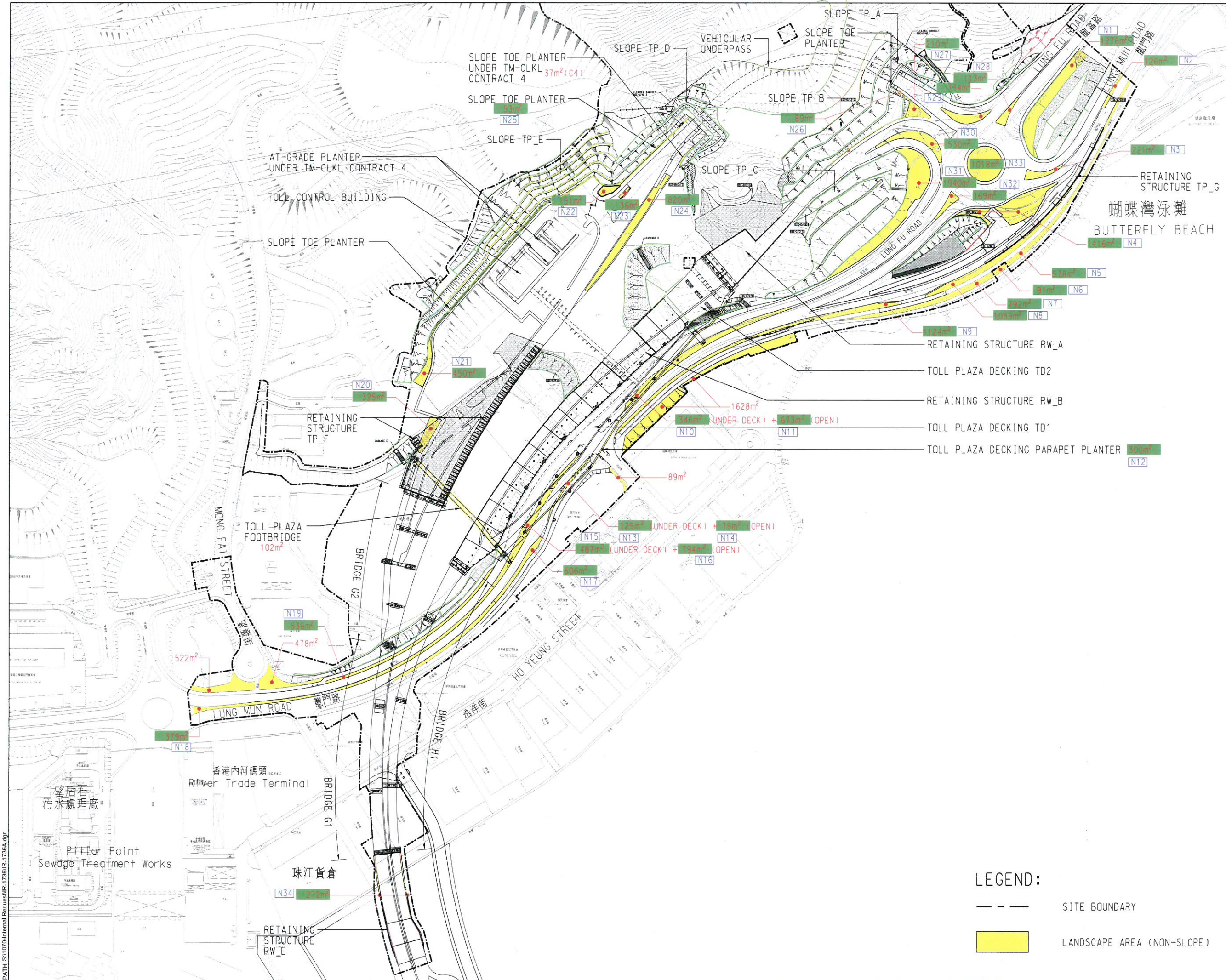
Area Code	Location	Plan Area (sq.m.) Approx.	Average Slope Angle	Plane Area (sq.m.) Approx.
N1	Lung Fu Road	1276	0	1276
N2	Lung Mun Road	126	0	126
N3	Lung Mun Road	221	0	221
N4	Lung Mun Road	1416	0	1416
N5	Lung Mun Road - cycle track	578	0	578
N6	Lung Mun Road - cycle track	91	0	91
N7	Lung Mun Road - cycle track	792	0	792
N8	Lung Mun Road	1059	0	1059
N9	Lung Mun Road/ Lung Fu Road	1124	0	1124
N10	Lung Mun Road - under deck	346	0	346
N11	Lung Mun Road	673	0	673
N12	Deck - Parapet Planter	300	0	300
N13	Lung Mun Road - under deck	129	0	129
N14	Lung Mun Road	79	0	79
N15	Lung Mun Road - under deck	487	0	487
N16	Lung Mun Road	794	0	794
N17	Lung Mun Road - cycle track	606	0	606
N18	Lung Mun Road	379	0	379
N19	Lung Mun Road	536	0	536
N20	Near Footbridge	325	0	325
N21	Toe of Slope TP_E	450	0	450
	Toe of Slope TP_E (PDA)	-281	0	-281
N22	Toe of Slope TP_E	151	0	151
N23	Toll Plaza - roadside	36	0	36
N24	Toll Plaza - roadside	820	0	820
N25	Toe of 5SE-D/C116	53	0	53
N26	Toe of Slope TP_A & Slope TP_B	89	0	89
N27	Toe of Slope TP_B	210	0	210
N28	Lung Fu Road	113	0	113
N29	Island near Roundabout	334	0	334
N30	Island near Roundabout	530	0	530
N31	Toe of 5SE-D/C170	1940	0	1940
N32	Lung Fu Road	169	0	169
N33	Roundabout	1018	0	1018
N34	Retaining Structure RW_E	272	0	272
S1	5SE-D/C215	3103	14	3198
S2	5SE-D/C165	471	30	544
S3	5SE-D/C171	799	35	975
S4	5SE-D/C21	483	35	590
S5	5SE-D/C170 (PART 1)	5035	17	5265
S6	5SE-D/C170 (PART 2)	622	28	704
S7	5SE-D/C18	89	30	103
S8	5SE-D/C209 (Slope TP_C)	1655	30	1911
	5SE-D/C210 (Slope TP_B)	5424	35	6621
S10	5SE-D/C211 (Slope TP_A)	1874	37	2347
S11	5SE-D/C214 (Slope TP_D)	1867	50	2905
S12	5SE-D/C116	1515	35	1849
S13	5SE-D/C212 (Slope TP_E)	8134	60	16268
	5SE-D/C212 (Slope TP_E) (PDA)	-4132	60	-8264
S14	5SE-D/C16 (Non-PDA)	1150	32	1356
<b>Sub-Total</b>				<b>53613</b>

ABBREVIATIONS

PDA

Potential Development Area (not counted towards landscape area for EP Condition 2.9)





APPROVED AND CONFIRMED BY  
 TITLE  
**AECOM\_C3 (RLS)**  
 NAME  
**SAMMY TSOI**  
 SIGNATURE  
*Sammy Tsoi*

*Kingston*

**FOR INFORMATION**

REV.	SEP. 20	FOR INFORMATION	CL	CHT	JL
DATE		DESCRIPTION	CHK.	PREP.	DRAWN

CLIENT  

 路政署  
**HIGHWAYS DEPARTMENT**  
 港珠澳大橋香港工程督導處  
 Hong Kong - Zhuhai - Macao Bridge  
 Hong Kong Project Management Office

**AECOM** Imagine it. Delivered.

PROJECT  
**TUEN MUN - CHEK LAP KOK LINK**

CONTRACT TITLE  
**TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS**

PROJECT NO. **60240249** CONTRACT NO. **HY/2013/12**

SCALE **A3 N.T.S** DATE **09 SEP 2020**

AMENDMENT TO WORKING DRAWING NO.  
**60240249/C3/DF2210**

CHECKED **CL** PREPARED **CHT** DRAWN **JL/TMC**

TITLE  
**LANDSCAPE AREA (NON-SLOPE)**

SKETCH NO.  
**IR-1736A**

**LEGEND:**  
 - - - - - SITE BOUNDARY  
 [Yellow Box] LANDSCAPE AREA (NON-SLOPE)







**Appendix C**  
**Approved Planting Schedule for Contract No. HY/2013/12**



## Slope Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)
<b>WHIP</b>				
BAU.VAR.	<i>Bauhinia variegata</i>	宮粉羊蹄甲	WHIP	1000
BRI.TOM.	<i>Bridelia tomentosa</i> *	土密樹	WHIP	1000
GOR.AXI.	<i>Gordonia axillaris</i> *	大頭茶	WHIP	1000
LIT.GLU.	<i>Litsea glutinosa</i> *	潺槁樹	WHIP	1000
MAL.PAN.	<i>Mallotus paniculatus</i> *	白楸	WHIP	1000
PHY.EMB.	<i>Phyllanthus emblica</i> *	餘甘子	WHIP	1000
SAP.DIS.	<i>Sapium discolor</i> *	山烏柏	WHIP	1000
<b>TREE</b>				
BAU.VAR.(L)	<i>Bauhinia variegata</i>	宮粉羊蹄甲	LIGHT STANDARD	3000
BAU.VAR.(H)	<i>Bauhinia variegata</i>	宮粉羊蹄甲	HEAVY STANDARD	4000-4500
BRI.TOM.	<i>Bridelia tomentosa</i> *	土密樹	LIGHT STANDARD	3000
BOM.CEL.(L)	<i>Bombax ceiba</i>	木棉	LIGHT STANDARD	3000
BOM.CEL.(H)	<i>Bombax ceiba</i>	木棉	HEAVY STANDARD	4500-5000
CIN.BUR.	<i>Cinnamomum burmannii</i> *	陰香	LIGHT STANDARD	3000
CIN.BUR.	<i>Cinnamomum burmannii</i> *	陰香	HEAVY STANDARD	4500-5000
LIQ.FOR.	<i>Liquidambar formosana</i> *	楓香	LIGHT STANDARD	3000
LIT.GLU.(L)	<i>Litsea glutinosa</i> *	潺槁木	LIGHT STANDARD	3000
MAC.CHE.	<i>Machilus chekiangensis</i> *	浙江潤楠	LIGHT STANDARD	3000
REE.THY.	<i>Reevesia thyrsoidea</i> *	梭羅樹	LIGHT STANDARD	3000
SGH.SUP.	<i>Schima superba</i> *	木荷 (荷樹)	LIGHT STANDARD	3000
STE.LAN.	<i>Sterculia lanceolata</i> *	假蘋婆	LIGHT STANDARD	3000
STE.LAN.	<i>Sterculia lanceolata</i> *	假蘋婆	HEAVY STANDARD	4500-5000
VIB.ODO.	<i>Viburnum odoratissimum</i> *	珊瑚樹	LIGHT STANDARD	3000
<b>SHRUB</b>				
DES. CHI.	<i>Desmos chinensis</i> *	假鷹爪	300(H) X 300(S)	500
ILE.ASP.	<i>Ilex asprella</i> *	梅葉冬青	300(H) X 300(S)	500
ILE.PUB.	<i>Ilex pubescens</i> *	毛冬青	300(H) X 300(S)	500
LIG.SIN.	<i>Ligustrum sinense</i>	山指甲	300(H) X 300(S)	350-500
MEL.CAN.	<i>Melastoma candidum</i> *	野牡丹	300(H) X 300(S)	500
MEL.SAN.	<i>Melastoma sanguineum</i> *	毛萼	300(H) X 300(S)	350-500
NER.OLE.	<i>Nerium oleander</i>	夾竹桃	300(H) X 300(S)	350
PSY.ASI.	<i>Psychotria asiatica</i> *	九節	300(H) X 300(S)	500
RHA.IND.	<i>Rhaphiolepis indica</i> *	車輪梅	300(H) X 300(S)	350-500
RHO.PUL.	<i>Rhododendron pulchrum</i>	紫杜鵑	300(H) X 300(S)	500
RHO.SIM.	<i>Rhododendron simsii</i> *	紅杜鵑	300(H) X 300(S)	500
SCH.ARB.	<i>Schefflera arboricola</i>	八葉木	300(H) X 300(S)	500
SCH.VAR.	<i>Schefflera arboricola 'variegata'</i>	花葉八葉木	300(H) X 300(S)	500
<b>GROUNDCOVER</b>				
NEP.AUR.	<i>Nephrolepis auriculata</i> *	腎蕨	300(H) X 300(S)	100-300
NEP.HIR.	<i>Nephrolepis hirsutula</i> *	毛葉腎蕨	300(H) X 300(S)	100-300
<b>CLIMBER</b>				
BAU.COR.	<i>Bauhinia corymbosa</i>	首冠藤	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300-1000
BOU.SPE.	<i>Bougainvillea spectabilis</i>	籐杜鵑	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300-500
FIC.PUM.	<i>Ficus pumila</i> *	薛荔	MIN. 3 SHOOTS PER PLANT, 1000mm LONG	300
LON.JAP.	<i>Lonicera japonica</i> *	忍冬(金銀花)	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300-1000
PAR.DAL.	<i>Parthenocissus dalzielii</i>	爬牆虎	MIN. 3 SHOOTS PER PLANT, 1000mm LONG	300-1000
WED.TRI.	<i>Wedelia trilobata</i>	蟻蝶菊	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300

## Roadside Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)	SPACING (mm)
<b>TREE</b>				
BRA.ACE.	<i>Brachychiton acerifolius</i>	槭葉蘋婆	HEAVY STANDARD	4500-5000
DEL.REG.	<i>Delonix regia</i>	鳳凰木	HEAVY STANDARD	N/A
GAR.SUB.	<i>Garcinia subelliptica</i>	福木	LIGHT STANDARD	3000
MEL.CUM.	<i>Melaleuca cajuputi subsp. cumingiana</i>	白千層	HEAVY STANDARD	4000
STE.LAN.	<i>Sterculia lanceolata</i> *	假蘋婆	HEAVY STANDARD	5000
TAB.CHR.	<i>Tabebuia chrysantha</i>	黃花風鈴木	HEAVY STANDARD	5000
TAB.IMP.	<i>Tabebuia impetiginosa</i>	風鈴木	HEAVY STANDARD	5000
TER.MAN.	<i>Terminalia mantaly</i>	小葉欖仁	HEAVY STANDARD	5000
<b>PALM</b>				
ARC.ALE.	<i>Archontophoenix alexandrae</i>	假檳榔	3500(H) x 1500(S)	4000
CHR.LHT.	<i>Chrysalidocarpus lutescens</i>	散尾葵	1500(H)	2000
LIV.CHI.	<i>Livistona chinensis</i>	蒲葵	2000(H) x 1500(S)	2500
PHO.ROE.	<i>Phoenix roebelenii</i>	日本葵	2000(H) x 1500(S)	2500-3000
WOD.BIF.	<i>Wodyetia bifurcata</i>	狐尾椰子	2500(H) x 1500(S)	3500
<b>SHRUB</b>				
DUR.GOL.	<i>Duranta repens 'goldern'</i>	金連翹	300(H) X 300(S)	300
IXO.CHI.	<i>Ixora chinensis</i> *	龍船花	300(H) X 300(S)	300
IXO.COC.	<i>Ixora coccinea</i>	橙紅龍船花	300(H) X 300(S)	300
IXO.LUT.	<i>Ixora coccinea 'lutea'</i>	黃花龍船花	300(H) X 300(S)	300
RHA.IND.	<i>Rhaphiolepis indica</i> *	車輪梅	300(H) X 300(S)	300
RHO.PUL.	<i>Rhododendron pulchrum</i>	紫杜鵑	300(H) X 300(S)	300
RHO.SIM.	<i>Rhododendron simsii</i> *	紅杜鵑	300(H) X 300(S)	300
SCH.ARB.	<i>Schefflera arboricola</i>	八葉木	300(H) X 300(S)	300
SCH.VAR.	<i>Schefflera arboricola 'variegata'</i>	花葉八葉木	300(H) X 300(S)	300
<b>GROUNDCOVER</b>				
ASP.DEN.	<i>Asparagus densiflorus 'myersii'</i>	狐尾天冬	300(H) X 300(S)	250
ARA.DUR.	<i>Arachis duranensis</i>	金花生	100(H) X 200(S)	200
ASP.SPR.	<i>Asparagus densiflorus 'sprengerii'</i>	天冬	100(H) X 200(S)	200
CUP.HYS.	<i>Cupressus hyssopifolia</i>	細葉雪松	250(H) X 300(S)	250-300
DIA.VAR.	<i>Dianella tasmanica 'variegata'</i>	花葉山菅蘭	250(H) X 250(S)	250
LAN.FLA.	<i>Lantana camara 'flava'</i>	黃花馬纓丹	200(H) X 200(S)	200
LAN.MON.	<i>Lantana montevidensis</i>	小葉馬纓丹 (紫花)	200(H) X 200(S)	200
NEP.AUR.	<i>Nephrolepis auriculata</i> *	腎蕨	300(H) X 300(S)	150-250
OPH.JAP.	<i>Ophiopogon japonicus</i> *	沿階草	200(H) X 200(S)	200

## NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
- SHRUB / GROUNDCOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.
- GRASS SEED AS CEDD GENERAL SPECIFICATION 3.26(3).
- \* SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.

Status: Planting Schedule is a consolidated list of plant species based on the planting plans as commented/ approved by the relevant Government departments, i.e. LCSD or HyD/ Landscape Division.



**Appendix D**  
**Summary of tree Quantity for Contract No. HY/2013/12**



## Summary of tree Quantity for Contract No. HY/2013/12

				Planting Plan Information					1st Quarter Site Checking							
Trees				Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Total quantity to be planted as required in contract	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Total quantity observed on site	Remarks
CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) x SPREAD (S)													
<b>Whip Tree</b>																
BAU.VAR.(L)	Bauhinia variegata	宮粉羊蹄甲	WHIP	-	-	-	-	52	52	-	-	-	-	52	52	
BRL.TOM.	Bridelia tomentosa	土密樹	WHIP	-	-	-	68	25	93	-	-	-	68	25	93	
GOR.AXI	Gordonia axillaris	大頭茶	WHIP	-	-	-	88	52	140	-	-	-	88	52	140	
LIT.GLU.	Litsea glutinosa	潺槁樹	WHIP	-	-	-	-	38	38	-	-	-	-	38	38	
MAL.PAN.	Mallotus paniculatus	白楸	WHIP	-	-	-	-	38	38	-	-	-	-	38	38	
PHY.EMB.	Phyllanthus emblica	餘甘子	WHIP	-	-	-	-	38	38	-	-	-	-	38	38	
SAP.DIS.	Sapium discolor	山烏桕	WHIP	-	-	-	-	12	12	-	-	-	-	12	12	
<b>Tree (Light Standard, Heavy Standard)</b>																
BAU.VAR.(L)	Bauhinia variegata	宮粉羊蹄甲	LIGHT STANDARD	-	-	-	34	191	225	-	-	-	34	187	221	4 missing in zone 5
BOM.CEL.(L)	Bombax ceiba	木棉	LIGHT STANDARD	-	-	-	-	32	32	-	-	-	-	32	32	
BRL.TOM.	Bridelia tomentosa	土密樹	LIGHT STANDARD	-	-	-	15	66	81	-	-	-	15	66	81	
CIN.BUR.	Cinnamomum burmanni	除香	LIGHT STANDARD	-	-	-	-	51	51	-	-	-	-	51	51	
GAR.SUB	Garcinia subelliptica	福木	LIGHT STANDARD	16	4	10	-	-	30	16	4	10	-	-	30	
LIQ.FOR.	Liquidambar formosana	楓香	LIGHT STANDARD	-	-	-	-	32	32	-	-	-	-	32	32	
LIT.GLU.(L)	Litsea glutinosa	潺槁木	LIGHT STANDARD	-	-	-	19	-	19	-	-	-	19	-	19	
MAC.CHE.	Machilus chekiangensis	浙江潤楠	LIGHT STANDARD	-	-	-	17	44	61	-	-	-	17	44	61	
REE.THY.	Reevesia tryseoides	梭羅樹	LIGHT STANDARD	-	-	-	7	29	36	-	-	-	7	29	36	
SCH.SUP.	Schima superba	木荷 (荷樹)	LIGHT STANDARD	-	-	-	-	32	32	-	-	-	-	17	17	15 missing
STE.LAN.	Sterculia lanceolata	假檳榔	LIGHT STANDARD	-	-	-	6	47	53	-	-	-	6	62	68	15 additional in zone 5
VIB.ODO.	Viburnum odoratissimum	珊瑚樹	LIGHT STANDARD	-	-	-	16	58	74	-	-	-	16	58	74	
BAU.VAR.(L)	Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	-	-	-	-	41	41	-	-	-	-	41	41	
BOM.CEL.(L)	Bombax ceiba	木棉	HEAVY STANDARD	-	-	-	-	16	16	-	-	-	-	16	16	
BRA.ACE	Brachychiton acerifolius	槭葉羅漢	HEAVY STANDARD	-	-	18	-	-	18	-	-	18	-	-	18	
CIN.BUR.	Cinnamomum burmanni	除香	HEAVY STANDARD	-	-	-	-	23	23	-	-	-	-	23	23	
STE.LAN.	Sterculia lanceolata	假檳榔	HEAVY STANDARD	-	-	3	-	10	13	-	-	3	-	10	13	
DEL.REG	Delonix regia	鳳凰木	HEAVY STANDARD	1	-	-	-	-	1	1	-	-	-	-	1	
MEL.CUM	Messerschmidia ciliopus Subsp. zuihsienensis	白千層	HEAVY STANDARD	35	16	-	-	-	51	35	16	-	-	-	51	
TAB.CHR	Tabebuia chrysantha	黃花風鈴木	HEAVY STANDARD	-	-	4	-	-	4	-	-	4	-	-	4	
TAB.IMP	Tabebuia impetiginosa	風鈴木	HEAVY STANDARD	66	-	3	-	-	69	66	-	3	-	-	69	
TER.MAN	Terminalia manily	小葉禮仁	HEAVY STANDARD	-	8	-	-	-	8	-	8	-	-	-	8	
<b>Palm</b>																
ARC.ALE	Archontophoenix alexandriae	假檳榔	3500(H) x 1500(S)	-	58	-	-	-	58	-	58	-	-	-	58	
LIV.CHI	Livistonia chinensis	蒲葵	2000(H) x 1500(S)	24	-	-	-	-	24	24	-	-	-	-	24	
PHO.ROE	Phoenix roebelenii	日本葵	2000(H) x 1500(S)	50	-	4	-	-	54	50	-	4	-	-	54	
WOD.BIF	Wodyetia bifurcata	狐尾椰子	2500(H) x 1500(S)	-	-	26	-	-	26	-	-	26	-	-	26	
				192	86	68	270	927	1543	192	86	68	270	923	1539	