

Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction

Landscape and Visual Plan

(Ref. A37-04B) Rev.A



Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Landscape and Visual Plan

HIGHWAYS DEPARTMENT MAJOR WORKS PROJECT MANAGEMENT OFFICE (SPECIAL DUTIES)

Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction

Landscape and Visual Plan

March 2021

Reviewed:

alle 22 March 2021 ATEX Li

(Executive Director)

Conred Ng

22 March 2021

Approved for Issue:

(Vice President, Major Project Delivery, Land Supply / Municipal, Hong Kong)

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Landscape and Visual Plan

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INTRODUCTION 1

1.1 This Assignment

In accordance with Agreement No. CE 7/2011 (HY), signed on 28 November 2011, AECOM Asia Co. Ltd. 1.1.1 (the Consultants) will provide design and construction services for the Tuen Mun - Chek Lap Kok Link Project.

1.2 Background

- 1.2.1 Based on the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by Transport Department, the existing traffic corridor comprising Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway (NLH) will be operating beyond capacity after 2016 due to the increase in cross boundary traffic, and projected developments in the NWNT and North Lantau, including the Airport developments and the Hong Kong-Zhuhai-Macao Bridge (HZMB). It is therefore necessary to provide a new connection between NWNT and North Lantau to cope with the anticipated increase in traffic demand.
- 1.2.2 The road link comprising the proposed Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) was one of the possible highway infrastructure options identified under the NWNT Traffic and Infrastructure Review. The TM-CLKL will also serve as an alternative route to the HKBCF, the HKIA and Tung Chung independent of North Lantau Highway (NLH).
- 1.2.3 In November 2005, HyD engaged Messrs. Ove Arup & Partners Hong Kong Limited to undertake an engineering feasibility study (CE28/05) to evaluate the feasibility and impact of the proposed TM-CLKL and TMWB. The feasibility study recommended that the TM-CLKL should be a dual 2-lane road with a total length of about 9km including subsea tunnel and elevated structures.
- In May 2008, HyD engaged Messrs. AECOM Asia Co. Ltd. to undertake the investigation and preliminary 1.2.4 design of the TM-CLKL under CE52/07 (referred to hereinafter as the Investigation Assignment). The main tasks under the Investigation Assignment included review of the previous feasibility study. formulation and evaluation of alignment options, carrying out preliminary design of the proposed works, conducting EIA and other various impact assessments (including the TIA, MIA, DIA, SIA, WIA, natural terrain hazard assessment, geotechnical assessment, utilities impact assessment, etc.), engineering studies and site investigation works. The preliminary design of the TM-CLKL was substantially completed.
- 1.2.5 In the Investigation Assignment, constraints which have been taken into consideration in the selection of the TM-CLKL alignment option include, but not limited to, the following:
 - the existing and future widening of Urmston Road; (a)
 - (b) the FSD Fireboat Station and the associated berths at Tuen Mun River Trade Terminal;
 - the proposed crematorium and columbarium funeral services centre at Tuen Mun Area 46; (c)
 - the Tuen Mun Immigration Anchorage and Sham Shui Kok Anchorage; (d)
 - (e) the existing and planned marine borrow pits and mud disposal pits (including the three proposed contaminated mud pit at south of the Brothers);
 - the existing and planned submarine utilities connecting HKIA and Tuen Mun; (f)
 - the existing & future Tung Chung Navigation Channel; (g)
 - (h) the future development at North Lantau (including Tung Chung east development, Lantau Logistics Park and its extension, Road P1 and Tai Ho Interchange, etc.);
 - (i) the Designated Area of Northshore Lantau;

- (i) the Airport Railway;
- (k)
- (I) the Hong Kong International Airport Approach Areas around Airport Island;
- the Airport Height Restriction: (m)
- (n) the Hong Kong Observatory's aviation beacons and meterological equipment; and
- (o) to NLH; proposed Tuen Mun Western Trunk Sewerage projects, etc
- 1.2.6 Compared with the recommendations given in the feasibility study (CE 28/05), the Investigation Assignment (CE 52/07) has the following major changes:
 - (a) Tung Chung New Town.
 - (b) minimizes the impacts on the marine ecology.
 - (c) also subject to review under TMWB project).
 - on 4 November 2009 with a set of conditions to be followed.
- 1.2.7 landfall of TM-CLKL together with HKBCF shown, was gazetted under the Town Planning Ordinance (Chapter 131) (G.N.3600). This draft OZP was approved and subsequently renumbered as S/I-CLK/12 on 18 October 2011. On 21 August 2009, the road and scheme of TM-CLKL was gazetted under the Roads (Works, Use and Compensation) Ordinance (Chapter 370) (G.N. 5157). The statutory process is complete. Furthermore, the new draft OZP No. S/I-CLK/13 was released in Gazette on 8 May 2015.
- 1.2.8 In July 2009, HyD commissioned a consultancy (CE25/09) for the ground investigation works for the HKBCF reclamation (including TM-CLKL southern reclamation) and was completed.
- 1.2.9 In September 2009. HvD commissioned a design and construction consultancy (CE28/09) for the HKBCF reclamation works (including TM-CLKL southern reclamation). The scope of this consultancy includes the review, detailed design, tender preparation/assessment and construction supervision for the reclamation works (total about 150 hectares). The reclamation detailed design was substantially completed and the works contact has been awarded in November 2011.

the Pak Mong Site of Archaeological Interest and Tai Ho Site of Archaeological Interest;

the interface with other projects including HKBCF, TMWB, Further Landscape Enhancement

The southern landfall of the subsea tunnel was proposed to be integrated with the HKBCF located at the northeast water off the Airport Island, instead of adjacent to Tai Mo To. This arrangement helps reducing substantial amount of dredging works and seawall construction. With TM-CLKL located at east of the HKBCF, traffic from HZMB can go directly to NWNT via TM-CLKL Northern Connection (i.e. which comprises mainly the subsea tunnel, cut-and-cover tunnels at the landfalls and viaducts, at-grade roads and a toll plaza at Tuen Mun side) or to the urban area via TM-CLKL Southern Connection (which comprises mainly the sea viaduct and link roads at Lantau) and NLH. Traffic to/from the HKBCF will not need to route through Tung Chung and the Airport Island, thus minimizing the environmental and traffic impacts to

The subsea tunnel was proposed to be constructed by TBM instead of the traditional immersed tube method. The construction method avoids dredging and disposal of substantial amount of marine sediment, diversion of the submarine power cables currently serving the HKIA and reducing the impact on the marine traffic on the busy Urmston Road. It also

A combined toll plaza at Tuen Mun Area 46 was proposed to serve both TM-CLKL and TMWB, assuming that both TM-CLKL and TMWB would be tolled (the tolling strategy of TMWB is

Above major changes were incorporated into the EIA Report for the TM-CLKL project, and the Report was approved by EPD (Register No. AEIAR-146/2009) under the EIAO on 23 October 2009, and an Environmental Permit (reference No. EP-354/2009) was issued by EPD

On 12 June 2009, the draft Chek Lap Kok Outline Zoning Plan (OZP) No. S/I-CLK/11, with the southern

- 1.2.10 In November 2009, HyD commissioned a ground investigation works Contract No. HY/2009/23 under CE25/09 providing essential geotechnical data for the reclamation detailed design under CE28/09. The ground investigation works was completed in 2010.
- 1.2.11 The TM-CLKL project is a designated project under Schedule 2 of the EIAO (Cap. 499) and an EP is required for the construction and operation of the TM-CLKL. The EIA Report for the TM-CLKL project was approved by EPD (Register No. AEIAR-146/2009) under the EIAO on 23 October 2009 and an EP (Reference No. EP-354/2009) was issued by DEP on 4 November 2009 with a set of conditions to be followed. The EIA studied the impacts of the TM-CLKL project on noise, air quality, water quality, waste management, land contamination, ecology, fisheries, landscape and visual, cultural heritage and landfill gas hazard during construction and operation stages. A comprehensive EM&A programme has been recommended for the construction and operation of the TM-CLKL. Details of the recommended environmental mitigation measures were given in the approved EIA Report and EM&A Manual.
- 1.2.12 In the Investigation Assignment, priority was given to adopt the drained-reclamation (instead of fulldredging) over the majority of reclamation areas, except seawall base and other areas where underground structures are located, so as to minimize the dredging and disposal of marine sediments. Nevertheless, full dredging was proposed for forming seawall base so as to ensure the stability of seawalls and minimize their settlement, and this was assumed in the EIA study of TM-CLKL.
- 1.2.13 In the GI and laboratory testing conducted in end 2008, most of the marine sediment was classified as Category L with some classified as Category Mp (i.e. Category M sediment passing the biological tests) according to ETWB TC(W) No. 34/2002. These results were used for the EIA study of TM-CLKL.
- 1.2.14 In the further GI and laboratory testing carried out in early 2010 under HY/2009/23, more Category M_p and M_f(i.e. Category M sediment failing the biological tests) marine sediment was found at the southern landfall of TM-CLKL (refer to hereinafter as Southern Landfall). Under CE28/09, the seawall design for the Southern Landfall and HKBCF were reviewed and revised to the non-dredged method where the seawall structure is in the form of circular cells formed by interlocking of steel sheet piles. On 15 November 2010, application for variation of EP (Application No. VEP-331/2010) was made for the design change of the Southern Landfall and an amended Environmental Permit (No. EP-354/2009/A) was issued by DEP on 8 December 2010.
- 1.2.15 In the further GI and laboratory testing conducted for northern landfall of TM-CLKL (referred to hereinafter as Northern Landfall) and along the marine viaducts of Southern Connection in 2010, more Category M_p and M_f sediment was found. The Sediment Quality Report was submitted to EPD for approval in April 2011.
- 1.2.16 As more Category M marine sediment was found, there is a need to review the reclamation design of the Northern Landfall, with a view to minimize the dredging and disposal of marine sediments as far as practicable, and to derive suitable method to handle the marine sediment. In addition, as these marine sediments will be excavated during the construction of the cut-and-cover tunnels and tunnel shafts of TM-CLKL, it is necessary to assess and recommend measures to handle these materials and apply for the subsequent variation of EP for the Project. In view of the above circumstances, a VEP-426/2014 was submitted to EPD in January 2014 and an EP (Reference No. EP-354/2009/B) was issued by DEP on 28 January 2014.
- 1.2.17 In October 2010, HyD commissioned an independent expert review on geotechnical design and construction of the proposed subsea TBM tunnel under Agreement No. HHZMB3/10. The review was completed in January 2011. The principal objectives of the Independent Review are:
 - to review the working papers, reports and documents about the geotechnical design of the (a) subsea TBM tunnel prepared under the Investigation Assignment and those prepared under CE28/09, and to advise on whether areas of concerns that would have significant adverse impact on the Project have been adequately addressed; and
 - to advise on the constructability of the large diameter TBM tunnels and the cross-passages; risk (b) mitigation measures; and recommend any necessary further ground investigation, based on the outcome of the review.

- 1.2.18 In December 2010, HyD engaged Messrs. AECOM Asia Co. Ltd. under CE13/10 to undertake the detailed design, tendering and construction supervision of the superstructures and infrastructures of HKBCF as well as the TCSS of the HKLR and TM-CLKL Southern Connection for achieving a coherent, consistent and efficient system-wide TCSS design for the closely related HKBCF, HKLR and TM-CLKL Southern Connection.
- According to the EPs of the HKLR, HKBCF and TM-CLKL projects, an independent Environmental 1.2.19 Project Office (ENPO) is required to oversee the cumulative environmental impacts arising from the projects and other concurrent projects in the adjoining area and to liaise closely with the Mainland project teams for the HZMB Main Bridge next to Hong Kong Territory within Mainland waters. The duties of ENPO and Independent Environmental Checker (IEC) of the HKLR, HKBCF and TM-CLKL projects would be undertaken and performed by a separate consultancy.
- 1.2.20 To facilitate the first construction contract for HKBCF reclamation and the TM-CLKL advance southern reclamation works, HyD commissioned a consultancy to undertake a baseline environmental monitoring as required in the EPs for HZMB Hong Kong projects before the award of the first contract.
- 1.2.21 A further baseline Pitcher Plant survey was conducted in September 2013 and confirmed the construction of the future Toll Plaza at Tuen Mun will affect the existing Pitcher Plant. As a result, it was proposed to transplant the affected Pitcher Plants. A VEP-456/2014 was submitted to EPD and an EP (Reference No. EP-354/2009/C) was issued by DEP on 10 December 2014.
- 1.2.22 Grouting trial for stone column was to be carried out at the designated areas. A VEP-469/2015 was submitted to EPD and an EP (Reference No. EP-354/2009/D) was issued by DEP on 13 March 2015.
- 1.2.23 The 2019 Policy Address has required that "... waiving the tolls of the new TM-CLKL Subsea Tunnel and the Lantau Link upon the commissioning of the TM-CLKL Subsea Tunnel scheduled for the end of 2020 ... " In response to this Policy Address requirement, no toll would be constructed for the TM-CLKL project. It was also decided to free up the areas for gainful use, and the site would be allocated to the bus company through short term tenancy (STT) for bus depot/ parking sites. There would not be new road/ road widening/ additional road lanes, and the project site area would only be reduced. HyD applied for surrender of part of the TM-CLKL EP relating to the scope of the Toll Plaza. The future bus company depot/ parking site would be excluded from the scope of the EP.
- 1.3 The Project
- 1.3.1 The scope of the whole TM-CLKL project comprises the followings:
 - (a) Tuen Mun and the proposed HKBCF at northeast of HKIA;
 - (b) carriageways, footpaths, central reserve/refuge islands and the ancillary works.;
 - (c) the Southern Landfall and the Northern Landfall;
 - Construction of maintenance access roads on the Northern and Southern Landfalls; (d)
 - (e) between the proposed HKBCF and NLH;
 - Construction of four slip roads connecting the marine viaduct with the NLH; (f)
 - (g) 500m long, connecting the associated roads in Tuen Mun and the Northern Landfall;

Construction of a dual 2-lane road tunnel (in two tubes) of approximately 5.0km long between

Construction of sections of seawalls of approximately 4.2km long and Government foreshore and/or sea-bed to be reclaimed to form approximately 35.6hectares of land for the construction of the proposed TM-CLKL and the proposed associated tunnel portals, buildings,

Construction of approach roads to the subsea tunnel including cut-and-cover tunnels at both

Construction of a dual 2-lane marine viaduct of approximately 1.6km long across the sea

Construction of a single 2-lane viaduct and a single 3-lane viaduct, each of approximately

- Site formation for construction of the road deck, including construction of associated slope works (h) with natural terrain hazard mitigation measures and retaining structures at Tuen Mun Area 46;
- (i) Construction of the associated carriageways and a footbridge at Tuen Mun Area 46;
- (j) Construction of a vehicular underpass to connect the road deck and the roundabout at Lung Mun Road / Lung Fu Road;
- Modification and realignment of existing Lung Mun Road and Lung Fu Road including (k) reconstruction/modification of sections of existing carriageways, footpaths and cycle tracks, utility diversion works to facilitate the construction of the substructure of the road deck;
- Construction of administration building, main control building, maintenance depot and ancillary (I) buildings, control points and facilities at the compound area (such as workshops, garage, training ground, petrol filling station, etc.), satellite control building, ventilation buildings and associated building services works to serve the proposed tunnel;
- Extension of the existing 4-cells box culvert adjacent to Tuen Mun River Trade Terminal; (m)
- (n) Construction of a temporary pontoon and re-provisioning of existing government berths and associated facilities at Tuen Mun River Trade Terminal;
- Realignment of the seawall maintenance road at the seafront of North Lantau, including (0) modification of the existing seawall for construction of the foundation works of the proposed elevated carriageway;
- Modification and realignment of sections of NLH and Cheung Tung Road including construction (p) of associated slope works with natural terrain hazard mitigation measures and utility diversion works:
- Laying of a fire main along Cheung Tung Road (this works element is identified after finalizing (q) the road scheme for gazette);
- Relocation of two public lighting substations along Cheung Tung Road as agreed with relevant (r) management and maintenance authorities;
- Construction of route-wide E&M works, TCSS and facilities for the TM-CLKL, including (s) ventilation, street lighting and tunnel lighting, fire services system, tunnel operation and control systems, communication systems, security and access control system, supervisory control and data acquisition system, power supply, central monitoring and control system power supply and distribution systems; and
- Construction of associated works including civil, structural, geotechnical, marine, drainage, (t) sewerage, environmental protection and mitigation, landscaping, traffic aids including sign gantries, traffic signs, directional signs and road markings, water works and utilities works.
- 1.3.2 Under the Investigation Assignment, the works of TM-CLKL are recommended to be constructed under six packages by either "Design and Build" (D&B) approach or conventional "Designer-Led" approach. Both the detailed design and construction of the first package for advance work of TM-CLKL (i.e. the Southern Landfall reclamation) has been entrusted to the HKBCF project. Subject to the review under this Assignment on the contract strategy and packaging, the remaining works of the Project will be constructed by five works contracts. The scope and the assumed approach for each of the works contracts are listed below.
 - Southern Connection including all viaducts and slip roads connecting the HKBCF and Contract 1 -NLH and associated re-alignment of Cheung Tung Road, slopeworks, natural terrain

hazard mitigation works and laying of a fire main along Cheung Tung Road (D&B approach, except the landscaping works).

- Contract 2 -
- Contract 3 -Road ("Designer-Led" approach).
- Contract 4 services.
- Contract 5 surveillance system for the TM-CLKL Northern Connection).
- landscape works are shown on Figures 1.1 1.6.
- 1.3.3 The works will be implemented according to the following anticipated schedules:
 - Contract 1 Contract No. HY/2012/07 Southern Connection Viaduct Section
 - **Design and Construction Period**
 - Contract 2 Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section
 - Design and Construction Period
 - Contract 3 Contract No. HY/2013/12 Northern Connection Toll Plaza and Associated Works
 - Construction Period
 - Contract 4 Contract No. HY/2017/10 Northern Connection Tunnel Buildings, Electrical and Mechanical Works

Construction Period	May 2018
Contract 5 - Contract No. HY/2014/10 -	Northern Con
Design and Construction Period	May 2018

Tunnel Section including Northern Landfall reclamation (including temporary pontoon for berthing and re-provisioning of government berths), extension of box culvert, subsea TBM tunnel (two tubes and some cross passages), cut-and-cover tunnels, approach roads, at-grade roads, North Ventilation Building and South Ventilation Building at the Northern Landfall and Southern Landfall respectively (D&B approach, except Northern Landfall reclamation and extension of box-culvert).

The associated connections including viaducts connecting with Northern Landfall, a footbridge, a vehicular underpass, Lung Mun Road and Lung Fu Road junction modification works, slip roads, roundabout and realignment of a section of Lung Mun

All Tunnel Buildings and Route-wide E&M works including the main control building, maintenance depot and training ground, administration building, petrol filling station, ventilation buildings, satellite control building, control points and facilities, re-provision of C&ED and FSD Buildings (excluding North Ventilation Building and South Ventilation Building which are included in Contract 2 above), including building

Route-wide TCSS system (Design, supply and installation of a traffic control and

The extent and scope of the above Contracts 1 to 5, including the responsibility of implementation of

June 2013 to 1st half of 2019 at the earliest

August 2013 to 2020 at the earliest

July 2014 to 1st half of 2019

8 to 2020 at the earliest

nnection Traffic Control and Surveillance System

May 2018 to 2020 at the earliest

1.3.4	Under Contract No. HY/2012/07, part of the landscape softworks has been entrusted to Contract No.	HyD	Highways Department
	DC/2016/01, Construction of an Additional Sewage Rising Main between Tung Chung and Siu Ho Wan	HyD/Lighting	Highways Department/Lighting
	and Associated Works. A new rising main is needed to be constructed in order to free the existing rising main conveying sewage from the Airport and Tung Chung to Siu Ho Wan Sewage Treatment Works for	LandsD	Lands Department
	rehabilitation. The major benefit of this project is to enhance the operation reliability of the sewerage. In	TD	Transport Department
	view of the importance of the project, part of the landscape softworks has been entrusted to this project	WSD	Water Supplies Department
	so that sewage works could commence as soon as possible. It would be most undesirable if the plantings		
	completed in Contract No. HY/2012/07 are to be removed shortly after for construction of the proposed sewer. The EP requirements on the landscape softworks still apply to the entrusted works. The	<u>Others</u>	
	anticipated completion of the entrusted landscape softworks is by June 2021 at the earliest. The portion		
	of the entrusted landscape softworks is demarcated in the landscape master plans in Appendix D.	ACABAS	Advisory Committee on the Ap
		HKIA	Hong Kong International Airpo
1.4	Scope of this Landscape and Visual Plan	MTRC	Mass Transit Railway Corpora
1.4.1	The Landscape and Visual Plan (LVP) is prepared in accordance with Condition 2.9 of the prevailing EP		

- No. EP-354/2009/D. The LVP for the Project shall cover the aesthetic design of the viaduct, building structures and streetscape elements, detailed tree preservation, transplanting and felling proposal, compensatory planting proposals to provide at least 33 ha of landscape planting, and other measures including night-time lighting control.
- 1.4.2 The proposed General Layout and the limit of site boundary for the Project are illustrated in **Appendix A**. The scope and extent of the five contracts involved in the TM-CKLK Project is also tabulated and illustrated in **Appendix A** of this Plan.
- 1.4.3 With reference to Para 1.2.6(c) of this LVP, a combined toll plaza strategy to serve both the TM-CLKL and TMWB was considered and adopted in the approved EIA Report (AEIAR-146/2009). The latest design and the road alignment of TM-CLKL exclude the road layout of TMWB and its associated buildings, roadside planting and streetscape treatment. Subsequently the scope of this LVP does not include the layout and works of TMWB and the recommended mitigation measures for their associated landscape and visual impact.
- 1.4.4 With reference to Para 1.2.23, this LVP will not include the toll plaza, the toll collection facilities and the future bus company bus depot/ parking site.
- 1.4.5 Following this introductory section, the remainder of this LVP is arranged as follows:
 - Section 2 describes design considerations for the Project;
 - Section 3 describes the detail implementation of the mitigation measures in reference to the approved EIA Report;
 - Section 4 summarizes the findings.

1.5 **Abbreviations**

- 1.5.1 The following abbreviations are used in this LVP:
- 1.5.2 Government Departments
 - CEDD Civil Engineering and Development Department
 - C&ED Customs and Excise Department
 - DevB Development Bureau
 - DSD Drainage Services Department
 - EMSD Electrical and Mechanical Services Department
 - EPD Environmental Protection Department
 - FSD Fire Services Department
 - GLTMS Greening, Landscape and Tree Management Section

Advisory Committee on the A Hong Kong International Airp Mass Transit Railway Corpor
Cheung Tung Road
Hong Kong Boundary Crossi
Hong Kong – Zhuhai – Maca
Lung Fu Road
•
Lung Mun Road
Lantau Logistics Park
North Lantau Highway
Potential Development Area
Tuen Mun – Chek Lap Kok L
Tuen Mun Western Bypass

1.5.3

Road/Places

CTR

HKBCF

HZMB

LFR

LMR LLP

NLH

PDA

TM-CLKL

TMWB

nt/Lighting Division

Appearance of Bridges and Associated Structures rport oration

sing Facilities cao Bridge

Link

2 DESIGN CONSIDERATIONS

2.1 Landscape Design Considerations

- 2.1.1 In Section 10.9 of the approved EIA Report, design measures are proposed as landscape and visual mitigation measures during detailed design stage. The measures are considered and will be adopted in the construction as far as practical.
- 2.1.2 In the development of the design for landscape works, the followings pose constraints on tree planting and greening provision on the TM-CLKL project.

• Public Lighting Design Manual (PLDM) (3rd Edition: October 2016)

As stipulated in the PLDM (3rd Edition: October 2016), *"In general, the trees shall be planted at least 10m away from the road lighting columns and 15m away from high mast lighting column. To avoid obstruction to maintenance access, no planting of bushes shall be allowed in an area of at least 1m radius from the lamp post."* Tree plantings are about 10m offset from the street lighting in TM-CLKL.

• Structures Design Manual for Highways and Railways (2013 Edition)

As stipulated in the SDM (2013 Edition, "Placement of soft and hard landscape elements shall not obstruct the motorists' sight lines and visibility splays as recommended in the Transport Planning and Design Manual (TPDM) Volume 3, Section 3." A balance will be seeked between the area suitable for tree planting and the safety of motorists.

• Hong Kong International Airport

Planting at the Southern Landfall is required to follow the guidelines described in the Hong Kong International Airport Approved Plant Species List (Revision 4.0.1: October 2015) [APSL]. Relevant restrictions of the planting design shall follow the APSL. The planting area fall within Zone 1 and Zone 2 of the APSL. Basically, Zone 1 is a no-tree zone and tree planting restrictions applied in Zone 2. However, to maximize tree planting to meet the compensatory tree quantity under the tree removal applications, an alternative tree planting proposal was submitted to the HKIA and "no adverse comment" was received from the perspective of birdstrike risk management.

• Potential Development Area

There are areas within the TM-CLKL that are potential development areas under the "Planning and Engineering Study for Tuen Mun Areas 40 and 46 and the Adjoining Areas". Tree planting is not recommended for the potential development area (PDA) as the trees will likely to be removed for the development of the PDA. Planting within the PDA is considered short term and is also not counted towards the compensatory planting area for the EP condition in order not to jeopardize the future land uses. Government lots will be fenced off and will be returned to LandsD in condition to their satisfaction.

• Areas under Shade

Areas under shade includes places under the cover of the road deck and viaducts and in general not favorable for tree planting for the healthy development of trees.

• Slope Planting

The types of planting on man-made slopes are subject to the angles, the locations and substrate conditions of the slopes. Reference is made to "GEO Publication No. 1/2011 Technical Guidelines on Landscape Treatment for Slopes" in the planting proposal for man-made slopes. Slopes with rocky substrate condition limited the size and quantity of tree planting. Compensatory tree planting proposals for slopes under the maintenance of HyD have been reviewed and commented by HyD/Landscape Division on the tree species, sizes, spacing and locations.

• Underground Utilities

There are existing underground utilities within some of the planting areas and a considerable amount of land area is reserved for accommodation of new underground utilities and underground structures, especially for roadside areas and areas near tunnel entrances/exists. Tree planting is avoided in these areas as they may obstruct the necessary maintenance and inspection works of underground utilities and structures.

Mass Transit Railway Protection

MTRC has raised concern of planting within the MTR protection boundary, in particular areas near the track in North Lantau. From railway protection point of view, MTRC considers that climber planting for piers near the track is unacceptable as it will impose fire hazard to the operating railway. Trees will hit the MTR structure, fence or overhead power lines in case of collapse. Compliance of the railway protection requirement is required.

• 'Right Tree for the Right Place'

While all available areas within the project boundary are to be exhausted to identify suitable sites for tree planting, the basic principle of 'right tree for the right place' has to be observed, and as such sufficient space for the proper growth of trees have to be provided. Tree density should not be increased without compromising the appropriate and proper spacing for tree growth and resulting in more vegetation maintenance efforts.

Furthermore, compensatory tree planting should be provided in locations that would bring benefits to the community and public enjoyment, and the sites should be permanent instead of temporary to avoid future transplanting/ removal. The fenced-off drainage reserve area in the Northern Landfall is not accessible to the public and thus diminishing the amenity value of the greening works. Also the fenced-off area is considered not suitable for implementing long term greening strategy due to uncertain but potential programme of development of the land. The alternative compensatory planting at the seaward side of the Northern Landfall facing towards the Butterfly Beach would bring better public enjoyment, thus enhancing the amenity value of the greening and compensatory planting works. The locations and photos of the alternative planting at the seaward side of the Seaward side of the Northern Landfall fractions for the seaward side of the seaward side of the alternative planting at the seaward side of the Northern Landfall facing towards the Butterfly Beach would bring better public enjoyment, thus enhancing the amenity value of the greening and compensatory planting works. The locations and photos of the alternative planting at the seaward side of the Northern Landfall are illustrated in **Figure 5.7** of **Appendix F**.

2.1.3

The constraints on planting pose a challenge to the landscape design. To minimize the potential landscape and visual impact, other than maximizing greening opportunities, aesthetic architectural design on the above-ground structures and buildings also serve to provide a harmonized effect. The mitigation measures proposed in the approved EIA Report and a summary of achievement of the proposed mitigation measures in different stages are consolidated in **Table 3.1** of **Section 3**.

3 **MITIGATION MEASURES**

3.1 Landscape and Visual Mitigation Measures

- 3.1.1 In Section 10.9 of the approved EIA Report, landscape and visual mitigation measures are proposed for design, construction and operation phases.
- 3.1.2 Implementation details and the corresponding contract of the landscape and visual mitigation measures under TM-CLKL project are summarized in **Table 3.1** below.

Table 3.1 Summary of Achievement of Mitigation Measures

Proposed Mitigation Measures Contract(Relevant ontract(s)
surface of the retaining i the toll plaza area a patterned/smoother nd texture design to 	
	C2, C4

ID No. Design Measures

submission.

Round angle, patterned finishes,

and oval shaped pier were

considered in the viaduct design,

and further details will be

developed under ACABAS

DM3

Summary of Achievement of the	Relevant
Proposed Mitigation Measures	Contract(s)
The marine viaduct in North Lantau was of particular concern for the Southern Connection. Proposed aesthetic design measures incorporated in the proposed scheme of the viaduct were submitted to and accepted by ACABAS.	C1, C3
Inherited from the schematic design, the "Seagull" scheme was taken as the design theme for the TM-CLKL Southern Connection Viaduct Section. Aesthetically, the seagull form piers are envisaged to collectively compose a picture of a group of seagulls flying across the sea channel. This conceptual design of seagull piers was accepted by ACABAS in the 341 st meeting.	
A further ACABAS submission was made on the latest design and aesthetics enhancement for the Southern Connection Viaduct Section. Extracted ACABAS drawing is in Figure 2.2 of Appendix F .	
For the bridge viaducts and deck in Tuen Mun, improvement designs were submitted to and accepted by ACABAS. The improvements involved reducing the bulkiness of the deck and increasing the headroom. Extracted ACABAS drawing is in Figure 4.5 of Appendix F .	
Typical street furniture mainly comprises of roadside safety railings, beam barriers, road kerbs, standard chain link fence, tactile and traffic bollard which were developed based on the standards of HyD and TD.	C1, C2, C3, C4
Herringbone pattern with contrasting colour bands of concrete paving block was adopted at the footpaths on the road deck in Contract 3. The paving pattern is illustrated in Figure 4.6 of Appendix F .	
Herringbone pattern with contrasting colour trim of concrete paving block was adopted for the footpaths in the Northern and Southern Landfalls in Contract 2. The paving pattern is shown in Figure 3.2 of Appendix F .	

ID No.	Design Measures	Summary of Achievement of the Proposed Mitigation Measures	Relevant Contract(s)	ID No.	Construction Phase Mitigation Measures	Summary of Achievement of the Proposed Mitigation Measures	Relevant Contract(s)														
DM5	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission.	The proposed aesthetic design for the TM- CLKL Southern Connection Viaduct Section was accepted by ACABAS in the 342 nd Meeting. Further ACABAS submission was made under Contract 1 in the detailed design stage on the latest design and aesthetics enhancement for the 356 th Meeting and the submission on designs of the bridge was accepted. Extracted ACABAS drawing is shown in Figure 2.2 of Appendix F . Aesthetic designs of the North and South Tunnel Portals have been developed and submitted to ACABAS under Contract 2.		CM1	Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor	Contract, the Contractors submitted the method statement for the protection of trees for approval. Photo record of typical tree protection on site is shown in Appendix H , Figure 8.1 for Contract 1 and Figure 8.7 for	C1, C3														
		 Extracted ACABAS drawing is shown in Figure 3.1 of Appendix F. For Contract 3, the aesthetic designs for the highway structures were accepted by ACABAS in the investigation assignment, in the 317th and 319th meetings. Subsequently, design amendments to some sections of the viaduct and road deck structure were submitted to ACABAS and were accepted. An extracted drawing on a section of the bridge is shown in Figure 4.5 of Appendix F. Also under Contract 3, the aesthetic design for the following elements were submitted to and accepted by ACABAS: Graphic art design on VE cladding panel for retaining wall RW_B (Figure 4.1) East and West vehicular underpass portals (Figure 4.2 and Figure 4.3) Footbridge (Figure 4.4) 																CM2	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	Under the Contract Specification for Contract 1, 'Transplanted trees shall be relocated to the specified locations under single handling where possible. If it not possible, the Contractor shall make provision for the relocation of the transplanted trees temporarily to a holding nursery and replanting back of the transplanted trees to the specified locations.' Tree transplanting are carried out according to the Contract Specification for both Contract 1 and Contract 3. Sufficient time was reserved for root pruning. Photo record of the tree transplant process is shown in Appendix G, Figure 7.1 for Contract 1 and Figure 7.2 for Contract 3. Trees under Contract 3 are transplanted straight to their final receptor sites. The final receptor sites for the transplant trees are within the project boundary and have been agreed with the relevant maintenance departments, i.e. HyD and LCSD.	C1, C3
					CM3	Hillside and roadside screen planting to proposed roads, associated structures and slope works.	 The following measures have been taken by the Contractor to allow vegetation as screening for the works during construction phase: Vegetation not affected by works is not cleared under site clearance; Vegetation to be affected by works will be cleared under site clearance according to phases of work. Hillside and roadside screen planting are implemented in Contract 1 and Contract 3. While there are no slope works in Contract 4, only roadside screen planting is implemented. 	C1, C3, C4													

		Photo record in Appendix H illustrate some locations for the implementation of CM3. Contract 1: Figure 8.2 Contract 3: Figure 8.7 Contract 4: Figure 8.10	01.00.00			 At any time, all lights shall not form a source of glare or in any way affect pilots in flight and air traffic controllers in the Air Traffic Control Tower. All lights shall not be arranged in a way which may be mistaken as aeronautical ground lights by pilots. 	
CM4		Slope works would be hydroseeded and soil stockpiles would be covered by tarpaulins to minimize dust generation in dry or windy condition. The soil stockpiles were covered by visually unobtrusive material in green tone.	C1, C2, C3, C4			 All lights shall not project skyward. For those lighting that may spill out into the sky, they should be capped at the top to avoid causing glare or any misleading signals to pilots or air traffic controller. 	
		Photo record in Appendix H illustrate some locations for the implementation of CM4.				Photo record in Appendix H illustrate some locations for the implementation of CM6.	
		Contract 1: Figure 8.2 Contract 2: Figure 8.4 Contract 3: Figure 8.8 Contract 4: Figure 8.10				Contract 1: Figure 8.3 Contract 2: Figure 8.5 Contract 3: Figure 8.8 Contract 4: Figure 8.11	
CM5	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works.	Typical HyD standards have been adopted for the hoarding (i.e. HyD Standard drawing no. H6110C and H6111D) and fencing (i.e. HyD Standard drawing no. H6121B and H6122A) for works areas. For a particular demolition works on Ho Yeung Street (Portion 6), the Contractor of Contract 2 adopted an approximately 4.5m height hoarding with a sliding and folder door system to screen the demolition works. The hoarding arrangement for this demolition works area is included in Figure 8.6i and Figure 8.6ii in Appendix H . Barriers with visually unobtrusive colours were used to screen works. Photo record in Appendix H illustrate some locations for the implementation of CM5. Contract 1: Figure 8.3 Contract 3: Figure 8.8	C1, C2, C3	CM7	Ensure no run-off into water body adjacent to the Project Area.	 The measures for prevention of run-off into water body has been incorporated in the Site Drainage Management Plan that has been submitted to EPD. The measures are summarized as below: Implementation of temporary drainage system; Provision of wastewater treatment facilities to ensure proper treatment of wastewater generated on site; Diversion of run-off using sand traps, silt traps, sediment basins and/or U-channels; Provision of sand bag and earth bunds to divert run-off for wastewater treatment; Covering of open stockpiles to prevent silty run-off. 	C1, C2, C3, C4
CM6	Control night-time lighting and glare by hooding all lights.	In normal situation, the site will close at 6:00 pm and only necessary lighting installations for safety and security will be switched-on. In the course of night-time operation (beyond 6:00 pm), suitable and adequate lighting would only be fit close to the actual works area for safe working and access. No	C1, C2, C3, C4	СМ8	Avoidance of excessive height	locations for the implementation of CM7. Contract 1: Figure 8.3 Contract 2: Figure 8.4, Figure 8.5 Contract 3: Figure 8.9 Contract 4: Figure 8.11 The design of viaducts and associated	C1, C2, C3,
		excessive lighting would be switched on. The control of lighting would also fulfil the Requirement on Aviation Aspects.				structures were designed with consideration in aesthetics and were accepted by ACABAS.	C4

		The aesthetic design of buildings was				The tree planting quantity meet the	
		submitted to Architectural Services Department for approval under Aesthetic Design Submission Stage 2.				compensatory tree quantity required from the Tree Removal Applications.	
		For the North and South Ventilation Buildings under Contract 2, E&M equipment was arranged in the basement as much as		ID No.	Measures	Summary of Achievement of the Proposed Mitigation Measures A mix of natives and exotic species will be	Relevant Contract(s)
0140		practicable. The design intention in respect of building height for both buildings is to comply with the height limit under EIA (+24.25mPD).		OM1	Re-vegetation of affected woodland/shrubland with native species	provided to achieve a balance of the ornamental and ecological effect. Planting species for Contract 1 and Contract 3 with planting on slopes are shown in Figure 6.1 and Figure 6.2 in Appendix F .	C1, C3
CM9	Recycle/Reuse all felled trees and vegetation, e.g. mulching	 With reference to Development Bureau's <i>Guidelines on Yard Waste Reduction and Treatment</i>, the following measures are taken. <u>Reduce</u> Tree stumps will be left after tree felling for natural decomposition at areas that are inaccessible to the general public and have no safety concern. <u>Recycle</u> Yard waste are taken to areas that are inaccessible to the general public, such as vegetated areas on slopes and within expressway boundary, for natural degradation over time. <u>Reuse</u> Wood without suspected pest and disease will be reused, e.g. soil conditioner, mulching. 	C1, C3	OM2	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities.	The provision of tall planting has been maximized based on site constraints such as underground utilities, the protection railway boundary of MTRC to ensure the safe operation of the railway, airport bird strike control at HKBCF, sightline and visibility requirement and the proper planting practices and guiding principles promulgated by GLTMS of DevB for the purpose to improve the growing quality of trees. Rock slopes are provided with climbers for greening. At some locations, such as the back lane of the Maintenance Depot and the planter at the Administration Building adjacent to the wall of the tunnel portal, low buffer planting is preferred over tall buffer planting for keeping an open view of the site for safety,	C1, C3, C4
CM10	be provided to the satisfaction of relevant Government	The Tree Removal Application report for Agreement No. CE/7/2011(HY) was approved in Year 2013 and supplementary tree removal applications have been submitted subsequently.	C1, C3, C4			security and operational needs. Photo record in Figure 5.8 and Figure 5.9 in Appendix F illustrate some low buffer planting in the Northern Landfall.	
	trees shall be determined and agreed separately with	As commented in the approval memo in Year 2013, the design of the compensatory		OM3	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.	accordance to HyD standard drawings and relevant manuals for the purpose of road	C1, C2, C3, C4

ID No.	Operation Phase Mitigation Measures	Summary of Achievement of the Proposed Mitigation Measures	Relevant Contract(s)	3.2	Compensatory	Landscape Planting
OM4	Structure, ornamental tree/ shrub/ climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the	The provision of ornamental planting has been maximized based on site constraints such as underground utilities, the protection	C1, C3, C4	3.2.1	landscape p	o the Condition 2.9 of Environmental planting are required for the whole TI as for different contracts under this P D.
	townscape quality and further greenery enhancement.	strike control at HKBCF, the substrate conditions and gradient of slopes, traffic sight lines, clearance from street lighting and signage, operational and security needs of		3.2.2 Table 3.2		proximately 34.13 ha of landscape p mpensatory Planting Areas propose
		the operator(s), and the proper planting practices and guiding principles promulgated by GLTMS of DevB for the purpose to improve the growing quality of			Contract	Location
		trees. For prominent area such as the new roundabout area at the junction of Lung Mun			Contract No. HY/2012/07 (Contract 1)	North Lantau Highway Sectior Section and the southern portion
		Road and Lung Fu Road in Tuen Mun, the goal is to enhance the visual amenity at this junction to create a focal node. Ornamental flowering tree species (<i>Delonix regia</i> 鳳凰木			Contract No. HY/2013/12 (Contract 3)	Tuen Mun Section
		and <i>Tabebuia impetiginosa</i> 風鈴木) with lush shrub planting (<i>Ixora</i> spp. 龍船花) are proposed to enhance the visual amenity			Contract No. HY/2017/10 (Contract 4)	Northern Landfall at Tuen Mun an the Southern Landfall
		value of the area. The tree planting arrangement at this node is illustrated in Figure 4.2 of Appendix F .				Total La
OM5	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.	viaducts and associated structures were submitted to and accepted by the ACABAS.	C1, C2, C3, C4	3.3 3.3.1	i.e. 6,300 he quantity fror of tree com	ation ory tree planting shall meet the higher eavy standard trees and light standar n tree removal applications (mitigation bensation in Table E.1 summarized th he approved EIA Report, in the tree re
OM6		The design of viaduct and associated structures were designed with consideration in aesthetics and submissions were accepted by ACABAS. For buildings, the aesthetic designs were submitted to Architectural Services	C1, C2, C3, C4	3.3.2	5,353 heavy boundary in As such, mi	ne approved planting proposals with the standard trees to light standard tree consideration of the landscape design tigation measure CM10 is satisfied b to meet 6,300 trees, compensatory
		Department under Aesthetic Design Submission Stage 2. To reduce the building height for the Northern and Southern Ventilation Buildings,		3.3.3	department, works. The compensate	bry tree planting on slopes of HyD ha i.e. HyD/Landscape Division ascertai e location, extent, average slope a bry tree planting on each of the slope w illustrated in Appendix E.2 .
		the E&M equipment is arranged into the basement as much as practicable. The design intention in respect of building height for both buildings is to comply with the height limit under EIA (+24.25mPD).		3.3.4	proposal wa suitable and benefits to t within the sa	as made to EPD on compensatory tr is to meet the quantity as stated in the d permanent slopes of HyD could al the community. Though out of the p ame districts as the project site, i.e. T he identified slopes, their average slo

onmental Permit No. EP-354/2009/D, at least 33 ha of whole TM-CLKL Project. The compensatory landscape der this Project are tabulated in **Table 3.2** and shown in

dscape planting area will be achieved.

proposed for the Project

	Landscape Planting Area
Section, Cheung Tung Road	Approx. 14.41 ha
	Approx. 5.35 ha
n Mun and the northern portion of	Approx. 14.37 ha
Total Landscape Planting Area:	Approx. 34.13 ha

he higher quantity as stated in the approved EIA Report, t standard trees as compared to the compensatory tree nitigation measure CM10) which is 5,108. The summary narized the tree compensation including transplant trees the tree removal applications and presented in this LVP.

als with the relevant maintenance departments/ agents, ndard trees could be accommodated within the project pe design constraints described in **Section 2** of this LVP. atisfied by the tree planting within the project boundary. ensatory tree planting outside the project boundary is

f HyD have been agreed with the relevant maintenance ascertained the practicality of the proposed tree planting slope angles, tree species, size and spacing of the e slope within the project boundary for compensatory tree

Proposal was made to EPD on compensatory tree planting outside the project boundary. The proposal was to meet the quantity as stated in the approved EIA Report while the tree planting on suitable and permanent slopes of HyD could also facilitate better public enjoyment and bring benefits to the community. Though out of the project boundary, the identified HyD slopes are within the same districts as the project site, i.e. Tuen Mun, Tung Chung and Penny's Bay. The location of the identified slopes, their average slope angles, quantity of compensatory trees for each slope and tentative tree schedules which have been advised by HyD/Landscape Division are

in **Appendix E.3**. Locations of tree planting shall be verified on site to suit the actual slope condition, and trees may be planted in other nearby slopes in the same districts. EPD has no comment on the proposed compensatory tree planting locations from the EIAO compliance perspective.

3.3.5 The compensatory tree planting outside the project boundary will be implemented by the TM-CLKL Project. The subsequent monitoring on the planting works will comply with the requirements in the Environmental Monitoring and Audit (EM&A) Manual as in the planting works implemented in the other contracts of TM-CLKL Project.

Description	Approved EIA	C	ompensatory T	Tree Planting	
	Report	Within Project Boundary	Outside Project Boundary – Tuen Mun	Outside Project Boundary – Tung Chung	Outside Project Boundary – Penny's Bay
Nos. of Compensatory Tree Planting	6,300 (approx.)	5,353	375	330	335
			375	66	65
				1,040	
Total	6,300 nos. (approx.) (Tree Size: Light Standard, Heavy Standard)	(Tree Size	6,393 n : Light Standard		andard)

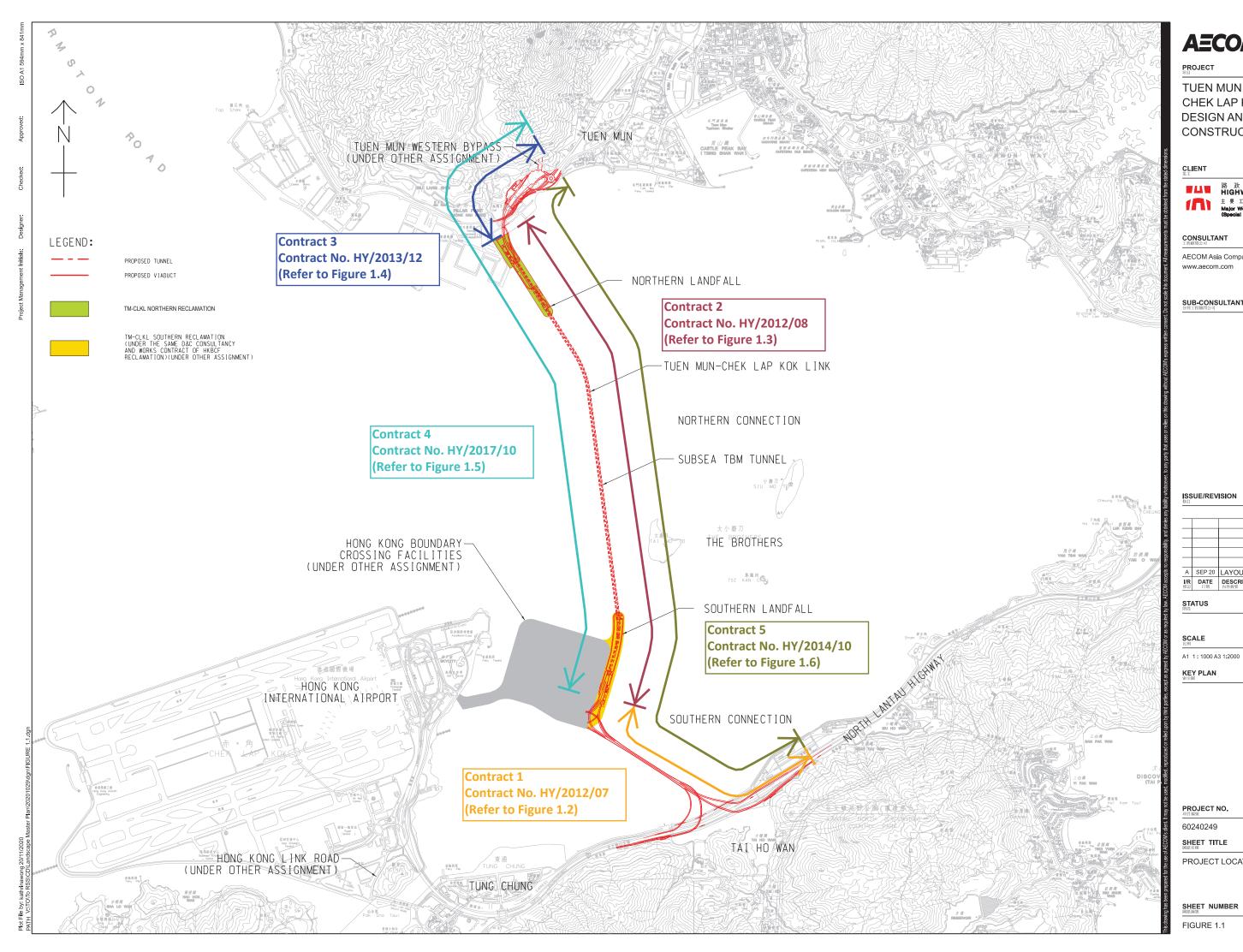
Table 3.3 Summary of Tree Compensation

4 CONCLUSION

- 4.1.1 The LVP is prepared in fulfilment of Condition 2.9 of Environmental Permit No. EP-354/2009/D. This LVP submission covers the whole TM-CLKL project site.
- 4.1.2 This LVP for TM-CLKL is prepared based on the latest engineering information.
- 4.1.3 All relevant mitigation measures listed in Section 10.9 of the approved EIA Report (Register No.:AEIAR-146/2009) have been considered and incorporated into the landscape design and construction as far as practicable.
- 4.1.4 The 33 ha compensatory planting area as required under Condition 2.9 of Environmental Permit No. EP-354/2009/D is achieved.
- 4.1.5 Compensatory tree planting 6300 nos. as required in the approved EIA Report is achieved.

General Layout and Scope of Contracts for TM-CLKL Project

Appendix A





TUEN MUN -CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

CLIENT

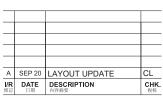


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ISSUE/REVISION



SCALE

STATUS

DIMENSION UNIT

MILLIMETRES

KEY PLAN

PROJECT NO. CONTRACT NO.

HY/2017/10

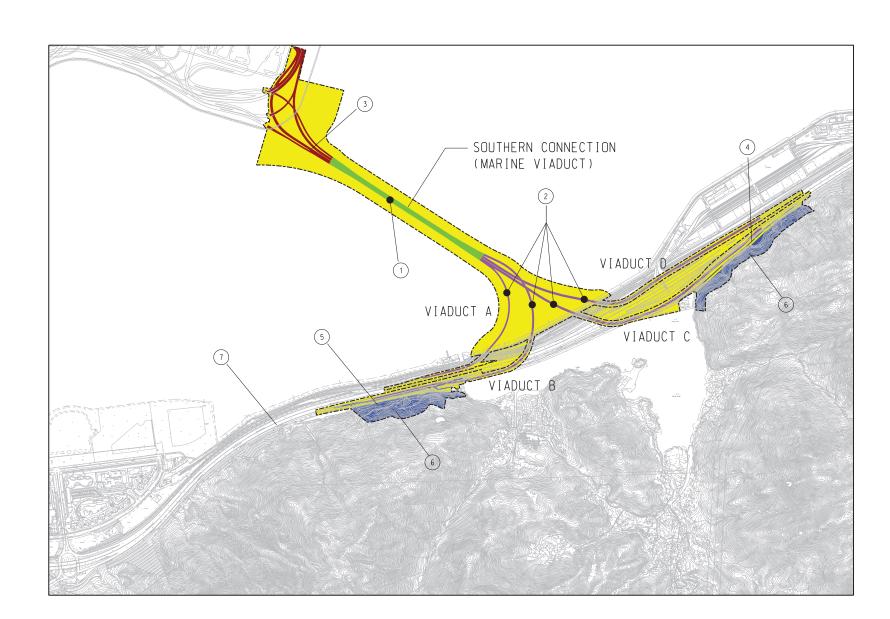
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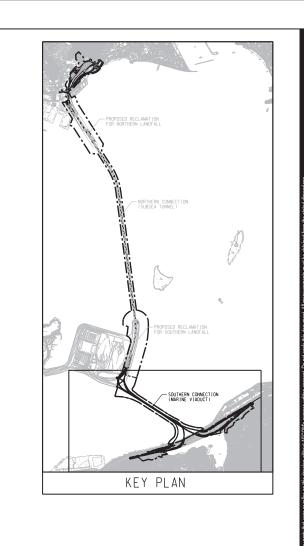
FIGURE 1.1

PROJECT LOCATION PLAN

60240249

SHEET TITLE





- (1)SOUTHERN CONNECTION - A DUAL 2-LANE SEA VIADUCT OF APPROXIMATELY 1.6km LONG BETWEEN THE HZMB HKBCF AND NLH
- 2 SOUTHERN CONNECTION - SLIP ROAD VIADUCT
 - VIADUCT A
 - VIADUCT B
 - VIADUCT C • VIADUCT D
- (3) CONNECTIONS TO HKBCF
- (4)RE-ALIGNMENT OF CHEUNG TUNG ROAD
- 5 SLOPEWORKS ALONG CHEUNG TUNG ROAD
- 6 NATURAL TERRAIN HAZARD MITIGATION WORKS AT CHEUNG TUNG ROAD
- 7 LAYING OF FIREMAIN ALONG CHEUNG TUNG ROAD
- (8) DRAINAGE, SEWERAGE, WATERWORKS, UTILITIES AND LANDSCAPING WORKS
- (9) LANDSCAPING WORKS IN NORTH LANTAU AND SOUTHERN LANDFALL (PORTION)



TUEN MUN -CHEK LAP KOK LINK

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

CLIENT



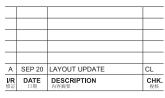
路政署 HIGHWAYS DEPARTMENT 主要工程管理處(專責事務) Major Works Project Management Office (Special Duties)

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SCALE

STATUS

DIMENSION UNIT

NIT.S. 1000 A3 1:2000

KEY PLAN

MILLIMETRES

PROJECT NO.

CONTRACT NO.

60240249

SHEET NUMBER

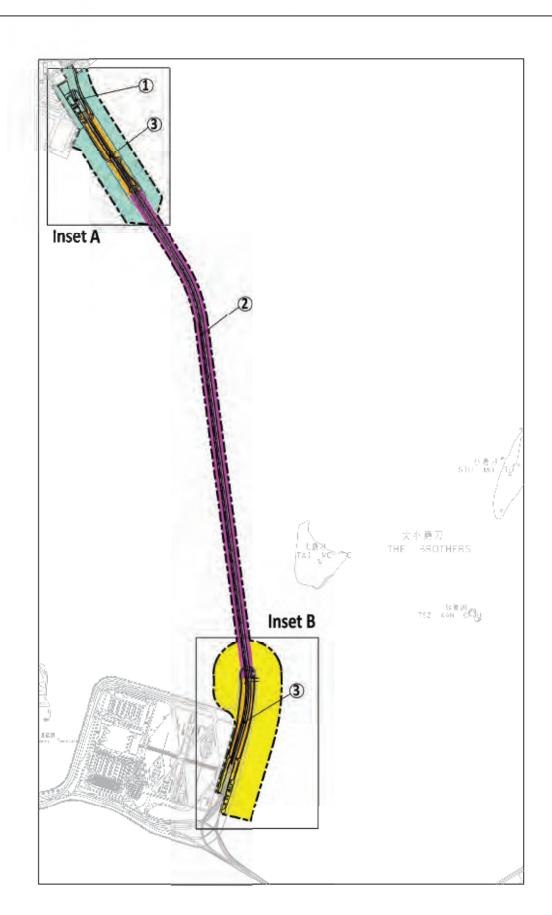
FIGURE 1.2

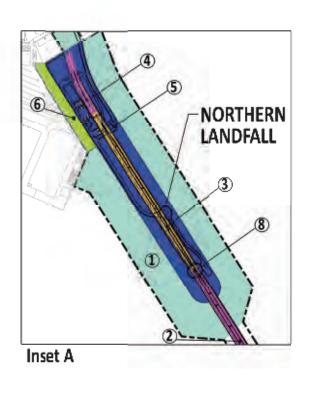
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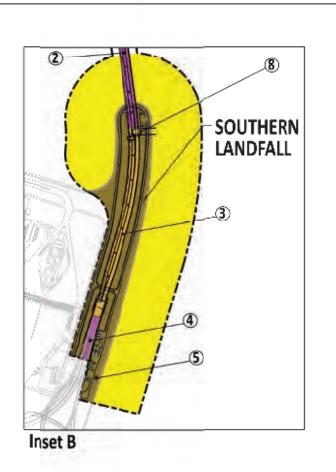
CONTRACT 1- SOUTHERN CONNECTION VIADUCT SECTION

HY/2012/07









- Northern Reclamation of around 16.5ha with 2.10km seawall (including temporary portion for berthing and reprovisioning of Government berths) 1
- 2 TBM Tunnel (2 tubes) - around 4km
- Tunnels at Southern and Northern Landfalls around 1.6km 3
- 4 Approach Ramp Structures and Retaining Walls
- At-grade roads at Southern and Northern Landfall 5
- 6 Box Culvert Extension at Northern Landfall
- Drainage, sewerage, waterworks, utilities at Southern and \mathcal{D} Northern Landfalls
- 8 North Ventilation Building and South Ventilation Building



TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

CLIENT

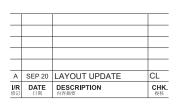


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STATUS

WORKING DRAWING

SCALE

DIMENSION UNIT

N.T.S

KEY PLAN

PROJECT NO.

CONTRACT NO.

60240249

HY/2012/08

SHEET TITLE

CONTRACT 2 - NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

SHEET NUMBER

FIGURE 1.3



東涌



SCALE A1 1 : 30000



PROJECT

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE TUEN MUN - CHEK LAP KOK LINK -NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

CLIENT



主要工程管理處(專責事務) Major Works Project Management Office

CONSULTANT

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A	SEP 20	LAYOUT UPDATE	CL
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS

PRELIMINARY

SCALE

A1 1:3000

KEY PLAN A1 1:30000

PROJECT NO.

CONTRACT NO.

DIMENSION UNIT

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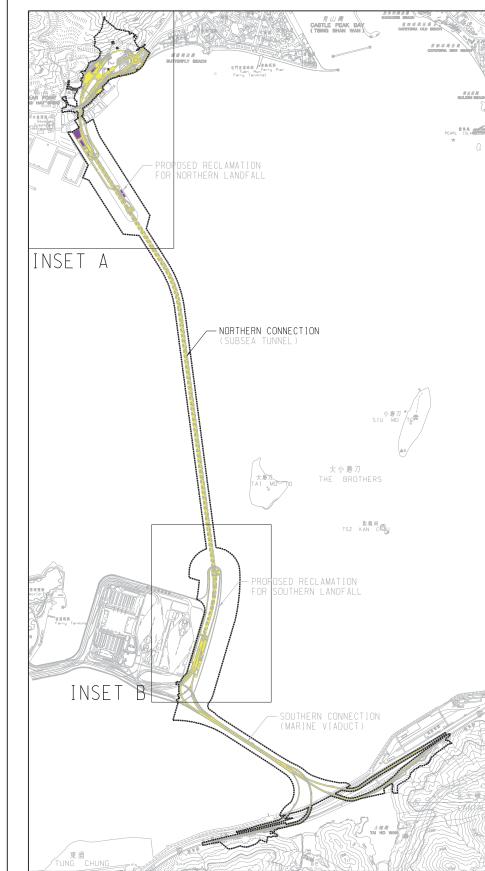
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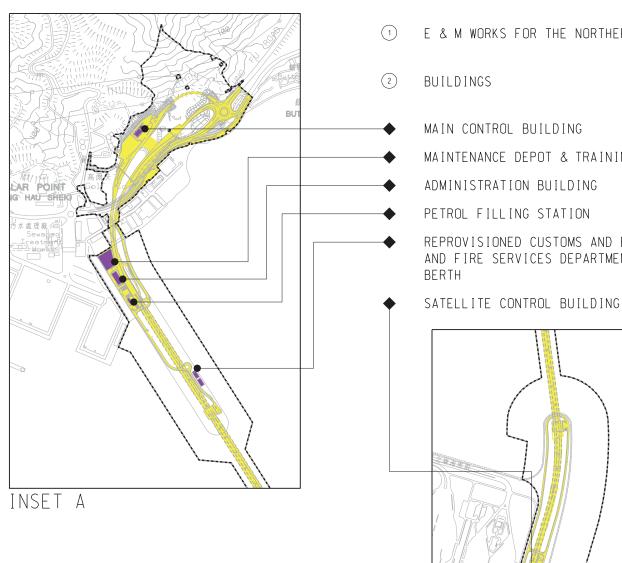
CONTRACT 3 - NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

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FIGURE 1.4

HY/2013/12





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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



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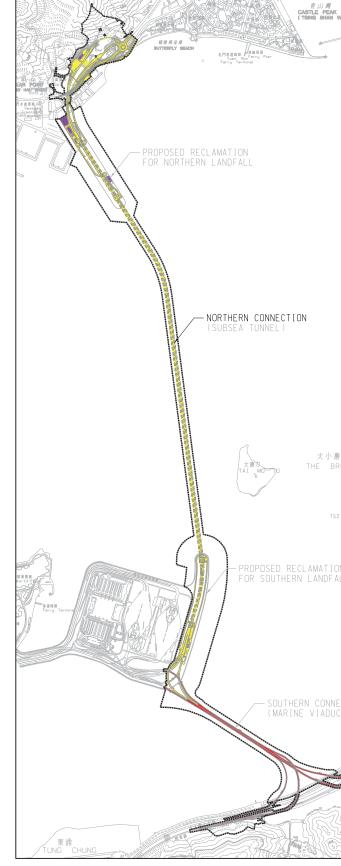
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CONTRACT 4 - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

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FIGURE 1.5

(1)ROUTE-WIDE TCSS SYSTEM - TM-CLKL (DESIGN, SUPPLY AND INSTALLATION FOR NORTHERN CONNECTION)



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TUEN MUN -CHEK LAP KOK LINK

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CONTRACT 5 - NORTHERN CONNECTION TRAFFIC CONTROL AND SURVEILLANCE SYSTEM

SHEET NUMBER

FIGURE 1.6

Letter of Certification from Environmental Team Leader and Verification Letter from Independent Environmental Checker

Appendix B

Environmental Resources Management

2509, 25/F One Harbourfront 18 Tak Fung Street Hung Hom, Kowloon Hong Kong

Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com

24 March 2021

Our ref: 0212330_39_ETL Certification_LV Plan_24_03_21.docx

By Email

Mr Bryan Lee Environmental Officer Dragages - Bouygues Joint Venture 3/F Island Place Tower 510 King's Road North Point Hong Kong

Dear Sir,

Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link -Northern Connection Sub-sea Tunnel Section

Landscape and Visual Plan

Reference is made to the Landscape and Visual Plan (Ref. A37-04B) submitted by AECOM through email on 22 March 2021.

I hereby certify that the captioned Landscape and Visual Plan is in compliance with Condition 2.9 of the Environmental Permit No. EP-354/2009/D.

Please do not hesitate to contact me should you have any queries.

Yours faithfully For ERM-Hong Kong, Ltd

- Digname

Dr Jasmine Ng Environmental Team Leader Direct Tel: (852) 2271 3311 E-mail: Jasmine.Ng@erm.com





2509, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong Telephone 2271 3000 Facsimile 2723 5660 http://www.erm.com

Environmental

Management

Resources



24 March 2021

Our ref: 0215660_57_ETL_Certification_L&V Plan_24_03_2021.docx

By Email

Mr Roy Leung Environmental Officer Gammon Construction Limited 28/F Devon House Taikoo Place 979 King's Road Hong Kong



Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Landscape and Visual Plan

Reference is made to the Landscape and Visual Plan (Ref. A37-04B) submitted by AECOM by email on 22 March 2021.

I hereby certify that the captioned Landscape and Visual Plan is in compliance with Condition 2.9 of the Environmental Permit No. EP-354/2009/D.

Yours faithfully For ERM-Hong Kong, Ltd

Jamie

Dr Jasmine Ng Environmental Team Leader Direct Tel: (852) 2271 3311 E-mail: jasmine.ng@erm.com



Registered Office ERM-Hong Kong, Ltd 2509, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong

Hong Kong Offices worldwide

Registered Office 2509, 25/F

One Harbourfront

18 Tak Fung Street

Hung Hom, Kowloon



Our Ref: TCS00715/14/300/L0736

AECOM

8/F Grand Central Plaza Tower 2, 138 Shatin Rural Committee Road Shatin

Attn: Mr. Roger Man

23 March 2021 By Email

Dear Sir,

Re: Contract No. HY/2013/12 Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works Environmental Permit No.: EP-354/2009/D Landscape and Visual Plan

With reference to the revised Landscape and Visual Plan (ref. A37-04B) Rev.A submitted by AECOM via e-mail, please note that we have no adverse comments on this submission. We herewith certify the captioned submission in accordance with Condition 2.9 of the Environmental Permit (EP) No. EP-354/2009/D.

Should you have any queries or require further information, please feel free to contact us or the undersigned at Tel: 2959-6059 or Fax: 2959-6079.

Yours sincerely, For and on Behalf of Action-United Environmental Services & Consulting (AUES)

T. W. Tam Environmental Team Leader

Ramboll (IEC) C.C. CRBC - Kaden JV (Contractor) Mr. Manson Yeung Mr. John Wong

By email By email 24 March 2021

Our ref: 0463091_10_ETL_L&V Plan_24 March 2021.docx

By Email

Mr Roy Leung Senior Environmental Engineer Gammon Construction Limited 28/F Devon House Taikoo Place 979 King's Road Hong Kong

Dear Sir,

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

Landscape and Visual Plan

Reference is made to the Landscape and Visual Plan (Ref. A37-04B) submitted by AECOM by email on 22 March 2021.

I hereby certify that the captioned Landscape and Visual Plan is in compliance with Condition 2.9 of the Environmental Permit No. EP-354/2009/D.

Yours faithfully For ERM-Hong Kong, Ltd

Dr Jasmine Ng Environmental Team Leader Direct Tel: (852) 2271 3311 E-mail: jasmine.ng@erm.com



Registered Office 2509, 25/F One Harbourfront 18 Tak Fung Street Hung Hom, Kowloon Hong Kong

香港新界葵涌大連排道35-41號全基工業大廈20樓A室 Tel Unit A, 20/F, Gold King Industrial Building, 35-41 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong Email info@fordbusiness.com

(852) 2959-6059 Fax (852) 2959-6079





2509, 25/F One Harbourfront 18 Tak Fung Street Hung Hom, Kowloon Hong Kong

Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com



RAMBOLL

Ref.: HYDHZMBEEM00_0_8425L.21

30 March 2021

By Fax (2293 6300) and By Post

AECOM Asia Co. Ltd. Supervising Officer's Representative Office No. 8 Mong Fat Street Tuen Mun, N.T.

Attention: Mr. S. W. Fok

Dear Mr. Fok,

Re: Agreement No. CE 48/2011 (EP) Environmental Project Office for the HZMB HKLR, HZMB HKBCF, and TM-CLKL – Investigation

> Agreement No. CE 7/2011 (HY) Tuen Mun-Chek Lap Kok Link – Design and Construction <u>Verification of Landscape and Visual Plan (Ref. A37-04B) for Tuen Mun-Chek</u> <u>Lap Kok Link</u>

Reference is made to the submission of revised Landscape and Visual Plan (Ref. A37-04B) (Rev. A) dated 22 March 2021 and provided by the Resident Landscape Architect to us via email on 26 March 2021 with certification letters signed by various ET Leaders for the TM-CLKL contracts:

- Contract No. HY/2012/07 ET's ref.: "0215660_57_ETL_Certification_L&V Plan_24_03_2021.docx" dated 24 March 2021;
- Contract No. HY/2012/08 ET's ref.: "0212330_39_ETL Certification_LV Plan_24_03_21.docx" dated 24 March 2021;
- Contract No. HY/2013/12 ET's ref.: "TCS00715/14/300/L0736" dated 23 March 2021; and
- Contract No. HY/2017/10 ET's ref.: "0463091_10_ETL_L&V Plan_24 March 2021.docx" dated 24 March 2021.

We are pleased to inform you that we have no adverse comments on the captioned plan. We write to verify the captioned plan in accordance with Condition 2.9 of the Environmental Permit No. EP-354/2009/D.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

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

Manson Yeung Independent Environmental Checker TM-CLKL

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Ramboll Hong Kong Limited 英環香港有限公司 21/F, BEA Harbour View Centre, 56 Gloucester Road, Wan Chai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899 www.ramboll.com

HyD	Mr. Patrick Ng	(By Fax: 3188 6614)
HyD	Mr. Alan Ip	(By Fax: 3188 6614)
AECOM	Mr. Daniel Ip / Ms. Candy Lau (HY/2012/07)	(By Fax: 3691 2899)
AECOM	Mr. Roger Man (HY/2012/08 & HY/2013/12)	(By Fax: 2293 6300)
AECOM	Mr. Desmond Fung (HY/2017/10)	(By Fax: 2783 0155)
AECOM	Mr. Conrad Ng	(By Fax: 3922 9797)
ERM	Dr. Jasmine Ng (HY/2012/07, HY/2012/08, HY/2017/10)	(By Fax: 2723 5660)
AUES	Mr. T. W. Tam (HY/2013/12)	(By Fax: 2959 6079)
GCL	Mr. Roy Leung (HY/2012/07 & HY/2017/10)	(By Fax: 3520 0486)
DBJV	Mr. Bryan Lee (HY/2012/08)	(By Fax: 2293 7499)
CKJV	Mr. John Wong (HY/2013/12)	(By Fax: 2253 8399)

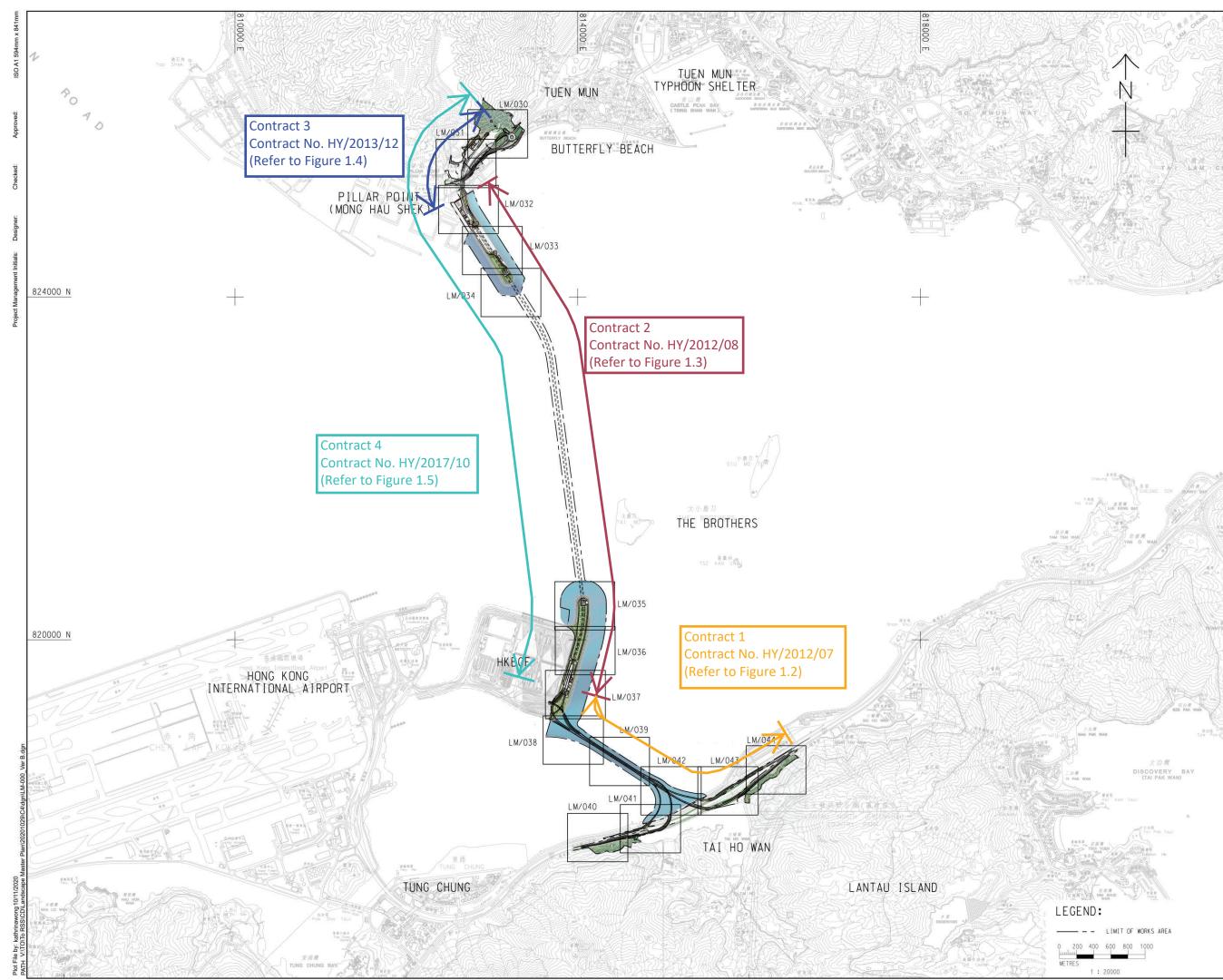
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Mitigation Measures Plan (Operation Phase) and Landscape Sections

Appendix C





TUEN MUN -CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

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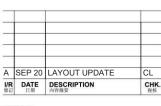
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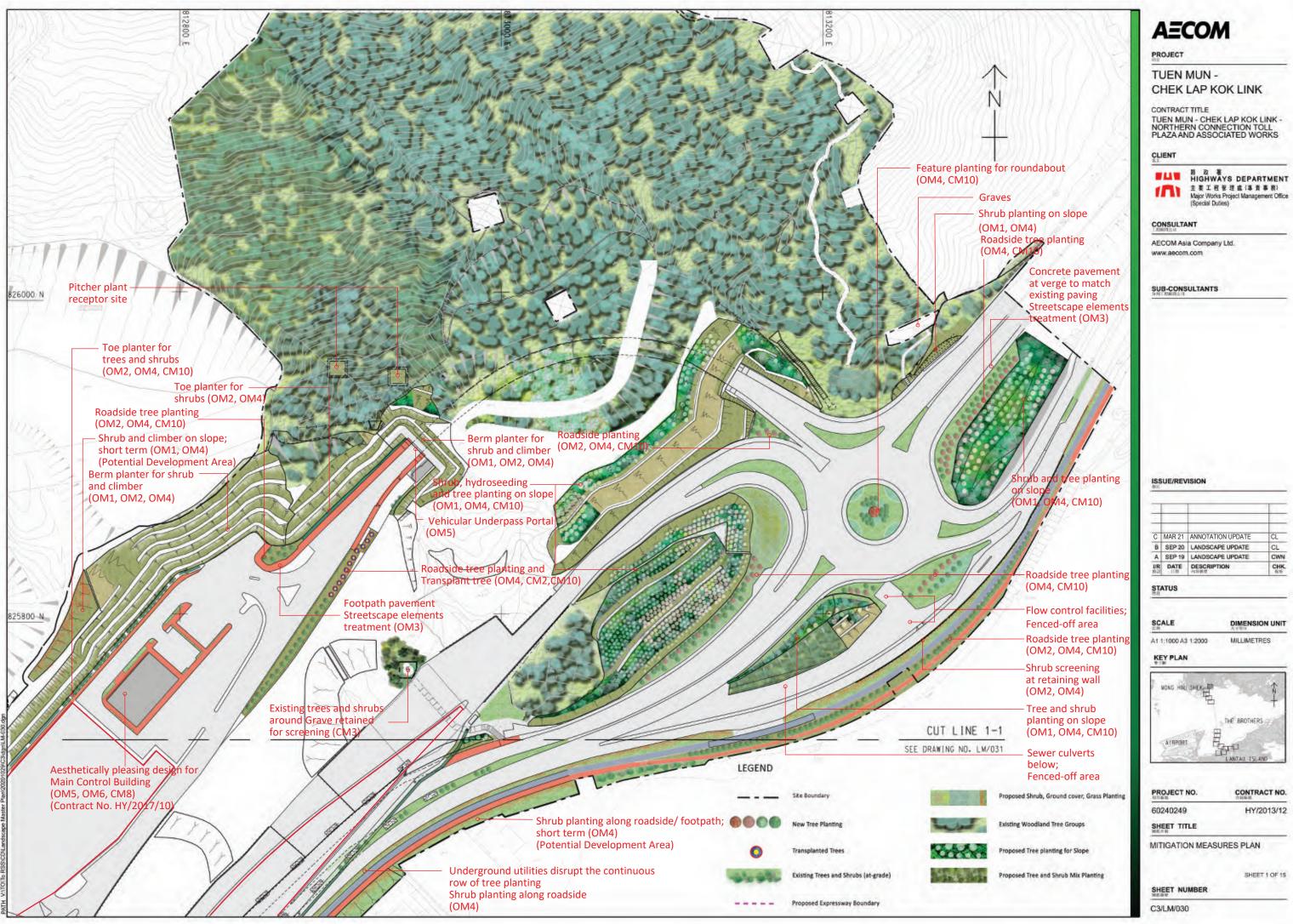
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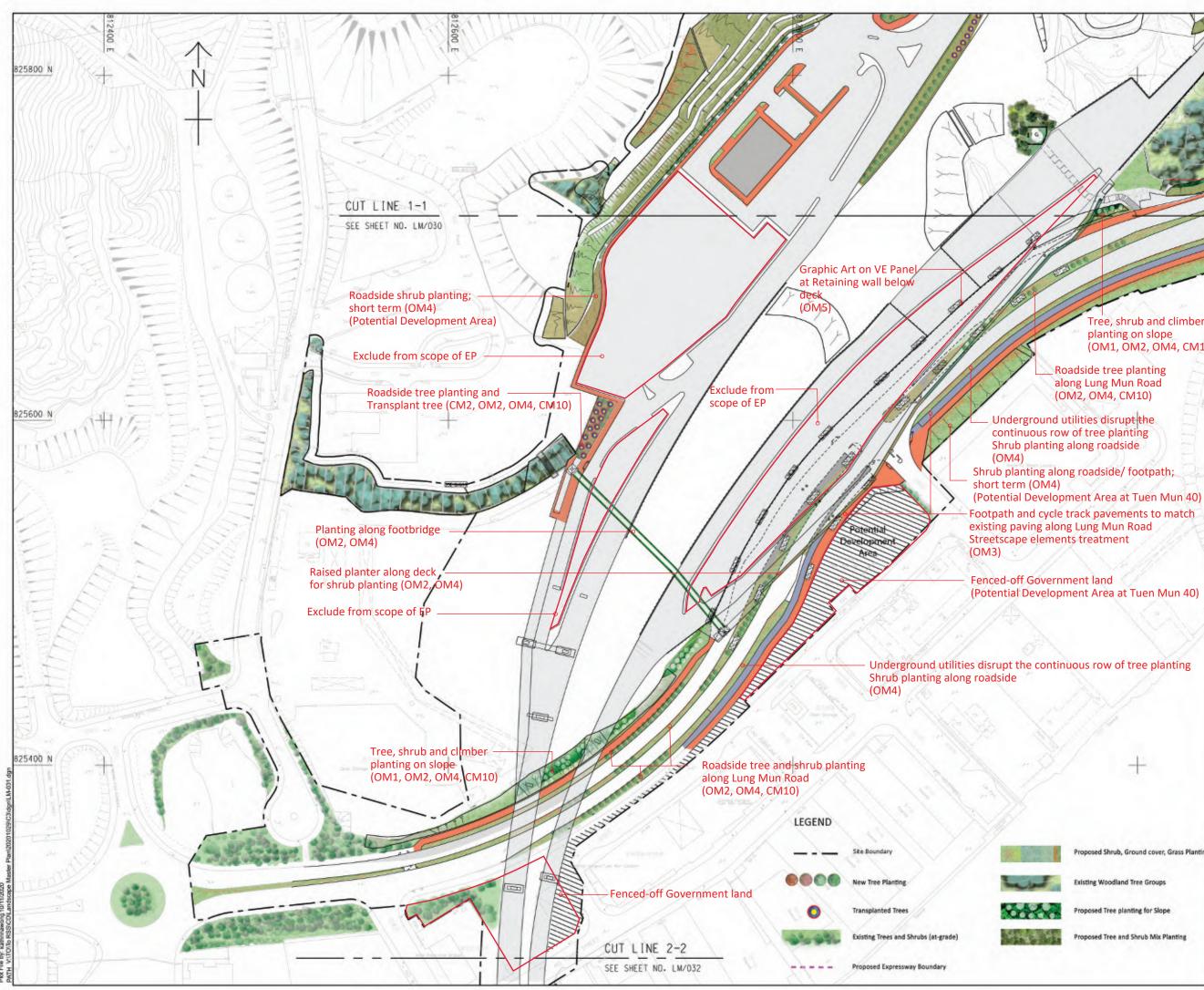
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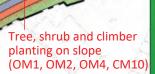
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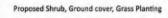
Roadside tree planting along Lung Mun Road (OM2, OM4, CM10)

Underground utilities disrupt the continuous row of tree planting Shrub planting along roadside

Shrub planting along roadside/ footpath;

Footpath and cycle track pavements to match existing paving along Lung Mun Road

(Potential Development Area at Tuen Mun 40)



Existing Woodland Tree Groups

Proposed Tree planting for Slope

Proposed Tree and Shrub Mix Planting



PROJECT

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK -NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

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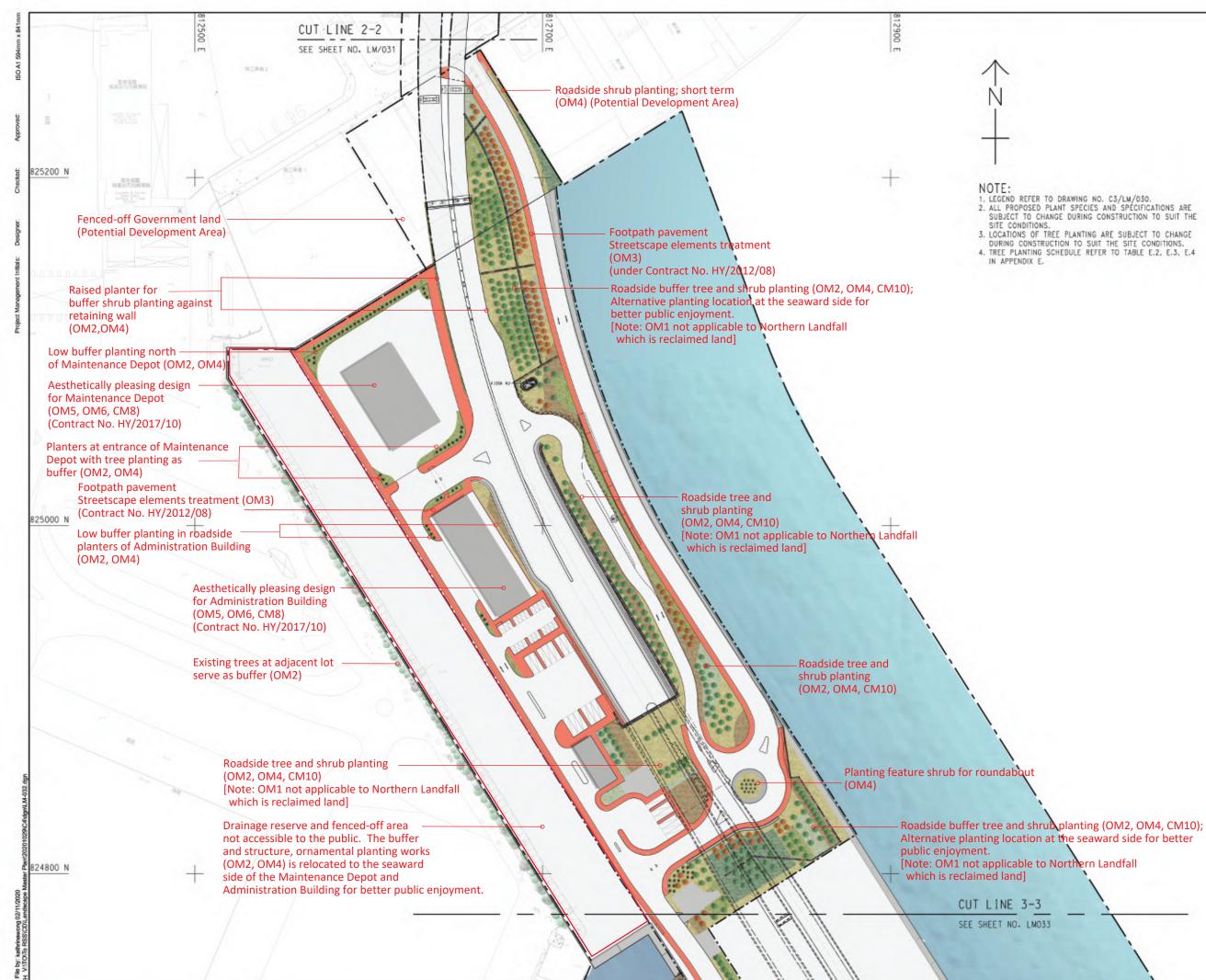
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PROJECT

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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



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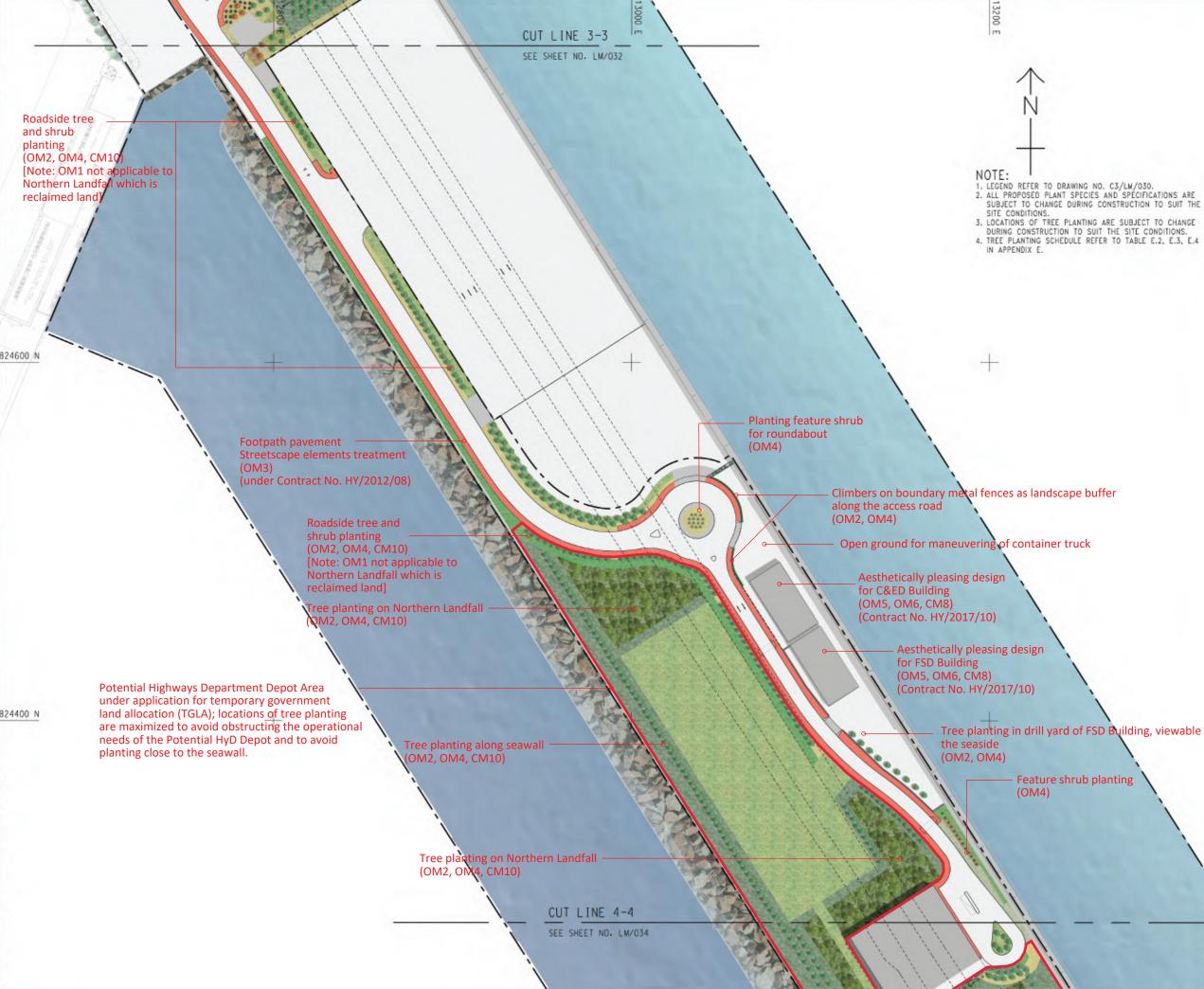
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SHEET 3 OF 15



Tree planting in drill yard of FSD Building, viewable from



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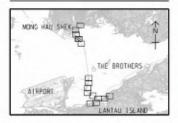
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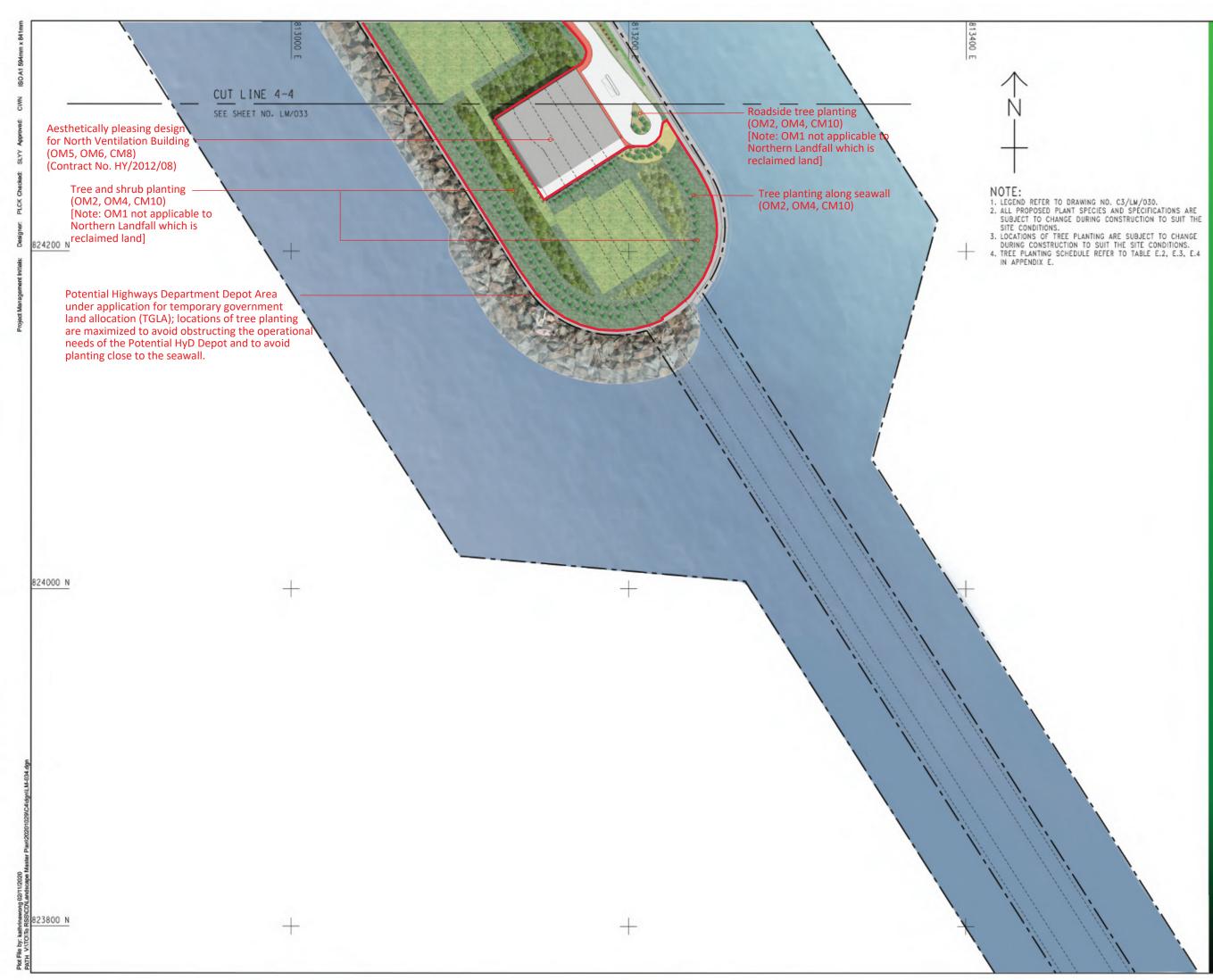
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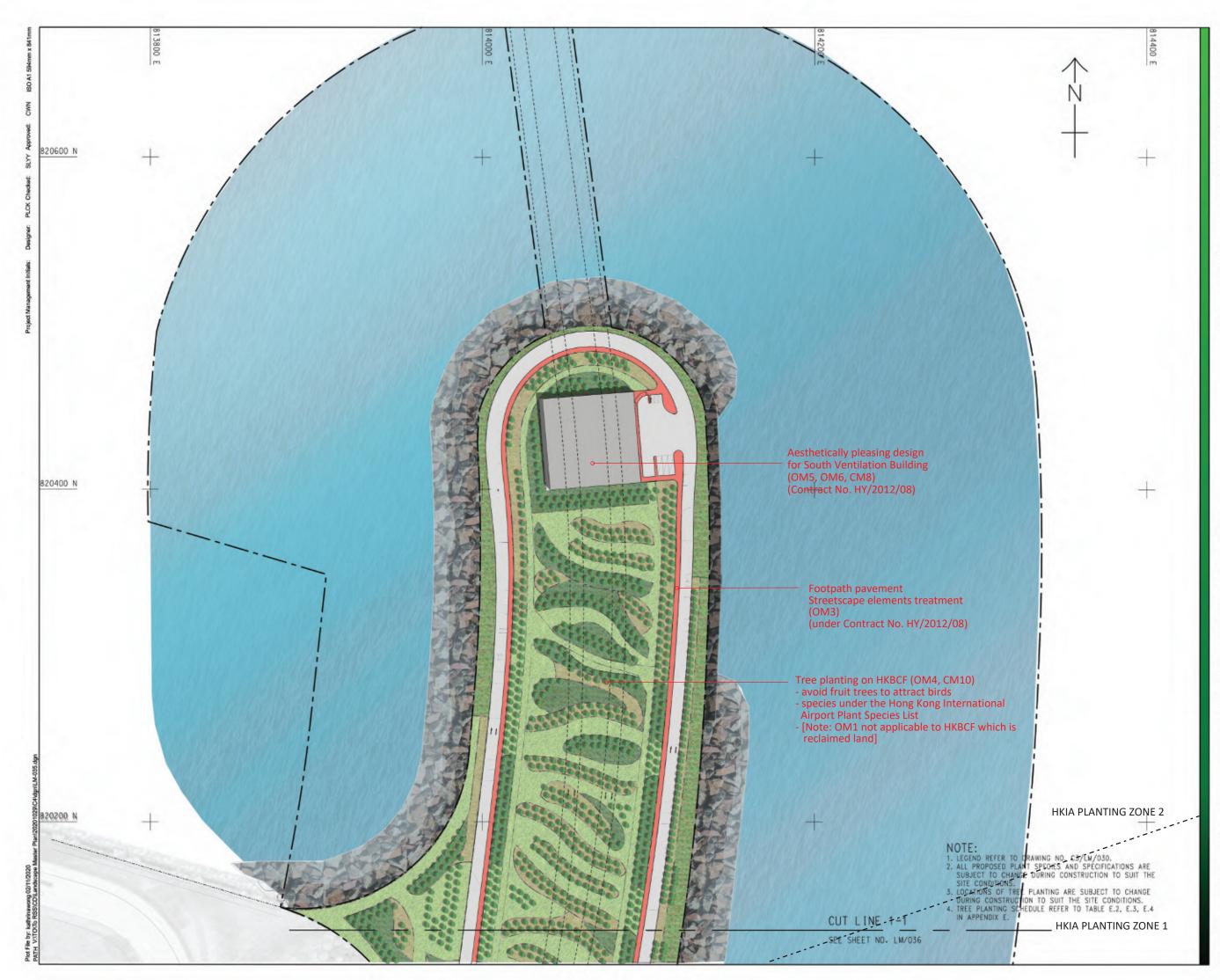
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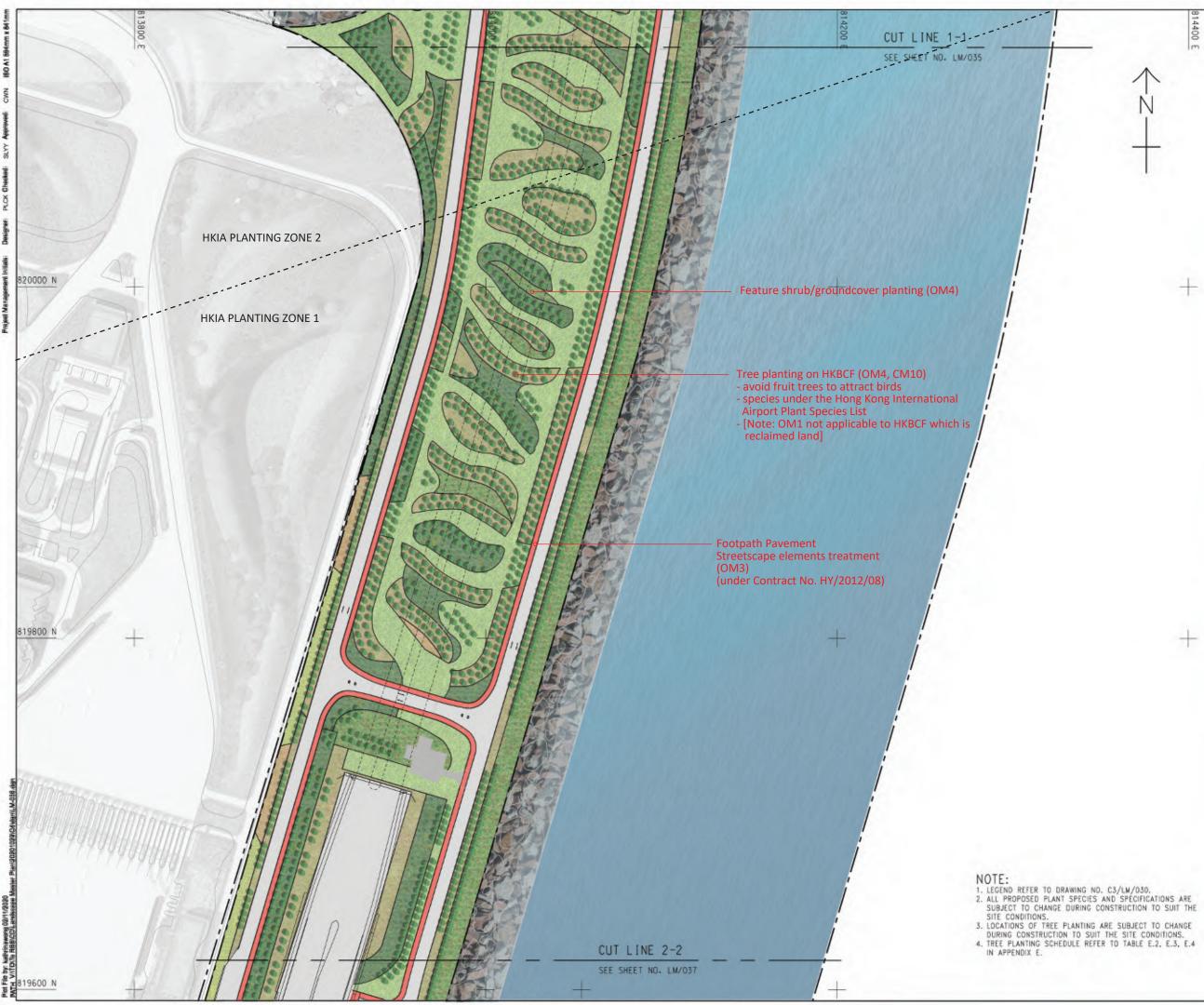
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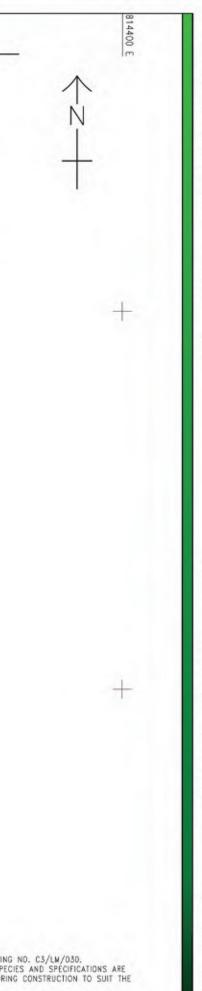
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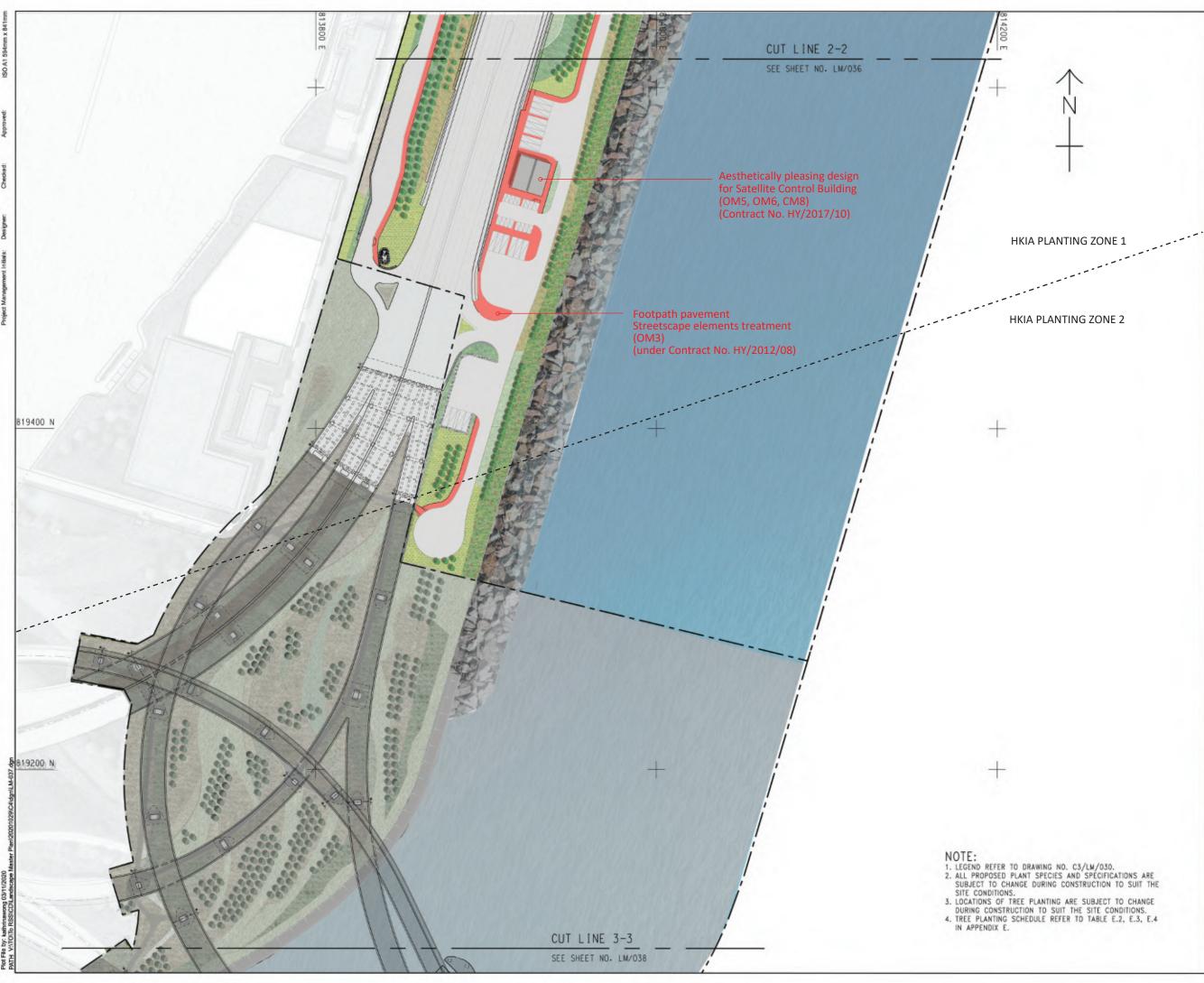
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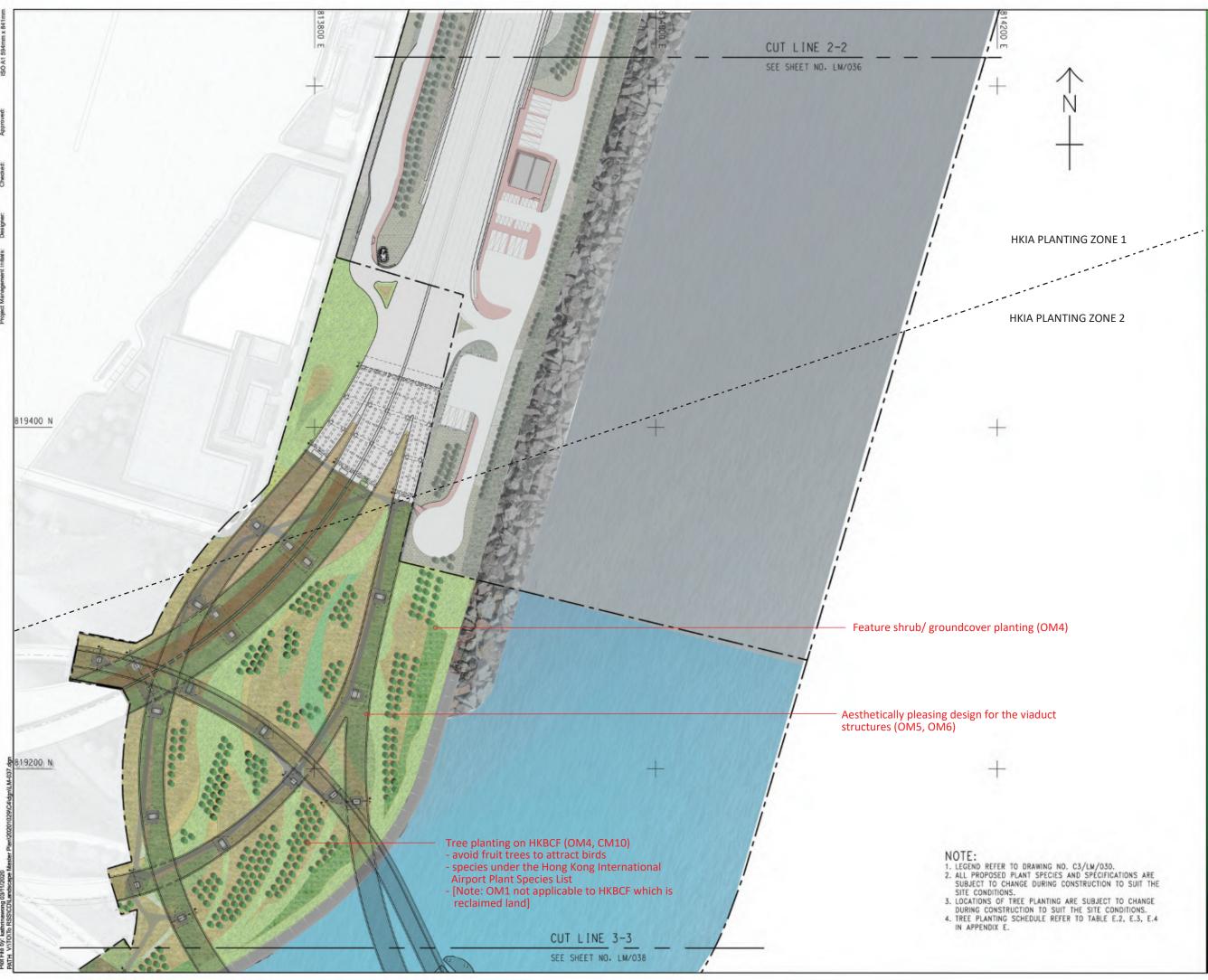
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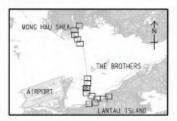
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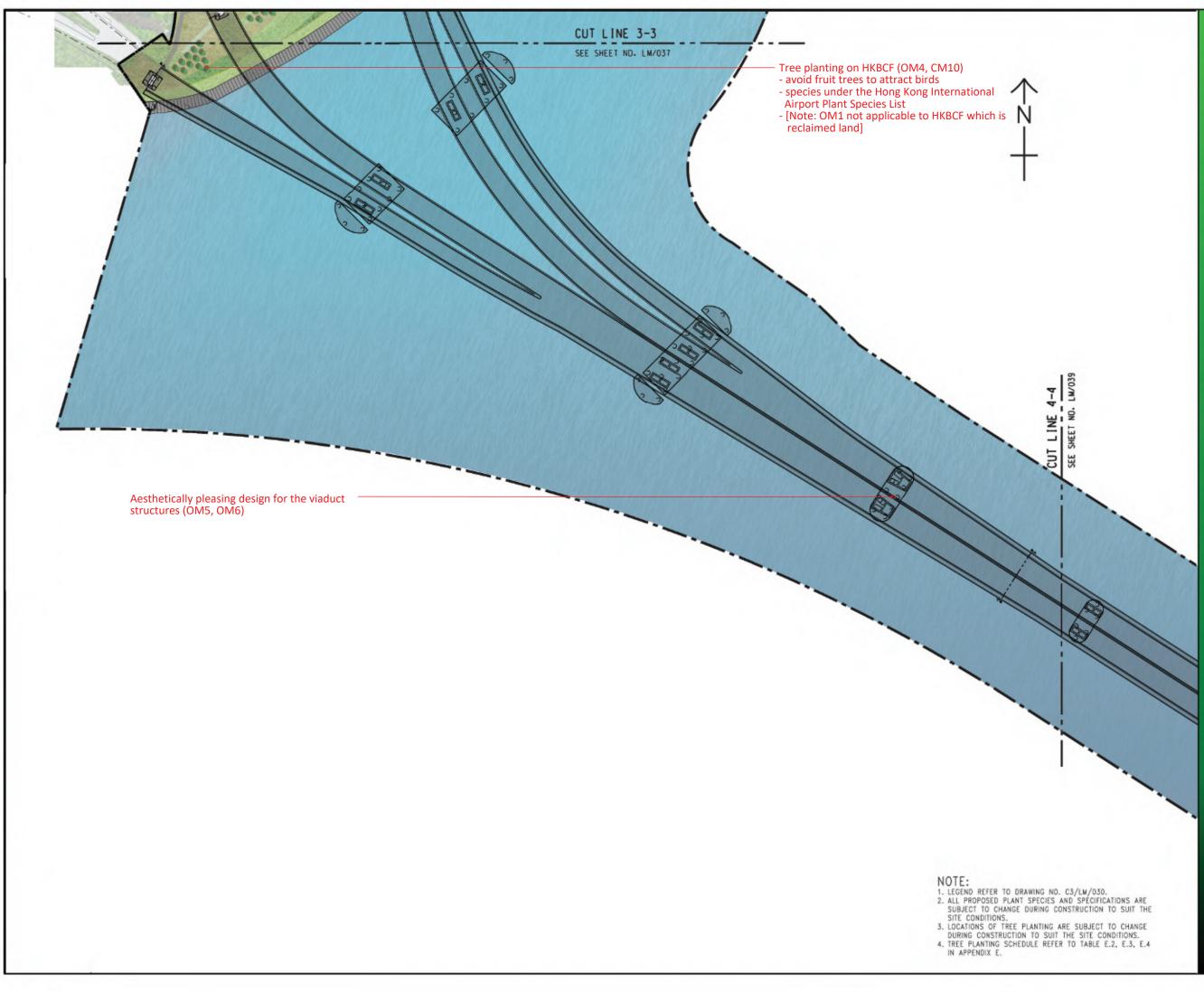
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App 表 表 HIGHWAYS DEPARTMENT 主 王 北管 田虚(本貴事港) Major Works Project Management Office (Special Duffes)

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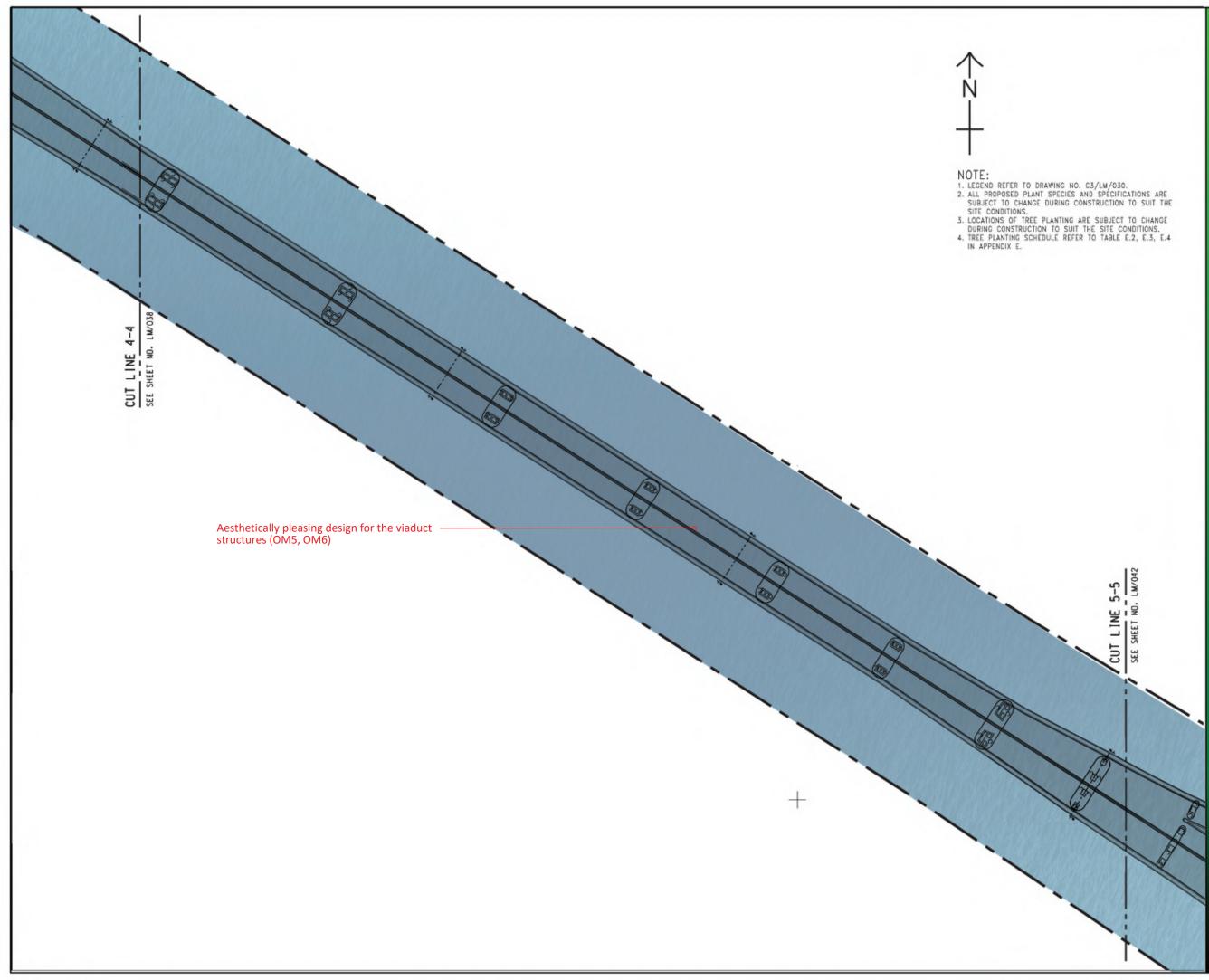
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SHEET 9 OF 15





TUEN MUN -CHEK LAP KOK LINK

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

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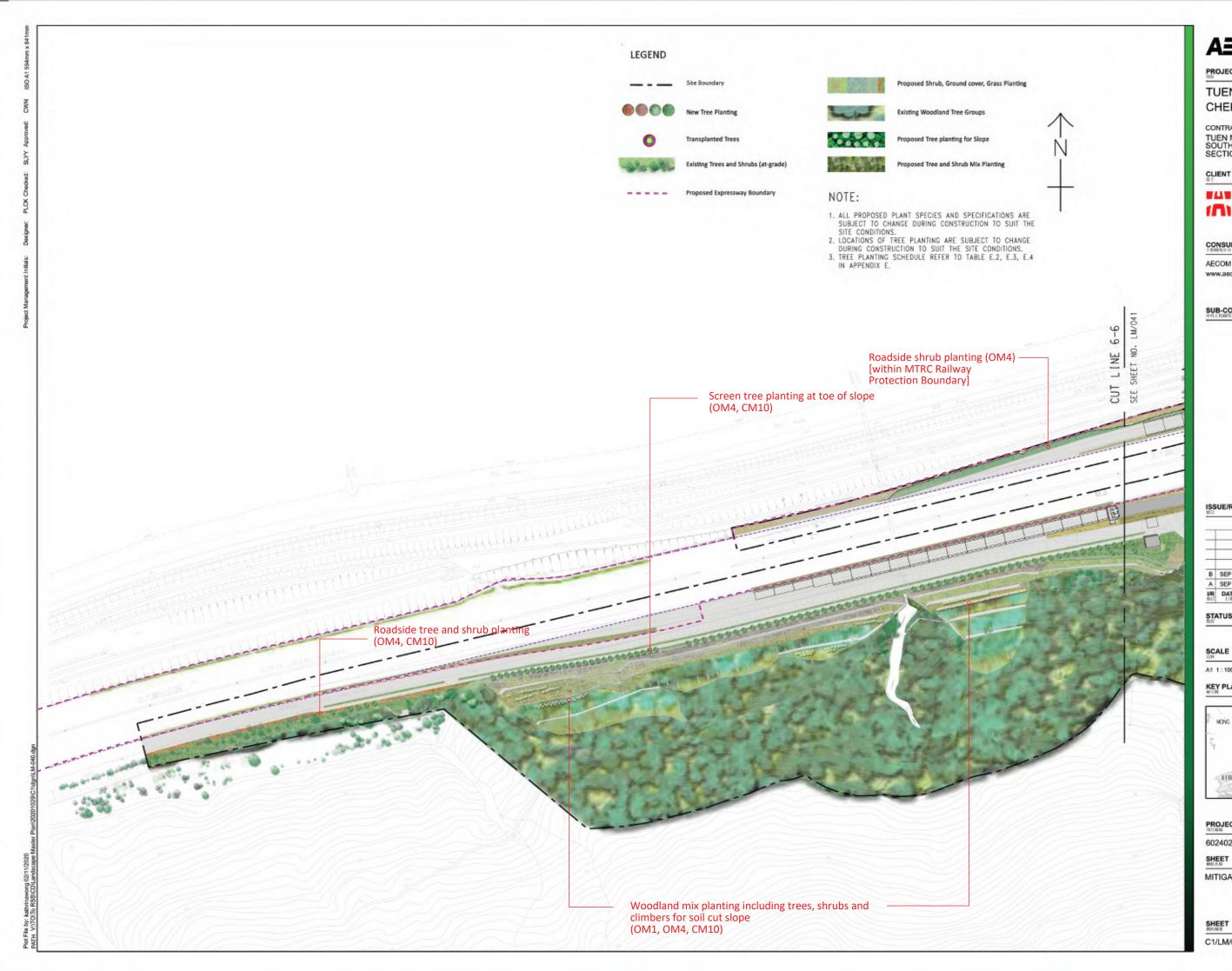
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TUEN MUN -CHEK LAP KOK LINK

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

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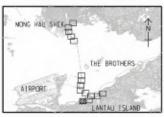
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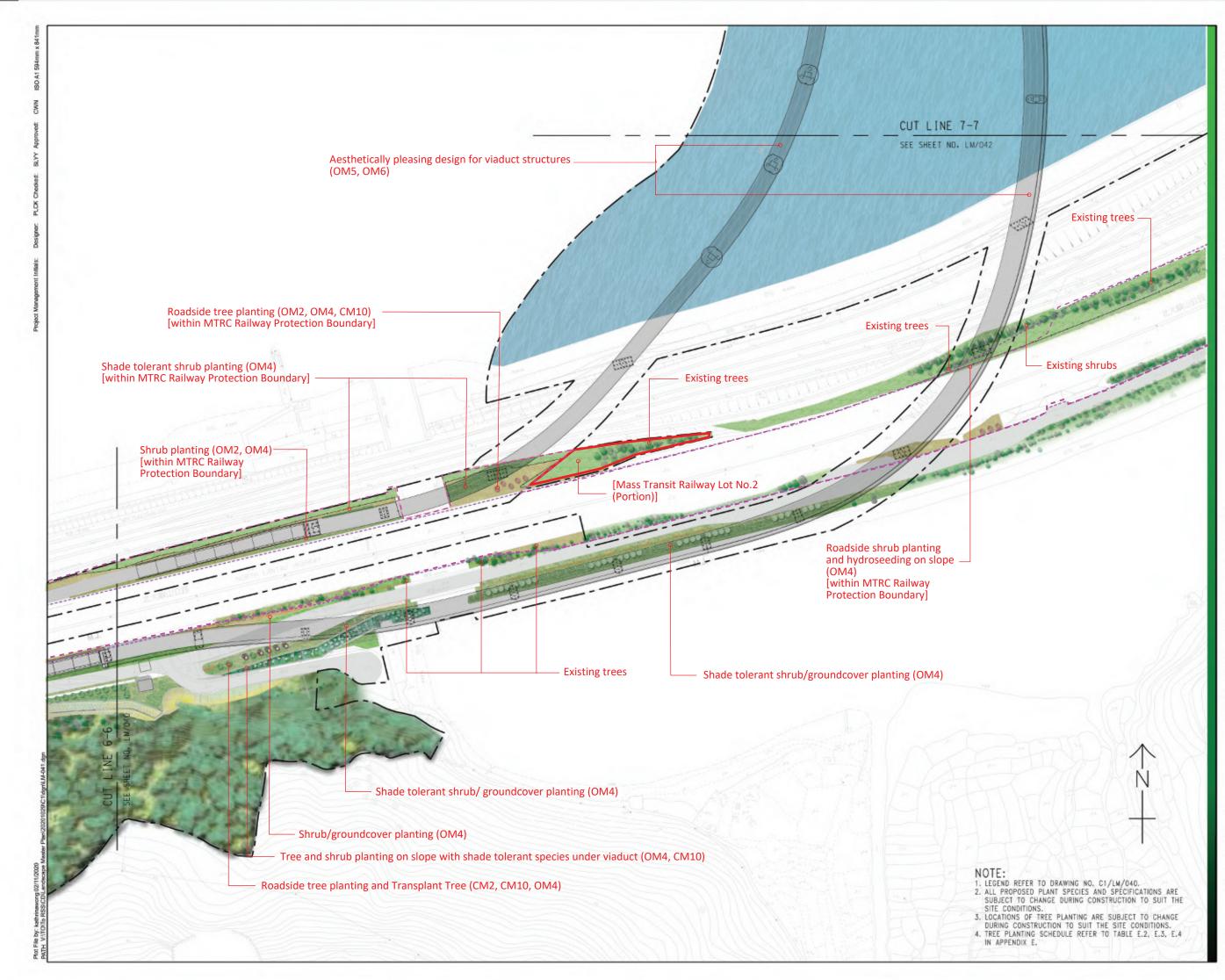
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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE SOUTHERN CONNECTION VIADUCT SECTION

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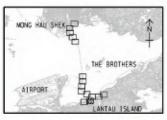
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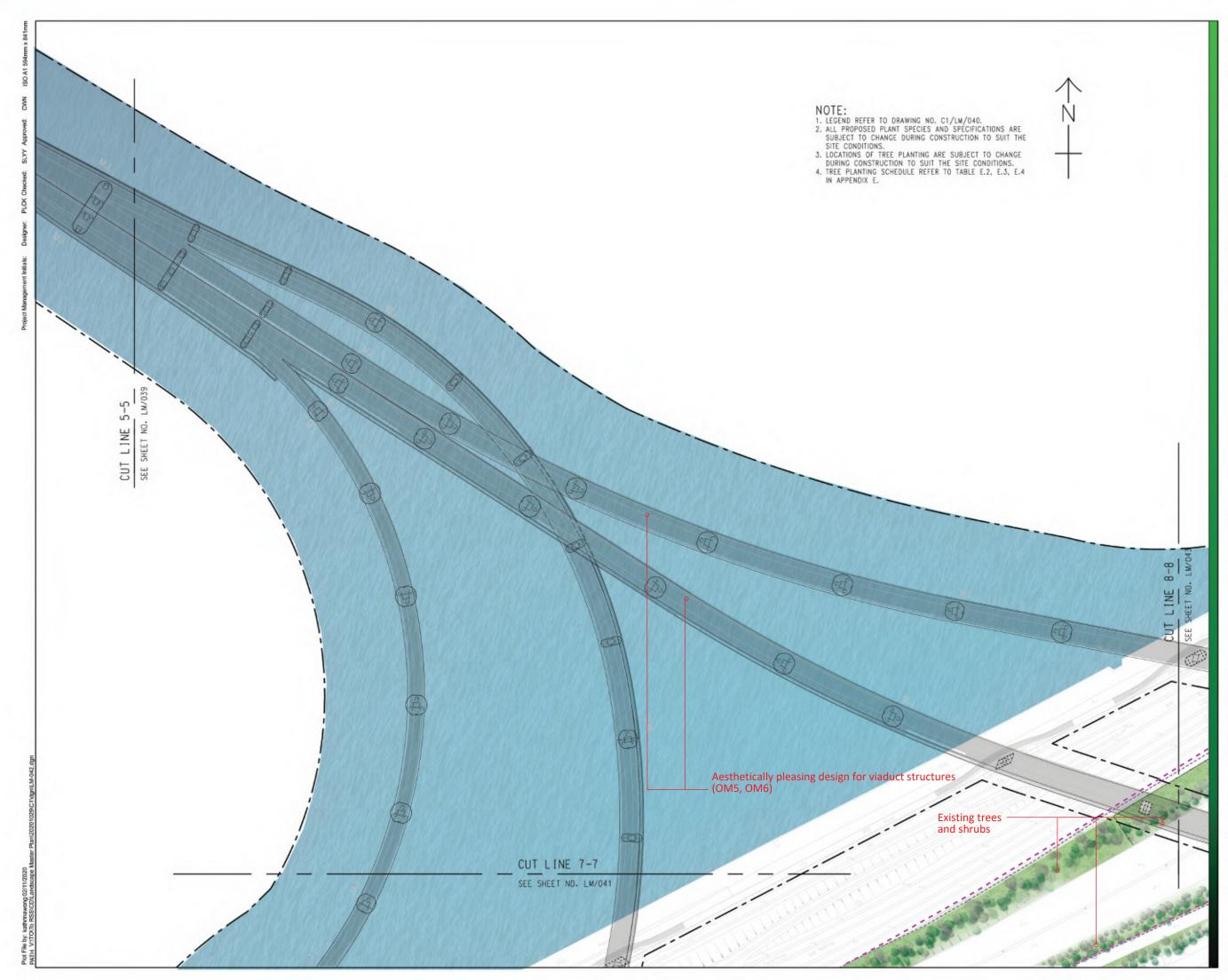
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TUEN MUN -CHEK LAP KOK LINK

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

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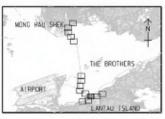
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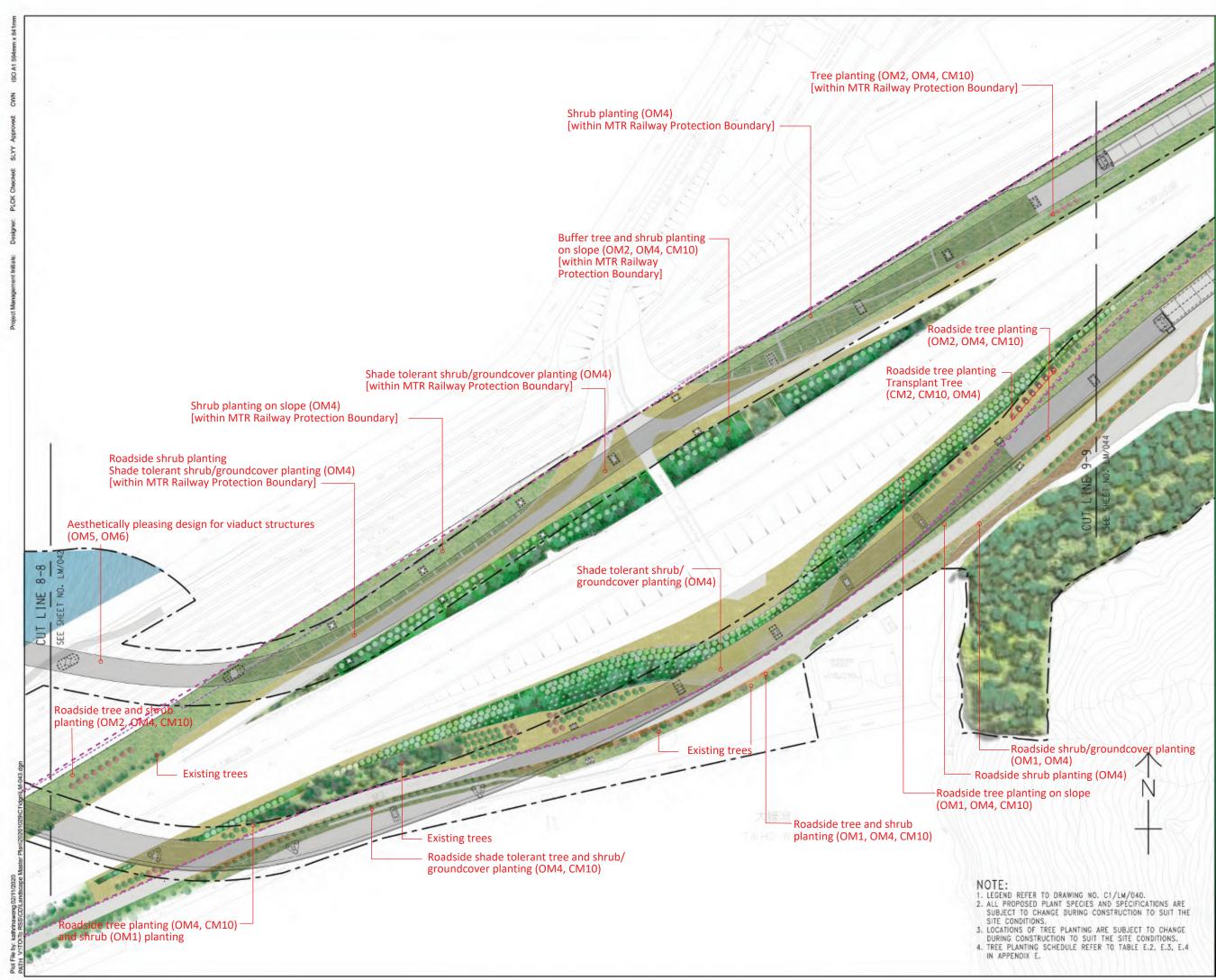
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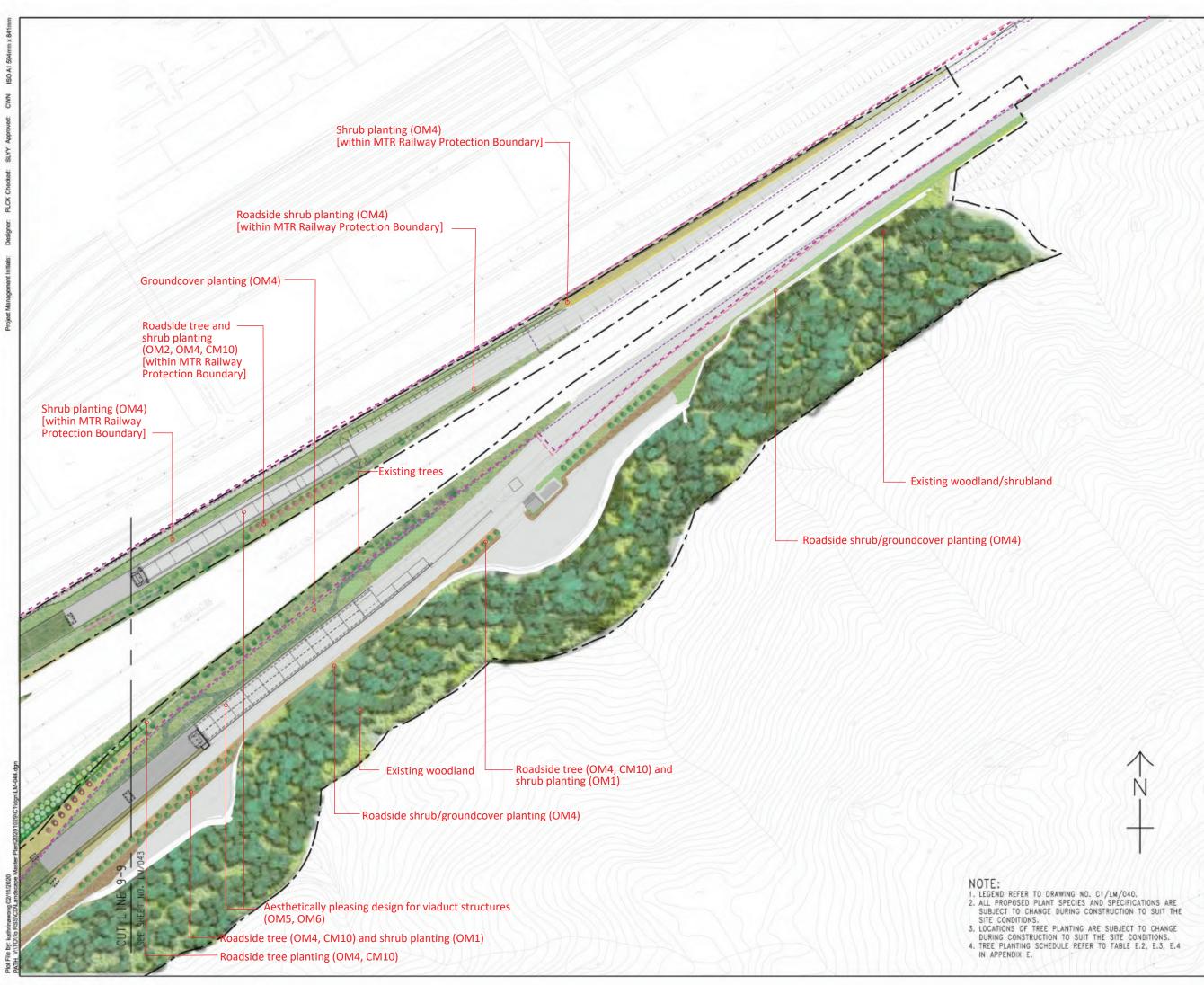
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TUEN MUN -CHEK LAP KOK LINK

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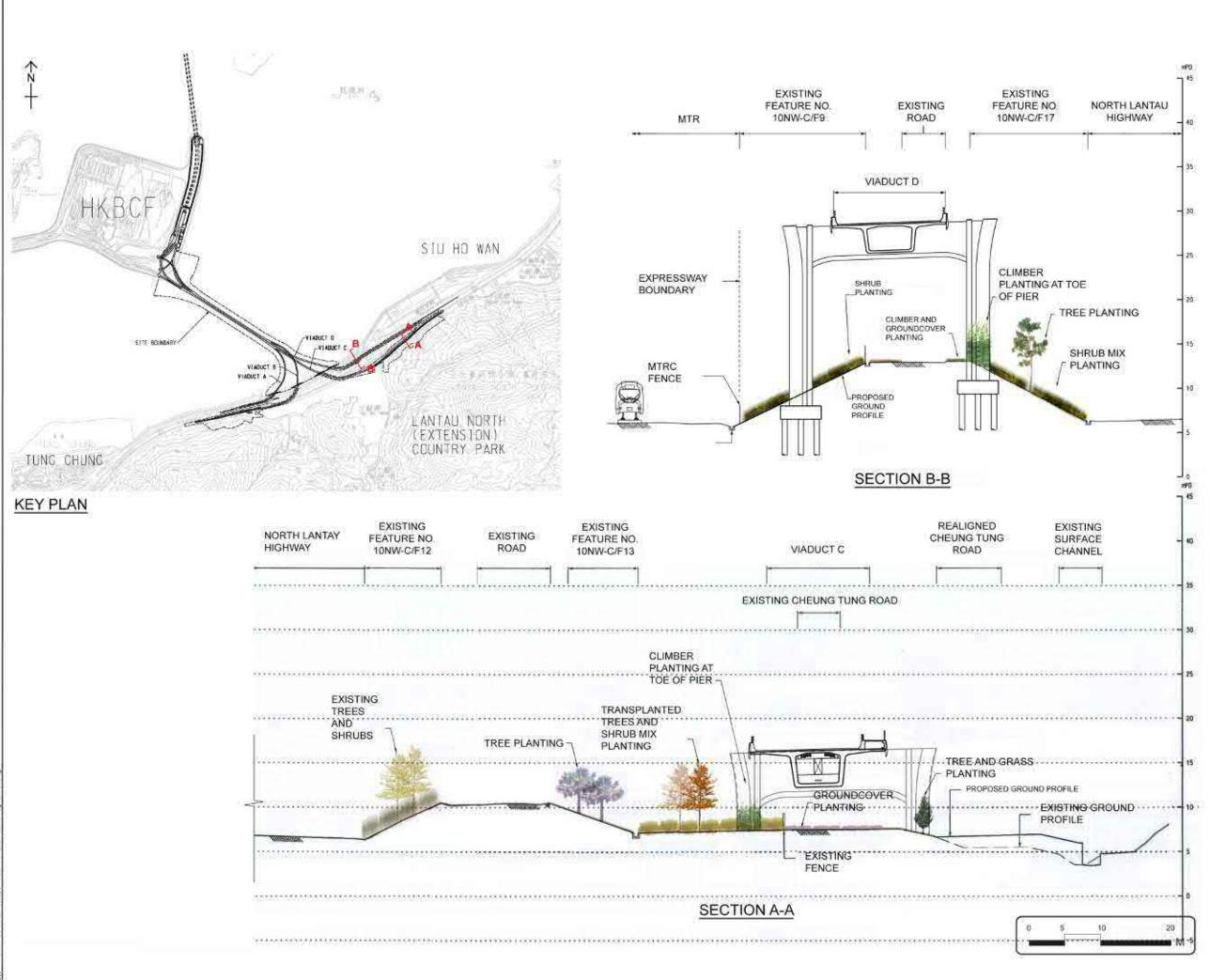
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TUEN MUN -CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

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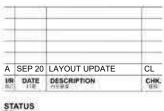


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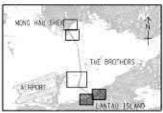
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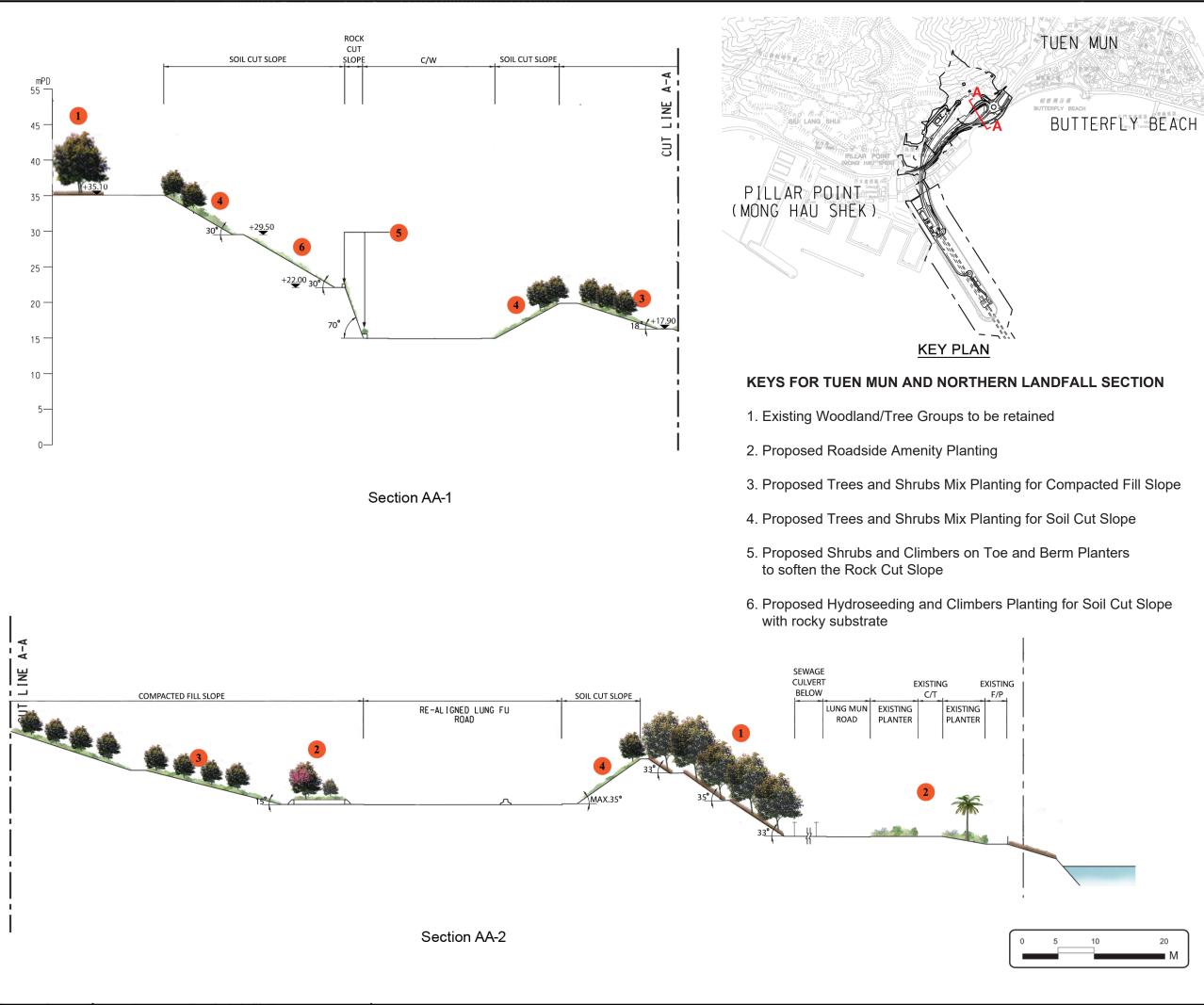
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60240249 SHEET TITLE

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TUEN MUN -CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

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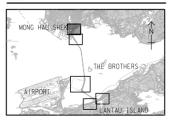
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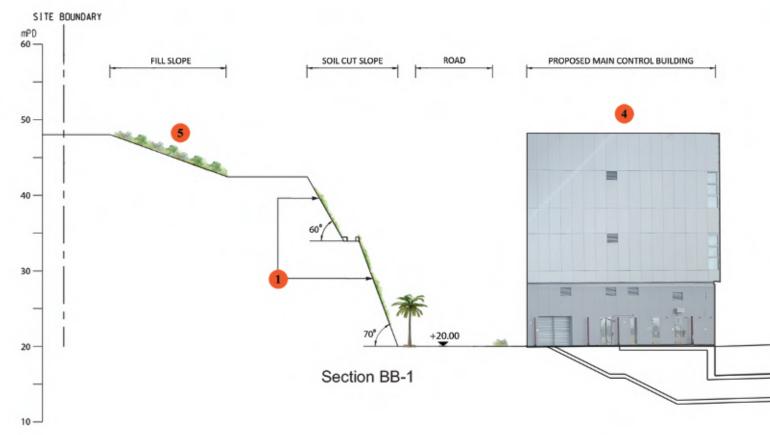
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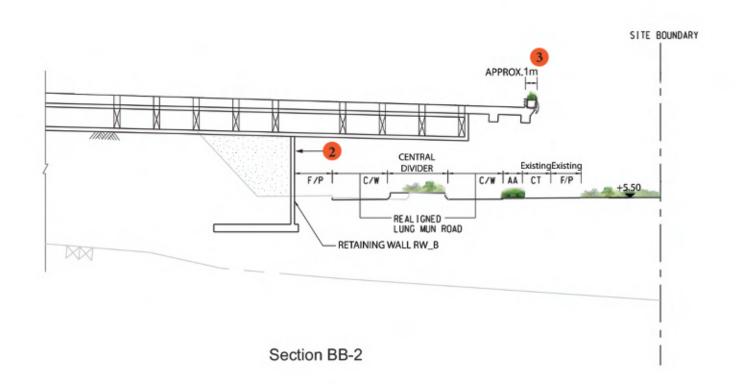
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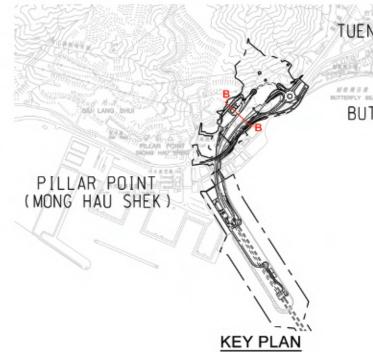
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KEYS FOR TUEN MUN AND NORTHERN LANDFALL SECTION

- 1. Proposed Shrubs and Climbers on Berm Planters to soften the Rock Cut Slope. Proposed trees and shrubs for toe planter.
- 2. Proposed Graphic Design on VE Panel at Retaining Wall RW_B
- 3. Proposed Parapet Planter with Shrub Planting to soften the hard edge of the concrete deck
- 4. Aesthetic Design for Main Control Building (Contract No. HY/2017/10)
- 5. Proposed Shrub Planting on Fill Slope

TUEN MUN

BUTTERFLY BEACH

AECOM

PROJECT

TUEN MUN -CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

CLIENT



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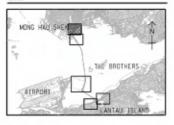
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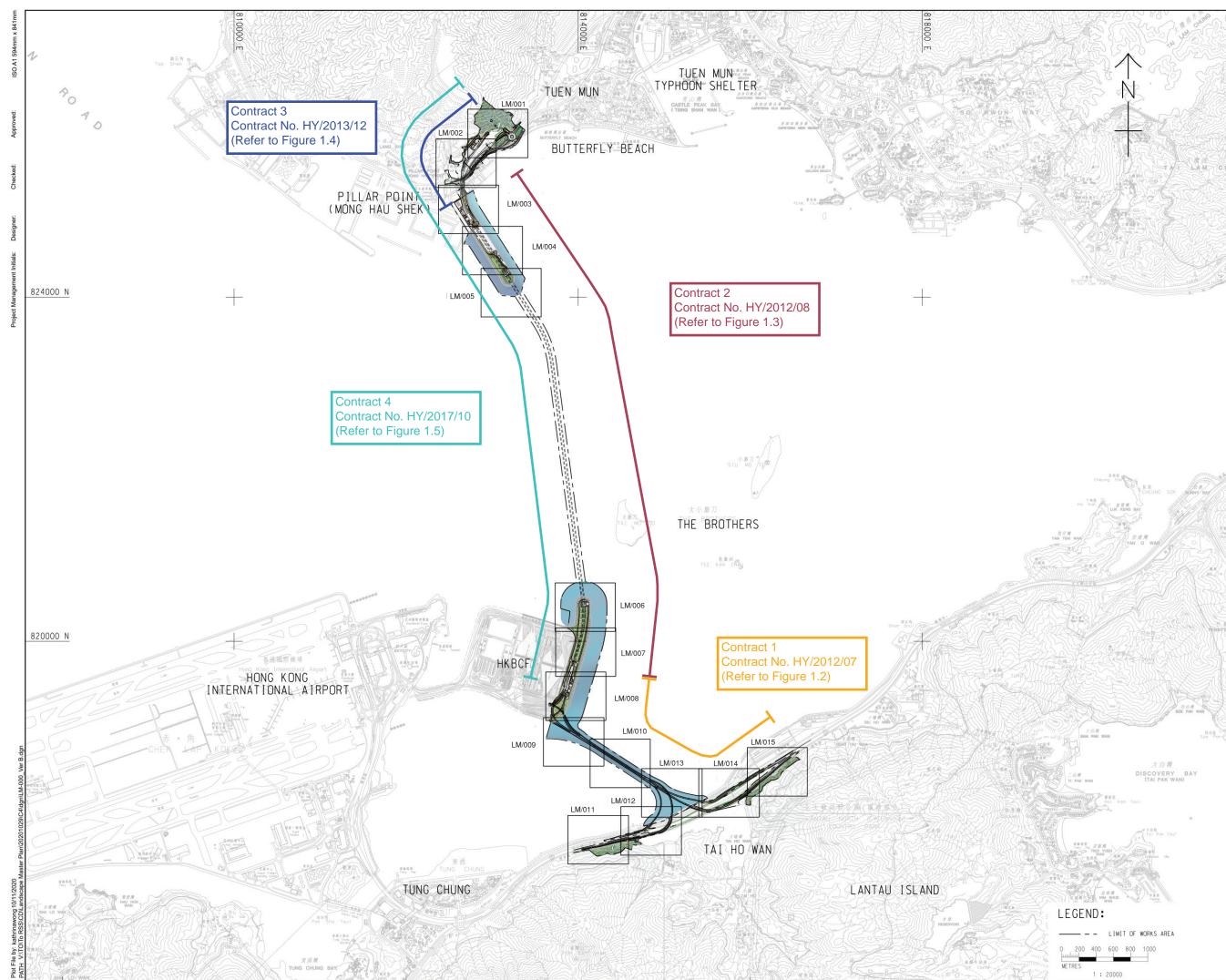
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Appendix D

Proposed Compensatory Planting Areas





TUEN MUN -CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

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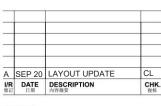
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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE TUEN MUN - CHEK LAP KOK LINK -NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

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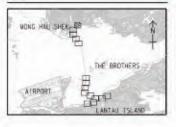
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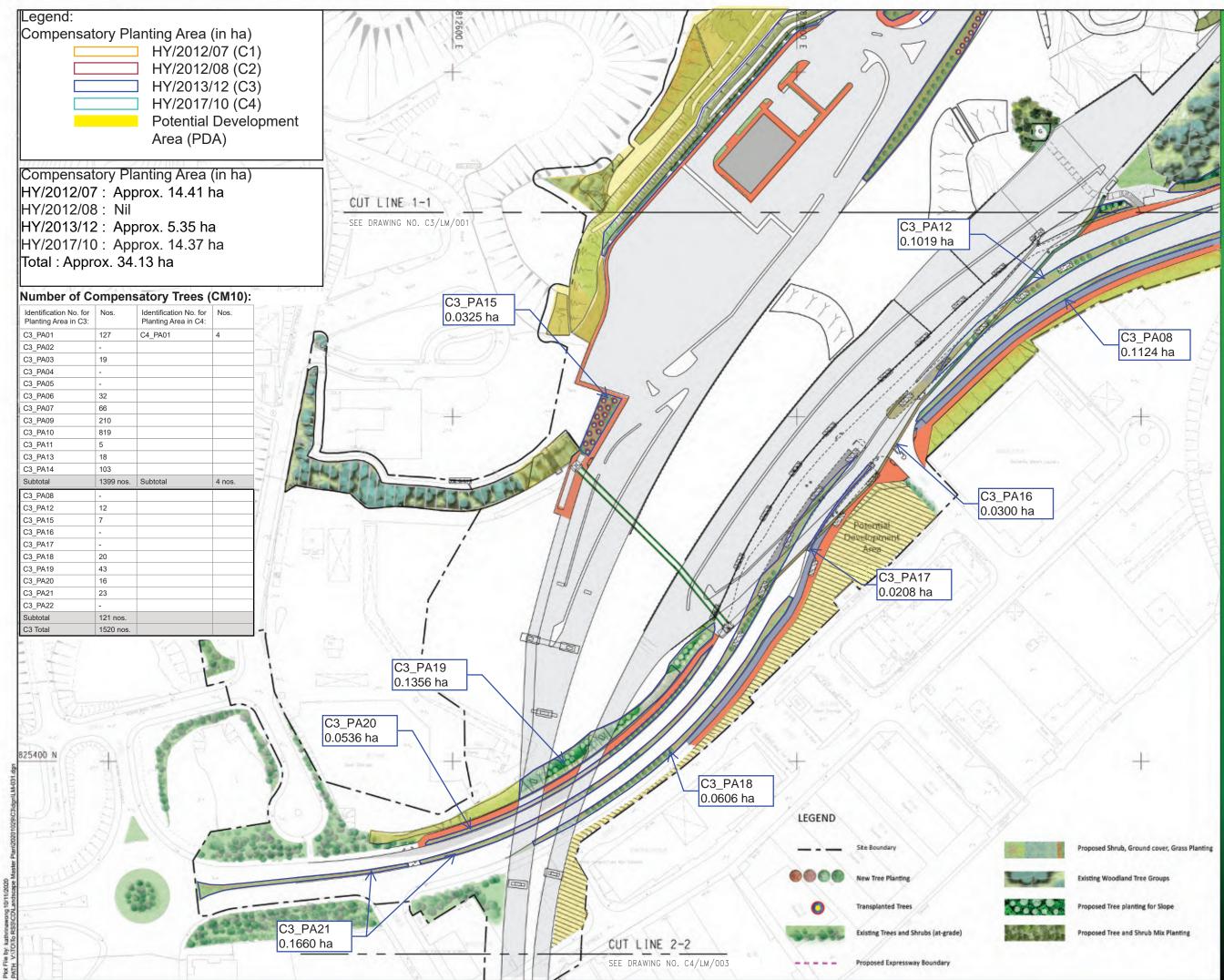
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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK -NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

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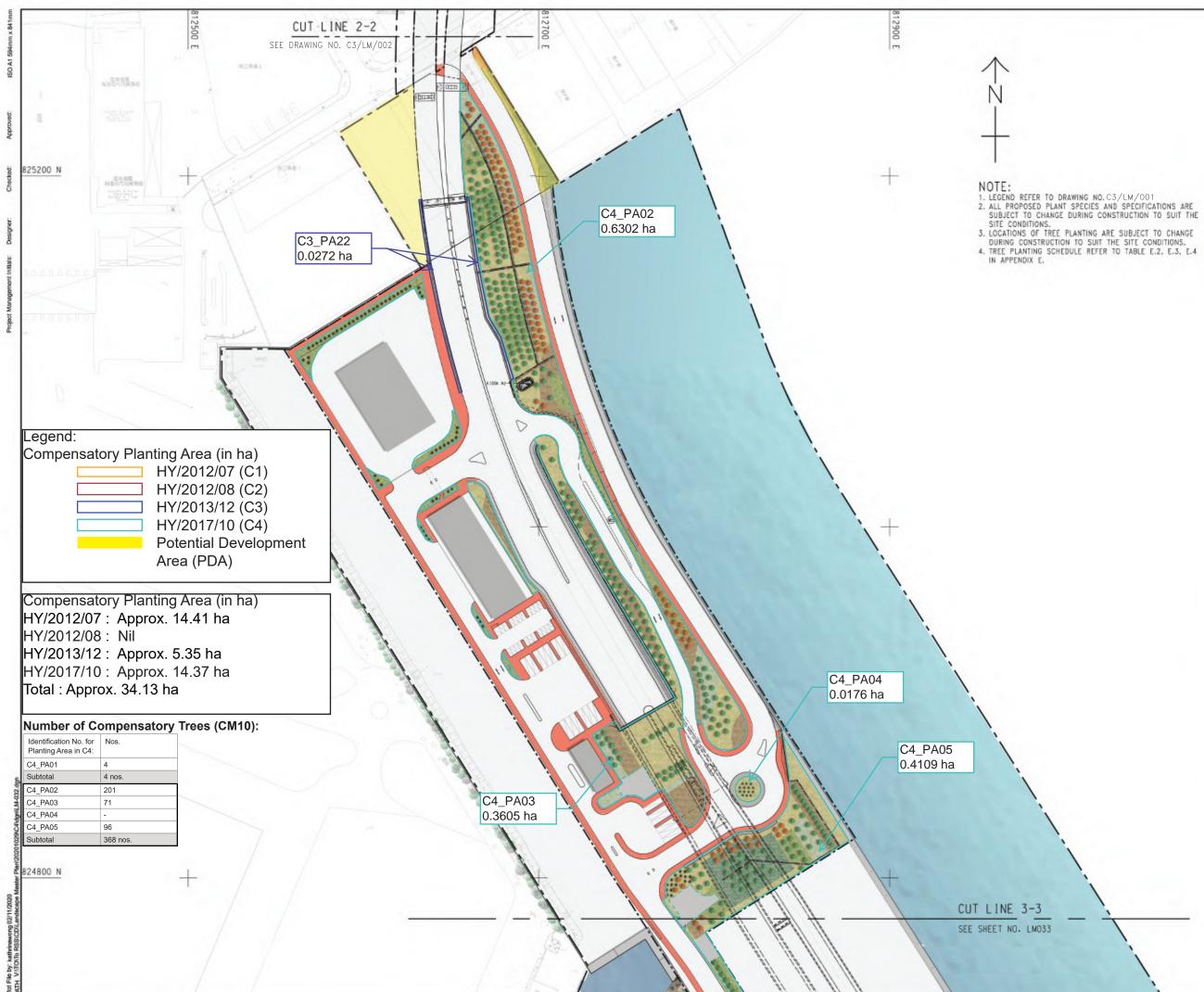
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DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS. 4. TREE PLANTING SCHEDULE REFER TO TABLE E.2, E.3, E.4



PROJECT

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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

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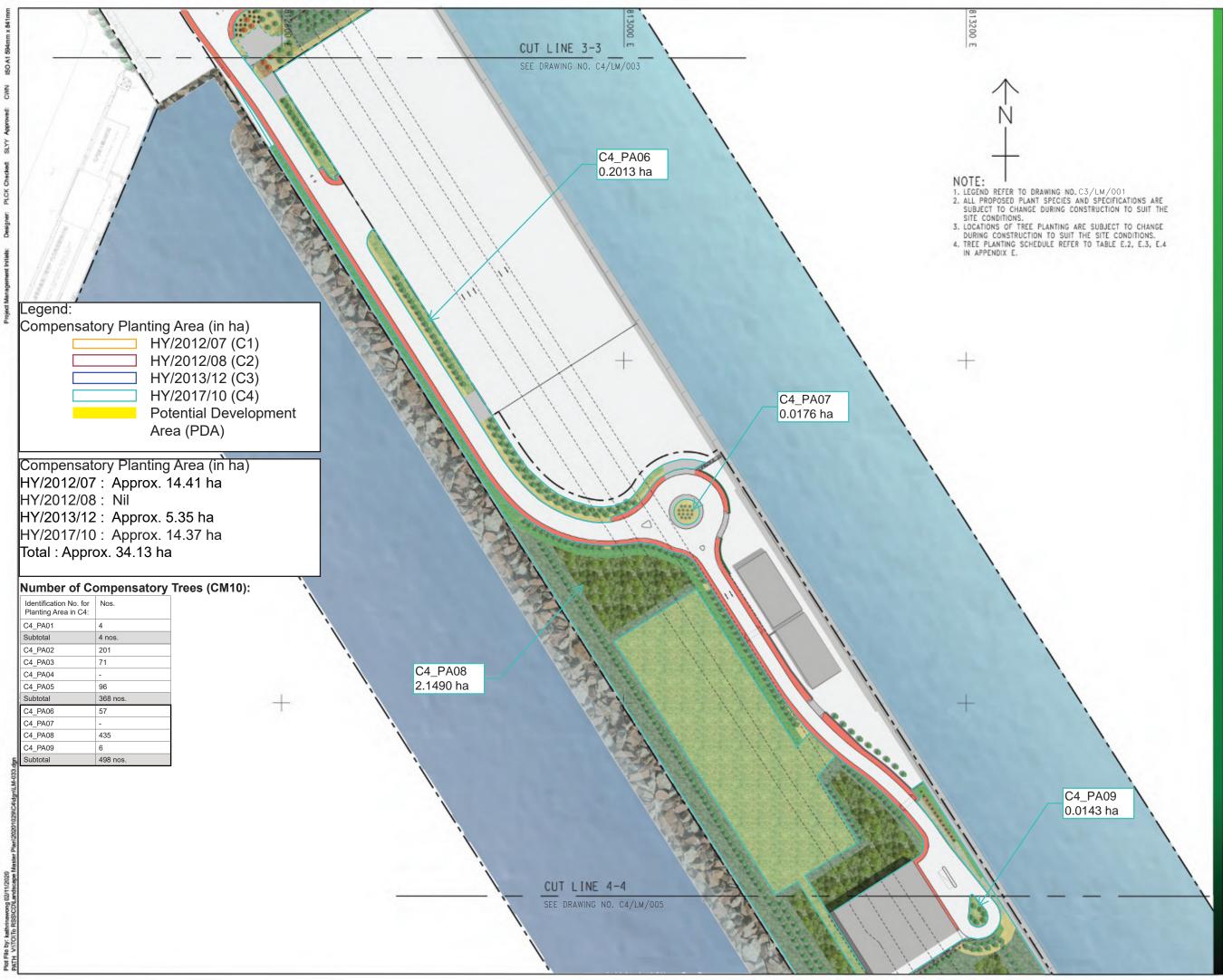
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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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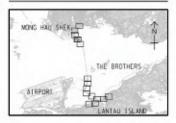
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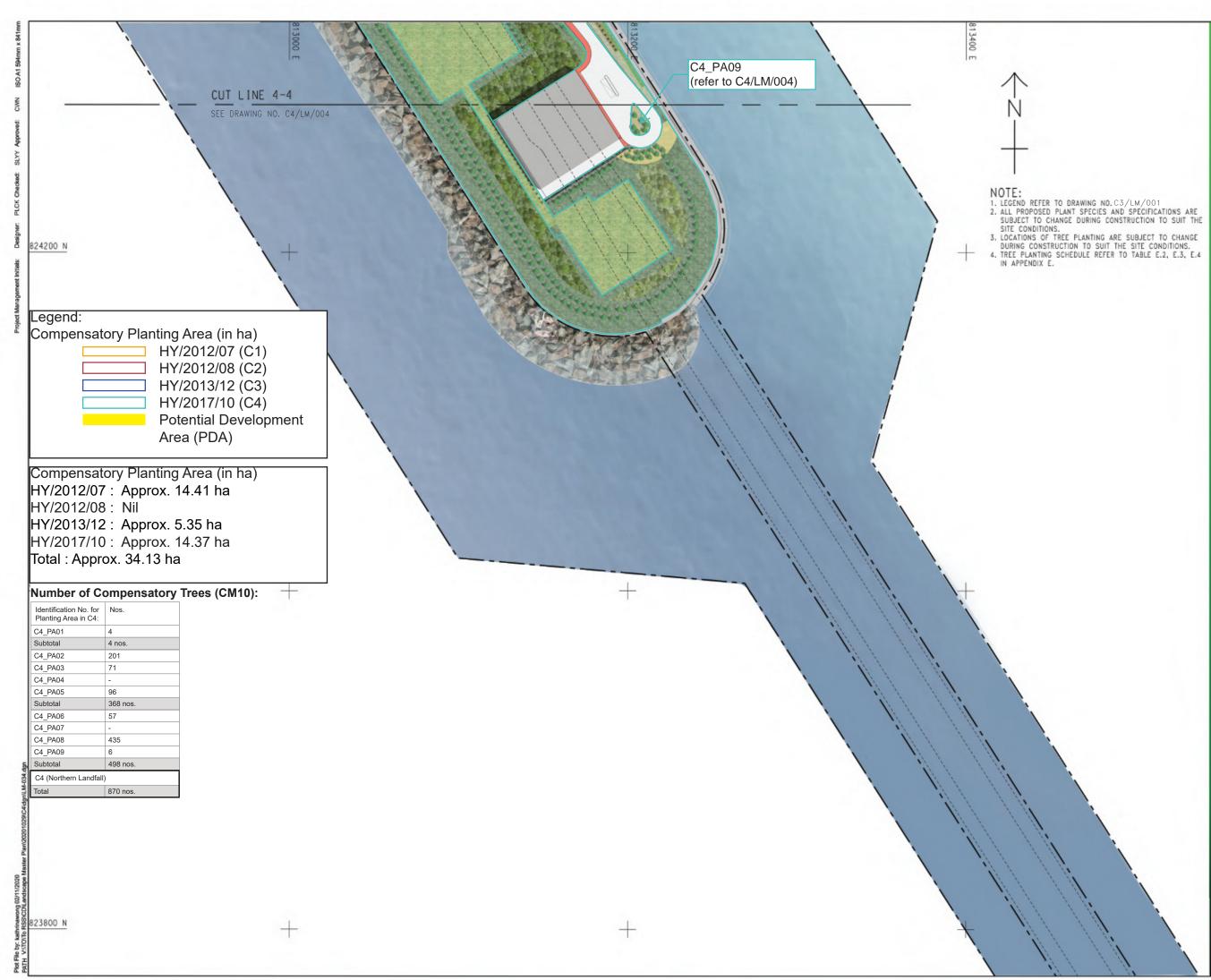
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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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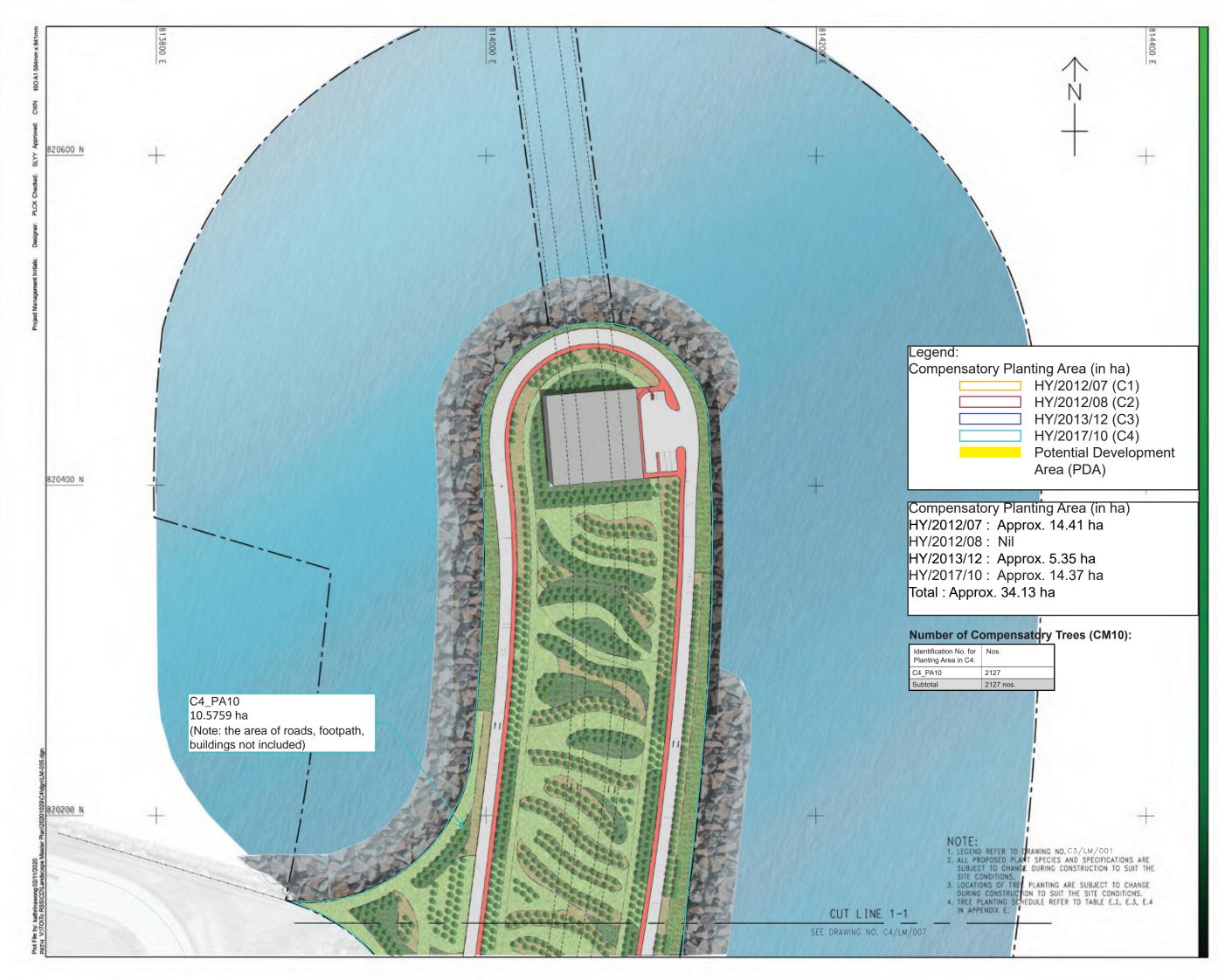
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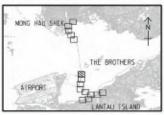
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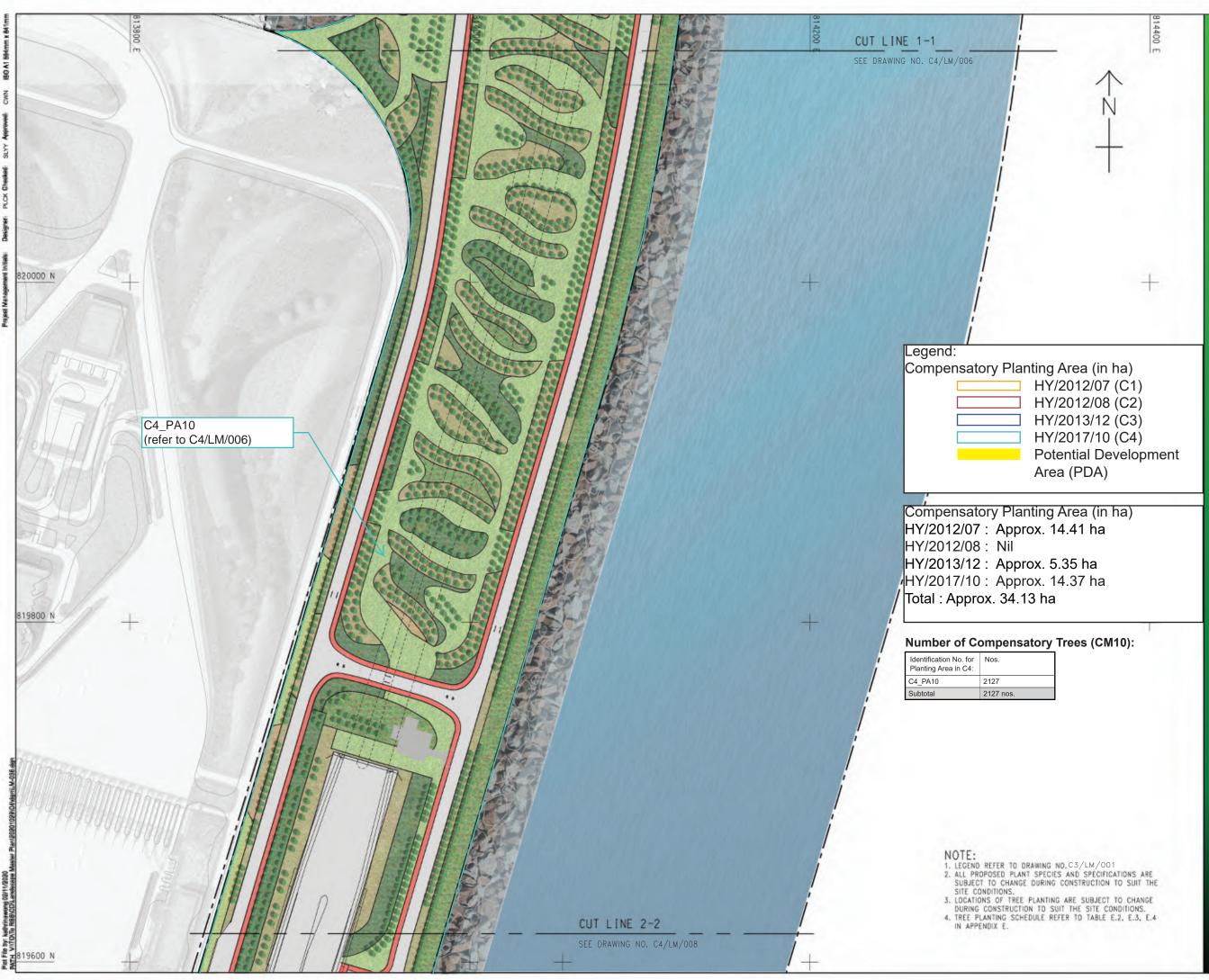
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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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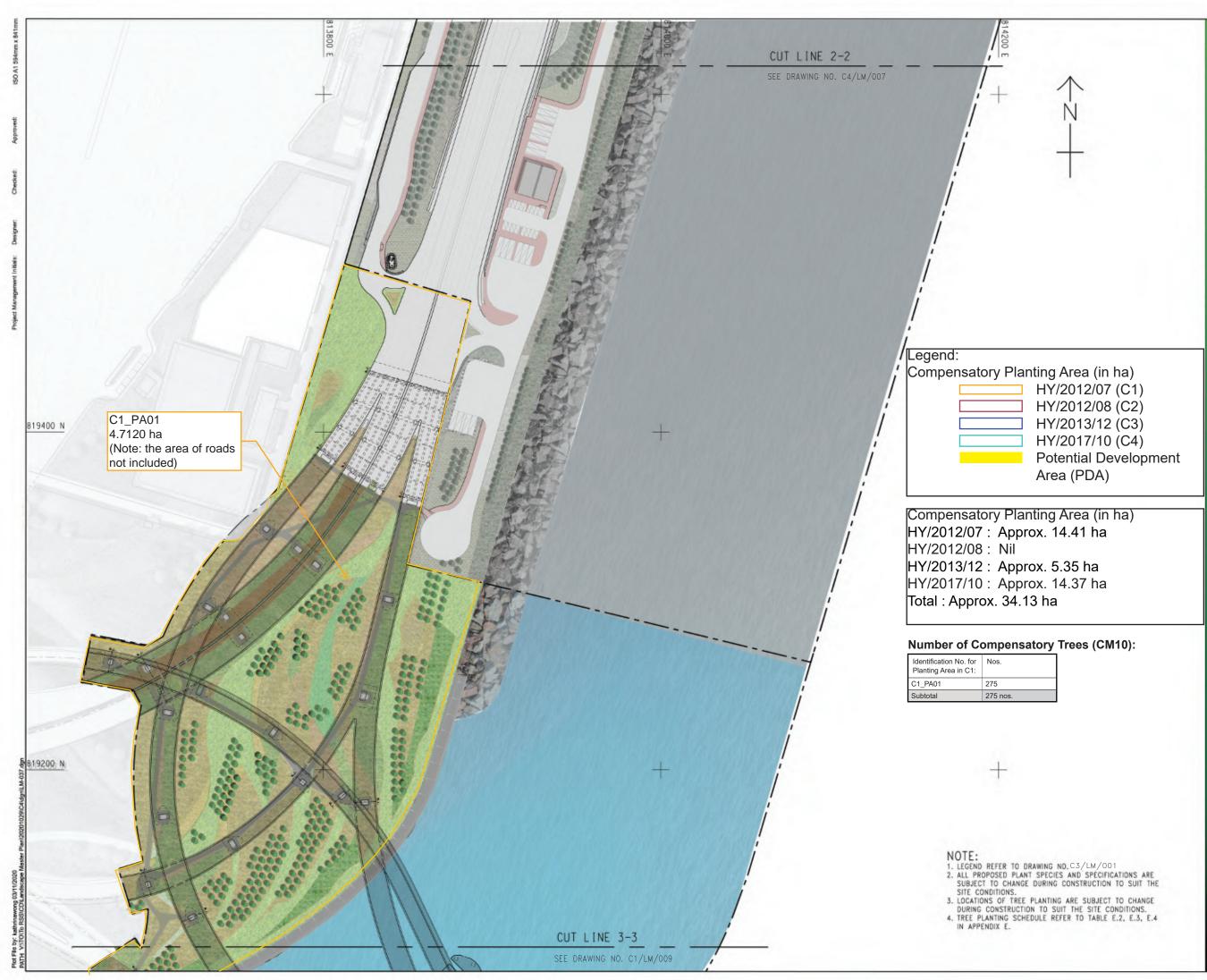
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TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

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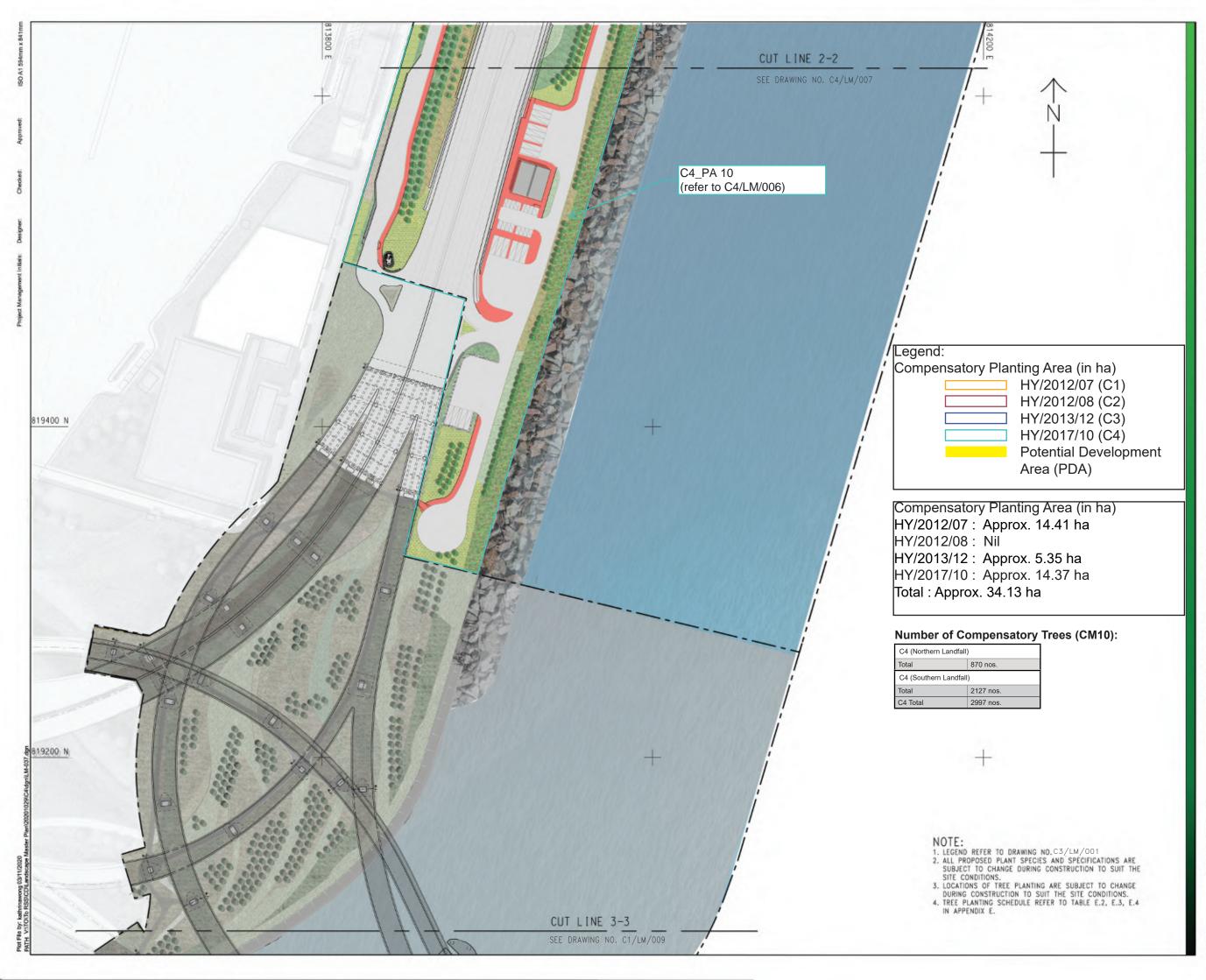
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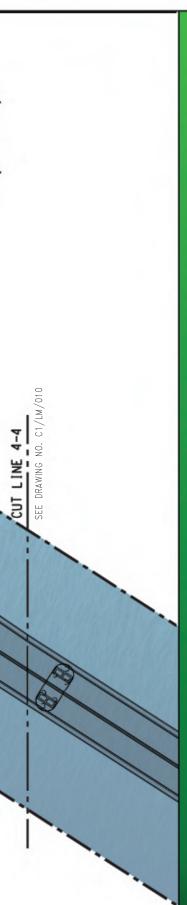
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Legend: Compensatory Planting Area (in ha) HY/2012/07 (C1) HY/2012/08 (C2) HY/2013/12 (C3) HY/2017/10 (C4) Potential Development		
Compensatory Planting Area (PDA)Number of Compensatory Trees (CM10):		

Identification No. for Nos. Planting Area in C1: C1 PA01 275 Subtotal 275 nos.

NOTE:
LEGEND REFER TO DRAWING ND. C3/LM/001
ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
TREE PLANTING SCHEDULE REFER TO TABLE E.2, E.3, E.4 IN APPENDIX E.





PROJECT

TUEN MUN -CHEK LAP KOK LINK

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

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KEY PLAN



PROJECT NO.

CONTRACT NO.

60240249

HY/2012/07

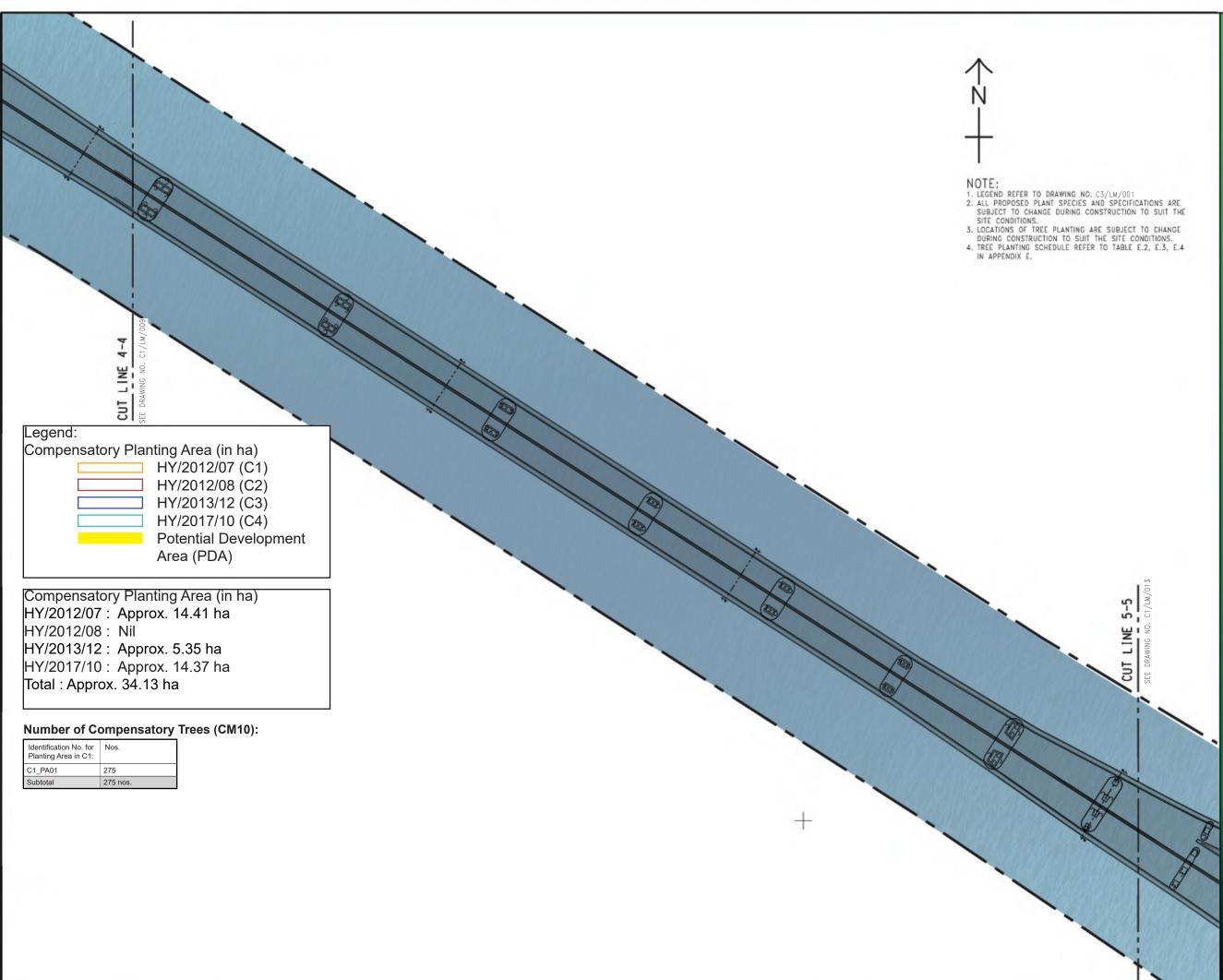
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C1/LM/009

SHEET 9 OF 15





TUEN MUN -CHEK LAP KOK LINK

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

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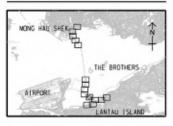
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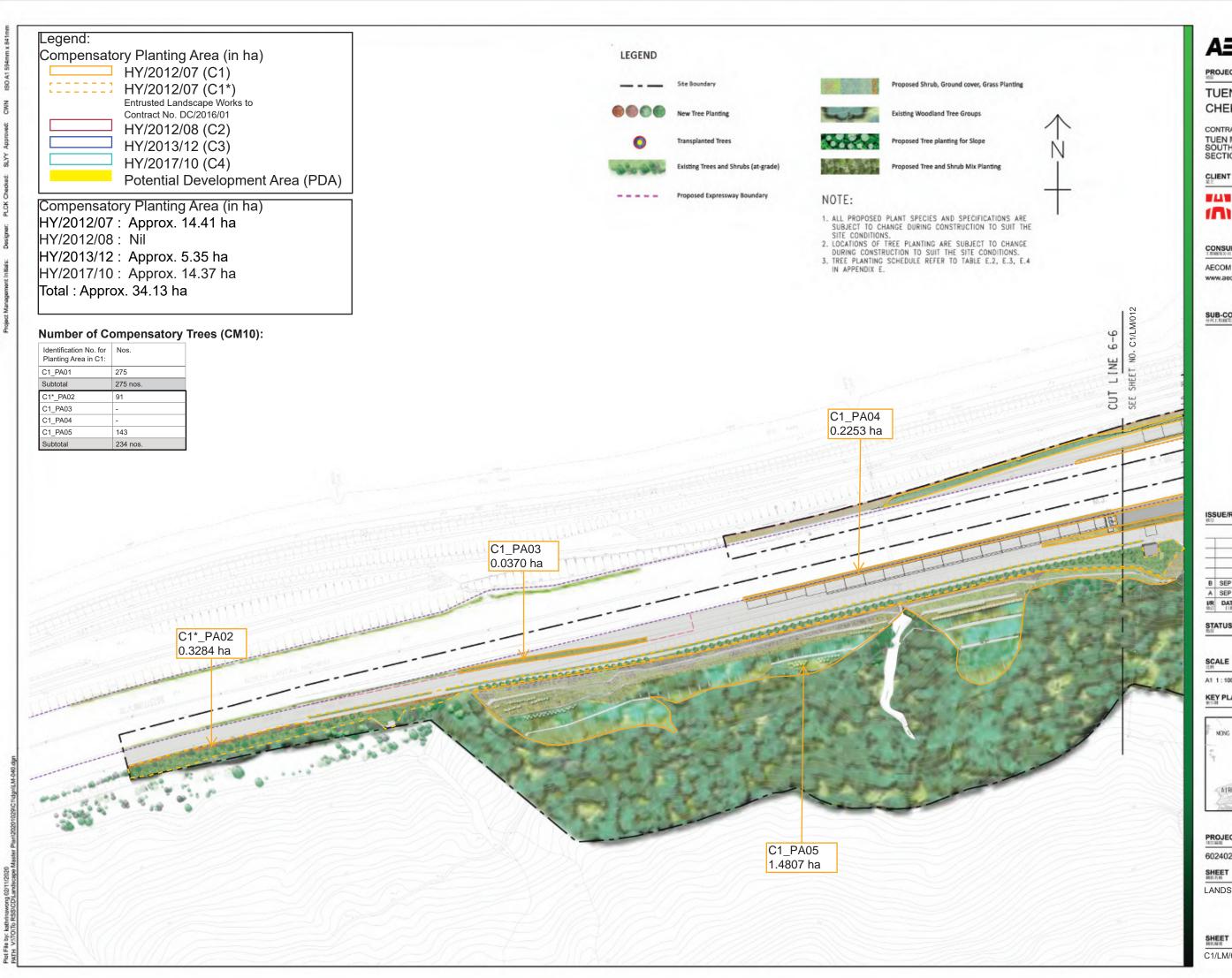
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TUEN MUN -CHEK LAP KOK LINK

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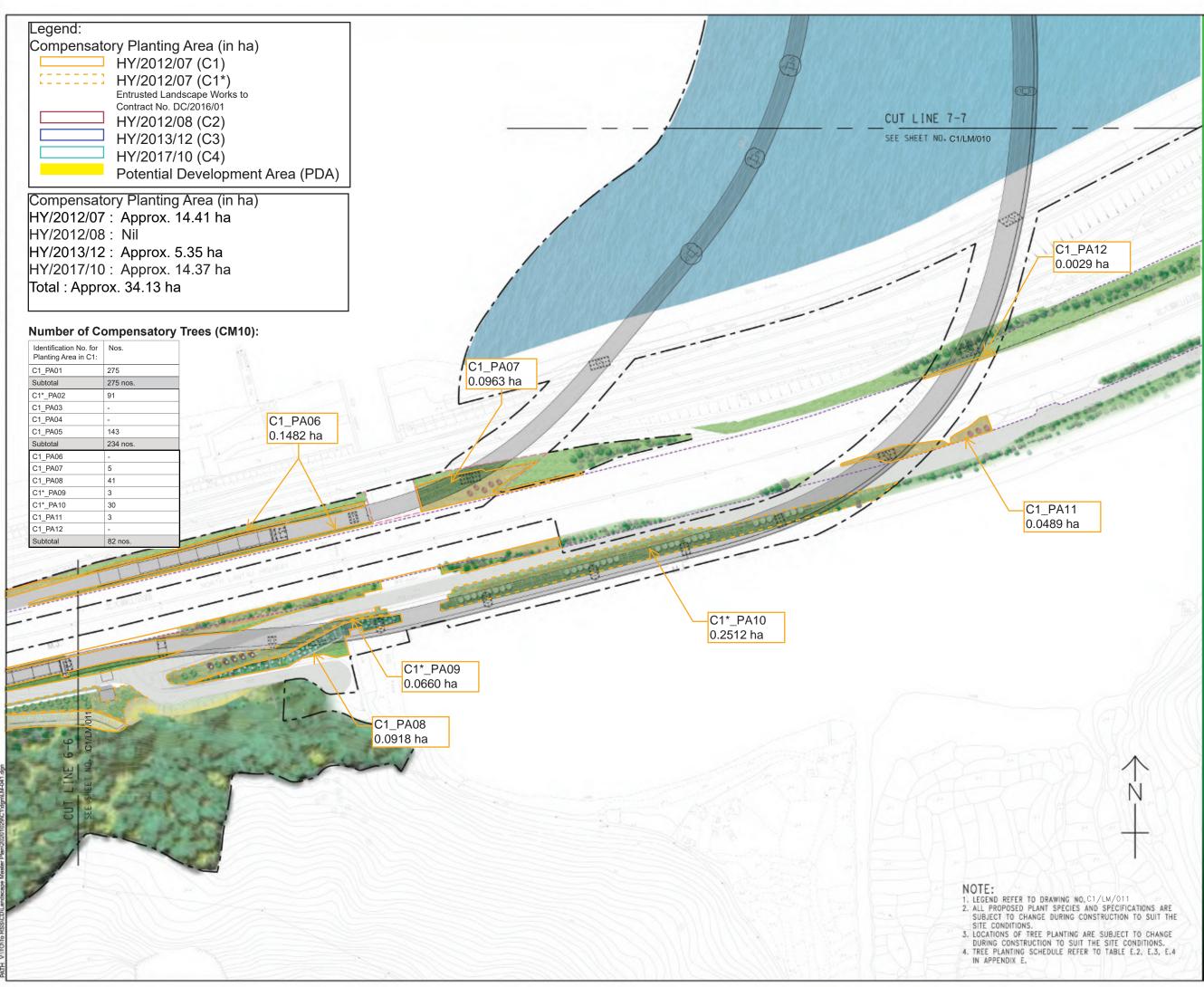
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SHEET 11 OF 15





TUEN MUN -CHEK LAP KOK LINK

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PROJECT NO.

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LANDSCAPE MASTER PLAN

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C1/LM/012

SHEET 12 OF 15

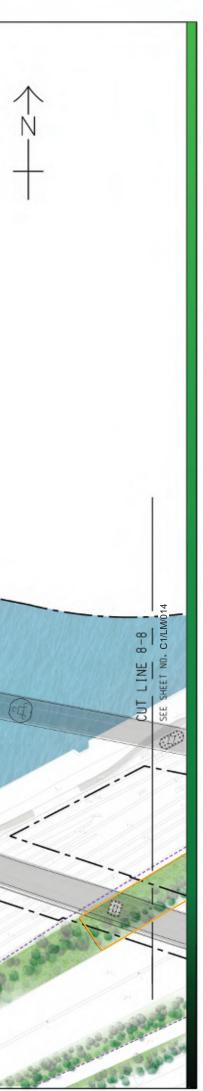
Compensatory Planting Area (in ha) HY/2012/07 : Approx. 14.41 ha HY/2012/08 : Nil HY/2013/12 : Approx. 5.35 ha HY/2017/10 : Approx. 14.37 ha Total : Approx. 34.13 ha

Number of Compensatory Trees (CM10):

Trainities of or o	, inponoutory	
Identification No. for Planting Area in C1:	Nos.	
C1_PA01	275	
Subtotal	275 nos.	
C1*_PA02	91	
C1_PA03	-	
C1_PA04	-	
C1_PA05	143	•
Subtotal	234 nos.	
C1_PA06	-	
C1_PA07	5	
C1_PA08	41	
C1*_PA09	3	
C1*_PA10	30	
C1_PA11	3	
C1_PA12	-	
Subtotal	82 nos.	

CUT LINE 7-7 SEE SHEET C1/LM/012

- NOTE: 1. LEGEND REFER TO DRAWING NO. C1/LM/011 2. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS. 3. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS. 4. TREE PLANTING SCHEDULE REFER TO TABLE E.2, E.3, E.4 IN APPENDIX E.
- IN APPENDIX E.



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PROJECT

TUEN MUN -CHEK LAP KOK LINK

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

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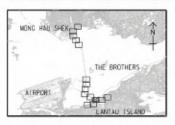
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PROJECT NO.

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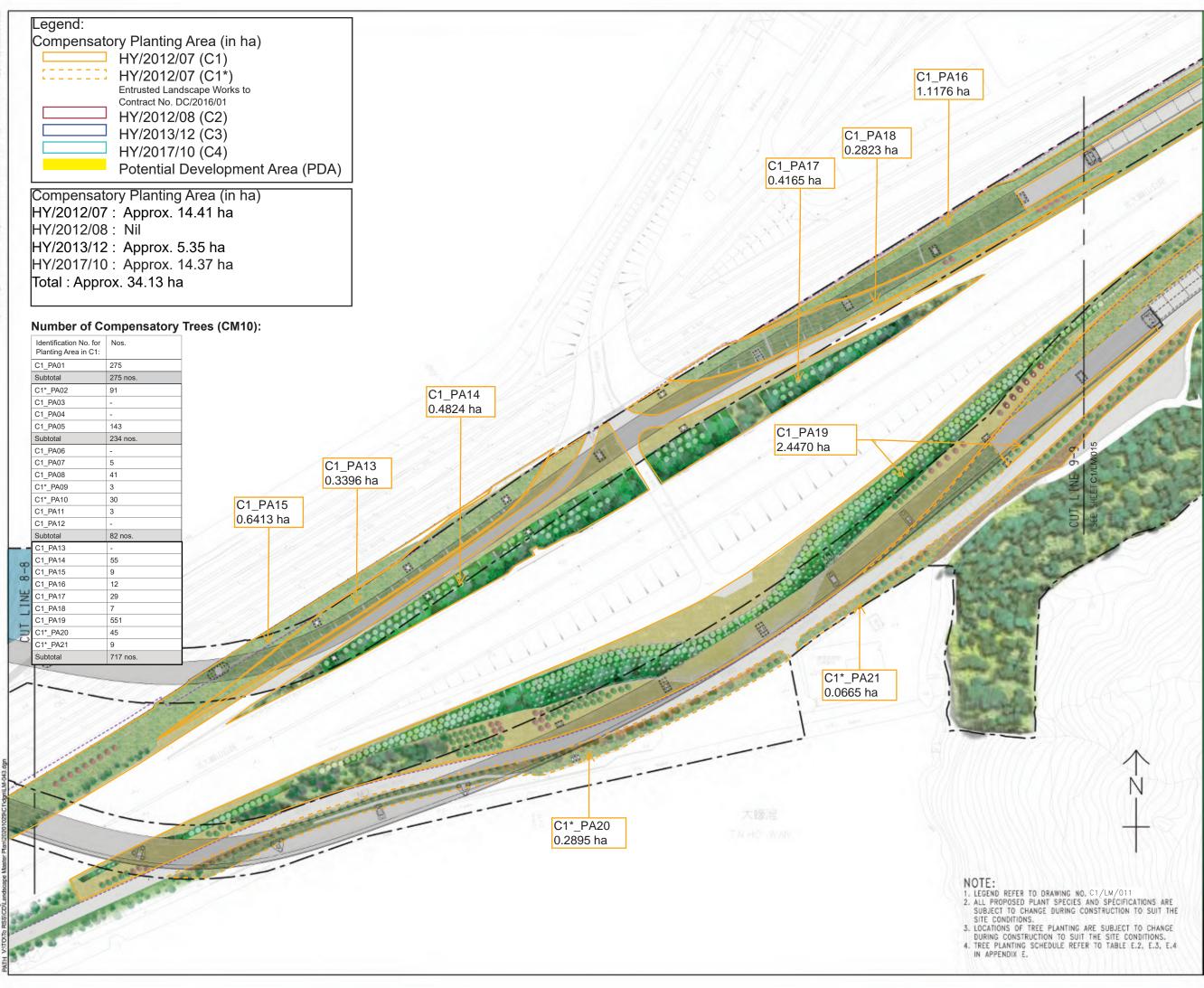
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LANDSCAPE MASTER PLAN

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C1/LM/013

SHEET 13 OF 15





TUEN MUN -CHEK LAP KOK LINK

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

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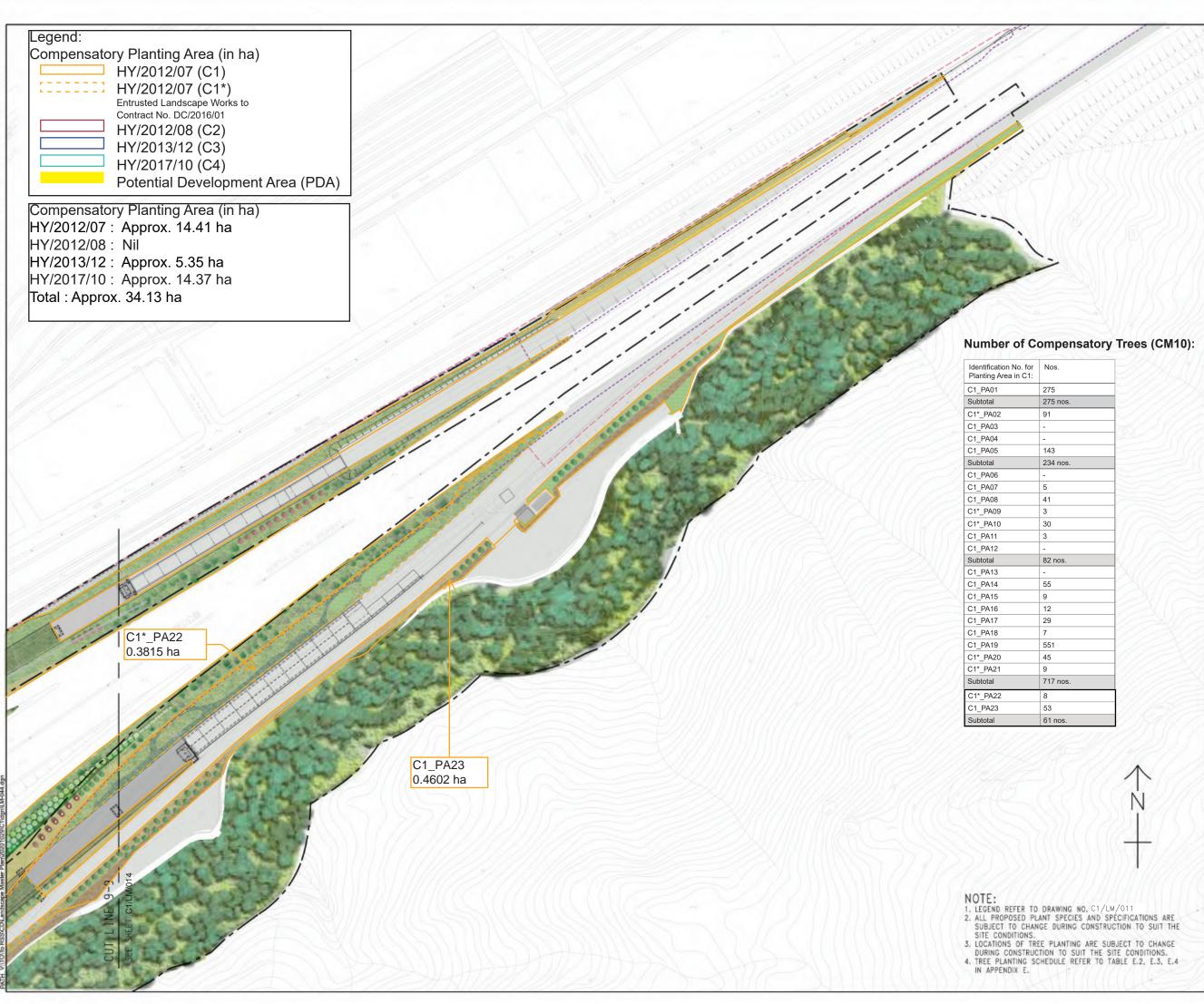
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SHEET 14 OF 15



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275 nos.	1////
91	1111
-	21/1/
-	-10
143	
234 nos.	
-	200
5	Sal
41	
3	1000
30	1/20
3	111
-	11172
82 nos.	VIIIA
-	XIIIA
55	24/10
9	2016
12	2211
29	1000
7	1100
551	11/2
45	11/12
9	11/1/
717 nos.	
8	111/1/
53	11/1000
61 nos.	119901



TUEN MUN -CHEK LAP KOK LINK

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

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離 政 著 HIGHWAYS DEPARTMENT 主 王 登 管 足 (年 貴 事 表) Major Works Project Management Office (Special Duffes)

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KEY PLAN



PROJECT NO.

CONTRACT NO.

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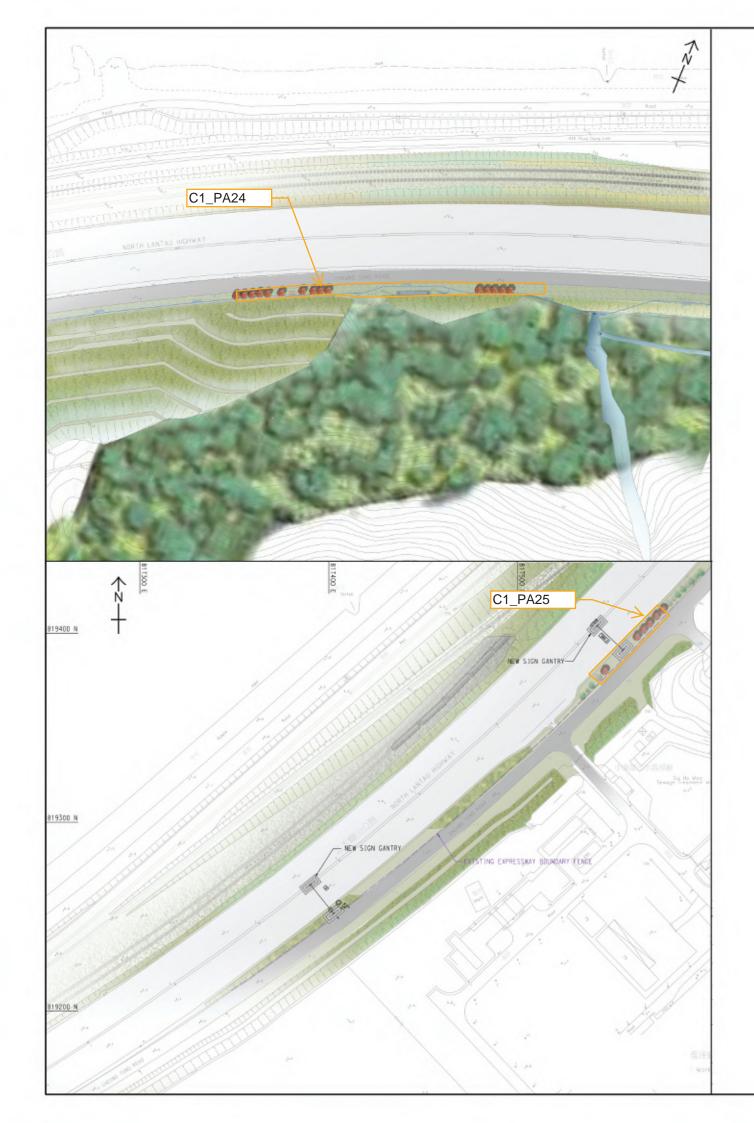
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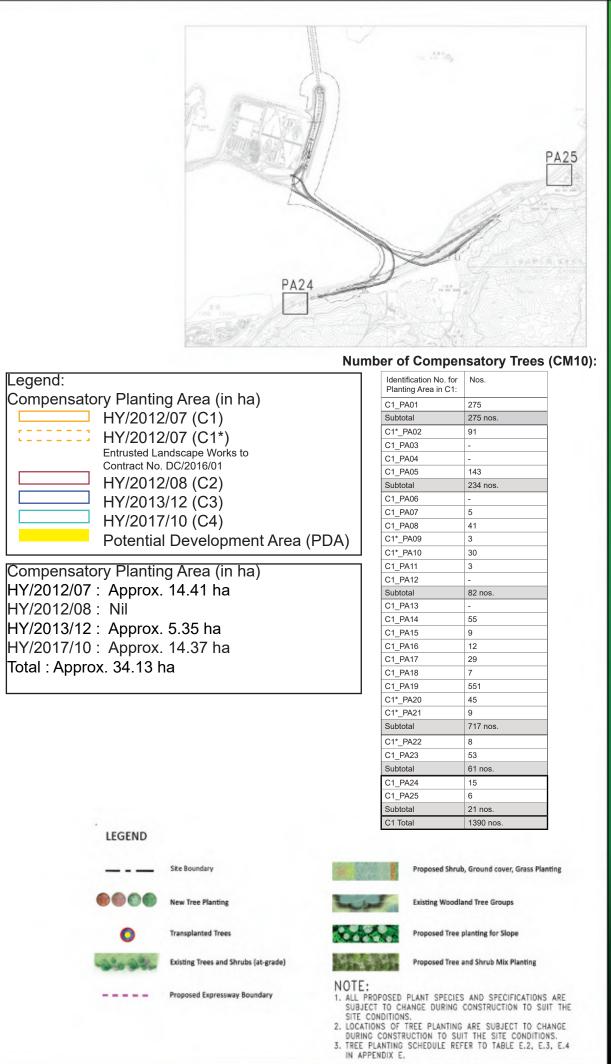
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C1/LM/015

SHEET 15 OF 15





No. for a in C1:	Nos.
	275
	275 nos.
	91
	-
	-
	143
	234 nos.
	-
	5
	41
	3
	30
	3
	-
	82 nos.
	-
	55
	9
	12
	29
	7
	551
	45
	9
	717 nos.
	8
	53
	61 nos.
	15
	6
	21 nos.
	1390 nos.



TUEN MUN -CHEK LAP KOK LINK

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

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MILLIMETRES

KEY PLAN



PROJECT NO.

CONTRACT NO. HY/2013/12

60240249

SHEET TITLE

LANDSCAPE MASTER PLAN

SHEET NUMBER

C1/LM/016

SHEET 1 OF 13

Appendix E.1

Summary of Tree Compensation

Table E.1 Tuen Mun - Chek Lap Kok Link (TM-CLKL) Summary of Tree Felling & Tree Compensation Quantity

		Tre	ee Quantity as i	n EIA Repor	t (Approx.	no.)	Tree (Quantity as i	n Tree Remov	al Application	s (no.)		ree Comper ee Remova (CIV	Applicatio			** Tree Plan proved Plan		Transplanted Tree Planting Quantity as in Approved Planting Proposals/ as in Landscape and Visual Plan (no.)	
		* Fell	Undersirable Species (Weed Tree)	**** Transplant	***** Retain	** Tree Compen- sation	* Fell (Living Tree)	Dead Tree	Undersirable Species (Weed Tree)	**** Transplant	**** Retain	Heavy Standard	Standard	Light Standard	Whip	Heavy Standard	Standard	Light Standard	Whip	**** Transplant
EIA Report (Ye	ear 2009)	3460	480	100	1360	6300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Application and Compensatory Planting Proposal (Ref. oved on 8 January 2013)	-	-	-	-	-	2293	701	652	182	2554	2965	0	893	0	-	-	-	-	-
	C1 - Supplementary Tree Removal Applications	-	-	-	-	-	886	28	0	8	154	372	44	298	90	-	-	-	-	-
	C1 - Adjustments made from the approved Tree Removal Application (Ref. A35-03) through	-	_	-	-	_	-	-	-	-76	-136	-	-	-	-	_	_	-	-	
	Supplementary Tree Removal Applications																			-
	C1 - Missing Tree Report	-	-	-	-	-	-168	0	0	-33	-86	-144	0	0	0	-	-	-	-	-
	C1 - Approved Planting Proposal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	557	25	665	143	11
HY/2012/08	C2 - Supplementary Tree Removal Applications	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
111/2012/08	C2 - Approved Planting Proposal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C3 - Supplementary Tree Removal Applications	-	-	-	-	-	1688	103	341	24	40	24	-	207	359	-	-	-	-	-
HV/2013/12	C3 - Adjustments made from the approved Tree Removal Application (Ref. A35-03) through Supplementary Tree Removal Applications	-	-	-	-	-	-	-	-	-7	-705	-	-	-	-	-	-	-	-	-
	C3 - Missing Trees on site	-	-	-	-	-	-217	-30	-205	-14	-261	-	-	-	-	-	-	-	-	-
	C3 - Approved Planting Proposal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	308	-	801	411	24
HY/2017/10	C4 - Supplementary Tree Removal Applications	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C4 - Approved Planting Proposal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2997	-	-	-	-
HY/2014/10	C5 - Supplementary Tree Removal Applications	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
,2014,10	C5 - Approved Planting Proposal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sub-Total	3460	480	100	1360	6300	4482	802	788	84	1560	3217	44	1398	449	3862	25	1466	554	35
	Total	* 3460	480	**** 100	1360	** 6300	*4482	802	788	**** 84	1560		** 5	108			***	5907		**** 35

Notes:

1. * The tree felling quantity stated in the EIA report and in the Tree Removal Applications varied. The quantity in the EIA report was estimated in an early design stage of the Project and with the development of the Project design, either civil, site formation or slope designs, the trees required to be felled for the construction of works became more accurate. In addition, the trees in Year 2009 were likely to have grown to sizes that require the process of tree removal application which also contributed to the variation in the tree felling quantity.

2. ** The tree compensation quantity stated in the EIA report and in the Tree Removal Applications varied. Mitigation Measure **'CM10'** in Table 10.9 of the EIA report: "Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensenatory trees shall be determined and agreed separately with Government during the Tree Felling Application process ...". The required number for Tree Compensation as listed in "Tree Compensation Quantity as in Tree Removal Applications" was agreed with the relevant Government departments through the applications "Tree Preservation and Removal Proposals". The locations and tree species were subsequently agreed with the relevant Government departments through the EIA report was estimated in an early design stage of the Project and with the development of the Project design, either civil, site formation or slope designs, the tree compensation quantity and quality as appropriate for the different environmental conditions of the site and the **Design Considerations** as listed in **Section 2** were agreed with the relevant Government departments.

3. *** Through the detailed planting design proposals, the quantity of tree planting exceeds the required tree compensation quantity in the Tree Removal Applications.

4. **** The possible change of condition of the trees to be transplanted and the development of the Project design contributed to the variation in the transplant tree quantity in the EIA and in the Landscape and Visual Plan. Missing transplant trees, 47 nos., were recorded from the initial tree surveys before works commenced. In Contract No. HY/2012/07, 18 nos. transplant trees could be retained on site instead of transplanting.

5. ***** The quantity of trees to be retained in the EIA report and in the Tree Removal Applications varied. The quantity in the EIA report was estimated in an early design stage of the Project and with the development of the Project design, either civil, site formation or slope designs, and the possible change of condition of the trees, the retained tree quantity became more accurate in the Tree Removal Applications.

6. To satisfy the tree compensation requirement, the higher quantity from the approved EIA report was used, i.e. 6,300 nos. i nstead of 5108 nos. from the tree removal applications. In order to meet 6,300 nos., compensatory tree planting outside the project boundary is necessary. Information on tree planting outside the project boundary is described in **Section 3.3** and in **Appendix E.3**.

Summary of free	e compensation - Approved EIA Report and Landscape and visual Plan											
Description	Approved EIA Report (nos.)	•	nd Visual Plan os.)									
Nos. of	6,300 approx.	Within Project Boundary	Outside Project Boundary									
Compensatory Tree Planting	(Tree Size: Light Standard, Heavy Standard)	5,353	1,040									
Total	6,300	6,393 (Tree Size: Light Standard - Heavy Standard)										

Summary of Tree Compensation - Approved EIA Report and Landscape and Visual Plan Comparison (Table E.1i) Summary of Tree Transplant - Approved EIA Report and Landscape and Visual Plan Comparison (Table E.1ii)

Description	Approved EIA Report	Landscape ar	nd Visual Plan	Remarks
Description	(nos.)	(nc	os.)	Remarks
		Within Project Boundary	Outside Project Boundary	47 nos. transplant trees surveyed as missing on site;
Nos. of Tree Transplant	100	35	0	18 nos. transplant trees retained on site in Contract No. HY/2012/07; 35 nos. actual transplant trees.
Total	100	3	5	100

Table E.2 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Contract No. HY/2012/07 (Contract 1) Tree Planting Schedule

BOTANICAL NAME		SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)	QUANTITY (nos.)									IDEN	ITIFICA	TION N	O. FOR	PLAN	TING A	REA IN		RACT 1								
	NAME	HEIGHT (H) X SPREAD (S)	(1111)	(1105.)	PA01	PA02	* PA03	PA04	PA05	PAC	06 PA0	7 PA0	8 PA09	* PA10	* PA11	PA12	PA13	PA1	4 PA15	5 PA16	5 PA17	' PA18	PA19	PA20	* PA2	1* PA22	2* PA23	8 PA24	PA25
WHIP																													
Bridelia tomentosa	土蜜樹	WHIP	1500-2000	37	-	-	-	-	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gordonia axillaris	大頭茶	WHIP	1500-2000	30	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litsea glutinosa	潺槁樹	WHIP	1500-2000	31	-	-	-	-	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phyllanthus emblica	餘甘子	WHIP	1500-2000	15	-	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reevesia thyrsoidea	梭羅樹	WHIP	1500-2000	30	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Subtota	143	0	0	0	0	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TREE (HEAVY STANDARD)																													
Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	5000	30	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	12	-	-	13	-	-	-	-	-	-
Bauhinia x blakeana	洋紫荊	HEAVY STANDARD	5000	1	-	-	-	-	-	-	-		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grevillea robusta	銀樺	HEAVY STANDARD	4000-5000	52	42	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-
Lagerstroemia speciosa	大花紫薇	HEAVY STANDARD	4000-4500	15	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-
Peltophorum tonkinense	銀珠	HEAVY STANDARD	5000	2	-	-	-	-	-	-	-		2		-	-	-	-	-	-		-	<u> </u>		-	-	-	<u> </u>	<u> -</u>
Plumeria rubra	雞蛋花	HEAVY STANDARD	4000-5000	284	233	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	47	-	-	-	-	-	1-
		2000-2500 (H) X 2000-2500 (S)																											
Tabebuia impetiginosa	風鈴木	HEAVY STANDARD	5000	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
llex rotunda	鐵冬青	HEAVY STANDARD	5000	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-
Viburnum odoratissimum	珊瑚樹	HEAVY STANDARD	5000	76	-	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9	-		-	-
			Subtotal	513	275	63	0	0	0	0	5	4	3	0	0	0	0	0	0	12	0	0	70	4	9	0	53	15	0
TREE (STANDARD)					-				-	-				-	-														-
Bauhinia variegata	宮粉羊蹄甲	STANDARD	4000/5000	25	-	-	-	-	-	-	-	7	-	-	3	-	-	-	9	-	-	-	-	-	-	-		-	6
			Subtota		0	0	0	0	0	0	0	7	0	0	3	0	0	0	9	0	0	0	0	0	0	0	0	0	6
TREE (LIGHT STANDARD)					-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
Bauhinia variegata	宮粉羊蹄甲	LIGHT STANDARD	4000	105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	98	-	-	-	-	-	-
Bombax ceiba	木綿	LIGHT STANDARD	4000-5000	84	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	29	-	-	-	-	-	-	-	-
Bridelia tomentosa	土蜜樹	LIGHT STANDARD	3000	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-	-	-	-	-
Cinnamomum burmannii	陰香	LIGHT STANDARD	4000	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-
Garcinia subelliptica	菲島福木	LIGHT STANDARD	4000-5000	91	-	-	-	-	-	-	-	-	-	30	-	-	-	-	-	-	-	-	12	41	-	8	-	-	-
Melia azedarach	苦楝	LIGHT STANDARD	4000	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-	-
			Subtota		0	0	0	0	0	0	0	0	0	30	0	0	0	55	0	0	29	7	194	41	0	8	0	0	0
PALM																													
		HEAVY STANDARD																										-	
Areca catechu	檳榔	4000 (H)	4000	28	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		LIGHT STANDARD																										-	
Caryota mitis	短穗魚尾葵	2500 (H) X 1500 (S)	2500	12	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		LIGHT STANDARD																										-	
Livistona chinensis	蒲葵	2500 (H) X 1500 (S)	3500-4000	248	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248	-	-	-	-	-	-
		LIGHT STANDARD																										-	
Phoenix roebelenii	日本葵	2000 (H) X 1500 (S)	2000	49	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	39	-	-	-	-	-	-
-		HEAVY STANDARD			1	1								1	1	1	1				1			1				1	
Phoenix sylvestris	銀海棗	2000 (H) X 1500 (S)	4000	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1-
		HEAVY STANDARD		-	1	1								1	1	1	1				1			1	1			1	<u> </u>
Washingtonia robusta	華盛頓葵	2500 (H) X 1500 (S)	3500-4000	8	-	-	-	-	-	-	-	8	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	1-
			Subtotal	345	0	28	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	287	0	0	0	0	0	0
			Contract 1 Total		275	91	0	0	143	0	5	41	3	30	3	0	0	55	9	12	29	7	551	45	9	8	53	15	6
							-	-		-	-		-	1	-				-						-	-			

NOTE:

1. All proposed plant species and specifications are subject to change during construction to suit the site conditions.

2. Locations of tree planting area subject to change during construction to suit the site conditions.

3. The standards of trees follow General Specification for Civil Engineering Works Clause 3.11-3.16; the sizes are also subject to the special feature according to species.

4. The palms are accounted as heavy or light standard trees according to species and sizes for tree compensation accounting purpose.

5. Refer to drawing nos. C1/LM/008ii, C1/LM/009, C1/LM/010, C1/LM/011, C1/LM/012, C1/LM/013, C1/LM/014, C1/LM/015, C1/LM/016 in Appendix D for the locations of planting area in Contract 1.

6. *refers to entrusted landscape works under Contract No. DC/2016/01. (C1* refers)

Tree Size Whip

Light Standard Standard

Heavy Standa

C1	C1*	
143	-	
143	-	143
586	79	
25	-	
450	107	
1061	186	1247
	Total	1390
	143 143 586 25 450	143 - 143 - 586 79 25 - 450 107 1061 186

Table E.3 Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works Contract No. HY/2013/12 (Contract 3) Tree Planting Schedule

BOTANICAL NAME	CHINESE	SIZE (mm)	SPACING	QUANTITY							I	DENTIFI	CATIO	N NO. I	FOR PL	ANTIN	G AREA	IN CO	NTRAC	ст з						
	NAME	HEIGHT (H) X SPREAD (S)	(mm)	(nos.)	PA01	PA02	PA03	PA04	PA05	PA06	PA07	PA08	PA09	PA10) PA11	PA12	2 PA13	PA14	PA15	5 PA16	PA1	7 PA18	PA19	9 PA20	PA21	PA22
WHIP																										
Bauhinia variegata	宮粉羊蹄甲	WHIP	1000	52	-	-	-	-	-	-	-	-	-	52	-	-	-	-	-	-	-	-	-	-	-	-
Bridelia tomentosa	土密樹	WHIP	1000	93	-	-	-	-	-	-	-	-	68	25	-	-	-	-	-	-	-	-	-	-	-	-
Gordonia axillaris	大頭茶	WHIP	1000	140	-	-	-	-	-	-	-	-	18	52	-	-	-	70	-	-	-	-	-	-	-	-
Litsea glutinosa	潺槁樹	WHIP	1000	38	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-
Mallotus paniculatus	白楸	WHIP	1000	38	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-
Phyllanthus emblica	餘甘子	WHIP	1000	38	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-
Sapium discolor	山烏桕	WHIP	1000	12	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-
			Subtotal	411	0	0	0	0	0	0	0	0	86	255	0	0	0	70	0	0	0	0	0	0	0	0
TREE (HEAVY STANDARD)																										
Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	4000-4500	41	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bombax ceiba	木棉	HEAVY STANDARD	4500-5000	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brachychiton acerifolius	槭葉蘋婆	HEAVY STANDARD	4500-5000	36	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-
Cinnamomum burmannii	陰香	HEAVY STANDARD	4500-5000	23	23	-	-	-	-	-	-	-	-	-	-	1-	-	-	-	-	-	-	-	-	-	-
Sterculia lanceolata	假蘋婆	HEAVY STANDARD	4500-5000	13	10	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Delonix regia	鳳凰木	HEAVY STANDARD	N/A	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Melaleuca cajuputi subsp. cumingiana	白千層	HEAVY STANDARD	4000	51	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	16	-	16	11	-
Tabebuia chrusantha	黃花風鈴木	HEAVY STANDARD	4500-5000	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	<u> </u>
Tabebula impetiginosa	風鈴木	HEAVY STANDARD	4500-5000	52	24	-	-	-	-	10	-	-	3	12	-	1_	-	-	-	-	-	-	-	-	-	<u> </u>
Terminalia mantaly	小葉欖仁	HEAVY STANDARD	4500-5000	8	-	1_	-	_	-	-	8	-	5	12	-	-	-		-		-	-	-	-	-	<u> </u>
	/] (未1庑1二			224	114	0	1	0	0	10	8	0	6	12	0	8	18	1	0	0	0	16	0	16	11	0
TREE (LIGHT STANDARD)			Subiolai	224	114	0	1	0	0	10	0	0	0	12	0	0	10	4	0	0	0	10	0	10		U
Bauhinia variegata		LIGHT STANDARD	3000	225						0		_	34	180			_				-		2			<u> </u>
Bridelia tomentosa	土密樹	LIGHT STANDARD	3000	81	-	-	-	-	-	0	-	-	34 15	46	-	-	-	-	-	-	-	-	20	-		<u> </u>
		LIGHT STANDARD			-	-	-	-	-	-	-	-	15	40 32	-	-	-	-	-	-	-	-	20	-	-	-
Bombax ceiba			3000	32	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Cinnamomum burmannii	陰香 楓香	LIGHT STANDARD	3000 3000	51 32	-	-	-	-	-	-	-	-	-	43 32	2	-	-	-	-	-	-	-	0	-	-	-
Liquidambar formosana					-	-	-	-	-	-	-	-	-	32	-	-	-	-	-	-	-	-	-	-	-	-
Litsea glutinosa		LIGHT STANDARD	3000	19	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-		-
Machilus chekiangensis	浙江潤腩	LIGHT STANDARD	3000	61	-	-	-	-	-	-	-	-	17	44	-	-	-	-	-	-	-	-	-	-	-	-
Reevesia thyrsoidea	梭羅樹	LIGHT STANDARD	3000	36	-	-	-	-	-	4	-	-	1	25	-	-	-	-	-	-	-	-	-	-	-	-
Schima superba	木荷(荷樹)	LIGHT STANDARD	3000	32	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-	-	-	-	-	-	-	-
Sterculia lanceolata	假蘋婆	LIGHT STANDARD	3000	53	-	-	-	-	-	-	-	-	6	30	3	-	-	-	-	-	-	-	14	-	-	-
Viburnum odoratissimum	珊瑚樹	LIGHT STANDARD	3000	74	-	-	-	-	-	-	-	-	16	58	-	-	-	-	-	-	-	-	-	-	-	-
Garcinia subelliptica	福木	LIGHT STANDARD	3000	30	-	-	-	-	-	-	-	-	-	-	-	4	-	3	7	-	-	4	-	-	12	-
			Subtotal	726	0	0	0	0	0	12	0	0	114	522	5	4	0	3	7	0	0	4	43	0	12	0
PALM																										
		HEAVY STANDARD																								
Archontophoenix alexandrae	假檳榔	3500(H) X 1500(S)	4000	58	-	-	-	-	-	-	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	++ ++	LIGHT STANDARD																								
Livistona chinensis	蒲葵		2500	21	-	-	-	-	-	10	-	-	-	11	-	-	-	-	-	-	-	-	-	-	+	
		LIGHT STANDARD	0500.0000		4.0		10				1			4.0		1							1			1
Phoenix roebelenii	日本葵	2000(H) X 1500(S)	2500-3000	54	13	-	18	-	-	-	-	-	4	19	-	-	-	-		-	-	-	-	-		
		HEAVY STANDARD			1						1					1							1			1
Wodyetia bifurcata	狐尾椰子	2500(H) X 1500(S)	3500	26	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-	-	-
			Subtota		13	0	18	0	0	10	58	0	4	30	0	0	0	26	0	0	0	0	0	0	0	0
			Contract 3 Total	1520	127	0	19	0	0	32	66	0	210	819	5	12	18	103	7	0	0	20	43	16	23	0

NOTE:

1. All proposed plant species and specifications are subject to change during construction to suit the site conditions.

2. Locations of tree planting area subject to change during construction to suit the site conditions.

3. The standards of trees follow General Specification for Civil Engineering Works Clause 3.11-3.16; the sizes are also subject to the special feature according to species.

4. The palms are accounted as heavy or light standard trees according to species and sizes for tree compensation accounting purpose.

5. Refer to drawing nos. C3/LM/001, C3/LM/002 in Appendix D for the locations of planting area in Contract 3.

Tree Size Whip Subtotal Light Standard Standard Heavy Standard Subtotal

	C3	
	411	
I	411	411
	801	
	0	
	308	
I	1109	1109
	<u>Total</u>	<u>1520</u>

Table E.4 Tuen Mun - Chek Lap Kok Link - Northern Connection Tunnel Buildings, Electrical and Mechanical Works Contract No. HY/2017/10 (Contract 4) Tree Planting Schedule

BOTANICAL NAME	CHINESE NAME	SIZE (mm)	SPACING (mm)	QUANTITY (nos.)		IDEN	NTIFICAT	ION NO.	FOR PL	ANTING	AREA IN		ACT 4	
		HEIGHT (H) X SPREAD (S)		(/	PA01	PA02	PA03	PA04	PA05	PA06	PA07	PA08	PA09	PA10
PALM (TUEN MUN)														
<u>.</u>		HEAVY STANDARD												
Wodyetia bifurcata	狐尾椰子	3000(H) X 1500(S)	4500	4	4	-	-	-	-	-	-	-	-	-
			Subtotal	4	4	0	0	0	0	0	0	0	0	0
TREE (NORTHERN LANDFALL)														
Bauhinia x blakeana	洋紫荊	HEAVY STANDARD	4500-5000	10	-	-	-	-	-	-	-	10	-	-
Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	4500-5000	38	-	-	-	-	-	-	-	38	-	-
Elaecarpus hainanensis	水石榕	HEAVY STANDARD	5000	18	-	-	-	-	18	-	-	-	-	-
Elaecarpus apiculatus	尖葉杜英	HEAVY STANDARD	6000	6	-	6	-	-	-	-	-	-	-	-
Garcinia subelliptica	福木	HEAVY STANDARD	3500-4000	3	-	3	-	-	-	-	-	-	-	-
Grevillea robusta	銀樺	HEAVY STANDARD	4500-5000	18	-	-	-	-	-	-	-	18	-	-
Melaleuca quinquenervia	白千層	HEAVY STANDARD	4500-5000	18	-	-	-	-	-	-	-	18	-	-
Plumeria rubra (multi-colour flower)	雞蛋花(多色花)	HEAVY STANDARD	4000-4500	13	-	5	8	-	-	-	-	-	-	-
Plumeria rubra (yellow folwer)	雞蛋花(黃花)	HEAVY STANDARD	4000-4500	46	-	-	46	-	-	-	-	-	-	-
Plumeria rubra (red flower)	雞蛋花(紅花)	HEAVY STANDARD	4000-4500	100	-	78	-	-	22	-	-	-	-	-
Pongamia pinnata	水黃皮	HEAVY STANDARD	5000-6000	51	-	6	-	-	19	-	-	26	-	-
Sterculia lanceolata	假蘋婆	HEAVY STANDARD	4500-5000	54	-	-	-	-	-	-	-	54	-	-
Terminalia catappa	欖仁樹	HEAVY STANDARD	6000-7000	38	-	2	-	-	-	-	-	36	-	-
Viburnum odoratissimum	珊瑚樹	HEAVY STANDARD	4500-5000	10	-	-	-	-	-	-	-	10	-	-
Xanthostemon chrysanthus	金蒲桃	HEAVY STANDARD	5000	13	-	-	-	-	13	-	-	-	-	-
			Subtotal	436	0	100	54	0	72	0	0	210	0	0
PALM (NORTHERN LANDFALL)														
		HEAVY STANDARD												
Areca catechu	檳榔	3000(H) X 1500(S)	4000	48	-	48	-	-	-	-	-	-	-	-
		HEAVY STANDARD												
Hyophorbe lagenicaulis	酒瓶椰子	2000(H) X 1500(S)	3000	16	-	-	2	-	14	-	-	-	-	-
		HEAVY STANDARD												
Livistona chinensis	蒲葵	3000(H) X 2000(S)	4000-4500	245	-	9	5	-	10	57	-	158	6	-
		HEAVY STANDARD												
Roystonea regia	王棕	4000(H) X 2000(S)	4500-5000	44	-	44	-	-	-	-	-	-	-	-
		HEAVY STANDARD												
Wodyetia bifurcata	狐尾椰子	3000(H) X 1500(S)	4500	77	-	-	10	-	-	-	-	67	-	-
			Subtotal		0	101	17	0	24	57	0	225	6	0
			Northern Landfall Total	870										
TREE (SOUTHERN LANDFALL)														
Callistemon viminalis	串錢柳	HEAVY STANDARD	4000-5000	135	-	-	-	-	-	-	-	-	-	135
Grevillea robusta	銀樺	HEAVY STANDARD	4000-5000	306	-	-	-	-	-	-	-	-	-	306
Plumeria rubra (red flower)	雞蛋花(紅花)	HEAVY STANDARD	4000-5000	574	-	-	-	-	-	-	-	-	-	574
Plumeria rubra (yellow flower)	雞蛋花(黃花)	HEAVY STANDARD	4000-5000	1100	-	-	-	-	-	-	-	-	-	1100
Plumeria rubra (multi-colour flower)	雞蛋花(多色花)	HEAVY STANDARD	4000-5000	12	-	-	-	-	-	-	-	-	-	12
			Southern Landfall Total	2127										2127
			Contract 4 Total	2997										

NOTE:

1. All proposed plant species and specifications are subject to change during construction to suit the site conditions.

2. Locations of tree planting area subject to change during construction to suit the site conditions.

3. The standards of trees follow General Specification for Civil Engineering Works Clause 3.11-3.16; the sizes are also subject to the special feature according to species.

4. The palms are accounted as heavy or light standard trees according to species and sizes for tree compensation accounting purpose.

5. Refer to drawing nos. C3/LM/001, C4/LM/003, C4/LM/004, C4/LM/005, C4/LM/006, C4/LM/007, C4/LM008i in Appendix D for the locations of planting area in Contract 4.

Tree Size		C4	
Whip		0	
	Subtotal	0	0
Light Standard		0	
Standard		0	
Heavy Standard		2997	
	Subtotal	2997	2997
		Total	2997

Appendix E.2

Tree Planting on Slopes

Feature No. Location:

5SE-D/C211 and 5SE-D/C210 Tuen Mun Average Slope Angle: 37 degree and 35 degree

No. of Compensatory Trees: 200 **Botanical Name** Chinese Name Size Spacing (mm) 宮粉羊蹄甲 Light standard 3000 Bauhinia variegata 土蜜樹 Bridelia tomentosa Light standard 3000

Litsea glutinosa	潺槁木	Light standard	3000	19
Machilus chekiangensis	浙江潤楠	Light standard	3000	17
Reevesia thyrsoidea	梭羅樹	Light standard	3000	7
Sterculia lanceolata	假蘋婆	Light standard	3000	6
Viburnum odoratissimum	珊瑚樹	Light standard	3000	16
Bridelia tomentosa	土蜜樹	Whip	2000	68
Gordonia axillaris	大頭茶	Whip	1000	18

Quantity (Nos.)

34

15

Feature No.

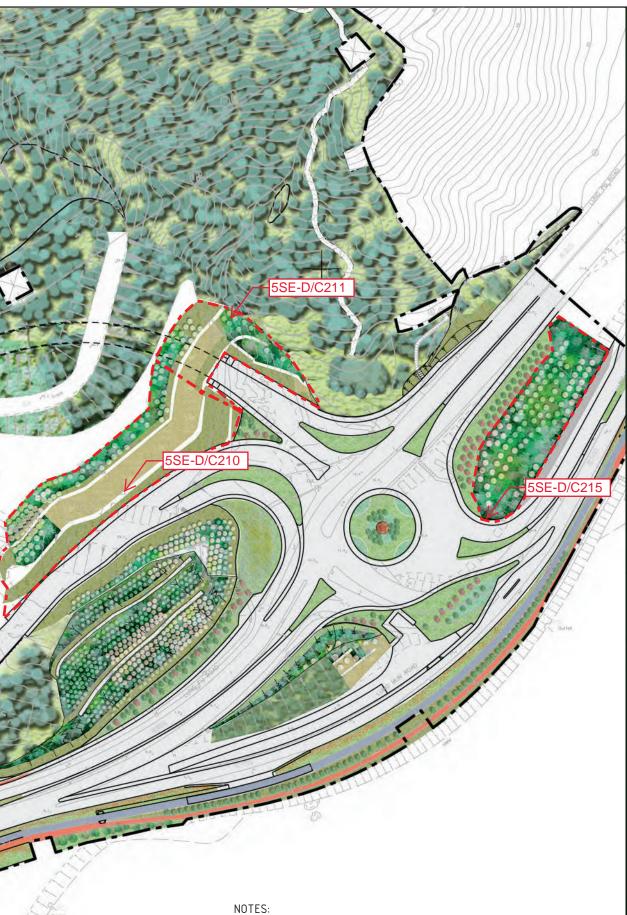
5SE-D/C215 Tuen Mun

Location:

Average Slope Angle:

No. of Compensatory Trees: 90

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bauhinia variegata	宮粉羊蹄甲	Heavy standard	4000-4500	41
Bombax ceiba	木棉	Heavy standard	4500-5000	16
Cinnamomum burmannii	陰香	Heavy standard	4500-5000	23
Sterculia lanceolata	假蘋婆	Heavy standard	4500-5000	10



- LEGEND REFER TO DRAWING NO. C3/LM/031. 1
- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE 2.
 - DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION З.
 - TO SUIT THE SITE CONDITIONS. PLANTING PROPOSALS FOR SLOPES HAVE BEEN REFERENCED TO GEO PUBLICATION 4 NO/1/2011 BY CEDD.
 - PLANTING PROPOSALS FOR SLOPES, I.E. TREE SPECEIS, SIZE, SPACING, LOCATION, 5. HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE DIVISION.



PROJECT

TUEN MUN -

CHEK LAP KOK LINK

COTNRACT TITLE TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

CLIENT



離 政 著 HIGHWAYS DEPARTMENT T 主要工程管理處(写責事務) Major Works Project Management Office :e (Special Duties)

CONSULTANT

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

1/R 1917	DATE	DESCRIPTION A SHAR	CHK.
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STATUS

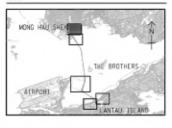
SCALE

DIMENSION UNIT

A1 1:500 A3 1:4000

MILLIMETRES

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

HY/2013/12

SHEET TITLE

TREE PLANTING ON SLOPES

SHEET NUMBER

C3/LM/046

SHEET 1 OF 6

Feature No.	5SE-D/C209
Location:	Tuen Mun
Average Slope Angle:	30 degree
No. of Compensatory Trees:	100

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bauhinia variegata	宮粉羊蹄甲	Light standard	3000	20
Bridelia tomentosa	土蜜樹	Light standard	3000	25
Reevesia thyrsoidea	梭羅樹	Light standard	3000	25
Sterculia lanceolata	假蘋婆	Light standard	3000	20
Viburnum odoratissimum	珊瑚樹	Light standard	3000	10

Feature No.	5SE-D/C170
Location:	Tuen Mun
Average Slope Angle:	28 degree
No. of Compensatory Trees:	677

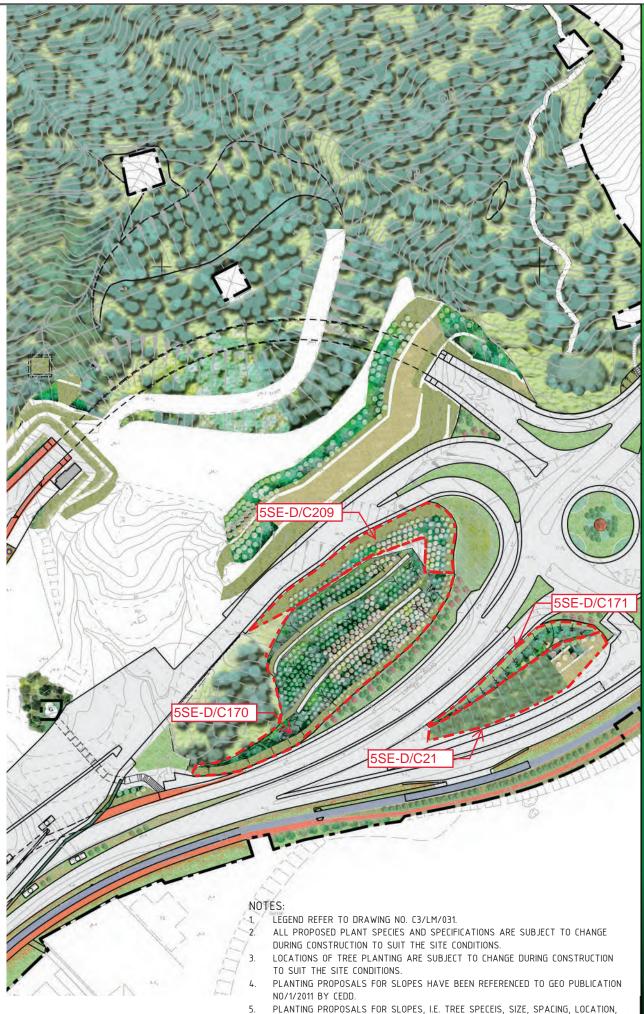
Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bauhinia variegata	宮粉羊蹄甲	Light standard	3000	160
Bombax ceiba	木棉	Light standard	3000	32
Cinnamomum burmannii	陰香	Light standard	3000	43
Liquidambar formosana	楓香	Light standard	3000	32
Machilus chekiangensis	浙江潤楠	Light standard	3000	44
Schima superba	木荷 (荷樹)	Light standard	3000	32
Viburnum odoratissimum	珊瑚樹	Light standard	3000	48
Bridelia tomentosa	土蜜樹	Light standard	3000	21
Sterculia lanceolata	假蘋婆	Light standard	3000	10
Bauhinia variegata	宮粉羊蹄甲	Whip	1000	52
Bridelia tomentosa	土蜜樹	Whip	1000	25
Gordonia axillaris	大頭茶	Whip	1000	52
Litsea glutinosa	潺槁木	Whip	1000	38
Mallotus paniculatus	白楸	Whip	1000	38
Phyllanthus emblica	餘甘子(油甘子)	Whip	1000	38
Sapium discolour	山烏桕	Whip	1000	12

Feature No.	5SE-D/C171
Location:	Tuen Mun
Average Slope Angle:	35 degree
No. of Compensatory Trees:	4

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bauhinia variegata	宮粉羊蹄甲	Light standard	3000	4

Feature No.	5SE-D/C21
Location:	Tuen Mun
Average Slope Angle:	50 degree
No. of Compensatory Trees:	8

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bauhinia variegata	宮粉羊蹄甲	Light standard	3000	4
Reevesia thyrsoidea	梭羅樹	Light standard	3000	4



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PROJECT

TUEN MUN -

CHEK LAP KOK LINK

COTNRACT TITLE

TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS C3/LM/046

CLIENT



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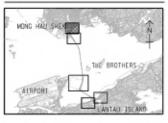
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A1 1:2000 A3 1:4000

MILLIMETRES

KEY PLAN



PROJECT NO.

CONTRACT NO.

60240249

(HY/2013/12

SHEET TITLE

TREE PLANTING ON SLOPES

SHEET NUMBER

C3/LM/047

SHEET 2 OF 6

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Feature No.	5SE-D/C214			SIL //A	ZK
Location:	Tuen Mun			11-100	EF
Average Slope Angle: No. of Compensatory Trees:	- 70			1/111=	-13
				it II-	M
Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)	17
Gordonia axillaris	大頭茶	Whip	1000	70	17.
				111111111	200
Feature No.	5SE-D/C18			11111111	S.V.
Location:	Tuen Mun			PRO HA	TT
Average Slope Angle:	30 degree			11/200	1111
No. of Compensatory Trees:	5			SS / All	HY.
Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)	XX
Cinnamomum burmannii	陰香	Light standard	3000	2	X
Sterculia lanceolata	假蘋婆	Light standard	3000	ou 3	$\langle \rangle$
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1.	LEGEND REFER TO DRAV			1.	
2.		SPECIES AND SPECIFICATION TO SUIT THE SITE CONDITION	NS ARE SUBJECT TO CHANGE DNS.	and the for	5
3.	LOCATIONS OF TREE PL	ANTING ARE SUBJECT TO C	HANGE DURING CONSTRUCTION	N An Can	: /
4.	TO SUIT THE SITE CONE PLANTING PROPOSALS		EFERENCED TO GEO PUBLICA	TION POL	IL
	NO/1/2011 BY CEDD.			7 1	*H.4
5.	HAVE BEEN REVIEWED	FOR SLOPES, I.E. TREE SPE AND COMMENTED BY HYD/L	CEIS, SIZE, SPACING, LOCATIO ANDSCAPE DIVISION.	JN,	
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Plot File by: kathrine PATH V:/TO/To RS:





PROJECT

TUEN MUN -

CHEK LAP KOK LINK

COTNRACT TITLE TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

CLIENT



離 政 著 HIGHWAYS DEPARTMENT T 主要工程管理處(写責事務) Major Works Project Management Office 2e (Special Duffes)

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SCALE

DIMENSION UNIT

A1 1:500 A3 1:4000

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MILLIMETRES
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PROJECT NO.

60240249

CONTRACT NO.

HY/2013/12

SHEET TITLE

TREE PLANTING ON SLOPES

SHEET 3 OF 6

SHEET NUMBER

C3/LM/048

Feature No.	5SE-D/C16
Location:	Tuen Mun
Average Slope Angle:	60 degree
No. of Compensatory Trees:	43

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bauhinia variegata	宮粉羊蹄甲	Light standard	3000	3
Cinnamomum burmannii	陰香	Light standard	3000	6
Sterculia lanceolata	假蘋婆	Light standard	3000	14
Bridelia tomentosa	土蜜樹	Light standard	3000	20

NOTES:

- 1. LEGEND REFER TO DRAWING NO. C3/LM/031.
- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE 2. DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION З. TO SUIT THE SITE CONDITIONS.
- PLANTING PROPOSALS FOR SLOPES HAVE BEEN REFERENCED TO GEO PUBLICATION 4. N0/1/2011 BY CEDD.
- PLANTING PROPOSALS FOR SLOPES, I.E. TREE SPECEIS, SIZE, SPACING, LOCATION, 5. HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE DIVISION.

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PROJECT

TUEN MUN -

CHEK LAP KOK LINK

COTNRACT TITLE

TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TOLL PLAZA AND ASSOCIATED WORKS

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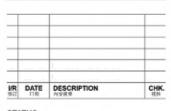
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DIMENSION UNIT

A1 1:500 A3 1:4000

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MILLIMETRES
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KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

HY/2013/12

SHEET TITLE

TREE PLANTING ON SLOPES

SHEET NUMBER

C3/LM/049

SHEET 4 OF 6

Feature No. Location:

Average Slope Angle:

10NW-C/F13, 10NW-C/F14 AND 10NW-C/F15 North Lantau Highway, North Lantau 26 degree No. of Compensatory Trees: 456

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bauhinia variegata	宮粉羊蹄甲	Light Standard	4000	92
Cinnamomum burmannii	陰香	Light Standard	4000	7
Melia azedarach	苦楝	Light Standard	4000	32
Bridelia tomentosa	土蜜樹	Light Standard	3000	45
Phoenix roebelenii	日本葵	2000(H) x 1500(S)	2000	39
Livistona chinensis	蒲葵	2500(H) x 1500(S)	3500 - 4000	241

Feature No.	10NW-C/F11 and 10NW-C/F17
Location:	North Lantau Highway, North La
Average Slope Angle:	27 degree
No. of Compensatory Trees:	84

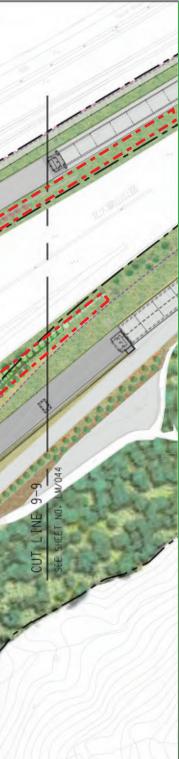
	North Lantau Highway, North Lantau
e:	27 degree
ry Trees:	84

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bombax ceiba	木綿	Light Standard	4500-5000	84
-				



				11 and in	1	/ /			N Y / 1	100-11	0
Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)	1		120	10NW-C/F11	× 1		01
Bauhinia variegata	宮粉羊蹄甲	Light standard	4000	7	0	20	100	/ / V		1	
			1 - 1 - 11 - 11 - 12 - 11 - 11		1					5.80	





10NW-C/F10

10NW-C/F13



ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO

LOCATION, HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE



PROJECT

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

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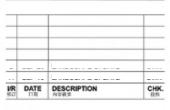
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SCALE

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A1 1:2000 A3 1:4000

MILLIMETRES

KEY PLAN



PROJECT NO.

CONTRACT NO.

60240249

HY/2012/07

SHEET TITLE

TREE PLANTING ON SLOPES

SHEET NUMBER

C1/LM/050

SHEET 5 OF 6

Feature No.

Location: Average Slope Angle: Cheung Tung Road, North Lantau

9SE-B/C8, 9SE-B/C9

40 and 45 degree respectively; tree planting locations are with 35 degree angle

No. of Compensatory Trees: 143

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bridelia tomentosa	土蜜樹	Whip	1500-2000	37
Gordonia axillaris	大頭茶	Whip	1500-2000	30
Litsea glutinosa	潺槁樹	Whip	1500-2000	31
Phyllanthus emblica	餘甘子	Whip	1500-2000	15
Reevesia thyrsoidea	梭羅樹	Whip	1500-2000	30

Feature No.

Location: Average Slope Angle: No. of Compensatory Trees: 41

9SE-B/F85	
North Lantau Highway, Lantau	
25 degree	

Botanical Name	Chinese Name	Size	Spacing (mm)	Quantity (Nos.)
Bauhinia variegata	宮粉羊蹄甲	Standard tree	4000	7
Plumeria rubra	雞蛋花 (紅)	Heavy standard	3500-4000	4
Caryota mitis	短穗魚尾葵	2500(H) x 1500(S)	2500	12
Phoenix roebelenii	日本葵	2000(H) X 1500(S)	2000	10
Washingtonia robusta	華盛頓葵	2500(H) x 2000(S)	3500-4000	8

NOTES:

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1. LEGEND REFER TO DRAWING NO. C1/LM/040. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS. PLANTING PROPOSALS FOR SLOPES HAVE BEEN REFERENCED TO GEO PUBLICATION NO/1/2011 BY CEDD. PLANTING PROPOSALS FOR SLOPES, I.E. TREE SPECEIS, SIZE, SPACING, LOCATION, HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE DIVISION.





PROJECT

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

CLIENT



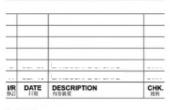
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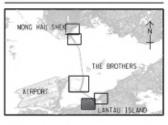
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MILLIMETRES

KEY PLAN



PROJECT NO.

CONTRACT NO.

60240249

HY/2012/07

SHEET TITLE

TREE PLANTING ON SLOPES

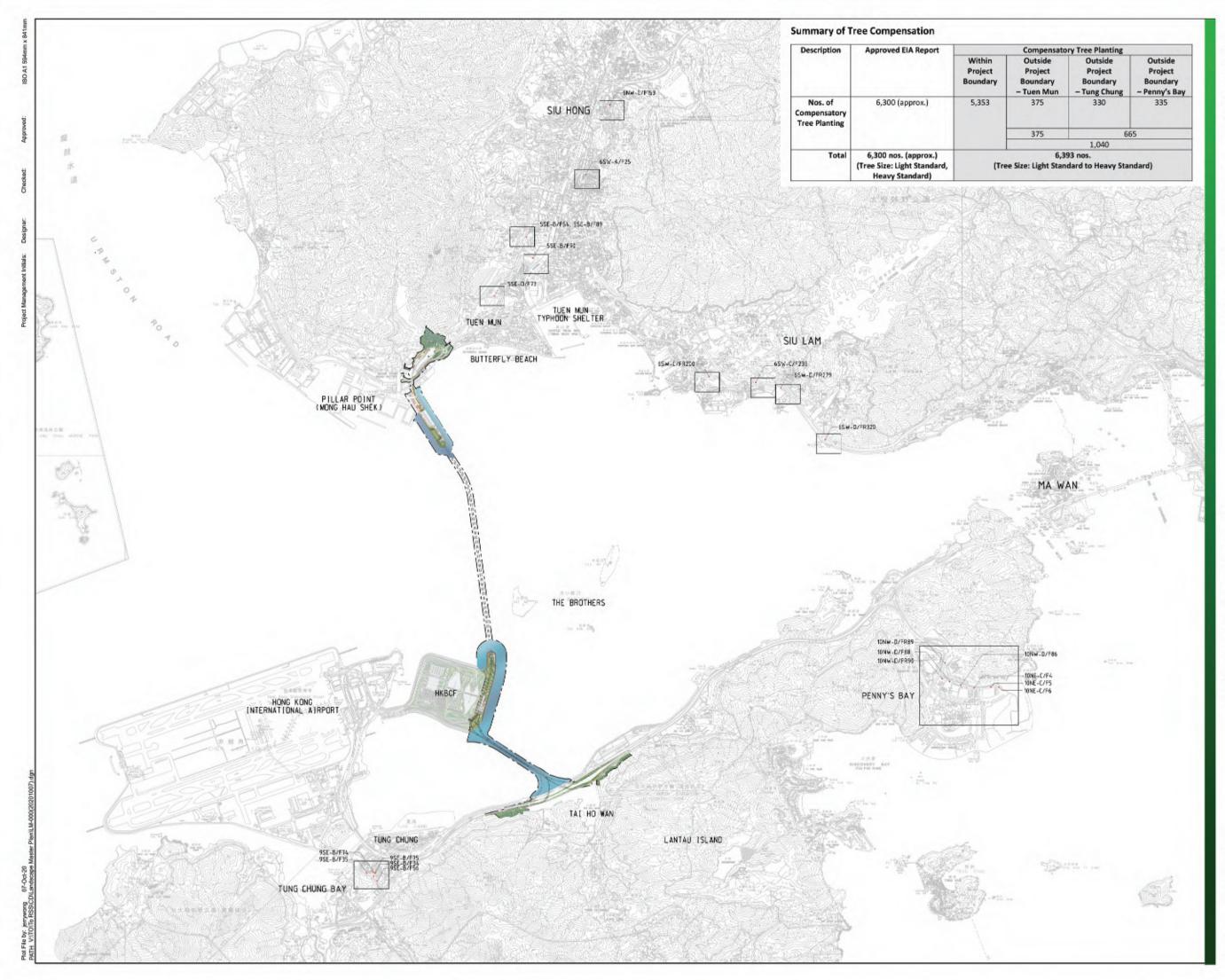
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SHEET 6 OF 6

C1/LM/051

Appendix E.3

Tree Compensation Outside Project Boundary





TUEN MUN -CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

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第二日 読 改 著 HIGHWAYS DEPARTMENT 主要工程管理盘(専員事務) Major Works Project Management Office (Special Duties)

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KEY PLAN

PROJECT NO.

60240249

SHEET TITLE

TREE COMPENSATION OUTSIDE PROJECT BOUNDARY

SHEET NUMBER

LM/052

Table E.5 Tuen Mun - Chek Lap Kok Link Agreement No. CE 7/2011 (HY) Tree Compensation Outside Project Boundary - Tree Planting Schedule

antau (Tung Chung, Penny's Bay)

	·····
Location of Slopes Outside Project B	oundary: North Lantau (Tung Ch
Feature No. 9SE-B/F56	
Location: Shun Tung Road, Tung Chung	
Average Slope Angle: 28 degree	
No. of Compensatory Trees:	152
Feature No. 9SE-B/F35, 9SE-B/F74, 9SE-B	/F75 and 9SE-B/F34
Location: Shun Tung Road, Tung Chung	
Average Slope Angle: 35 degree, 30 degree	ee, 30 degree, 35 degree respectively.
No. of Compensatory Trees:	178
Feature No. 10NE-C/F6	
Location: Penny's Bay	
Average Slope Angle: 27 degree	
No. of Compensatory Trees:	38
Feature No. 10NE-C/F5	
Location: Penny's Bay	
Average Slope Angle: 27 degree	
No. of Compensatory Trees:	44
Feature No. 10NE-C/F4	
Location: Penny's Bay	
Average Slope Angle: 27 degree	
No. of Compensatory Trees:	33
Feature No. 10NW-D/F86	
Location: Penny's Bay	
Average Slope Angle: 27 degree	
No. of Compensatory Trees:	32
Feature No. 10NW-D/F88	
Location: Penny's Bay	
Average Slope Angle: 27 degree	
No. of Compensatory Trees:	70
Feature No. 10NW-D/FR89	
Location: Penny's Bay	
Average Slope Angle: 27 degree	
No. of Compensatory Trees:	70
Feature No. 10NW-D/FR90	

Location: Penny's Bay	
Average Slope Angle: 27 degree	
No. of Compensatory Trees:	48
Tung Chung, Penny's Bay:	665 nos.

Botanical Name	Chinese Name	Size	Spacing (Approximate mm)	Remarks
Bischofia javanica	秋楓	Light Standard	3000-4000	native tree mix
Bauhinia variegata	宮粉羊蹄甲	Light Standard	3000-4000	exotic - flowering tree
Cassia fistula	豬腸豆	Light Standard	4000-5000	exotic - front row flowering tre
Castanopsis fissa	裂斗錐栗	Light Standard	3000-4000	native tree mix
Celtis sinensis	朴樹	Light Standard	3000-4000	native tree mix
Cinnamomum burmannii	陰香	Light Standard	3000-4000	native tree mix
Cinnamomum camphoroa	樟	Standard	4000-5000	native avenue tree
Cyclobalanopsis championii	嶺南青岡	Light Standard	3000-4000	native tree mix
Elaeocarpus chinensis	中華杜英	Light Standard	3000-4000	native tree mix
Elaeocarpus sylvestris	山杜英	Light Standard	3000-4000	native tree mix
llex viridus	綠冬青	Light Standard	3000-4000	native tree mix
Lagerstroemia speciosa	大花紫薇	Light Standard	3000-4000	exotic - front row flowering tre
Liquidambar formosana	楓香	Light Standard	3000-4000	native tree mix
Machilus breviflora	短序潤楠	Light Standard	3000-4000	native tree mix
Machilus chekiangensis	浙江潤楠	Light Standard	3000-4000	native tree mix
Phyllanthus emblica	餘甘子	Light Standard	3000-4000	native tree mix
Pyrus calleryana	豆梨	Light Standard	3000-4000	native - front row flowering tre
Reevesia thyrsoidea	梭羅樹	Light Standard	3000-4000	native tree mix
Sapium discolor	山烏桕	Light Standard	3000-4000	native tree mix
Schefflera heptaphylla	鵝掌柴	Light Standard	3000-4000	native tree mix
Schima superba	木荷	Light Standard/ Standard	3000-4000	native tree mix/ avenue tree
Sterculia lanceolata	假蘋婆	Light Standard	3000-4000	native tree mix
Syzygium hancei	韓氏蒲桃	Light Standard	3000-4000	native tree mix
Tabebuia chrysantha	黃花風鈴木	Light Standard	3000-4000	exotic - front row flowering tre
Tabebuia impetiginosa	紅花風鈴木	Light Standard	3000-4000	exotic - front row flowering tre
Viburnum odoratissimum	珊瑚樹	Light Standard	3000-4000	native tree mix
			Tung Chung Total Quantity:	330 nos.

NOTE:

1. The Tree Species Schedule is a tentative list which has been advised by HyD/Landscape Division. Tree species will be selected from the Tree Species Schedule.

2. All proposed tree species and specifications in the Tree Species Schedule are subject to change during construction to suit the site conditions and market availability.

3. Size of trees shall refer to the General Specification for Civil Engineering Works, 2006 edition.

4. Exact location of tree planting shall be verified on site. Trees may be planted in other slope(s) in the Tuen Mun Area.

Tree Species Schedule - Penny's Bay

Botanical Name	Chinese Name	Size	Spacing (Approximate mm)	Remarks
Bauhinia variegata	宮粉羊蹄甲	Heavy Standard	4000-5000	exotic
Callistemon viminalis	串錢柳	Heavy Standard	4000-5000	exotic
Ficus microcarpa	細葉榕	Standard	-	native
Lagerstroemia indica	紫薇	Standard	4000-5000	exotic
Lagerstroemia speciosa	大花紫薇	Standard	4000-5000	exotic
Liquidambar formosana	楓香	Standard	4000-5000	native
Livistona chinensis	蒲葵	1.5m clear trunk	2500-3000	exotic
Livistona chinensis	蒲葵	3m clear trunk	2500-3000	exotic
Plumeria rubra (red)	雞蛋花(紅花)	Heavy Standard - 2m Height	4000-5000	exotic
Sterculia lanceolata	假蘋婆	Heavy Standard	4000-5000	native
Tabebuia chrysantha	黃花風鈴木	Standard	4000-5000	exotic
Tabebuia rosea	紅花風鈴木	Standard	4000-5000	exotic
Terminalia catappa	欖仁樹	Heavy Standard	4000-4500	exotic
Viburnum odoratissimum	珊瑚樹	Heavy Standard	4000-5000	native
Xanthostemon chrysanthus	金蒲桃	Standard	4000-5000	exotic
Yulania liliiflora	紫玉蘭	Standard	4000-5000	exotic
Yulania x soulangeana	二喬木蘭	Standard	4000-5000	exotic
			Penny's Bay Total Quantity:	335 nos.

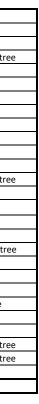
NOTE:

1. The Tree Species Schedule is a tentative list which has been advised by HyD/Landscape Division. Tree species will be selected from the Tree Species Schedule.

2. All proposed tree species and specifications in the Tree Species Schedule are subject to change during construction to suit the site conditions and market availability.

3. Size of trees shall refer to the General Specification for Civil Engineering Works, 2006 edition.

4. Exact location of tree planting shall be verified on site. Trees may be planted in other slope(s) in the Tuen Mun Area.



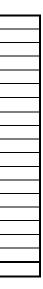


Table E.6 Tuen Mun - Chek Lap Kok Link Agreement No. CE 7/2011 (HY)

Tree Compensation Outside Project Boundary - Tree Planting Schedule

Location of Slopes Outside Project Boundary: Tuen Mun

	,
Feature No. 6SW-D/FR320	
Location: Castle Peak Road	
Average Slope Angle: 26 degree	
No. of Compensatory Trees:	30
Feature No. 6SW-D/FR279	
Location: Castle Peak Road	
Average Slope Angle: 30 degree	
No. of Compensatory Trees:	20
Feature No. 6SW-C/FR200	
Location: Castle Peak Road	
Average Slope Angle: 30 degree	
No. of Compensatory Trees:	49
Feature No. 5SE-D/F73	
Location: San Shek Wan Road	
Average Slope Angle: 30 degree	
No. of Compensatory Trees:	60
·····	
Feature No. 5SE-B/F54 and 5SE-B/F89	
Location: Tsing Wan Road	
Average Slope Angle: 35 degree	
No. of Compensatory Trees:	58
. ,	
Feature No. 5SE-B/F70	
Location: Wong Chu Road	
Average Slope Angle: 30 degree	
No. of Compensatory Trees:	20
Feature No. 6SW-A/F25	
Location: Tseng Choi Street	
Average Slope Angle: 30 degree	
No. of Compensatory Trees:	48
· · · · · · · · · · · · · · · · · · ·	
Feature No. 6NW-C/F153	
Location: Tuen Fu Road	
Average Slope Angle: 30 degree	
No. of Compensatory Trees:	45
Feature No. 6SW-C/F233	
Location: Castle Peak Road - Tai Lam	
Average Slope Angle: 45 degree	
(proposed tree planting is at portion with	
approximate 35 degree angle)	
No. of Compensatory Trees:	45
Tuen Mun:	375 nos.
	575 1105.

Tree Species Schedule - Tuen Mun

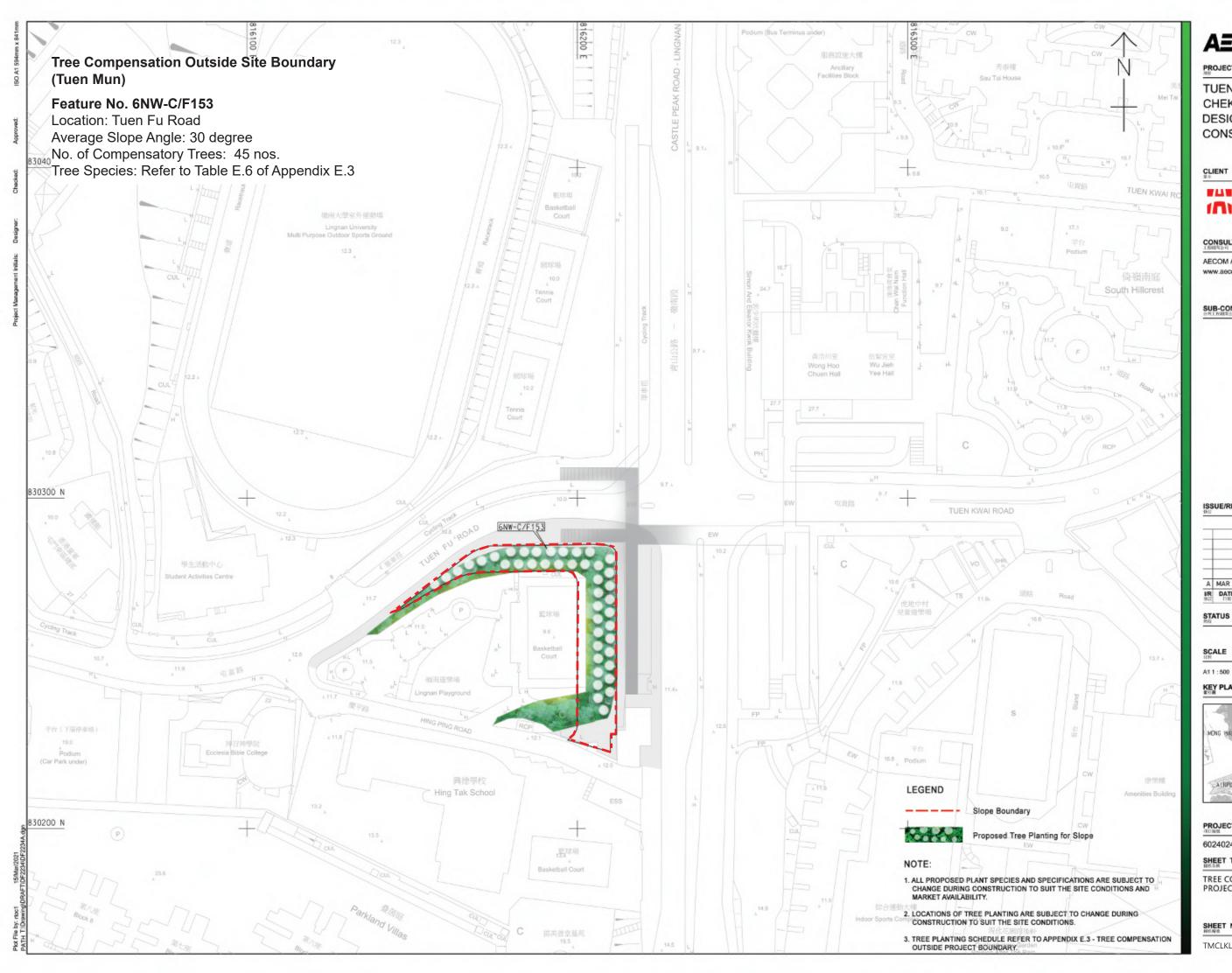
Botanical Name	Chinese Name	Size	Spacing (Approximate mm)	Remarks
Alangium chinense	八角楓	Light Standard	5000 - 6000	native
Bischofia javanica	秋楓	Light Standard	5000 - 6000	native
Bauhinia variegata	宮粉羊蹄甲	Light Standard	3000 - 4000	exotic
Castanopsis fissa	裂斗錐栗	Light Standard	5000 - 6000	native
Celtis sinensis	朴樹	Light Standard	3000 - 4000	native
Cinnamomum burmannii	陰香	Light Standard	3000 - 4000	native
Cinnamomum camphora	樟	Light Standard	5000 - 6000	native
llex rotunda var. microcarpa	小果鐵冬青	Light Standard	3000 - 4000	native
Liquidambar formosana	楓香	Light Standard	5000 - 6000	native
Litsea glutinosa	潺槁樹	Light Standard	3000 - 4000	native
Litsea monopetala	假柿木薑子	Light Standard	5000 - 6000	native
Machilus breviflora	短序潤楠	Light Standard	3000 - 6000	native
Photinia benthamiana	閩粵石楠	Light Standard	3000 - 6000	native
Phyllanthus emblica	餘甘子	Light Standard	3000 - 4000	native
Pongamia pinnata	水黃皮	Light Standard	5000 - 6000	native
Pyrus calleryana	豆梨	Light Standard	3000 - 4000	native
Reevesia thyrsoidea	梭羅樹	Light Standard	3000 - 4000	native
Sapium sebiferum	烏桕	Light Standard	5000 - 6000	native
Schefflera heptaphylla	鵝掌柴	Light Standard	5000 - 6000	native
Schima superba	木荷	Light Standard	3000 - 4000	native
Sapium discolor	山烏桕	Light Standard	3000 - 4000	native
Sterculia lanceolata	假蘋婆	Light Standard	3000 - 4000	native
Syzygium hancei	韓氏蒲桃	Light Standard	3000 - 4000	native
Syzygium levinei	山蒲桃	Light Standard	5000 - 6000	native
Tabebuia chrysantha	黃花風鈴木	Light Standard	3000 - 4000	exotic
Viburnum odoratissimum	珊瑚樹	Light Standard	3000 - 6000	native
Xanthostemon chrysanthus	金蒲桃	Light Standard	3000 - 4000	exotic
			Tuen Mun Total Quantity:	375 nos.

NOTE:

1. The Tree Species Schedule is a tentative list which has been advised by HyD/Landscape Division. Tree species will be selected from the Tree Species Schedule. 2. All proposed tree species and specifications in the Tree Species Schedule are subject to change during construction to suit the site conditions and market availability.

3. Size of trees shall refer to the General Specification for Civil Engineering Works, 2006 edition.

4. Exact location of tree planting shall be verified on site. Trees may be planted in other slope(s) in the Tuen Mun Area.





TUEN MUN -CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

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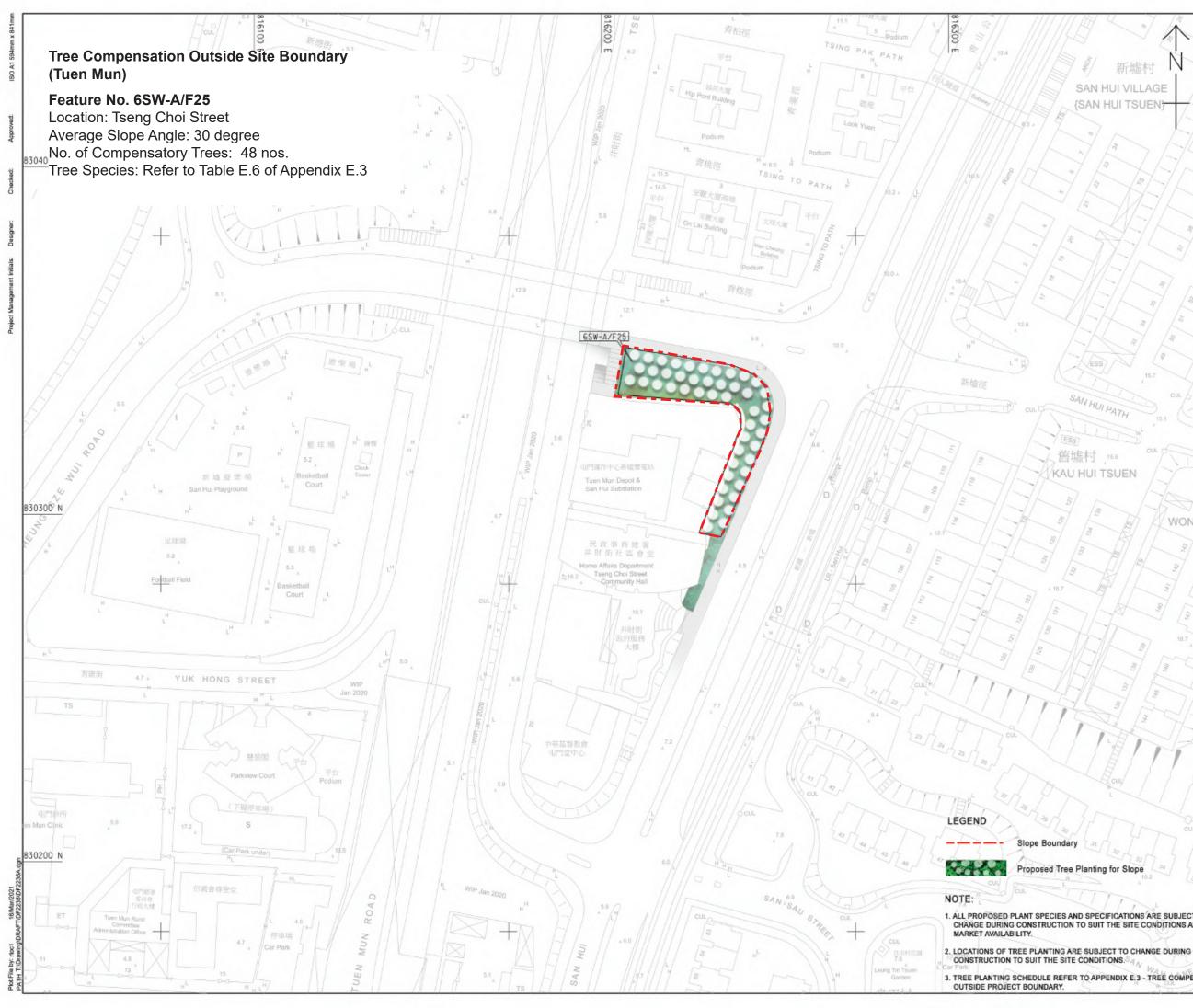
PROJECT NO.

60240249

SHEET TITLE

TREE COMPENSATION OUTSIDE PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER



新墟村 SAN HUI VILLAGE {SAN HUI TSUEN} HUI PATH 舊墟村 15.6 KAU HUI TSUEN □【黃家[WONG KA W 13 12 1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY. 3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION



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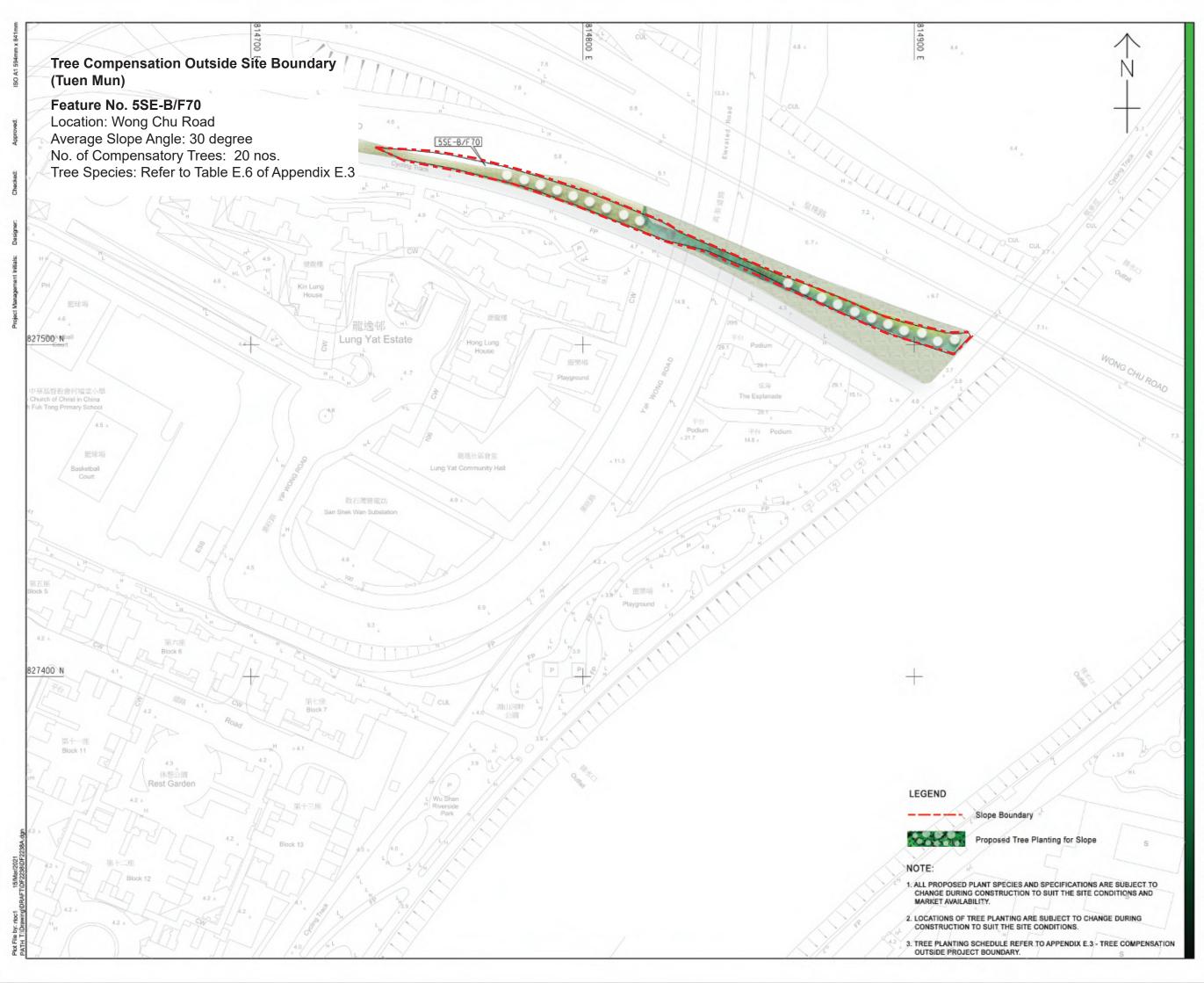
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SHEET TITLE

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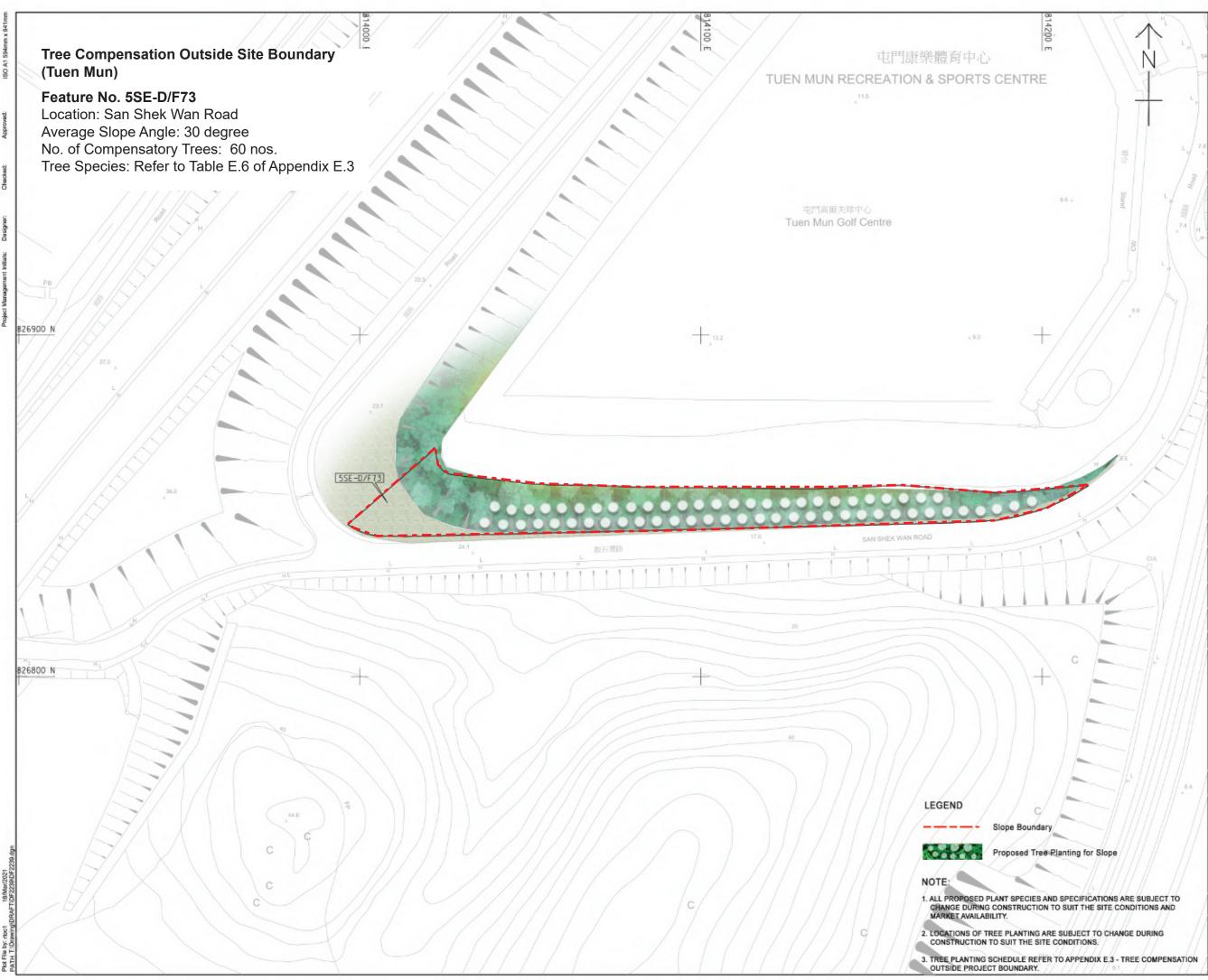
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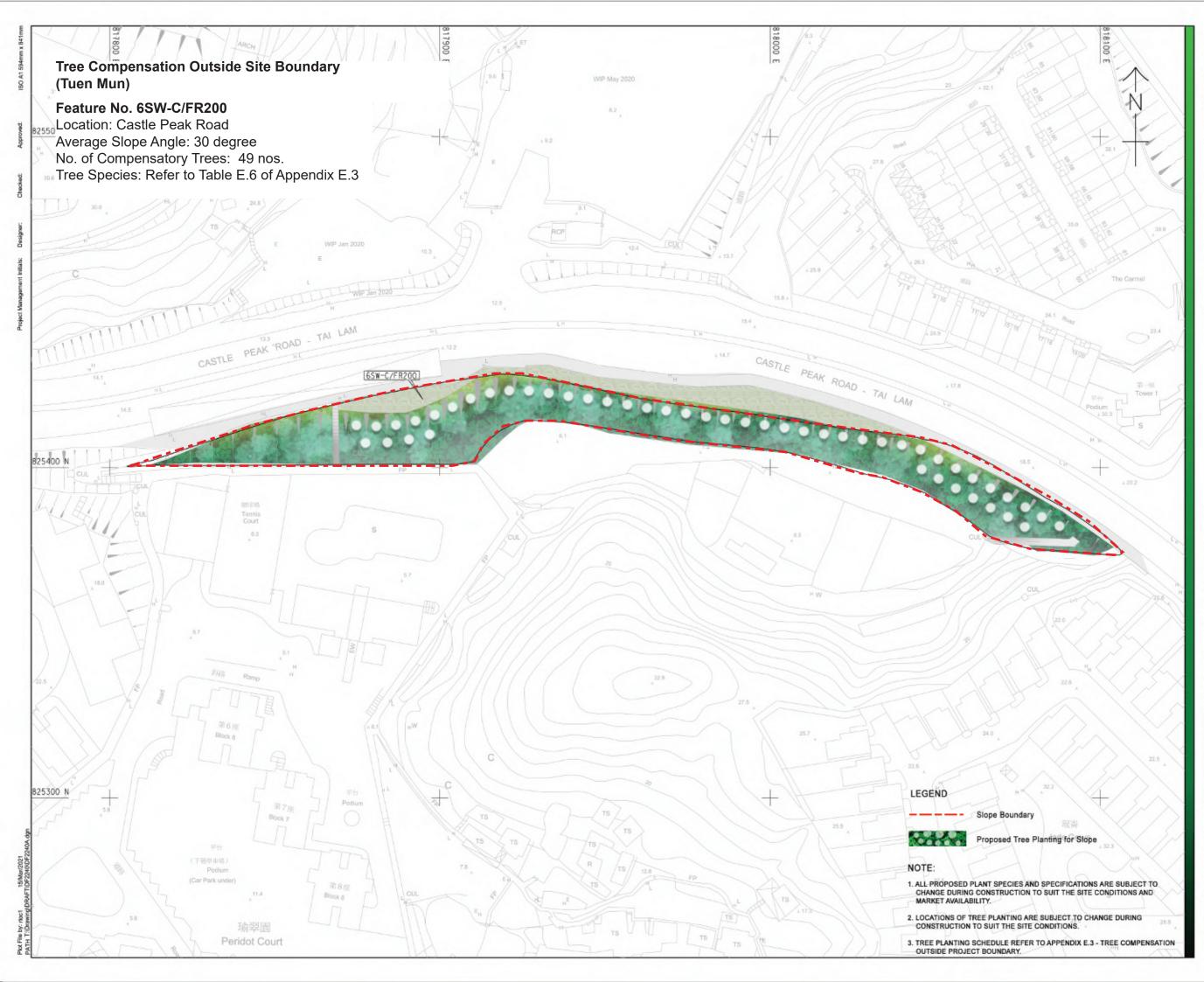
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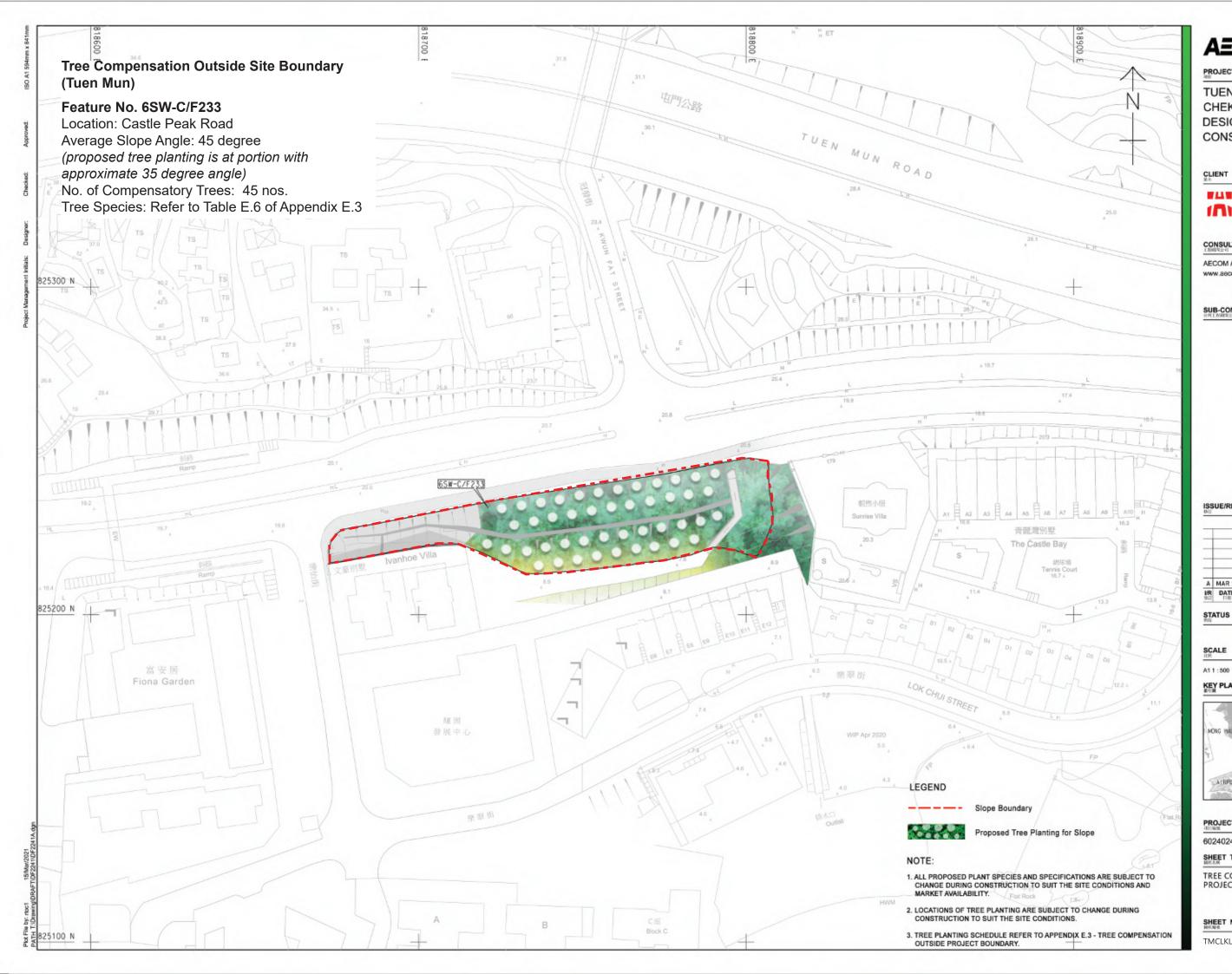
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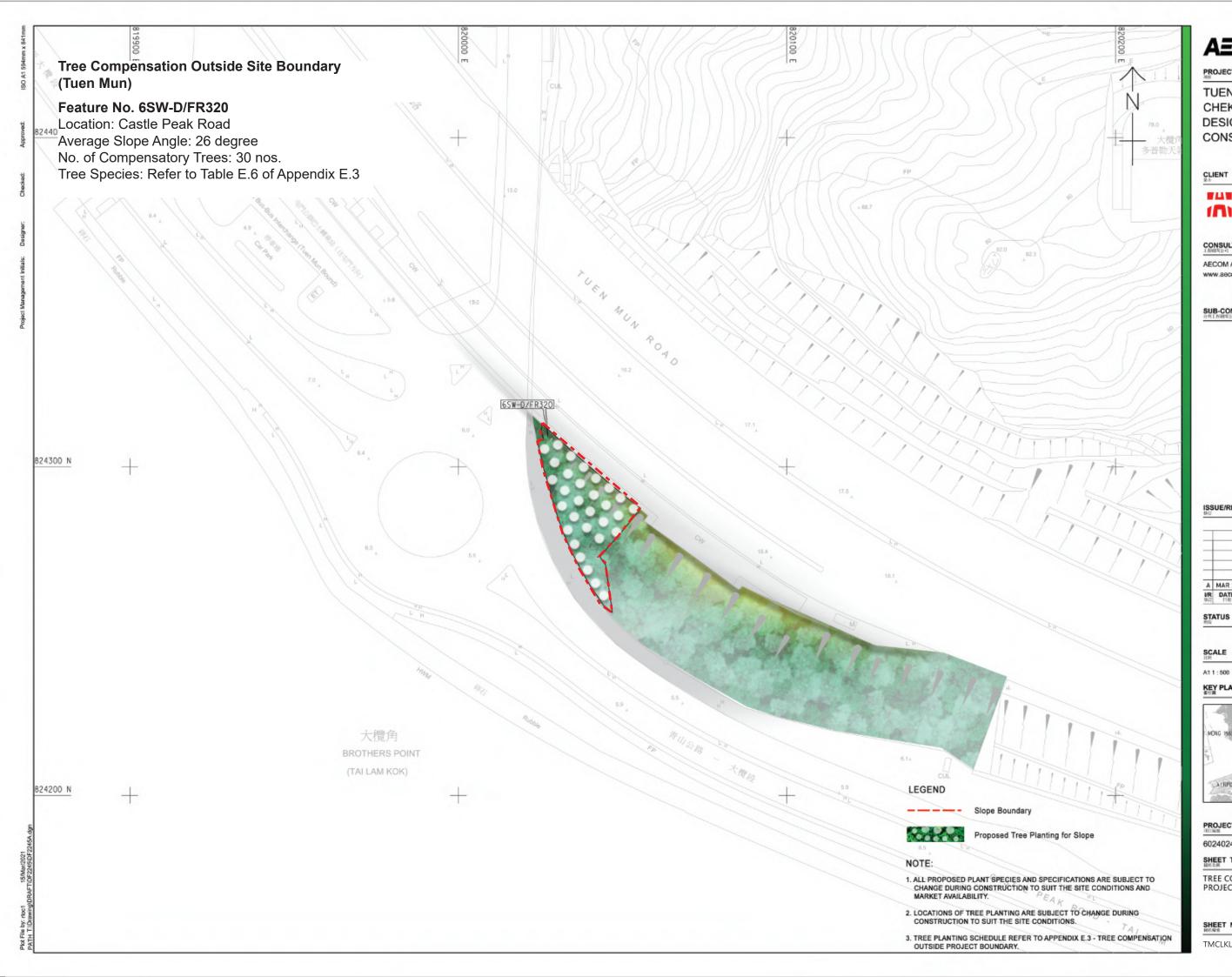
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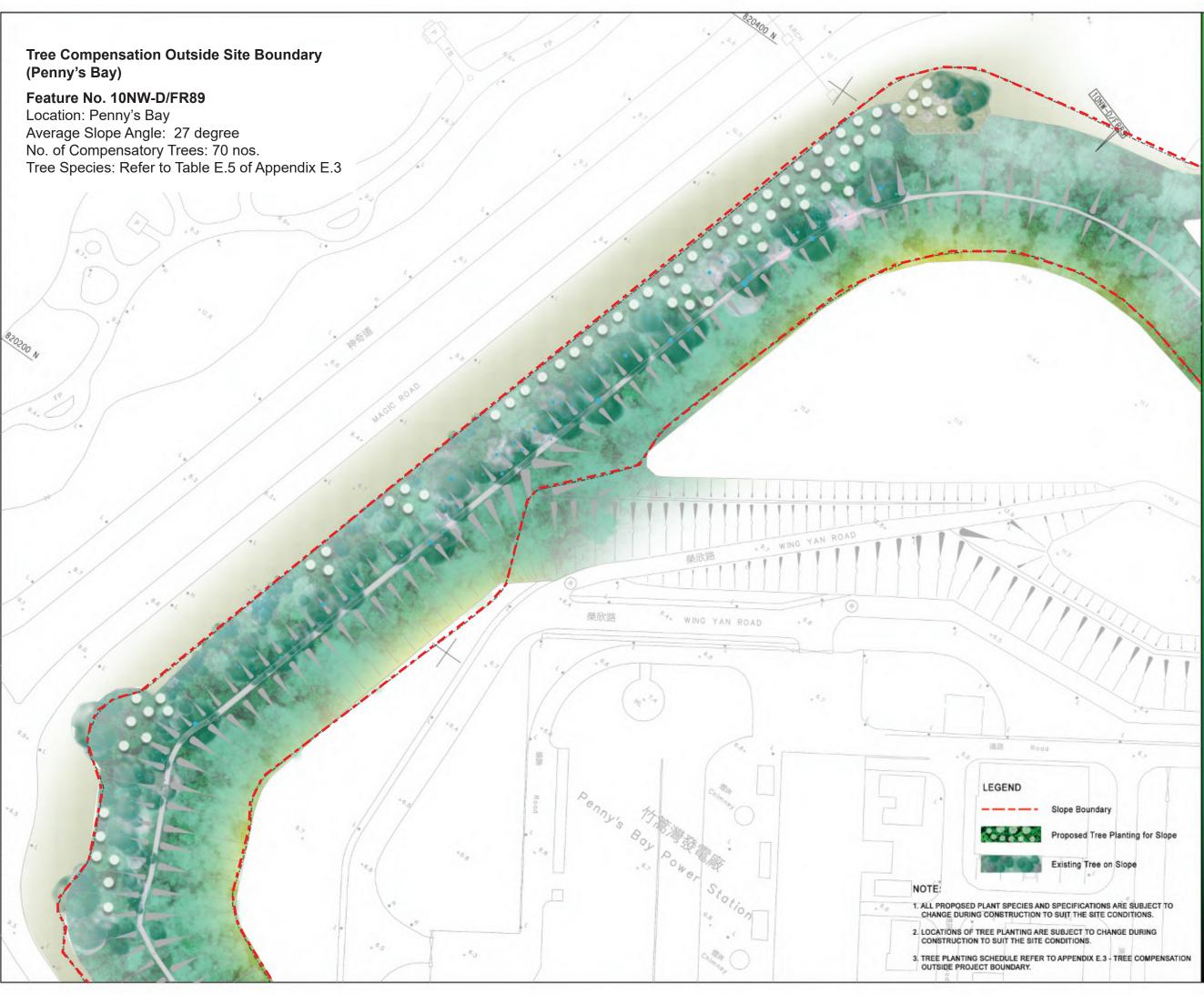
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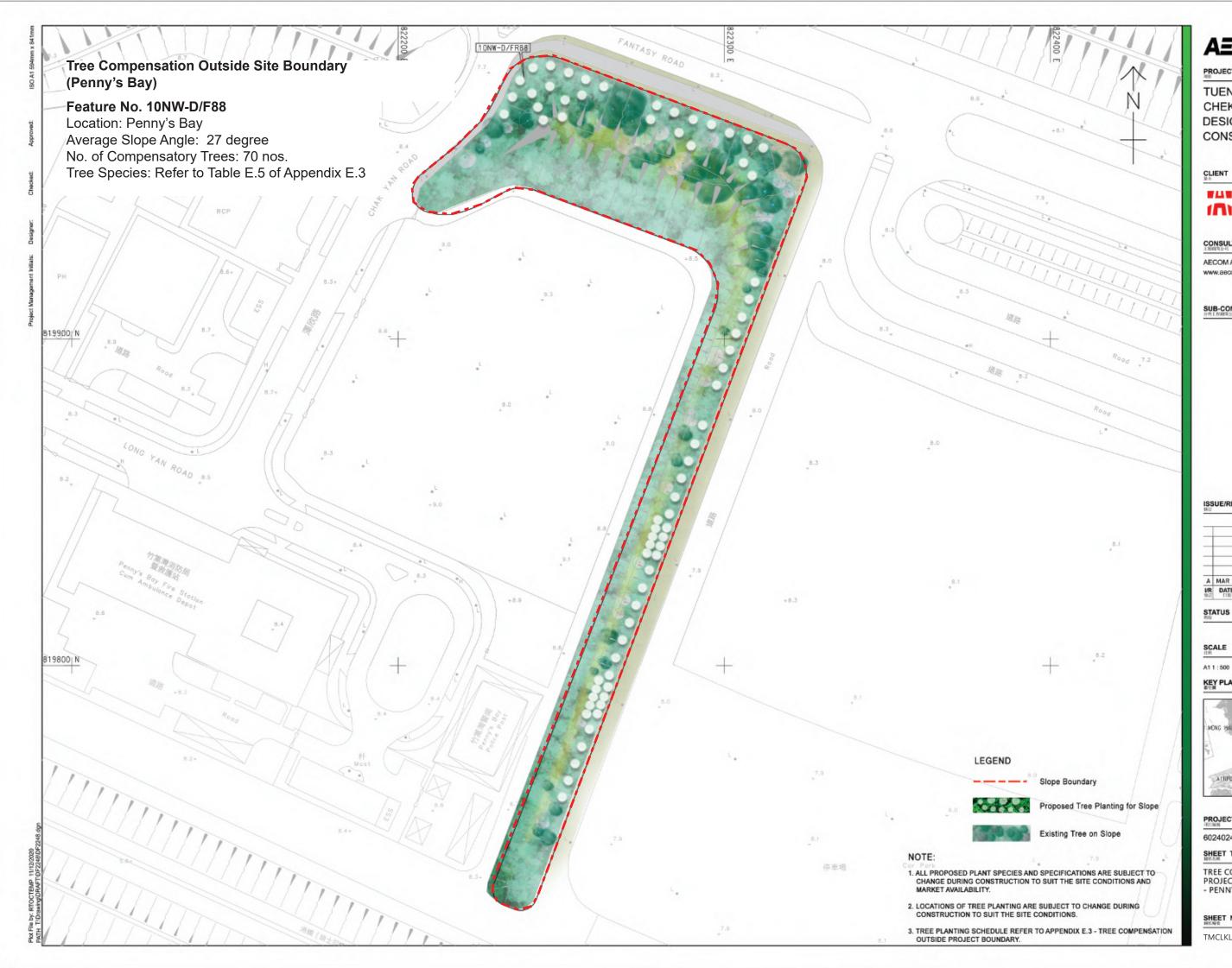
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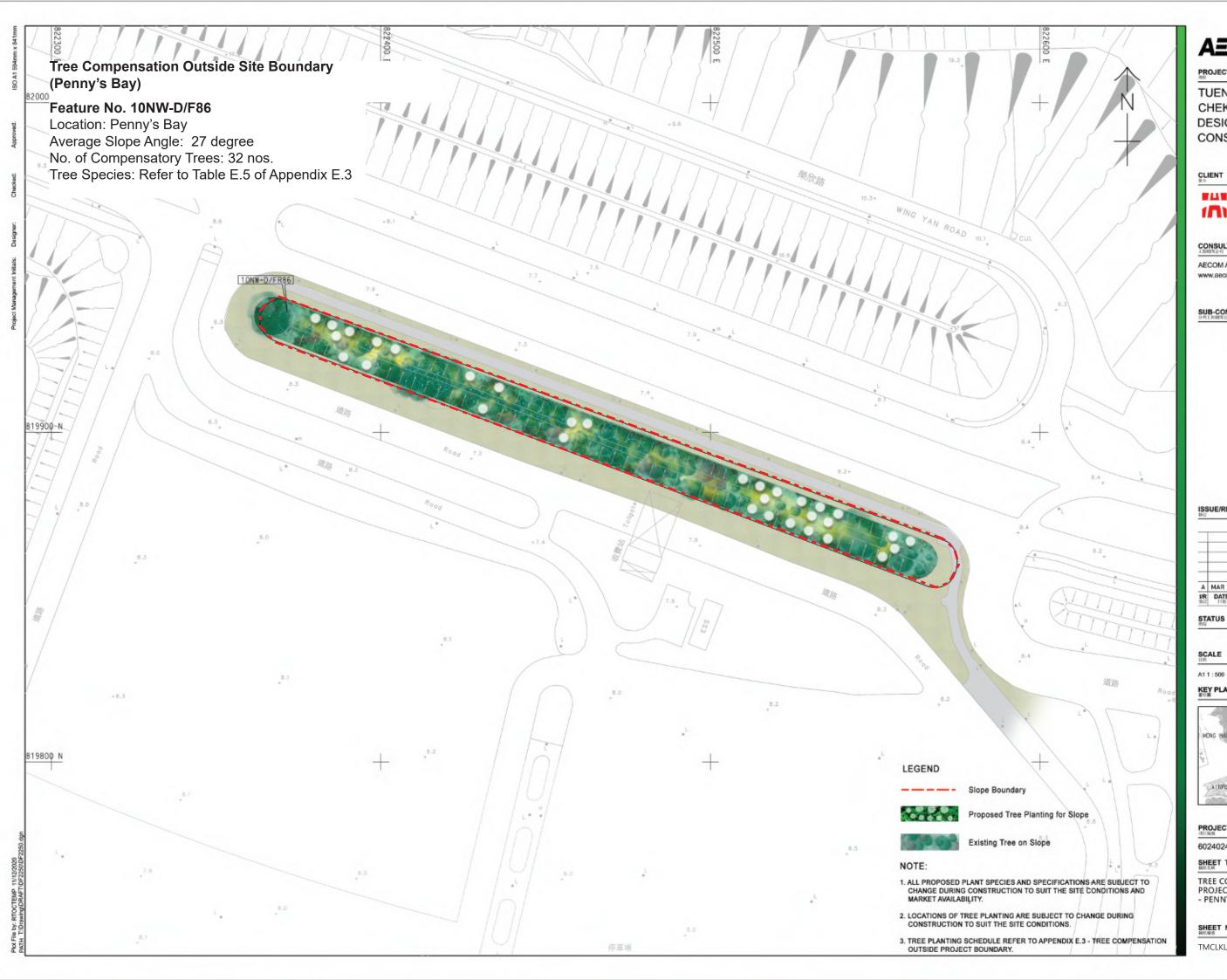
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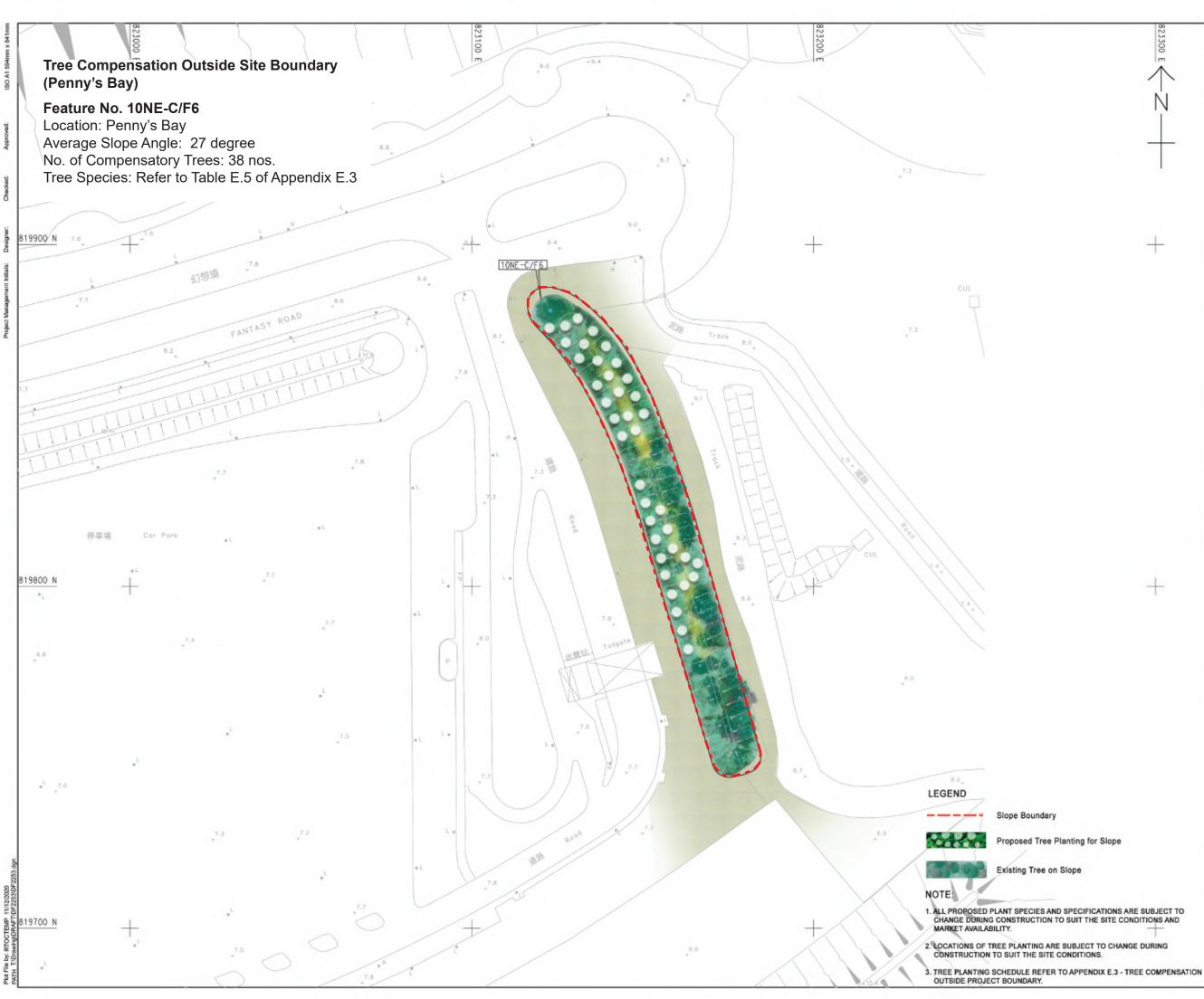
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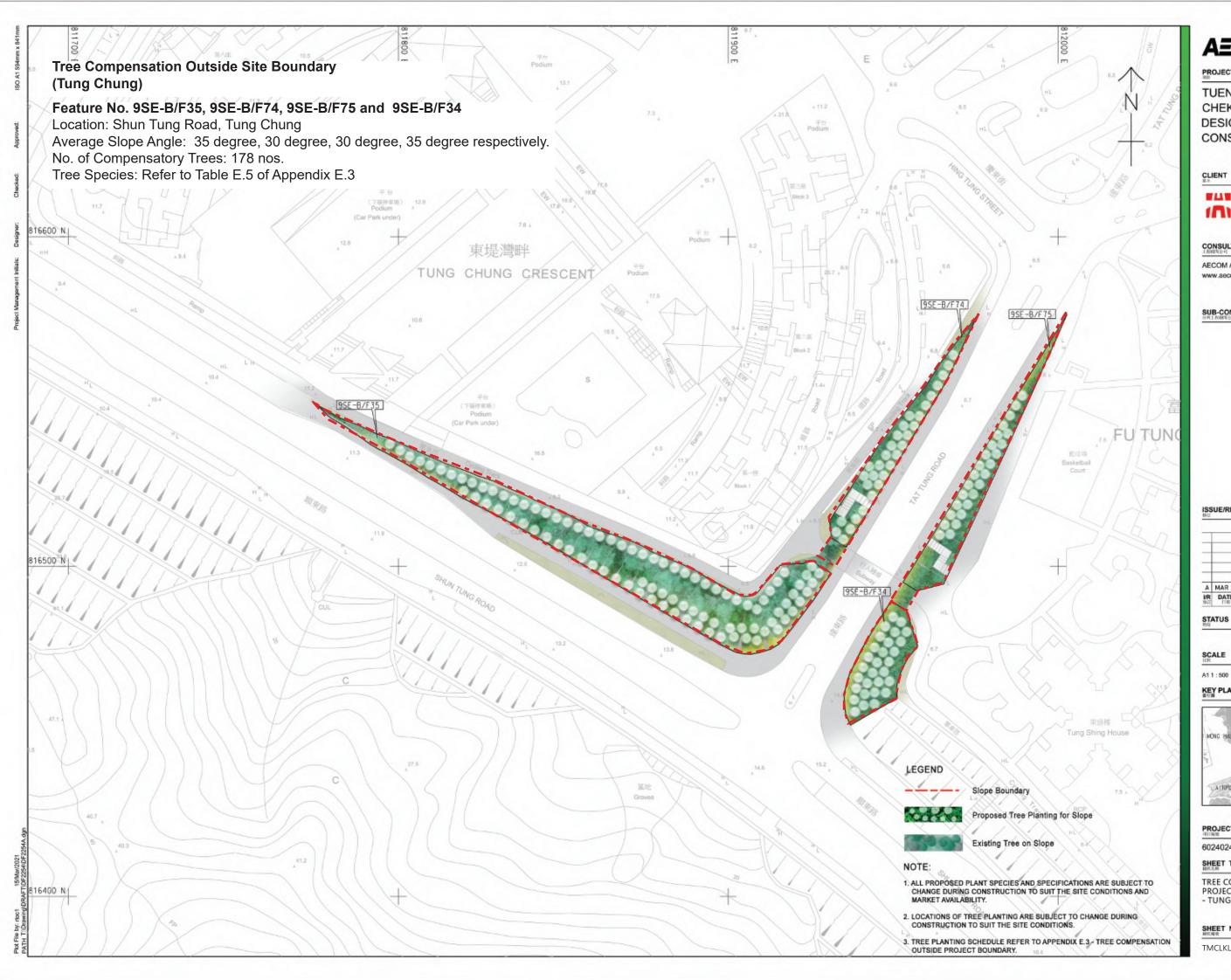
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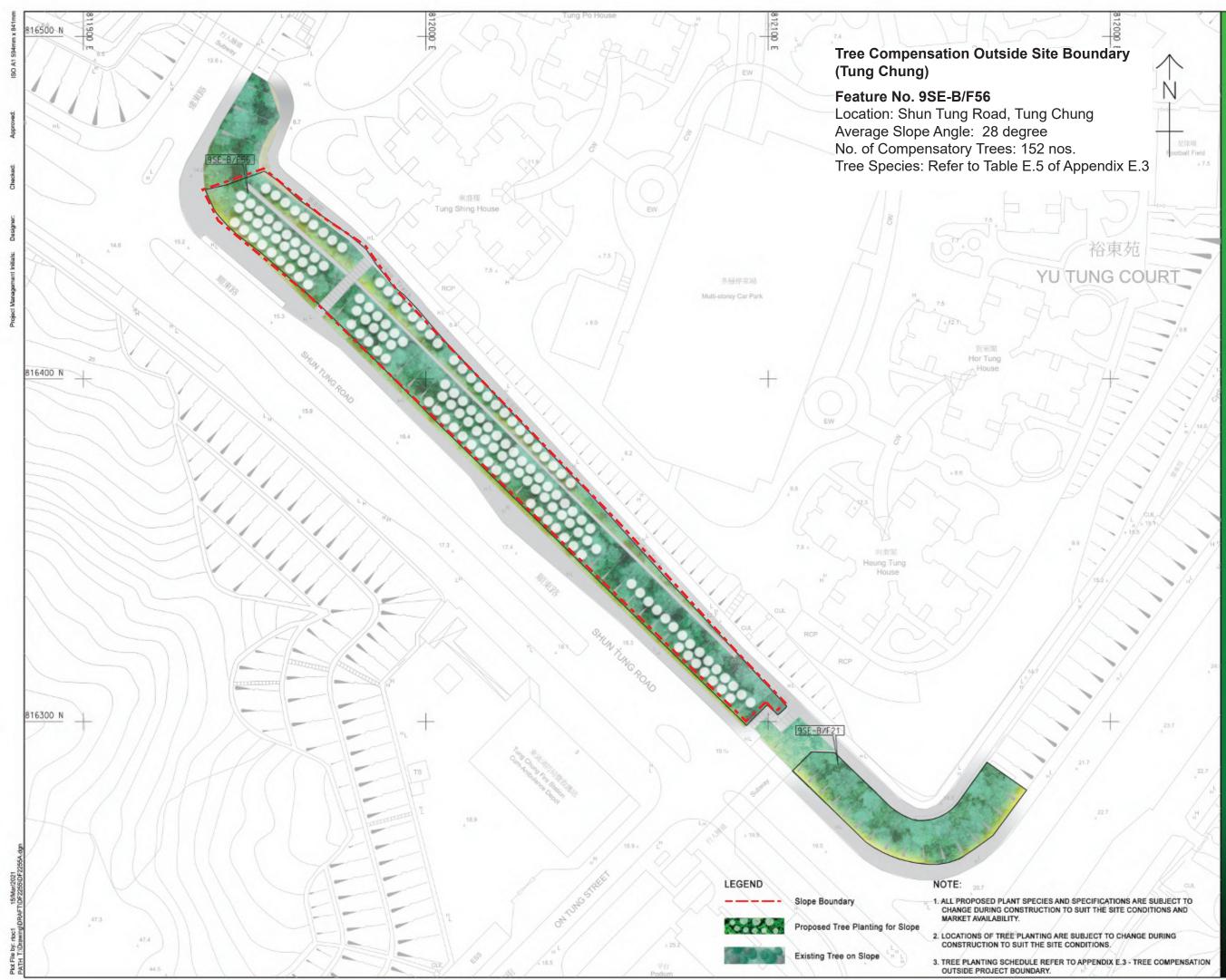
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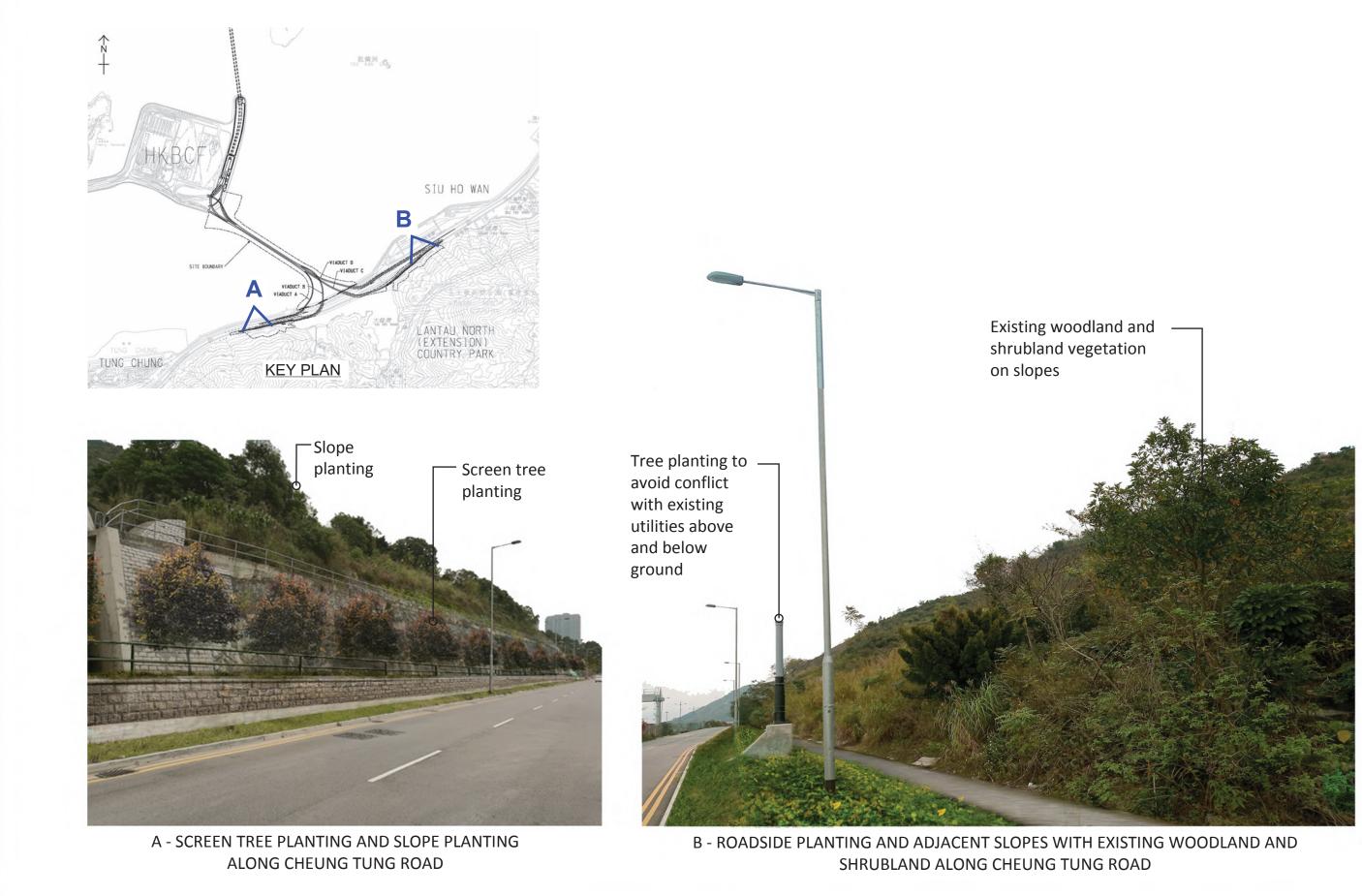
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Appendix F

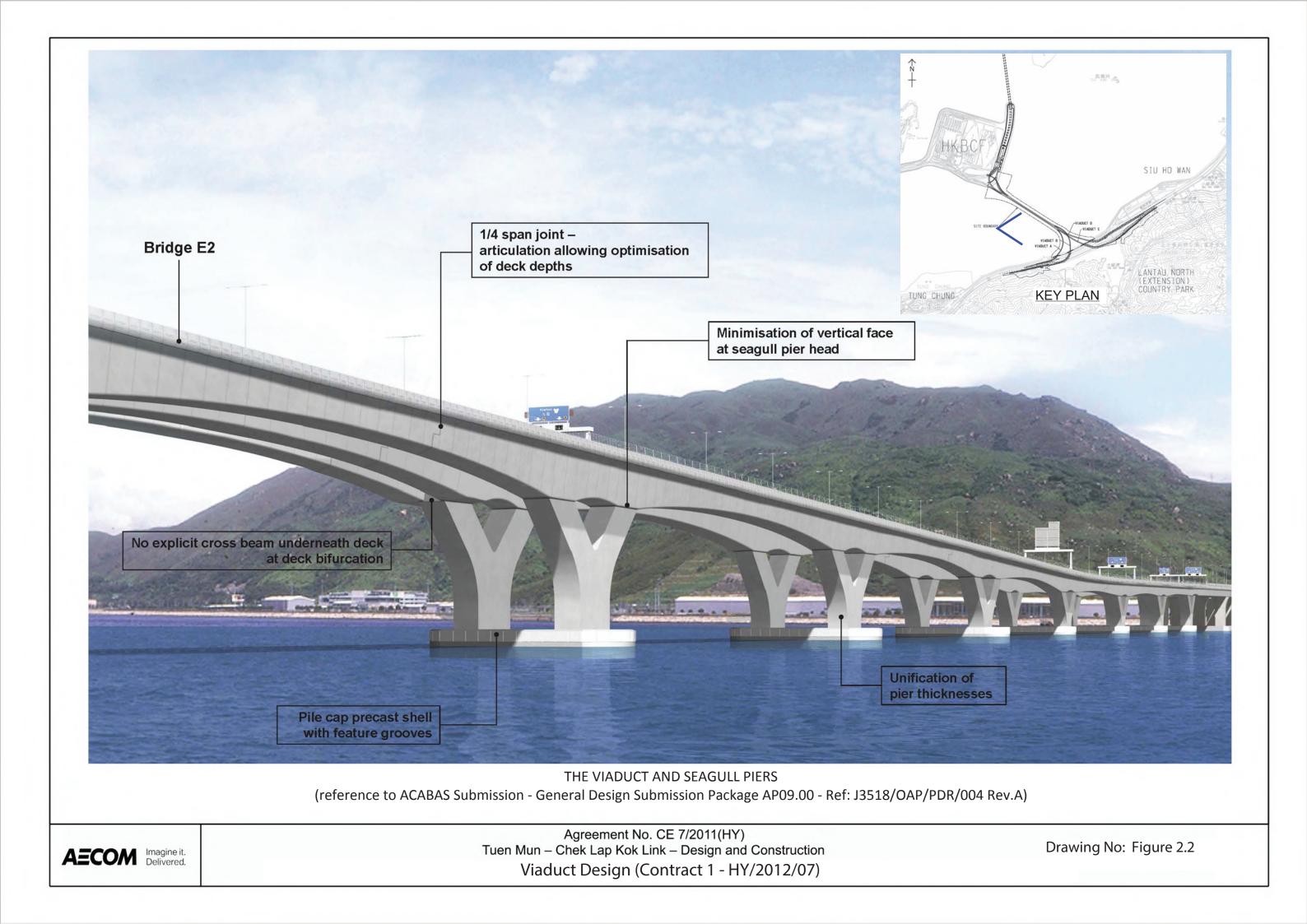
Implementation of Mitigation Measures

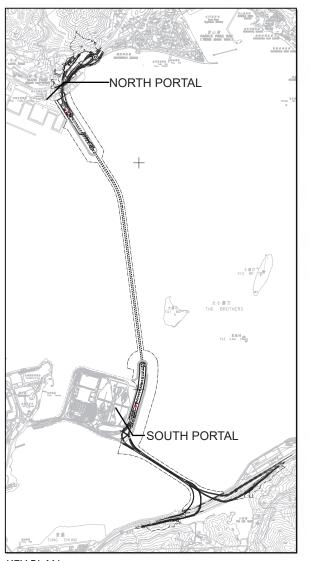


AECOM Imagine it. Delivered.

Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Roadside Planting and Preservation of Existing Woodland (Contract 1 - HY/2012/07)

Drawing No: Figure 2.1





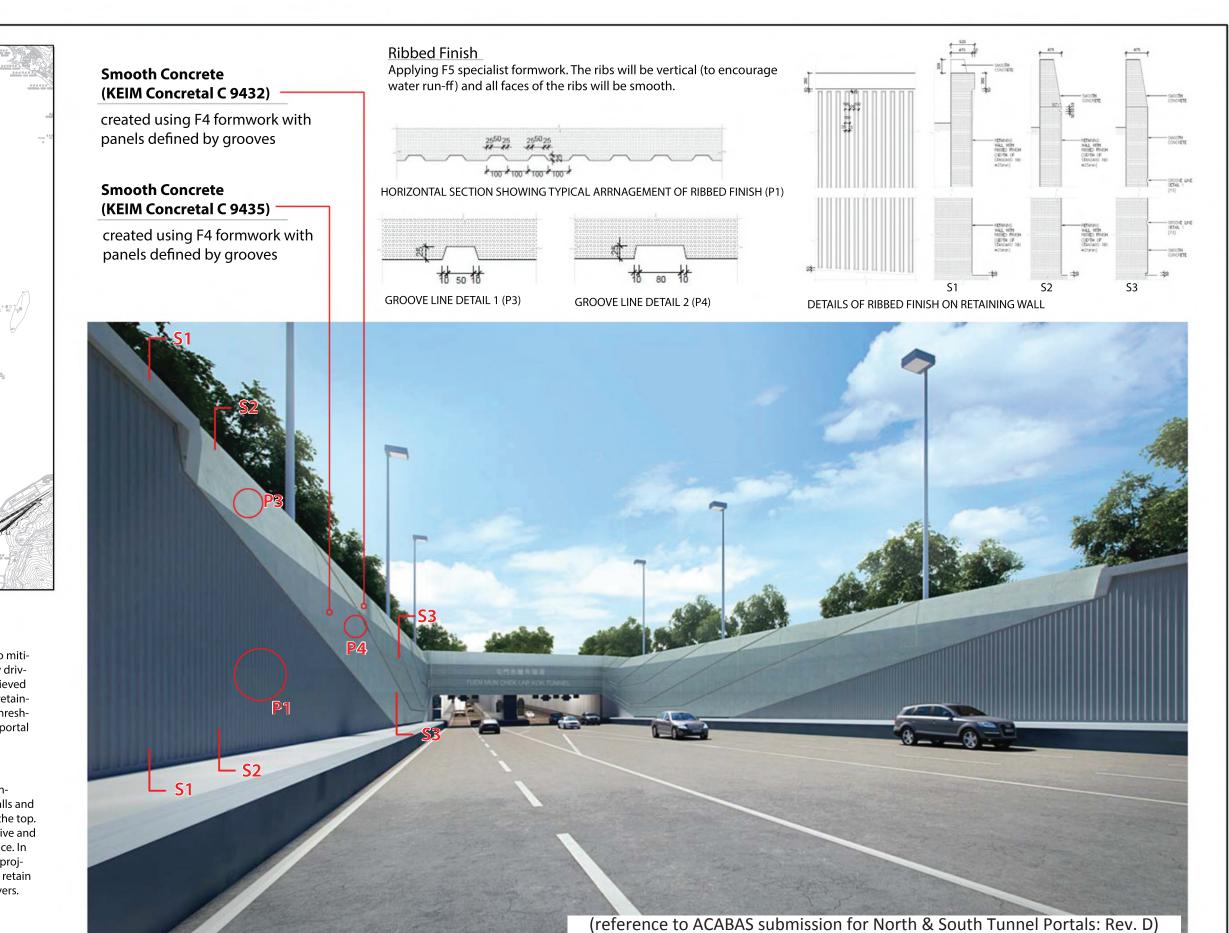


Practical

The pattern on the retaining wall is intended to mitigate the potential abrupt change perceived by drivers entering and leaving the tunnel. This is achieved by gradual change of concrete texture on the retaining wall such that drivers will have a sense of threshold when they are approaching or leaving the portal entranc

Aesthetic

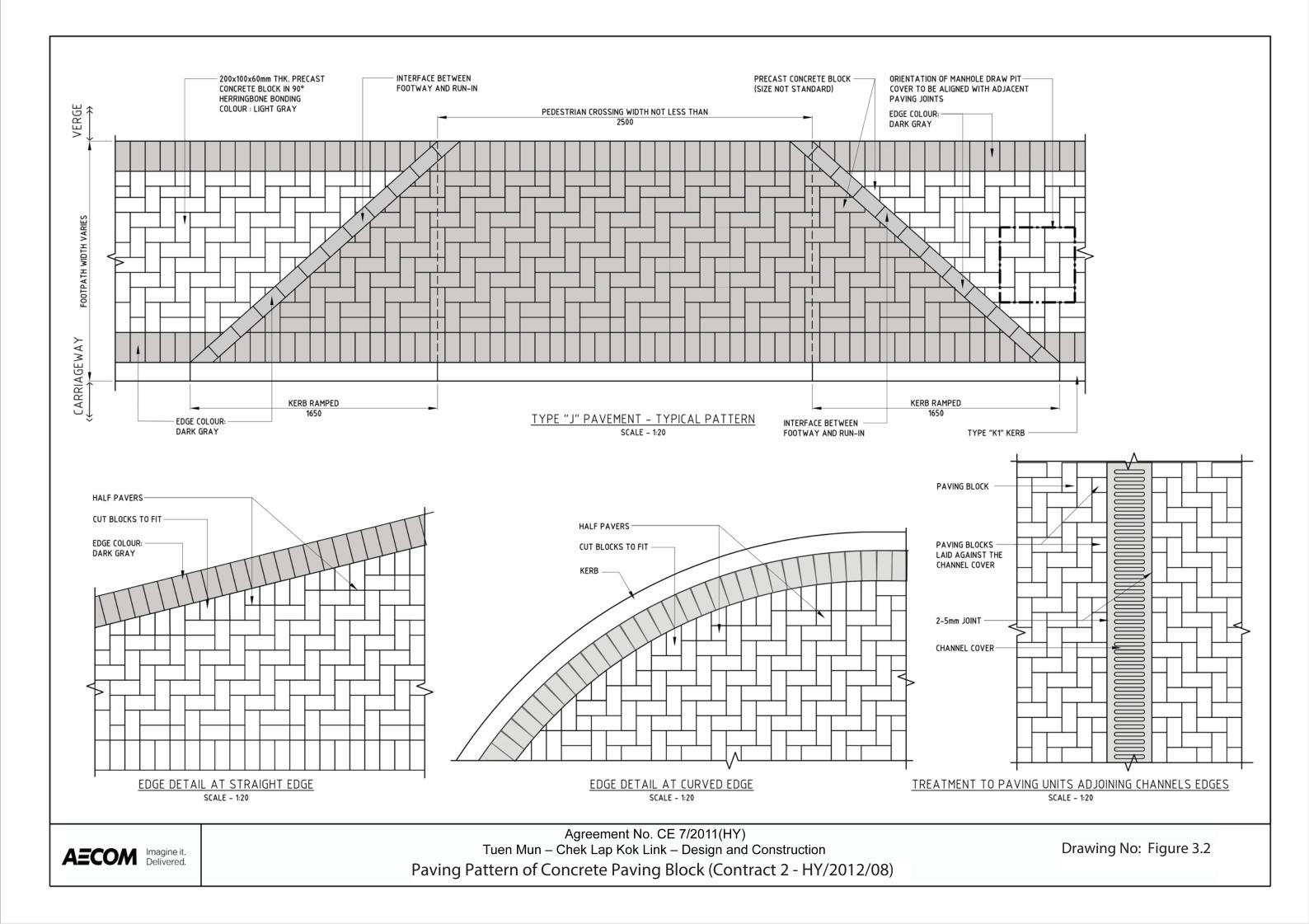
A welcoming architectural feature for tunnel entrance is created by visually joining the side walls and portal together, with a simple incline detail at the top. The new architectural feature gives an impressive and welcoming symbol to match the tunnel entrance. In order to echo with the vehicular nature of this project, the gradual change of concrete texture on retain ing wall creates a sense of dynamics to the drivers.

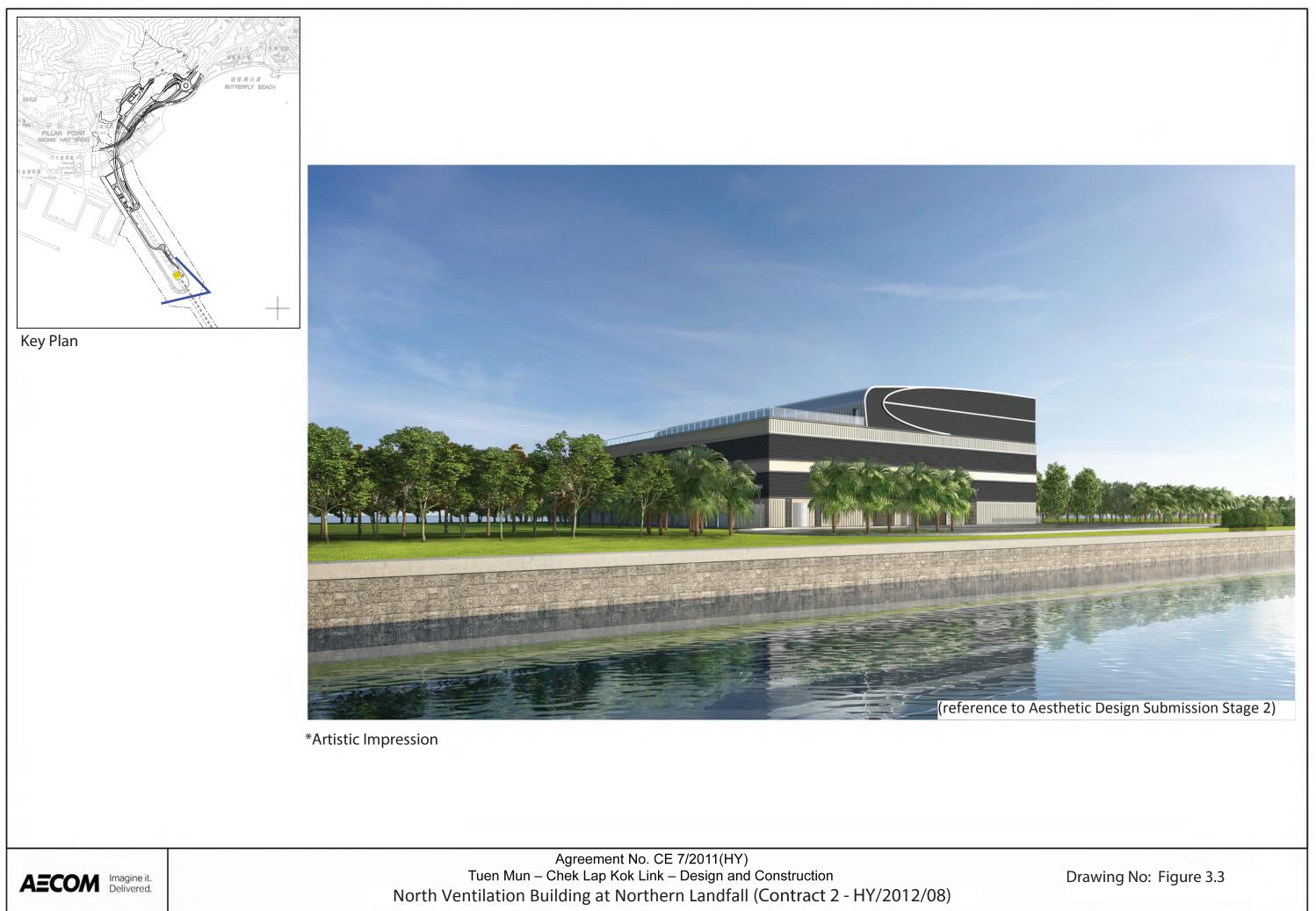


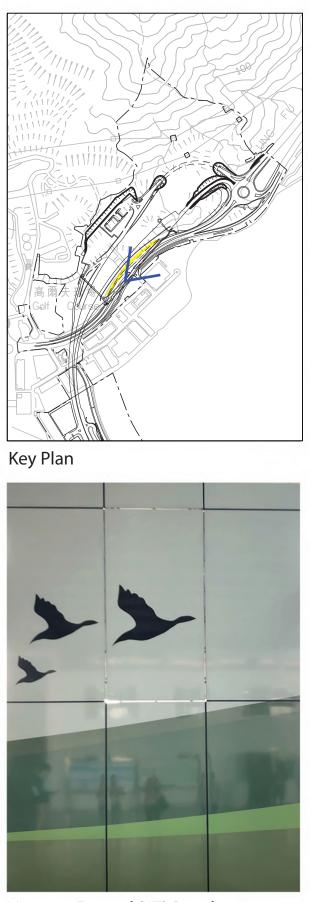


Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Aesthetic Design of North and South Portal at Landfalls (Contract 2 - HY/2012/08)

Drawing No: Figure 3.1







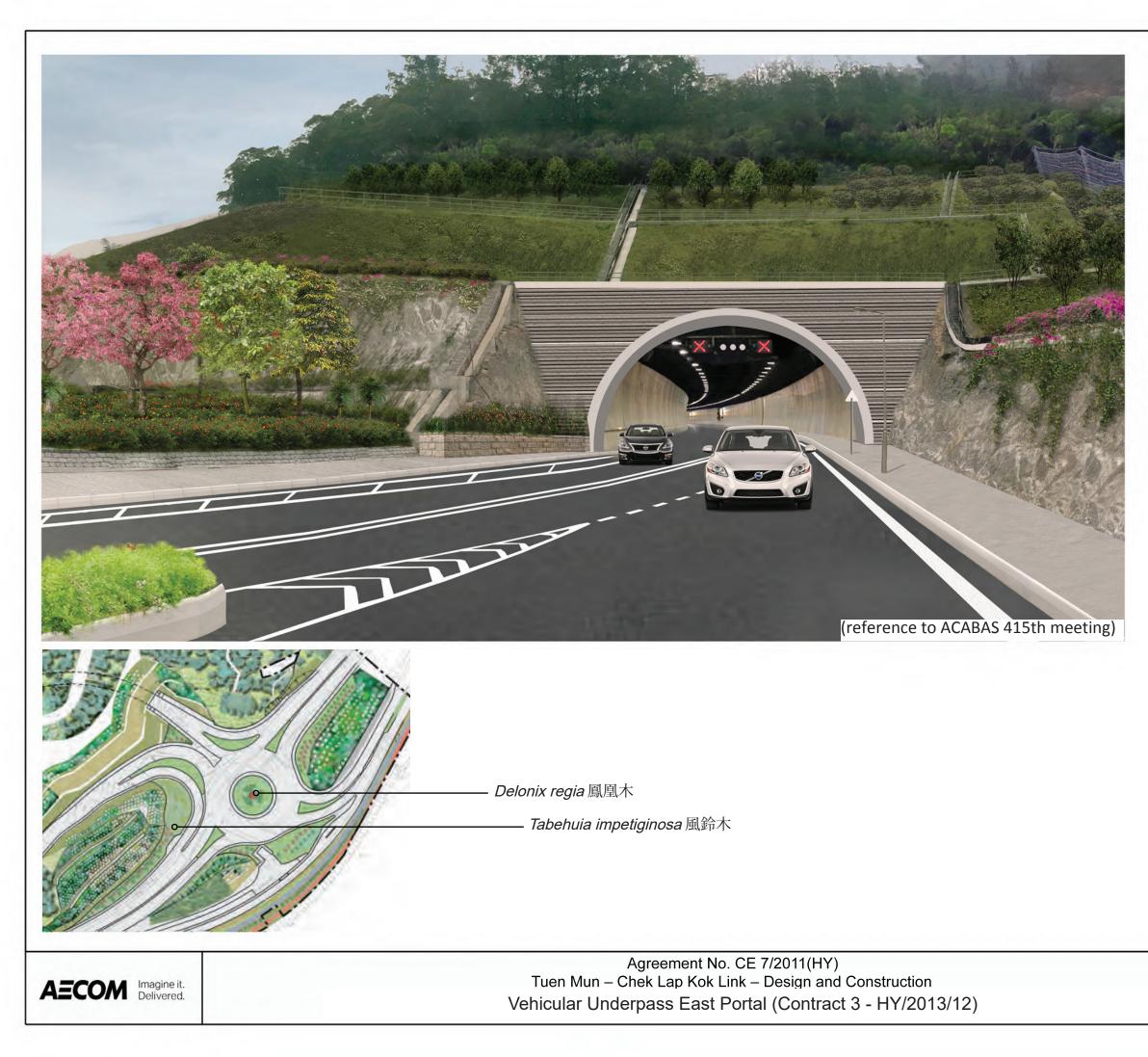


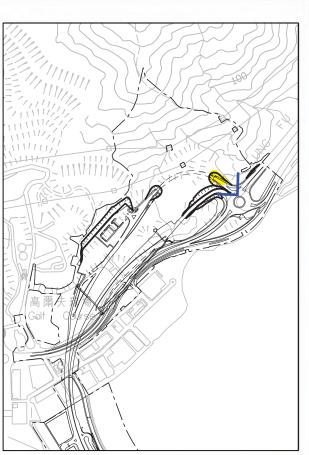
Vitreous Enamel (VE) Panel



Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Vitreous Enamel (VE) Panel at Retaining Wall RW_B (Contract 3 - HY/2013/12)

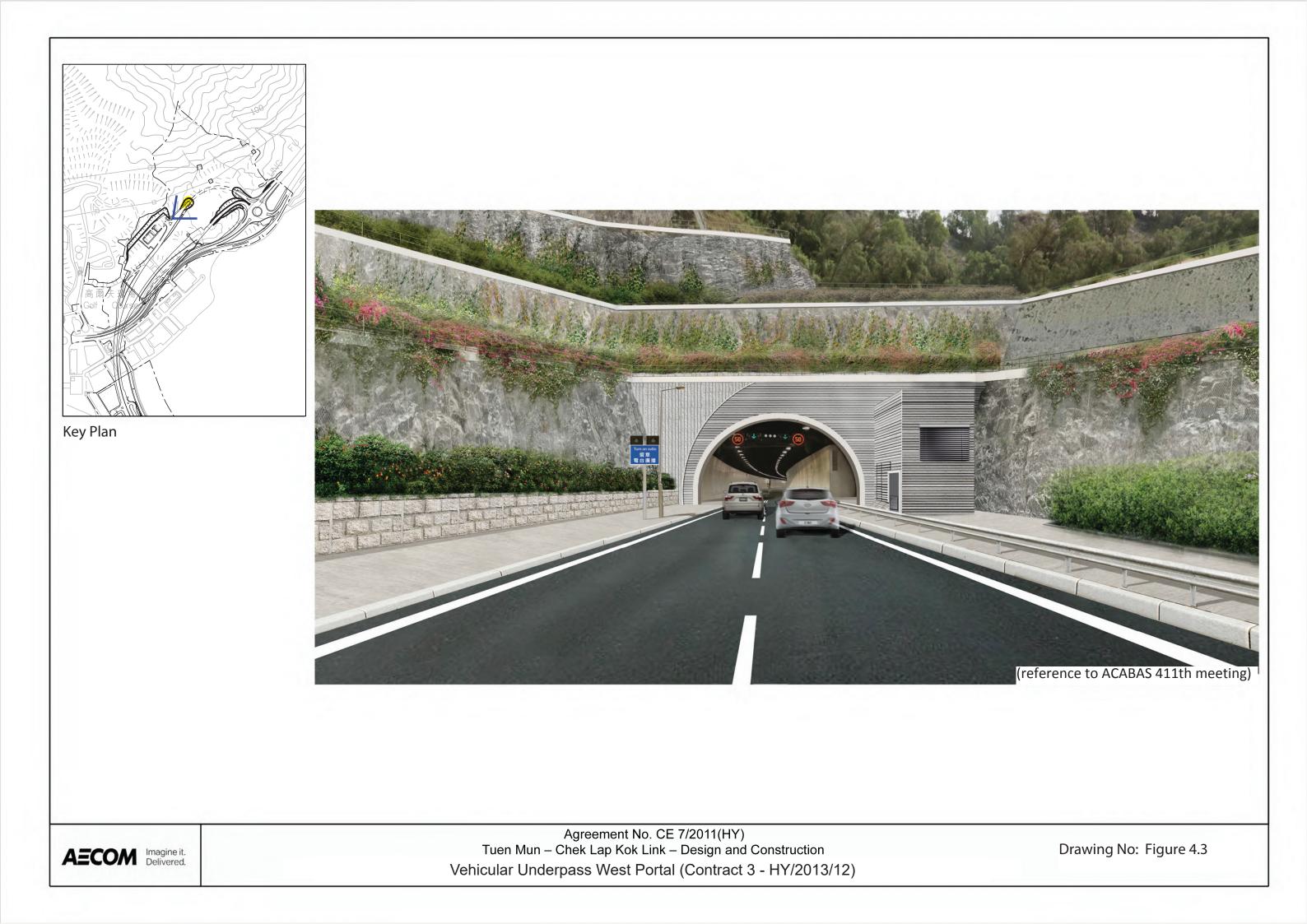
Drawing No: Figure 4.1





Key Plan

Drawing No: Figure 4.2

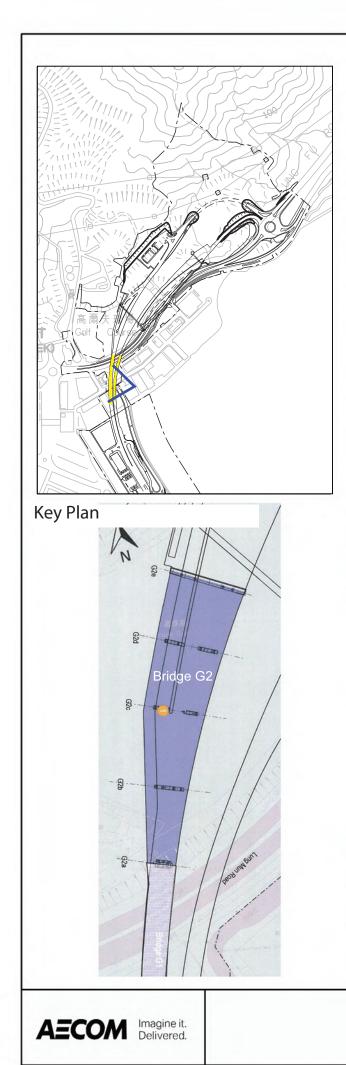


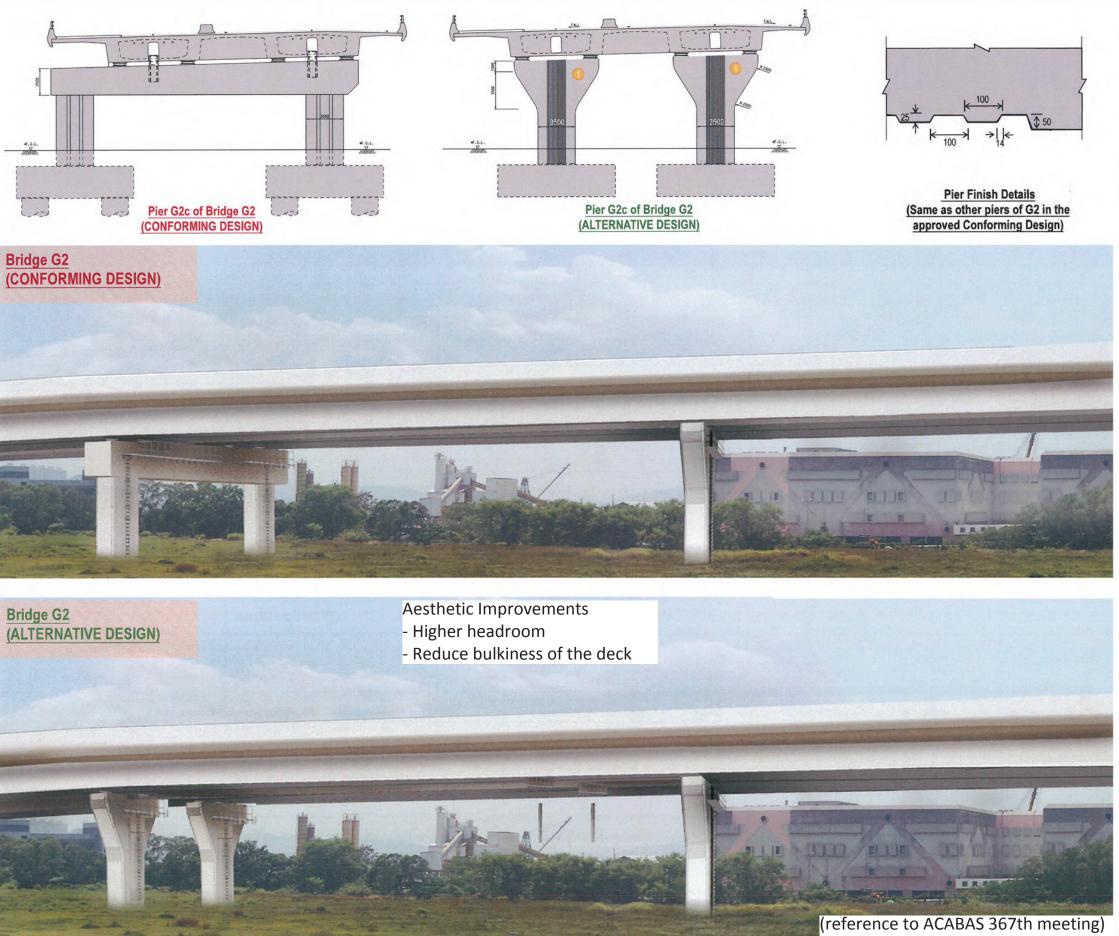




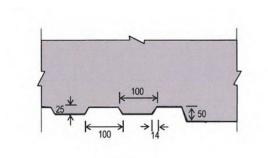


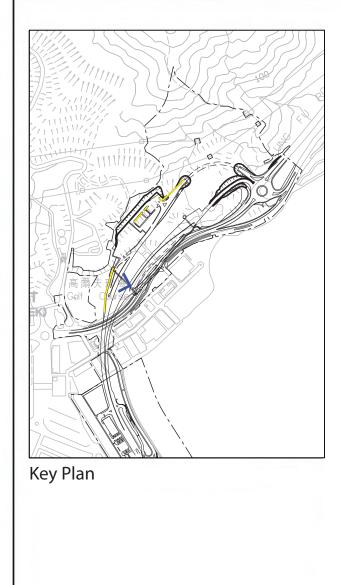
Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Footbridge (Contract 3 - HY/2013/12) (reference to ACABAS 319th meeting)





Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Viaduct Bridge G2 (Contract 3 - HY/2013/12)





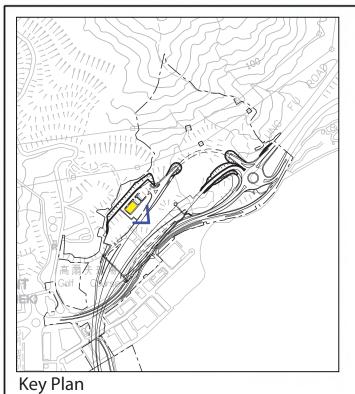


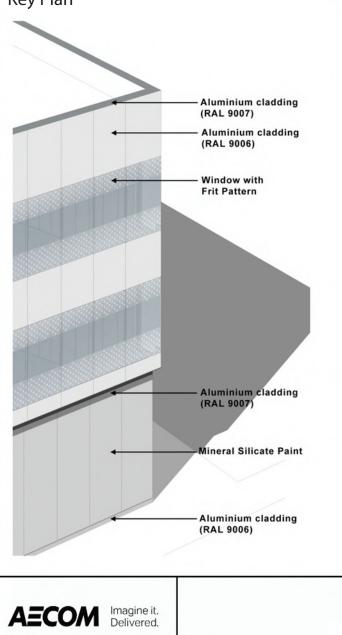
Paving bands in rhythm dark grey and light grey pattern

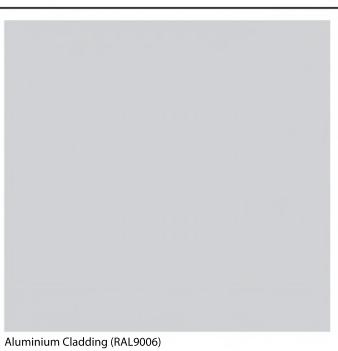




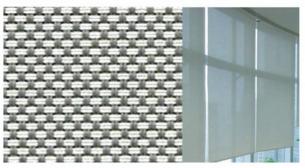
Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Paving Pattern at Deck (Contract 3 - HY/2013/12)













Aluminium Cladding (RAL9007)

Vertical Blind



Stainless Steel in Satin Finish

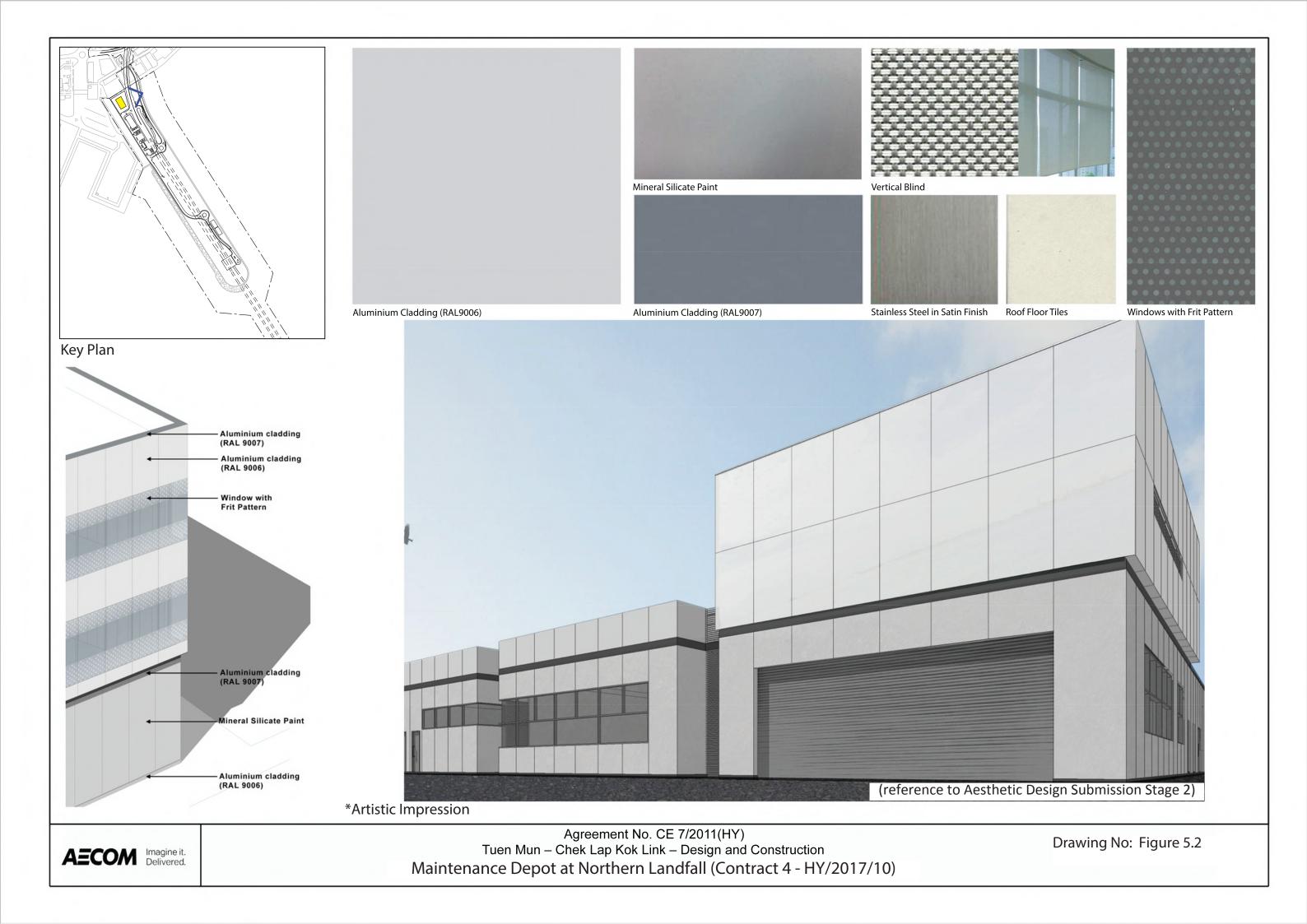


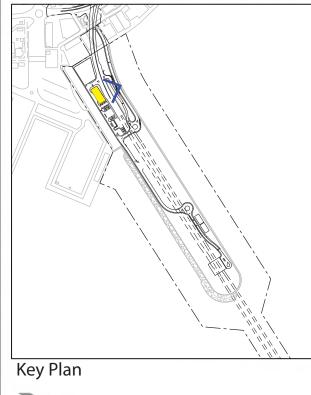
Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Main Control Building (Contract 4 - HY/2017/10)



Roof Floor Tiles



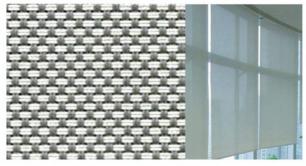








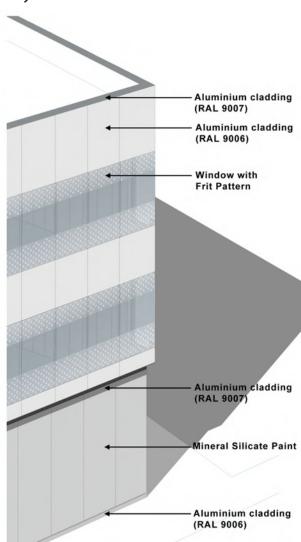
Aluminium Cladding (RAL9007)



Vertical Blind



Stainless Steel in Satin Finish





*Artistic Impression

Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Administration Building at Northern Landfall (Contract 4 - HY/2017/10)

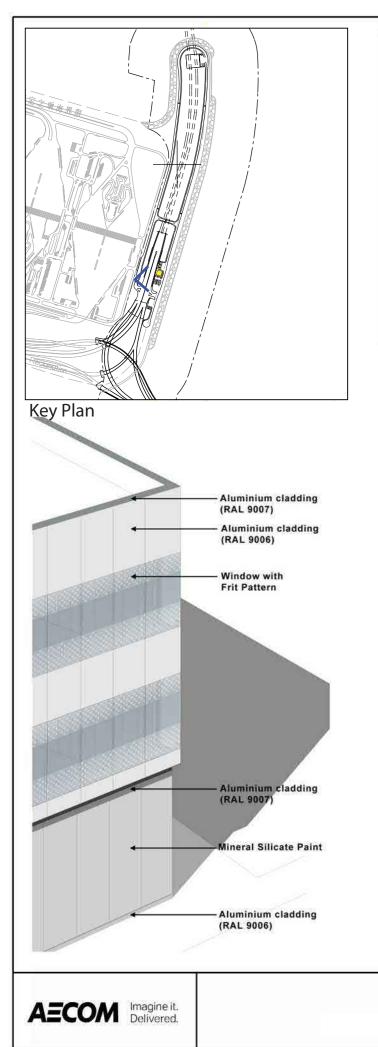




Roof Floor Tiles



Windows with Frit Pattern







Aluminium Cladding (RAL9007)

Stainless Steel in Satin Finish

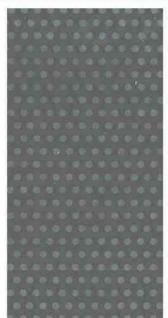


Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Satellite Control Building at Southern Landfall (Contract 4 - HY/2017/10)

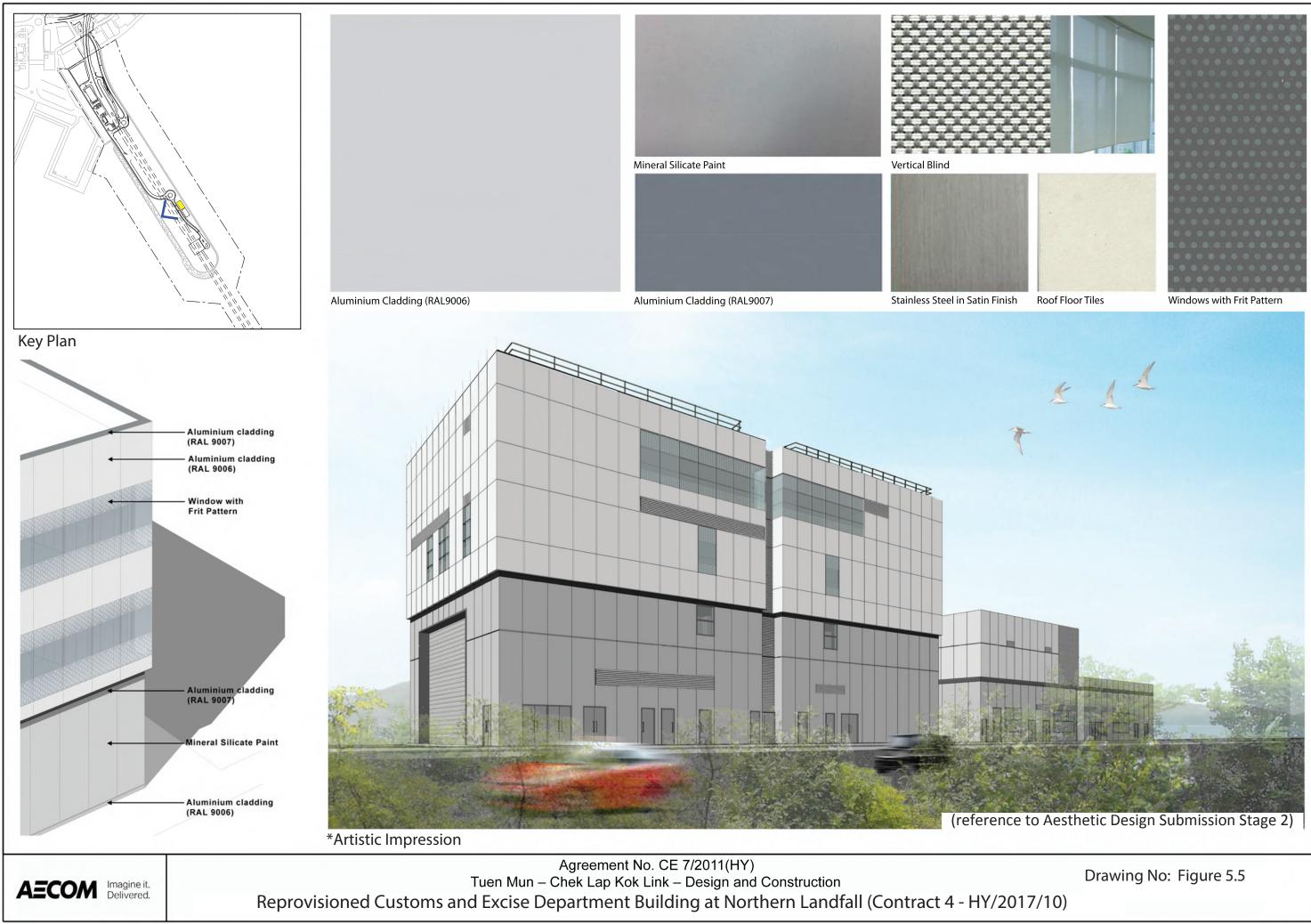


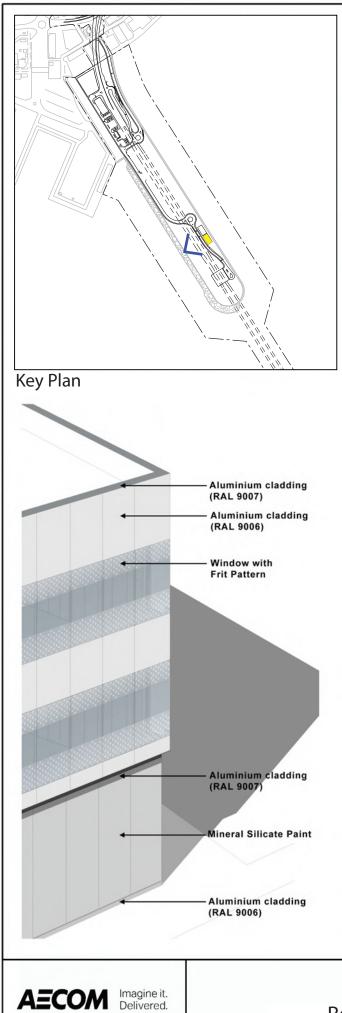


Roof Floor Tiles

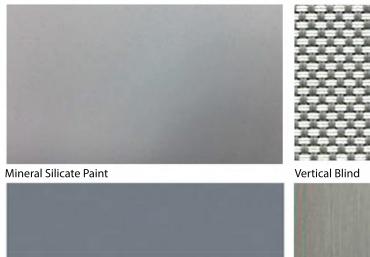


Windows with Frit Pattern

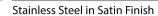




Aluminium Cladding (RAL9006)



Aluminium Cladding (RAL9007)

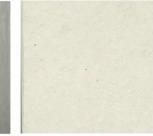




*Artistic Impression

Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Reprovisioned Fire Services Department Building at Northern Landfall (Contract 4 - HY/2017/10)

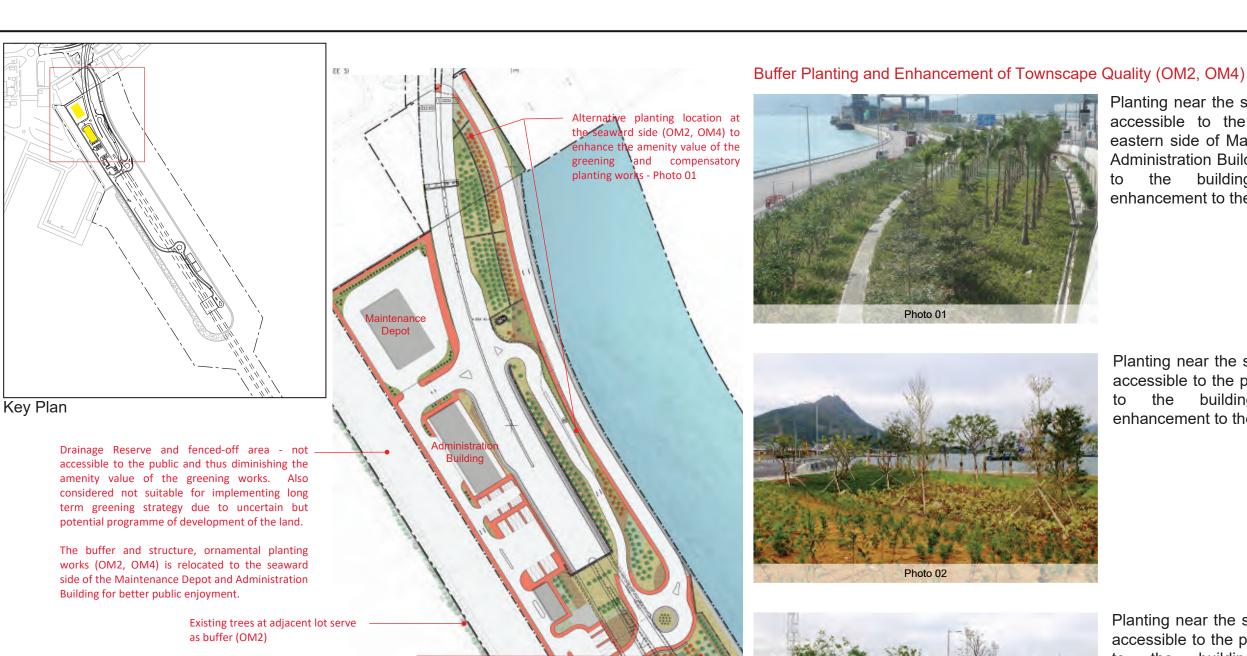




Roof Floor Tiles



Windows with Frit Pattern



Alternative planting location at the seaward side (OM2, OM4) to enhance the amenity value of the greening and compensatory planting works - Photo 02 and Photo 03

Photo 03



Agreement No. CE 7/2011(HY) Tuen Mun - Chek Lap Kok Link - Design and Construction Drawing No: Figure 5.7 Buffer Planting and Enhancement of Townscape Quality at Northern Landfall (Contract 4 - HY/2017/10)

Planting near the seaward side which is accessible to the public (i.e. at the eastern side of Maintenance Depot and Administration Building) serves as buffer to the building structures and enhancement to the townscape quality.

Planting near the seaward side which is accessible to the public serves as buffer to the building structures and enhancement to the townscape quality.

Planting near the seaward side which is accessible to the public serves as buffer to the building structures and enhancement to the townscape quality.

Key Plan

Maintenance Depot with Emergency Vehicular Access (EVA), Training Ground Area, Detention Area, Car parking spaces. The locations and sizes of planters are maximized to avoid obstructing the operational needs of the Maintenance Depot.

Drainage Reserve and fenced-off area - not accessible to the public and thus diminishing the amenity value of the greening works. Also considered not suitable for implementing long term greening strategy due to uncertain but potential programme of development of the land.

> Existing trees at adjacent lost serve as buffer (OM2) - Photo 01, Photo 02 and Photo 03

Raised lanter east of Maintenance Depot, against retaining wall under Contract No. HY/2013/12 (OM2, OM4) -Photo 06

Planter north of Maintenance Depot (OM2, OM4) at the back lane; low buffer blanting for safety and security purpose Photo 03 to Photo 05

Planters at entrance Maintenance Depot (OM2, OM4) vith tree planting as buffer nting - Photo 01 and Photo 02

Buffer and Structure, Ornamental Planting surrounding Maintenance Depot (OM2, OM4)









Photo 01, Photo 02: Buffer tree planting (OM2) and structure, ornamental planting (OM4) at entrance of Maintenance Depot; locations and sizes of planters are maximized to avoid obstructing the operational needs of the Maintenance Depot. Existing trees at the adjacent lot serves as buffer (OM2).

Photo 03, Photo 04, Photo 05: Buffer shrub planting (OM2) and structure, ornamental planting (OM4) at the back lane of Maintenance Depot. The back lane which is a remote area should be kept in open view for safety and security purpose, therefore, low planting is suitable to keep the view open. Locations and sizes of planters are maximized to avoid obstructing the operational needs of the Maintenance Depot.

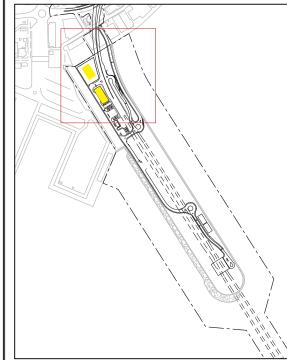


Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction

Buffer and Structure, Ornamental Planting at Maintenance Depot and Administration Building (Contract 4 - HY/2017/10)



Photo 06: Raised planter for shrub planting against retaining wall of the viaduct at the east of Maintenance Depot (OM2, OM4) under Contract No. HY/2013/12, serves as buffer to the engineering structures and enhancement to the townscape quality.



Key Plan

Planters at Administration Building; locations and sizes of planters are maximized to avoid obstructing the operational and security needs of the Administration Building. Buffer and structure low shrub planting (OM2, OM4) is designed at the roadside planters to avoid obstructing sightlines for safe driving at turning corners. - Photo 01 and Photo 02

> Drainage Reserve and fenced-off area - not accessible to the public and thus diminishing the amenity value of the greening works. Also considered not suitable for implementing long term greening strategy due to uncertain but potential programme of development of the land.

> > Existing trees at adjacent lot serve as buffer (OM2)

Planter east of Administration Building, against wall of tunnel portal (OM2, OM4) with low buffer planting for safety and security purpose

Photo 03 and Photo 04

Buffer and Structure, Ornamental Planting surrounding Administration Building (OM2, OM4)



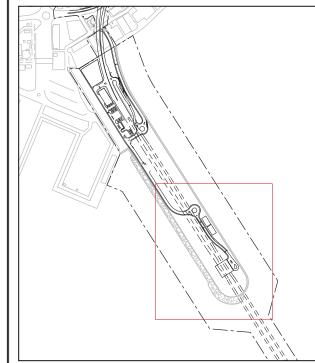


Photo 01, Photo 02: Planters at Administration Building serve as buffer to the engineering structures and enhancement to the townscape quality (OM2, OM4). Locations and sizes of planters are maximized to avoid obstructing the operational and security needs of the Administration Building. Buffer and structure, low ornamental shrub planting is purposely designed at the roadside planters to avoid obstructing sightlines for safe driving at turning corners.

Photo 03, Photo 04: Planters at Administration Building serve as buffer to the engineering structures and enhancement to the townscape quality (OM2, OM4). Locations and sizes of planters are maximized to avoid obstructing the operational and security needs of the Administration Building. Buffer and structure, low ornamental shrub planting is purposely designed at the planter against the wall of tunnel portal to avoid leaves and twigs blowing over and falling to the ramp of the sub-sea tunnel causing safety hazard to road users and to allow the essential open view from the adjacent Administration Building to monitor the road condition at the entrance/exit of the sub-sea tunnel by the tunnel operator to ensure smooth and safe operation.



Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Buffer and Structure, Ornamental Planting at Maintenance Depot and Administration Building (Contract 4 - HY/2017/10)



Key Plan

Tree planting set at 10m from the sloping seawall and 15m from the vertical seawall to address CEDD's concern on planting close to the seawall, and the locations of tree planting (OM2, OM4) within the Potential Highways Department Depot Area are maximized to avoid obstructing the operational needs of the Depot. - Photo 01

Tree planting set at 10m from the sloping seawall and 15m from the vertical seawall to address CEDD's concern on planting close to the seawall, and the locations of tree planting (OM2, OM4) within the Potential Highways Department Depot Area are maximized to avoid obstructing the operational needs of the Depot. - Photo 02

> Potential Highways Department Depot Area under application for temporary government land allocation (TGLA)

> > Tree planting set at 10m from the sloping seawall and 15m from the vertical seawall to address CEDD's concern on planting close to the seawall, and the locations of tree planting (OM2, OM4) within the Potential Highways Department Depot Area are maximized to avoid obstructing the operational needs of the Depot. - Photo 03

Buffer Planting and Enhancement of Townscape Quality (OM2, OM4)



Tree planting set at 10m from the sloping seawall and 15m from the vertical seawall to address CEDD's concern on tree planting close to the seawall. In addition, the locations of tree planting (OM2, OM4) within the Potential Highways Department Depot Area are maximized to avoid obstructing the operational needs of the Potential Depot.



Photo 02

Photo 03



Tree planting set at 10m from the sloping seawall and 15m from the vertical seawall to address CEDD's concern on tree planting close to the seawall. In addition, the locations of tree planting (OM2, OM4) within the Potential Highways Department Depot Area are maximized to avoid obstructing the operational needs of the Potential Depot.



Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Buffer Planting and Enhancement of Townscape Quality at Northern Landfall (Contract 4 - HY/2017/10)

As a result of these conditions, one row of tree planting is feasible along a section of the western seawall.

Tree planting set at 10m from the sloping seawall and 15m from the vertical seawall to address CEDD's concern on tree planting close to the seawall. In addition, the locations of tree planting (OM2, OM4) within the Potential Highways Department Depot Area are maximized to avoid obstructing the operational needs of the Potential Depot.

At the southwestern section of the seawall, it is feasible to provide more than one row of trees without obstructing the operational needs of the Potential Depot and at the same time could address the concern of CEDD on tree planting close to the seawall.

At the southern and southwestern section of the seawall, it is feasible to provide more than one row of trees without obstructing the operational needs of the Potential Depot and at the same time could address the concern of CEDD on tree planting close to the seawall.

Slope Planting

CODE	DE BOTANICAL NAME CHINESE NAME SIZE (mm) HEIGHT (H) X SPREAD (S)		SPACING (mm)	
WHIP	To the second		 Alterative contrast with the title of the Article Article contrast of the Article of	3534930
BRI.TOM.	Bridelia tomentosa *	土蜜樹	WHIP	1500-2000
GOR.AXI.	Gordonia axillaris *	大頭茶	WHIP	1500-2000
LIT.GLU.	Litsea glutinosa *	漏橋樹	WHIP	1500-2000
PHY.EMB.	Phyllanthus emblica *	餘甘子	WHIP	1500-2000
REE.THY.	Reevesia thyrsoidea *	梭羅樹	WHIP	1500-2000
TREE	9.			
BAU.VAR.	Bauhinia variegata	宫粉羊蹄甲	LIGHT STANDARD/ STANDARD	4000
BOM.CEI.	Bombax ceiba	木棉	LIGHT STANDARD	4000-5000
BRI.TOM.	Bridelia tomentosa *	土蜜樹	LIGHT STANDARD	3000
CIN.BUR.(A)	Cinnamomum burmannii *	陰香	LIGHT STANDARD	4000
MELAZE (A)	Melia azedarach	苦楝	LIGHT STANDARD	4000
PLU,RUB.	Plumeria rubra	雞蛋花	HEAVY STANDARD 2000 (H) X 2000 (S)	3500-4000
PALM			I SATURATION INTO A SATURATION IN THE	NO. 751 (NO. 1877
CAR.MIT.	Caryota mitis	短穗魚尾葵	2500(H) x 1500(S)	2500
LIV.CHI.	Livistona chinensis	浦葵	1500-2500(H) X 1500(S)	3500-4000
PHO.ROE.	Phoenix roebelenii	日本葵	2000(H) x 1500(S)	2000
WAS. ROB.	Washingtonia robusta	華盛頓葵	1500 - 2500(H) X 1500(S)	3500-4000
SHRUB				
CAL.HAE.	Calliandra haematocephala	紅絨球	300(H) X 300(S)	1000
FIC.MIC.'GOL'	Ficus microcarpa 'Golden Leaf'	黄榕	300(H) X 300(S)	500
GAR.JAS.	Gardenia jasminoides *	白蟬	300(H) x 300(S)	500
GOR.AXI.	Gordonia axillaris *	大頭茶	500(H) X 500(S)	500
HIB.ROS.	Hibiscus rosa-sinensis	大紅花	300(H) x 300(S)	1000
LIG.SIN.	Ligustrum sinense *	山指甲	300(H) x 300(S)	500
MEL.CAN.	Melastoma candidum *	野牡丹	300(H) X 300(S)	500
MELSAN.	Melastoma sanguineum *	毛蕊	300(H) X 300(S)	500
NER.OLE.	Nerium oleander	夾竹桃	300(H) X 300(S)	1000
PIT.TOB.	Pittosporum tobira *	海桐花	300(H) x 300(S)	500
PSY. ASI.	Psychotria asiatica *	九節	300(H) x 300(S)	500
RHO.SIM.	Rhododendron simsii *	紅杜鵑	300(H) x 300(S)	500
RHO.TOM.	Rhodomyrtus tomentosa *	桃金娘	300(H) X 300(S)	500
SCH.ARB.	Schefflera arboricola	八葉	300(H) x 300(S)	500
GROUNDCOV		4. 5.0657		A 2012 20 10
HYM.LIT.	Hymenocallis littoralis	蜘蛛蘭	300(H) X 300(S)	300
CLIMBER				(Charles Start)
EPI.AUR.	Epipremnum aureum	綿羅	MIN, 4 SHOOTS PER PLANT, 300mm LONG	500
FIC.PUM.	Ficus pumila *	薛荔	MIN. 3 SHOOTS PER PLANT, 300- 1000mm LONG	300
LON.JAP.	Lonicera japonica *	金銀花	MIN, 4 SHOOTS PER PLANT, 600mm LONG	500
PAR.DAL.	Parthenacissus dalzielii	爬墙虎	MIN. 3 SHOOTS PER PLANT, 600- 1000mm LONG	300/500
HYDROSEED	and a place of the lateral of a strategy before a set	1	5	
6	HYDROSEEDING	噴草	¥	8 4 8

Roadside Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
TREE		ALC: LEWIS ALC: MAN	Fill a traction debidition of the base of the second se	
BAU.BLA	Bauhinia x blakeana * +	洋紫荊	HEAVY STANDARD	5000
BAU.VAR.	Bauhinia variegata	宮粉羊蹄甲	LIGHT STANDARD/ STANDARD/ HEAVY STANDARD	4000 - 5000
GAR.SUB.	Garcinia subelliptica +	菲島福木	LIGHT STANDARD	4000-5000
GRE.ROB.(H)	Grevillea robusta	銀樺	HEAVY STANDARD	5000
ILE.ROT.	Ilex rotunda	鐵冬青	HEAVY STANDARD	5000
LAG.SPE.	Lagerstroemia speciosa	大花紫薇	HEAVY STANDARD	4000-4500
PEL.TON.	Peltophorum tonkinense +	銀珠	HEAVY STANDARD	5000
PLU.RUB.	Plumeria rubra	雞蛋花	HEAVY STANDARD 2000(H) × 2000(S) - 2500(H) × 2500(S)	4000
TAB.IMP	Tabebuia impetiginosa	風鈴木	HEAVY STANDARD	5000
VIB.ODO.	Viburnum odoratissimum * +	珊瑚樹	HEAVY STANDARD	5000
PALM				
ARE.CAT.	Areca catechu +	檳榔	4000(H)	4000
CAR.MIT.	Caryota mitis +	短穗魚尾葵	2500(H)	750
LIV.CHI.	Livistona chinensis	蒲葵	2500(H) x 1500(S)	3500-4000
PHO.SYL.	Phoenix sylvestris	銀海巖	2000(H) x 1500(S)	4000
SHRUB		30.00.000		1000
ALL.CAT.	Allamanda cathartica	軟枝黄蟬	300(H) X 300(S)	300/350
DUR.REP.	Duranta repens	假蓮兣	300(H) x 250(S)	400
COD.VAR.'AUC'	Codiaeum variegatum "Aucubaefolium" +	瀾金榕	300(H) X 300(S)	300
COD.VAR.'RED'	Codiaeum variegatum 'Red' +	温金榕(紅色)	300(H) X 300(S)	300
FIC.MIC.'GOL'	Ficus microcarpa "Golden Leaf"	黄榕	300(H) X 300(S)	350/500
GAR.JAS.	Gardenia jasminoides *	白蝉	300(H) x 300(S)	500
GOR.AXI.	Gordonia axillaris *	大頭茶	300(H) X 300(S)	350
IXO.CHI.	Ixora chinensis * +	龍船花	300(H) x 300(S)	300
LIG.SIN.	Ligustrum sinense *	山指甲	300(H) x 250(S)	400
MEL.CAN.	Melastoma candidum *	野牡丹	300(H) X 300(S)	350
MEL.SAN.	Melastoma sanguineum *	毛葱	300(H) X 300(S)	350
NER.OLE.	Nerium oleander	夾竹桃	400(H) x 250(S) / 300(H) X 300(S)	400/500
РІТ.ТОВ.	Pittosporum tobira *+	海桐花	300(H) x 300(S)	500
RHA.IND.	Rhaphiolepis indica * +	車輪梅	300(H) x 300(S)	300
RHO.TOM.	Rhodomyrtus tomentosa *	桃金娘	300(H) X 300(S)	350/500
SCH.ARB.	Schefflera arboricola +	八葉	300(H) x 300(S)	350/ 500
ZAM.FUR.	Zamia furfuracea +	牙買加蘇鐵	400(H) x 500(S)	500
GROUNDCOVE		4		
ARA DUR.	Arachis duranensis	金花生	100(H) x 200(S)	200
ASP.DEN.	Asparagus densiflorus 'Sprengeri' +	非洲天門冬	200(H) x 300(S)	200
HYM.LIT.	Hymenocallis littoralis	蜘蛛潮	300(H) X 300(S)	300
NEP.AUR.	Nephrolepis auriculata * +	臀蕨	250(H) x 250(S)	150
PHY.MYR.	Phyllanthus myrtifolius +	個蘭葉下珠	300(H) x 300(S)	300
TRA.SPA.	Tradescantia spathacea	蚌花	200(H) x 300(S)	250
WED.TRI.	Wedelia trilobata	三裂葉藪類菊	200(H) x 150(S)	300
CLIMBER		1	MIN. 4 SHOOTS PER PLANT,	
EPLAUR.	Epipremnum aureum +	绿蓝	MIN. 4 SHOOTS PER PLANT, 300mm LONG MIN. 3 SHOOTS PER PLANT, 300-	500/300
FIC.PUM.	Ficus pumila *	薛荔	1000mm LONG MIN. 3 SHOOTS PER PLANT, 600-	300
PAR.DAL.	Parthenocissus dalzielli	爬牆虎	1000mm LONG	300
HYDROSEEDIN	NG / GRASS			
- i	HYDROSEEDING	噴草	· ·	5
AND COM	11	A CONTRACTOR OF A CONTRACTOR	Whole piece turf	
AXO.COM,	Axonopus compressus +	地毯草(大葉草)	300(L)x300(W)x50(H)	52

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SULT THE SITE CONDITIONS.

2. SHRUB / GROUNDCOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.

3. SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION,

4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION, CLAUSE 3.26(3).

5.* SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.

6. + PLANT SPECIES INCLUDED IN THE ENTRUSTED LANDSCAPE WORKS TO CONTRACT NO. DC/2016/01.



Agreement No. CE7/2011(HY) Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Planting Schedule (Contract 1 - HY/2012/07)

Slope Planting

CODE	CODE BOTANICAL NAME CHINESE NAME HE		SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)	
MHIP					
BAU.VAR.	Bauhinia variegata	宮粉羊蹄甲	WHIP	1000	
BRI.TOM.	Bridelia tomentosa *	土密樹	WHIP	1000-2000	
GOR.AXI.	Gordonia axillaris *	大頭茶	WHIP	1000	
.IT.GLU.	Litsea glutinosa *	潺槁木	WHIP	1000	
MAL.PAN.	Mallotus paniculatus *	白楸	WHIP	1000	
РНҮ.ЕМВ.	Phyllanthus emblica *	餘甘子(油甘子)	WHIP	1000	
SAP.DIS.	Sapium discolour *	山烏桕	WHIP	1000	
TREE					
BAU.VAR.(L)	Bauhinia variegata	宮粉羊蹄甲	LIGHT STANDARD	3000	
BAU.VAR.(H)	Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	4000-4500	
BRI.TOM.	Bridelia tomentosa *	土密樹	LIGHT STANDARD	3000	
BOM.CEI.(L)	Bombax ceiba	木棉	LIGHT STANDARD	3000	
BOM.CEI.(L)	Bombax ceiba	木棉	HEAVY STANDARD	4500-5000	
CIN.BUR.	Cinnamomum burmannii *	陰香	LIGHT STANDARD	3000	
CIN.BUR.	Cinnamomum burmannii *	陰香	HEAVY STANDARD	4500-5000	
JQ.FOR.	Liquidambar formosana *	楓香	LIGHT STANDARD	3000	
LIT.GLU.(L)	Litsea glutinosa *	漏槁木	LIGHT STANDARD	3000	
MAC.CHE.	Machilus chekiangensis *	浙江潤楠	LIGHT STANDARD	3000	
REE.THY.	Reevesia thyrsoidea *	梭羅樹	LIGHT STANDARD	3000	
SCH.SUP.	Schima superba *		LIGHT STANDARD	3000	
STE.LAN.	Sterculia lanceolata *	假蘋婆	LIGHT STANDARD	3000	
STE.LAN.	Sterculia lanceolata *	假蘋婆	HEAVY STANDARD	4500-5000	
VIB.ODO.	Viburnum odoratissimum *	珊瑚樹	LIGHT STANDARD	3000	
SHRUB	VIDUI num ou or u ussimum *	圳市地址	LIGHT STANDARD	5000	
DES.CHI.	Desmos chinensis *	假鷹爪	300(H) x 300(S)	500	
LE.ASP.	Ilex asprella *	梅葉冬青	300(H) x 300(S)	500	
LE.PUB.	Ilex pubescens *		300(H) x 300(S)	500	
LIG.SIN.	Ligustrum sinense	山指甲	300(H) x 300(S)	350-500	
MEL.CAN.	Melastoma candidum *		300(H) x 300(S)	350-500	
MEL.CAN.			300(H) x 300(S)	350-500	
NER.OLE.	Melastoma sanguineum *	毛菍			
Participant and an and a second second	Nerium oleander	灰竹桃	300(H) x 300(S)	350	
PSY.ASI.	Psychotria asiatica *	九節	300(H) x 300(S)	500	
RHA.IND.	Rhaphiolepis indica *	車輪梅	300(H) x 300(S)	350-500	
RHO.PUL.	Rhododendron pulchrum	紫杜鵑	300(H) x 300(S)	500	
RHO.SIM.	Rhododendron simsii *	紅杜鵑	300(H) x 300(S)	500	
SCH.ARB.	Schefflera arboricola	八葉木	300(H) x 300(S)	500	
SCH.VAR.	Schefflera arboricola 'Variegata'	花葉八葉木	300(H) x 300(S)	500	
GROUNDCOV					
NEP.AUR.	Nephrolepis auriculata *	腎蕨	300(H) x 300(S)	100-300	
NEP.HIR.	Nephrolepis hirsutula *	毛葉腎蕨	300(H) x 300(S)	100-300	
CLIMBER					
BAU.COR.	Bauhinia corymbosa	首冠藤	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300-1000	
BOU.SPE.	Bougainvillea spectabilis	簕杜鵑	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300-500	
FIC.PUM.	Ficus pumila *	薜荔	MIN. 3 SHOOTS PER PLANT, 1000mm LONG	300	
LON.JAP.	Lonicera japonica *	忍冬(金銀花)	MIN. 5 SHOOTS PER PLANT, 600 mm LONG	300-1000	
PAR.DAL.	Parthenocissus dalzielii	爬墙虎	MIN. 3 SHOOTS PER PLANT, 1000mm LONG	300-1000	
WED.TRI.	Wedelia trilobata	三裂葉蟛蜞菊	MIN. 5 SHOOTS PER PLANT, 600mm LONG	300	

Roadside Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)	
TREE			· · · · · · · · · · · · · · · · · · ·		
BRA.ACE.	Brachychiton acerifolius	槭葉蘋婆	HEAVY STANDARD	4500-5000	
DEL.REG.	Delonix regia [鳳凰木		HEAVY STANDARD	N/A	
GAR.SUB.	Garcinia subelliptica	菲島福木(福木)	LIGHT STANDARD	3000	
MEL.CUM.	Melaleuca cajuputi subsp. cumingiana	白千層	HEAVY STANDARD	4000	
STE.LAN.	Sterculia lanceolata *	假蘋婆	HEAVY STANDARD	5000	
ГAB.CHR.	Tabebuia chrysantha	黃花風鈴木	HEAVY STANDARD	5000	
ГАВ.IMP.	Tabebuia impetiginosa	風鈴木	HEAVY STANDARD	5000	
FER.MAN.	Terminalia mantaly	小葉欖仁	HEAVY STANDARD	5000	
PALM					
ARC.ALE.	Archontophoenix alexandrae	假檳榔	3500(H) x 1500(S)	4000	
CHR.LHT.	Chrysalidocarpus lutescens	散尾葵	1500(H)	2000	
LIV.CHI.	Livistona chinensis	蒲葵	2000(H) x 1500(S)	2500	
PHO.ROE.	Phoenix roebelenii	日本葵	2000(H) x 1500(S)	2500-3000	
WOD.BIF.	Wodyetia bifurcata	狐尾椰子	2500(H) x 1500(S)	3500	
SHRUB					
DUR.GOL.	Duranta repens 'Golden'	金連翹	300(H) x 300(S)	300	
XO.CHI.	Ixora chinensis *	龍船花	300(H) x 300(S)	300	
XO.COC.	Ixora coccinea	橙紅龍船花	300(H) x 300(S)	300	
IXO.LUT.	Ixora coccinea 'Lutea'	黃花龍船花	300(H) x 300(S)	300	
RHA.IND.	Rhaphiolepis indica *	車輪梅	300(H) x 300(S)	300	
RHO.PUL.	Rhododendron pulchrum	紫杜鵑	300(H) x 300(S)	300	
RHO.SIM.	Rhododendron simsii *	紅杜鵑	300(H) x 300(S)	300	
SCH.ARB.	Schefflera arboricola	八葉木	300(H) x 300(S)	300	
SCH.VAR.	Schefflera arboricola 'Variegata'	斑葉鵝掌藤 (花葉八葉木)	300(H) x 300(S)	300	
GROUNDCO'	VER				
ARA.DUR.	Arachis duranensis	金花生	100(H) x 200(S)	200	
ASP.DEN.	Asparagus densiflorus 'Myersii'	狐尾天冬	300(H) x 300(S)	250	
ASP.SPR.	Asparagus densiflorus 'Sprengeri'	非洲天門冬(天冬)	100(H) x 200(S)	200	
CUP.HYS.	Cuphea hyssopifolia	細葉雪茄花	250(H) x 300(S)	250-300	
DIA.VAR.	Dianella tasmanica 'Variegata'	花葉山菅蘭	250(H) x 250(S)	250	
LAN.FLA.	Lantana camara 'Flava'	黃花馬纓丹	200(H) x 200(S)	200	
LAN.MON.	Lantana montevidensis	小葉馬纓丹	200(H) x 200(S)	200	
NEP.AUR.	Nephrolepis auriculata *	腎蕨	300(H) x 300(S)	100-300	
OPH.JAP.	Ophiopogon japonicus *	沿階草	200(H) x 200(S)	200	

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. SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION.

4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3).

5. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.



Agreement No. CE7/2011(HY) Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works Planting Schedule (Contract 3 - HY/2013/12) RING WORKS, 2006 EDITION. E 3.26(3). WEBSITE.

Northern Landfall - Roadside Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
TREE				
BAU.BLA	Bauhinia x blakeana *	洋紫荊	HEAVY STANDARD	4500-5000
BAU.VAR	Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	4500-5000
ELA.API	Elaeocarpus apiculatus	尖葉杜英	HEAVY STANDARD	6000
ELA.HAI	Elaeocarpus hainanensis	水石榕	HEAVY STANDARD	5000
GAR.SUB	Garcinia subelliptica	菲島福木	HEAVY STANDARD	3500-4000
GRE.ROB	Grevillea robusta	銀樺	HEAVY STANDARD	4500-5000
MEL.QUI	Melaleuca quinquenervia	白千層	HEAVY STANDARD	4500-5000
PLU.MUL	Plumeria rubra (multi-colour flower)	雞蛋花(多色花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) ~ 2500(C)	4000-4500
PLU.RUB	Plumeria rubra (red flower)	雞蛋花(紅花)	2500(H) x 2500(S) HEAVY STANDARD 2000(H) x 2000(S) -	4000-4500
PLU.RUB(Y)	Plumeria rubra (yellow flower)	雞蛋花(黄花)	2500(H) x 2500(S) HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-4500
PON.PIN	Pongamia pinnata *	水黃皮	HEAVY STANDARD	5000-6000
STE.LAN	Sterculia lanceolata *	假蘋婆	HEAVY STANDARD	4500-5000
TER.CAT	Terminalia catappa	欖仁樹	HEAVY STANDARD	5000-7000
VIB.ODO	Viburnum odoratissimum *	珊瑚樹	HEAVY STANDARD	4500-5000
XAN.CHR	Xanthostemon chrysanthus	金蒲桃	HEAVY STANDARD	5000
PALM	Numeroscenton enrysummus		marromana	5000
ARE.CAT	Areca catechu	檳榔	3000(H) x 1500(S)	4000
HYO.LAG	Hyophorbe lagenicaulis	酒瓶椰子	2000(H) x 1500(S)	3000
LIV.CHI	Livistona chinensis	蒲葵	3000(H) x 2000(S)	4000-4500
ROY.REG	Roystonea regia	王棕	4000(H) x 2000(S)	4500-5000
WOD.BIF	Wodyetia bifurcata	狐尾椰子	3000(H) x 1500(S)	4500
SHRUB	n'ouj cau bijar budu	JMULTING	()	
СМІ	Carmona microphylla	福建茶	300(H) x 300(S)	300
CRE	Cycas revoluta	蘇鐵	500(H) x 600(S)	N/A
DLU	Dypsis lutescens	散尾葵	2000(H) x 2000(S)	2000
KA	Juniperus chinensis 'Kaizuca'	龍柏球	600(H) x 600(S)	N/A
ICH	Ixora chinensis *	龍船花	300(H) x 300(S)	300
ICO	Ixora coccinea	橙紅龍船花	300(H) x 300(S)	300
ILU	Ixora coccinea 'Lutea'	黃花龍船花	400(H) x 300(S)	300
IST	Ixora stricta	細葉龍船花	250(H) x 250(S)	250
IWE	Ixora westii	粉紅龍船花	400(H) x 300(S)	300
NOL	Nerium oleander	夾竹桃	500(H) x 400(S)	500
РТО	Pittosporum tobira	海桐	300(H) x 300(S)	350
РМА	Podocarpus macrophyllus *	羅漢松	600(H) x 500(S)	N/A
PAX	Polyspora axillaris *	大頭茶	300(H) x 300(S)	350
RIN	Rhaphiolepis indica *	車輪梅	300(H) x 300(S)	300-350
RPU	Rhododendron pulchrum	錦繡杜鵑	300(H) x 300(S)	350
RSI	Rhododendron simsii *	紅杜鵑	250(H) x 250(S)	350
RTO	Rhodomyrtus tomentosa *	桃金娘	300(H) x 300(S)	350
STA	Scaevola taccada *	草海桐	300(H) x 300(S)	350
SDA	Schefflera arboricola 'Dazzle'	黄金八葉	300(H) x 300(S)	350
SVA	Schefflera arboricola 'Variegata'	斑葉鵝掌藤 (花葉八葉木)	300(H) x 300(S)	300-350

CODE	BOTANICAL NAME CHINESE NAME HEIC		SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
GROUNDCO	VER			
ADU	Arachis duranensis	蔓花生 (金花生)	100(H) x 200(S)	200
АМҮ	Asparagus densiflorus 'Myersii'	狐尾天冬	300(H) x 300(S)	300
ASP	Asparagus densiflorus 'Sprengeri'	非洲天門冬	100(H) x 200(S)	200
СНҮ	Cuphea hyssopifolia	細葉萼距花	200(H) x 250(S)	250
CRO	Catharanthus roseus	長春花	200(H) x 200(S)	200
LFL	Lantana camara 'Flava'	黃花馬纓丹	200(H) x 200(S)	200
LMO	Lantana montevidensis	小葉馬纓丹	200(H) x 200(S)	200
NAU	Nephrolepis auriculata *	腎蕨	250(H) x 250(S)	200
NHI	Nephrolepis hirsutula *	毛葉腎蕨	250(H) x 250(S)	200
ONA	Ophiopogon japonicus 'Nana'	玉龍草	50(H)	N/A
WTR	Wedelia trilobata	三裂葉蟛蜞菊	150(H) x 200(S)	200
CLIMBER			A**	
BCO	Bauhinia corymbosa	首冠藤	MIN. 4 SHOOTS PER PLANT, 600mm LONG	300-500
Quisqualis indica		使君子	MIN. 4 SHOOTS PER PLANT, 600mm LONG	300-500

NOTE:

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 SHRUB / GROUNDCOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.
 SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION.
 GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3).
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Agreement No. CE7/2011(HY) Tuen Mun - Chek Lap Kok Link - Northern Connection Tunnel Buildings, Electrical and Mechanical Works Planting Schedule (Contract 4 - HY/2017/10)

Southern Landfall (Contract 1 - HY/2012/07)

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
TREE				
GRE.ROB.	Grevillea robusta	銀樺	HEAVY STANDARD	4000-5000
			HEAVY STANDARD	
PLU.RUB.	Plumeria rubra	雞蛋花(紅)	2000(H) x 2000(S) -	4000-5000
			2500(H) x 2500(S)	
SHRUB				
RUS.EQU.	Russelia equisetiformis	爆仗竹	300(H) x 300(S)	250
GROUNDCO	VER			
PO.PES.	Ipomoea pes-caprae *	海灘牽牛	200(H) x 200(S)	200
LAN.MON.	Lantana montevidensis	小葉馬纓丹	200(H) x 200(S)	250
LAN.MON.		(鋪地臭金鳳)	200(H) x 200(3)	230
OPH.JAP.	Ophiopogon japonicus *	麥冬(沿階草)	150(H) x 200(S)	200
SYN.POD.	Syngonium podophyllum	白蝴蝶	100(H) x 200(S)	200
ΓRA.SPA.	Tradescantia spathacea	蚌花	200(H) x 300(S)	250
ZEP.ROS.	Zephyranthes rosea	玫瑰蔥蓮	100(H) x 200(S)	150
CLIMBER				
MON.DEL.	Monstera deliciosa	龜背竹	MIN. 5 SHOOTS PER PLANT,	500
			300mm LONG	500
HYDROSEED	DING / GRASS			
	HYDROSEEDING	噴草	<u>2</u>	22
ZOY.JAP.	Zoysia japonica	朝鮮草	300(L)x300(W)x50(H)	N/A

Southern Landfall (Contract 4 - HY/2017/10)

CODE	BOTANICAL NAME	BOTANICAL NAME CHINESE NAME SIZE (mm) HEIGHT (H) X SPREAD (S)		SPACING (mm)	
TREE					
CV	Callistemon viminalis	串錢柳	HEAVY STANDARD	4000-5000	
GR	Grevillea robusta	銀樺	HEAVY STANDARD	4000-5000	
PRR	Plumeria rubra (red flower)	雞蛋花(紅花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-5000	
PRY	Plumeria rubra (yellow flower)	雞蛋花(黄花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-5000	
PLU.MUL	Plumeria rubra (multi-colour flower)	雞蛋花(多色花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-5000	
GROUNDCC	VER				
IPE	Ipomoea pes-caprae *	海灘牽牛	150(H) x 200(S)	200	
LMO	Lantana montevidensis	小葉馬纓丹 (鋪地臭金鳳)	200(H) x 300(S)	200	
OJA	Ophiopogon japonicus *	麥冬(沿階草)	100(H) x 100(S)	100	
SPO	Syngonium podophyllum	白蝴蝶	100(H) x 200(S)	200	
TSP	Tradescantia spathacea 'dwarf'	矮蚌花	100(H) x 100(S)	100	
WTR	Wedelia trilobata	三裂葉蟛蜞菊	150(H) x 200(S)	200	
GRASS	•				
ZJA	Zoysia japonica	朝鮮草	300(L)x300(W)x50(H)	N/A	

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.

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4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3).

5. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.

6. 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).

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.

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Agreement No. CE7/2011(HY) Tuen Mun - Chek Lap Kok Link - Northern Connection Tunnel Buildings, Electrical and Mechanical Works Planting Schedule for Southern Landfall (Contract 1 – HY/2012/07 and Contract 4 – HY/2017/10)

Appendix G

Tree Transplant



ROOT PRUNING IN STAGES



PREPARATION OF ROOTBALL



UPLIFTING OF TREE



PREPARATION OF TRANSPORTATION





Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction Tree Transplant (CM2) (Contract 1 - HY/2012/07)



PREPARATION OF ROOTBALL FOR UPLIFTING

WATERING IMMEDIATELY AFTER PLANTING THE TRANSPLANTED TREE



ROOT PRUNING IN STAGES



ROOT PRUNING IN STAGES





PREPARATION OF TRANSPORTATION



PLANTING THE TRANSPLANTED TREE



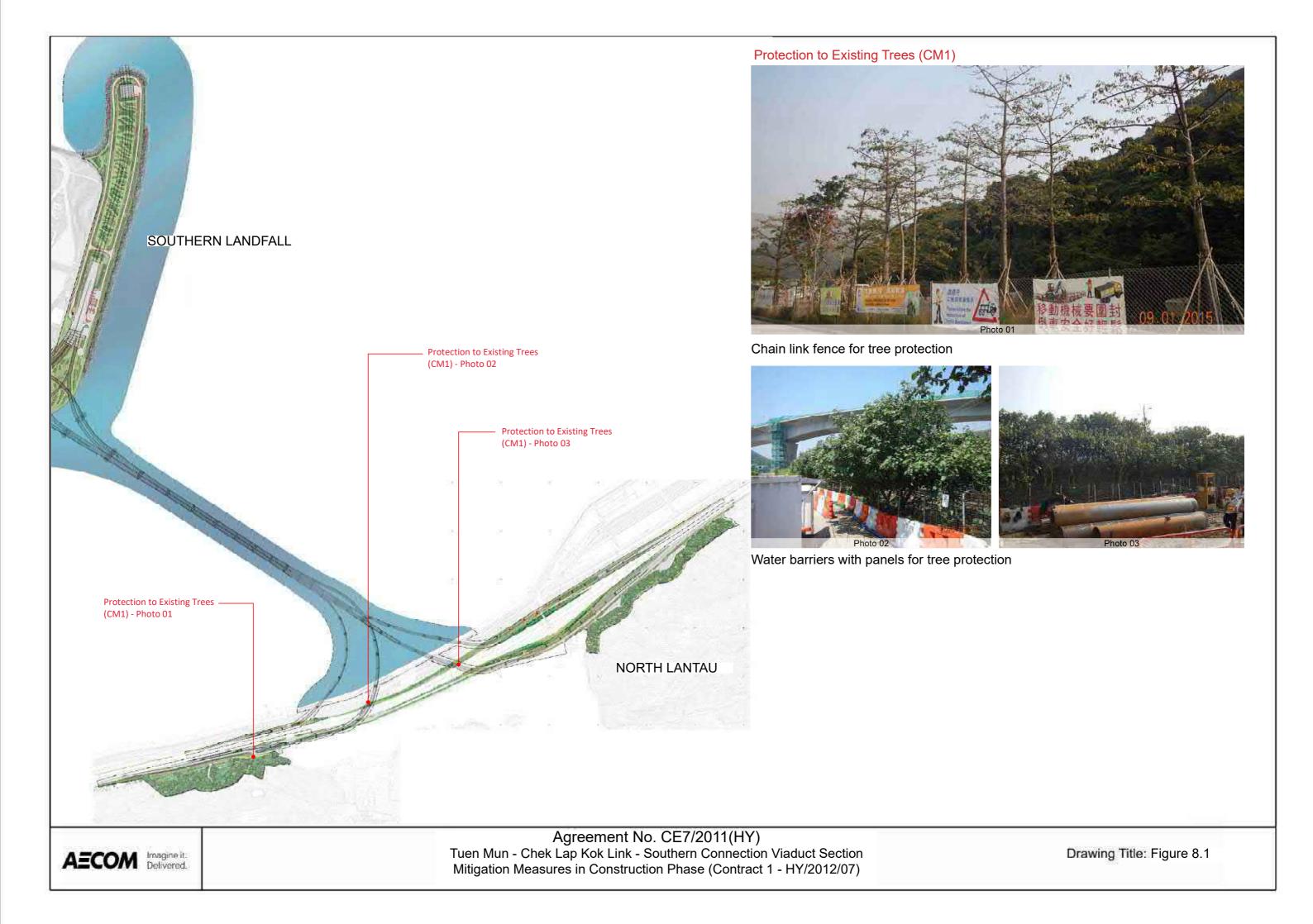
Agreement No. CE 7/2011(HY) Tuen Mun – Chek Lap Kok Link – Design and Construction On site Tree Transplant (CM2) (Contract 3 - HY/2013/12)

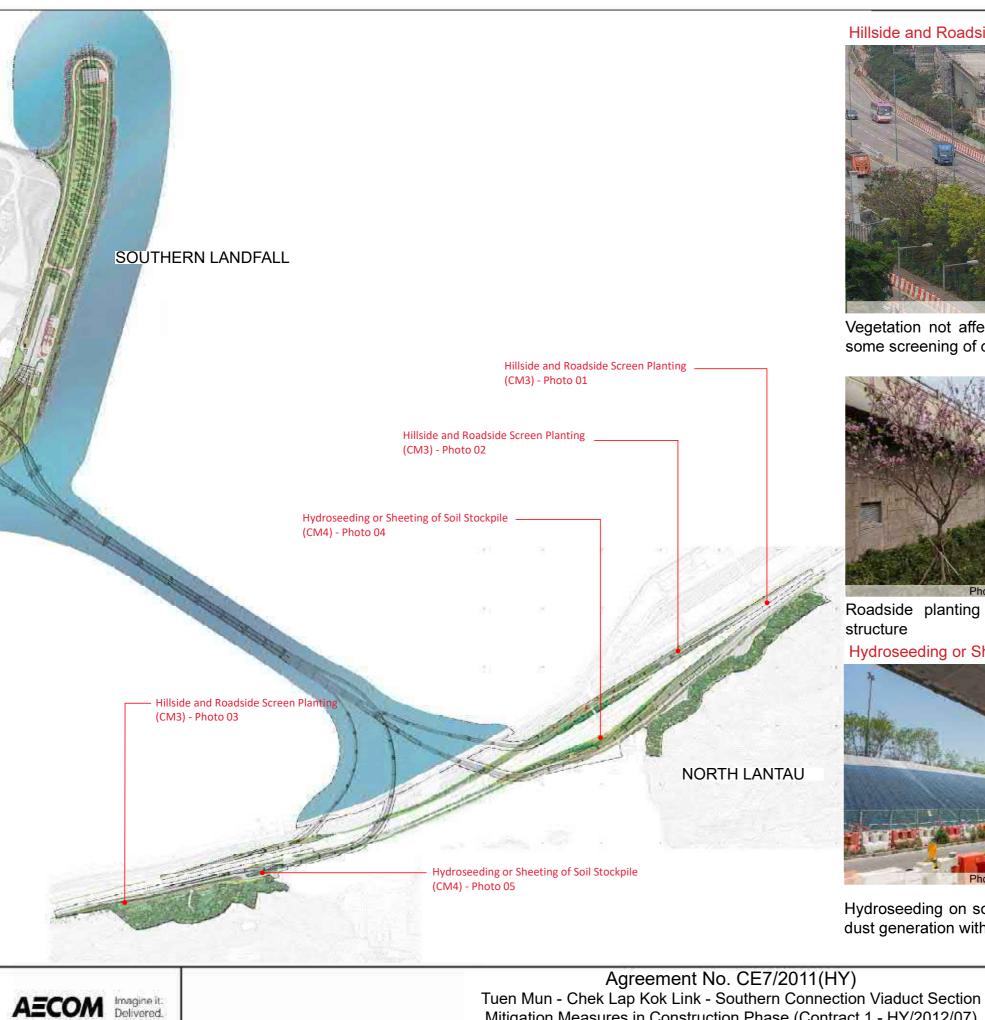


WATERING IMMEDIATELY AFTER PLANTING THE TRANSPLANTED TREE

Appendix H

Mitigation Measures at Construction Phase





Hillside and Roadside Screen Planting (CM3)

Photo 01

Vegetation not affected by works was not cleared under site clearance provided some screening of construction works.

Photo 02

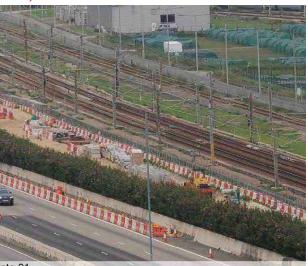
Roadside planting to road associated Hillside planting structure

Mitigation Measures in Construction Phase (Contract 1 - HY/2012/07)

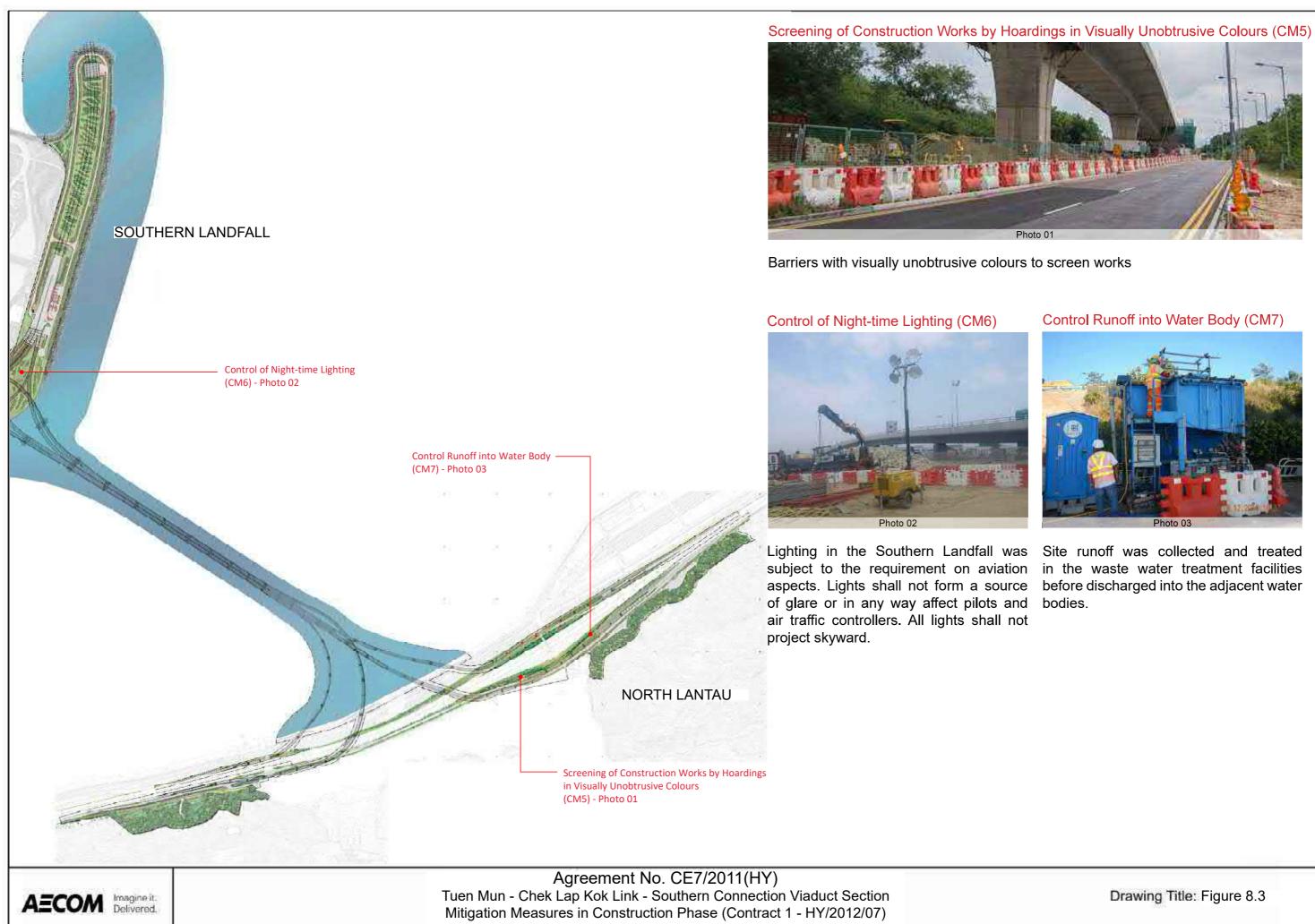
Hydroseeding or Sheeting of Soil Stockpile (CM4)

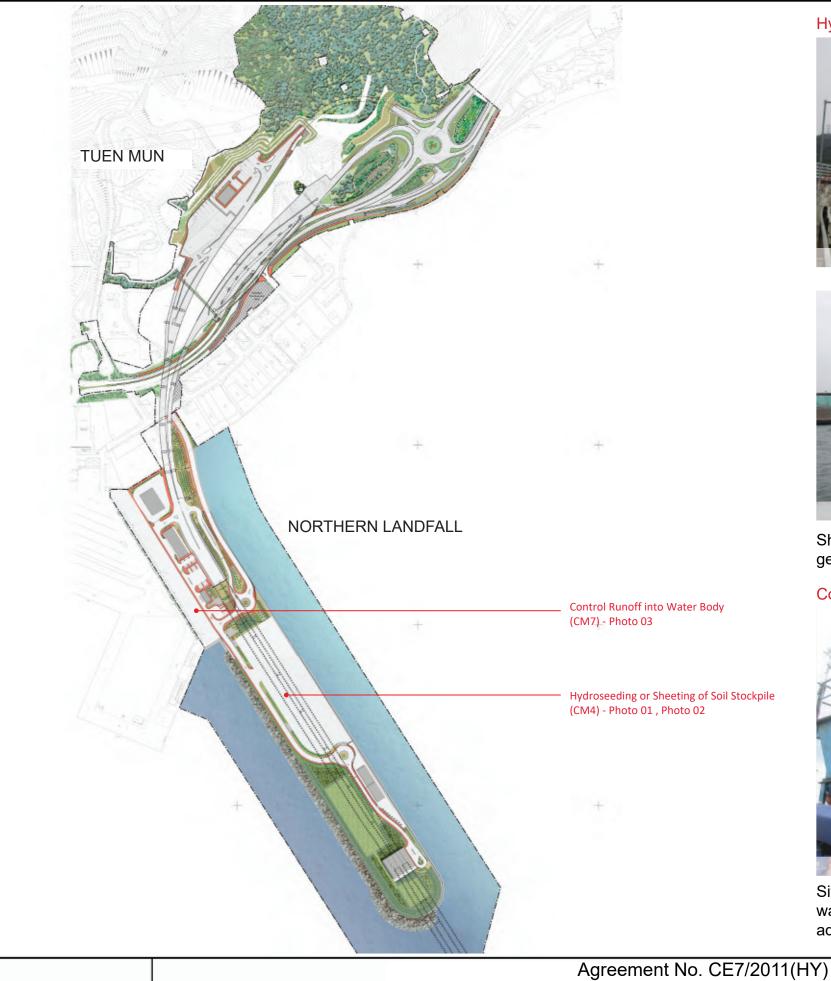


Hydroseeding on soil slopes and sheeting of soil stockpiles to prevent erosion and dust generation with visually unobtrusive material









Hydroseeding or Sheeting of Soil Stockpile (CM4)





Sheeting of soil stockpiles to prevent erosion and dust generation with visually unobtrusive material

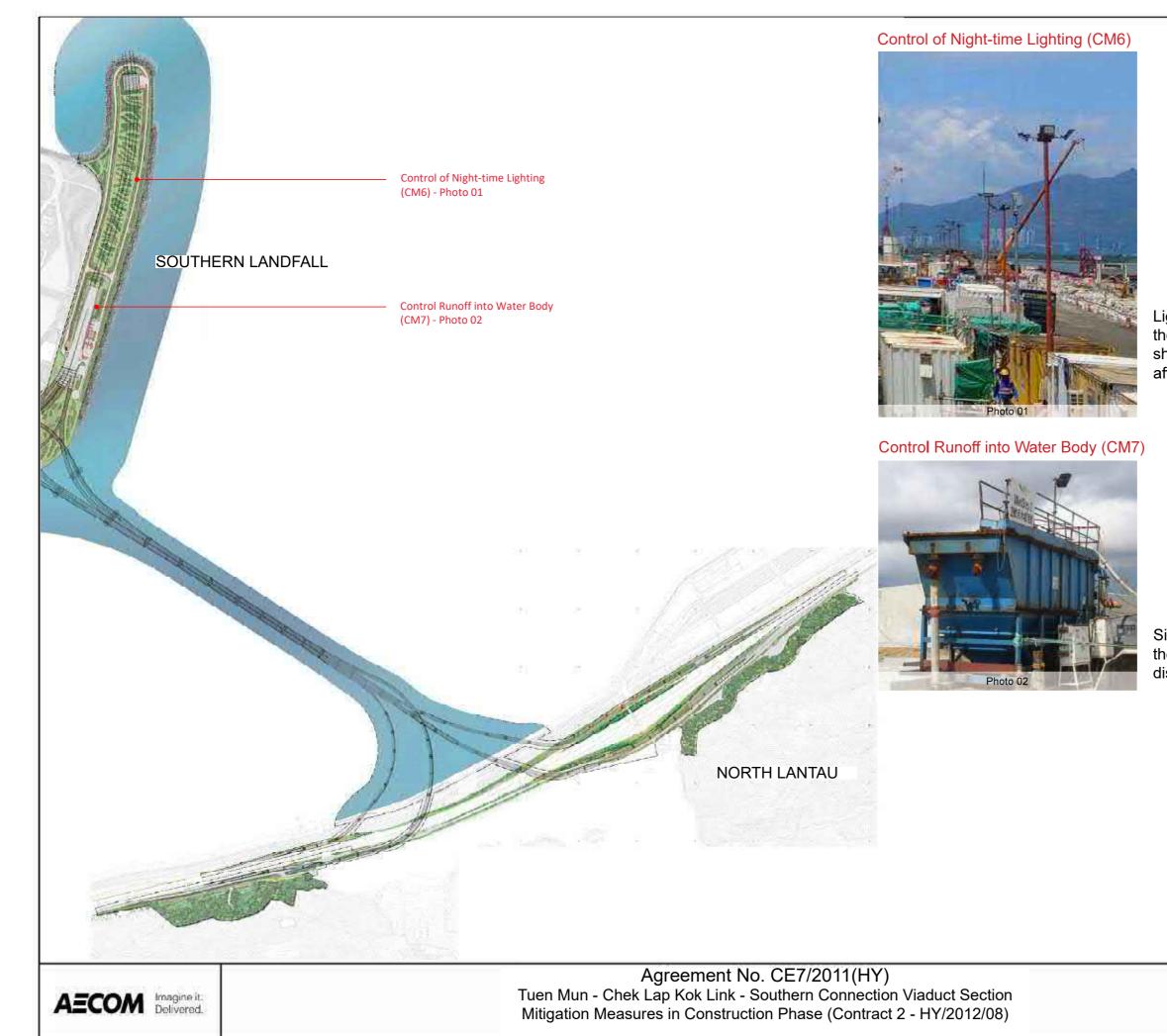
Control Runoff into Water Body (CM7)



Site runoff was collected and treated in the waste water treatment facilities before discharged into the adjacent water bodies.

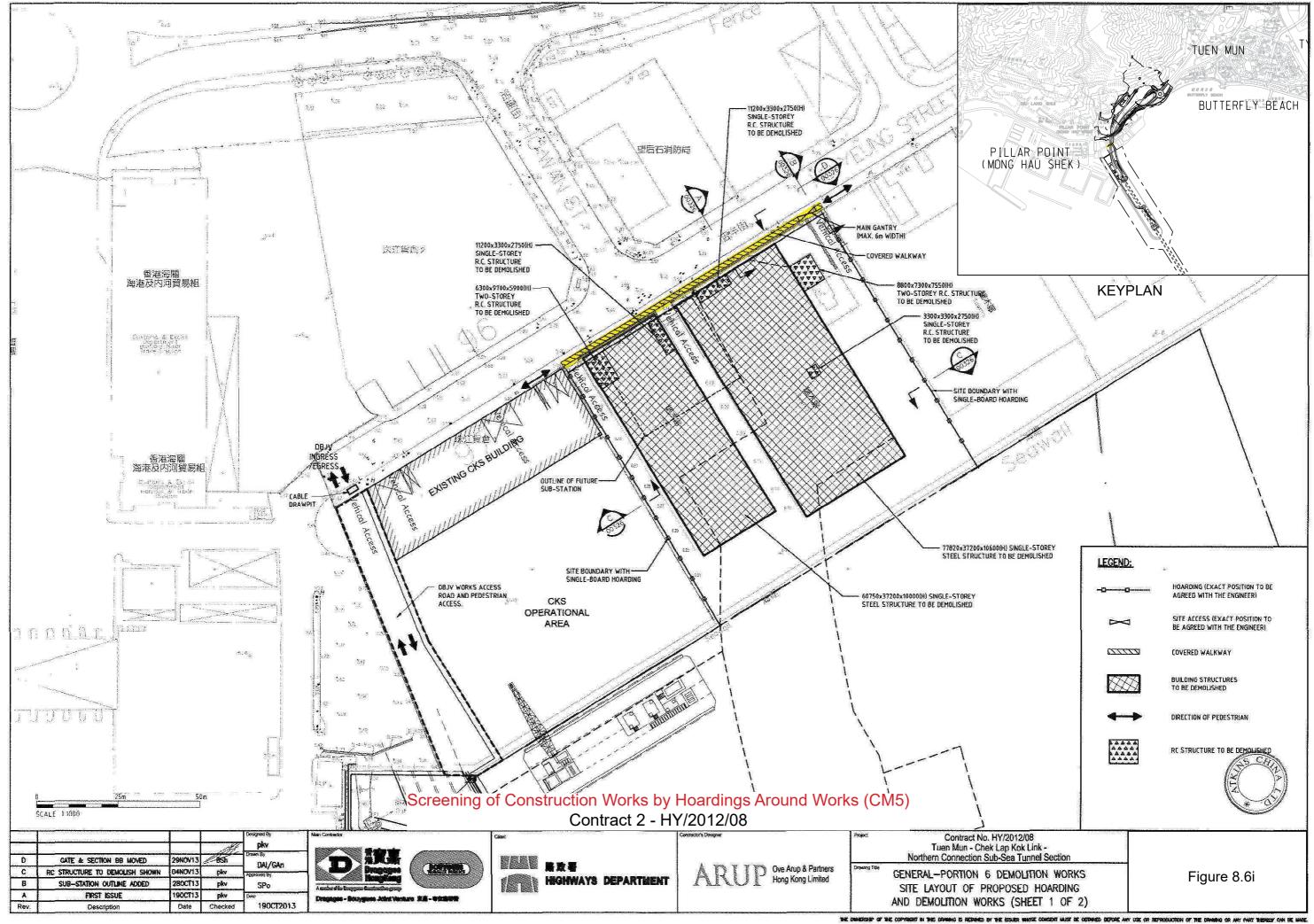


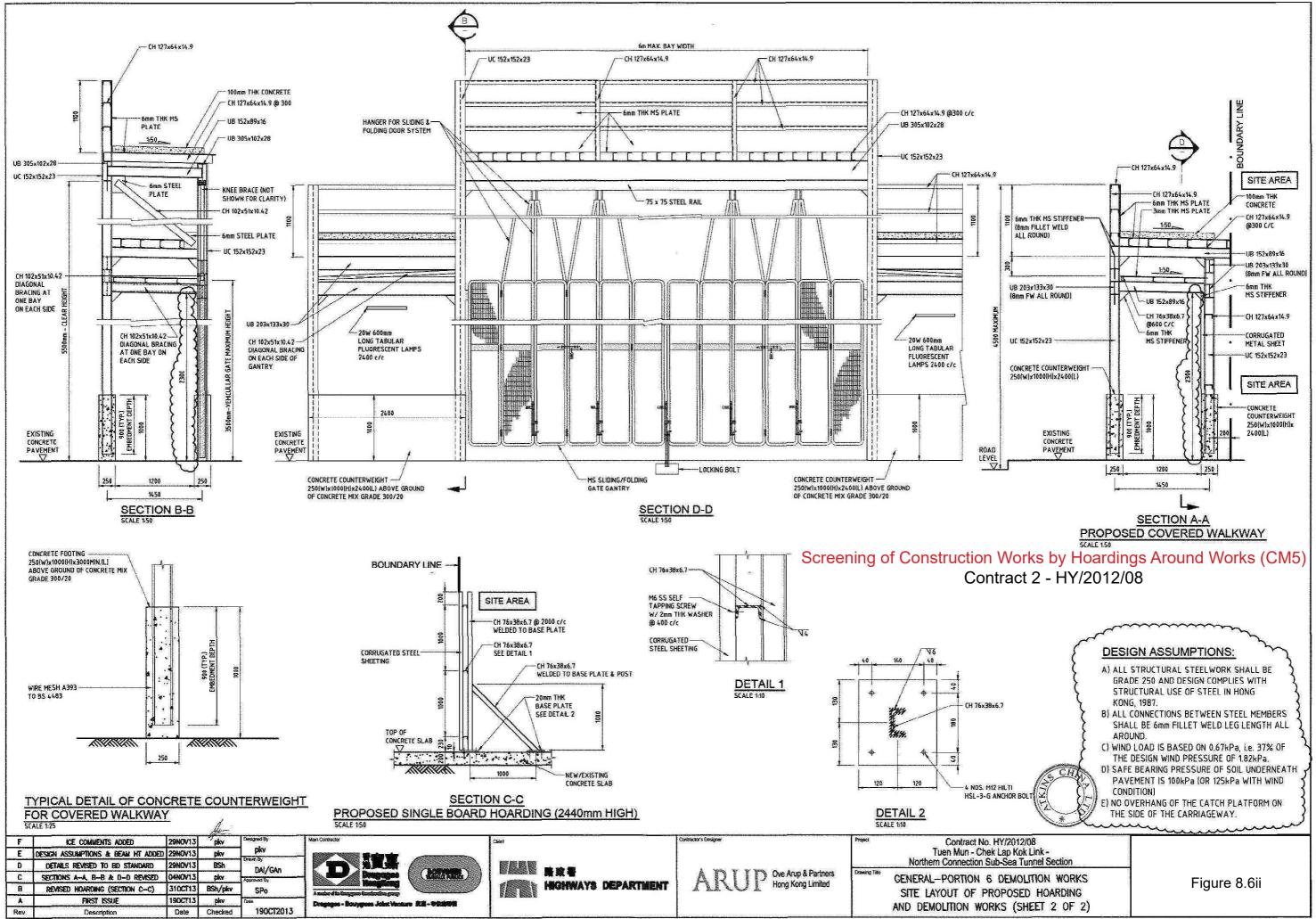
Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works Mitigation Measures in Construction Phase (Contract 2 - HY/2012/08)



Lighting in the Southern Landfall is subject to the requirement on aviation aspects. Lights shall not form a source of glare or in any way affect pilots and air traffic controllers.

Site runoff was collected and treated in the waste water treatment facilities before discharged into the adjacent water bodies.



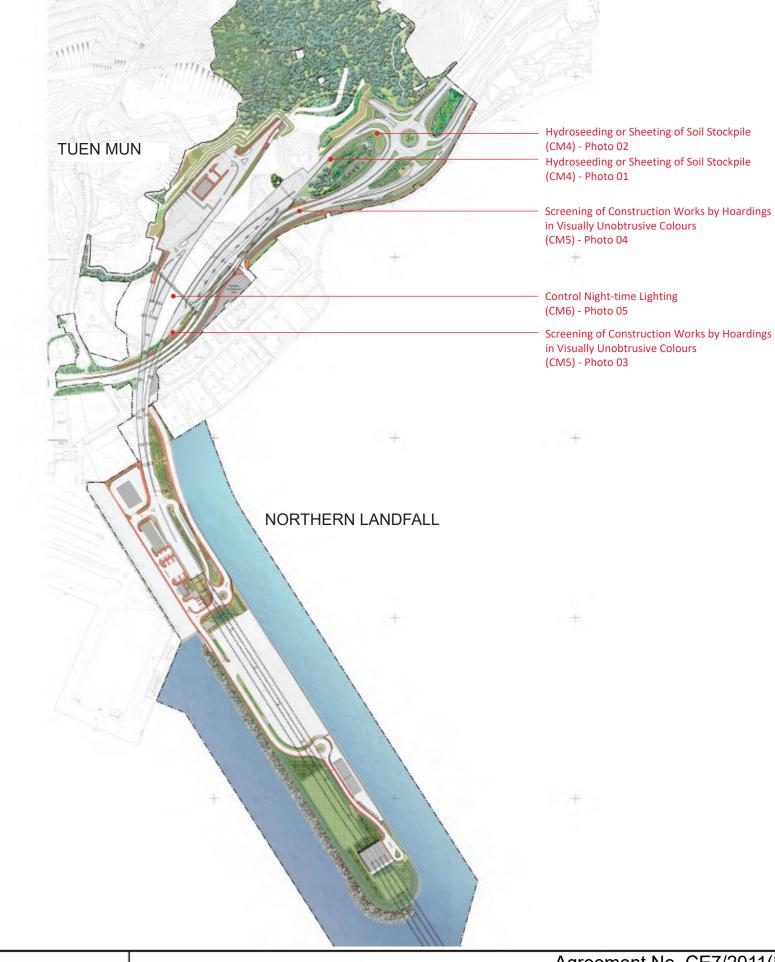


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Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works Mitigation Measures in Construction Phase (Contract 3 - HY/2013/12)



Hydroseeding or Sheeting of Soil Stockpile Hydroseeding or Sheeting of Soil Stockpile



Hydroseeding on soil slopes and sheeting of soil stockpiles to prevent erosion and dust generation with visually unobtrusive material.



Barriers with visually unobtrusive colours to screen works.

Control of Night-time Lighting (CM6)

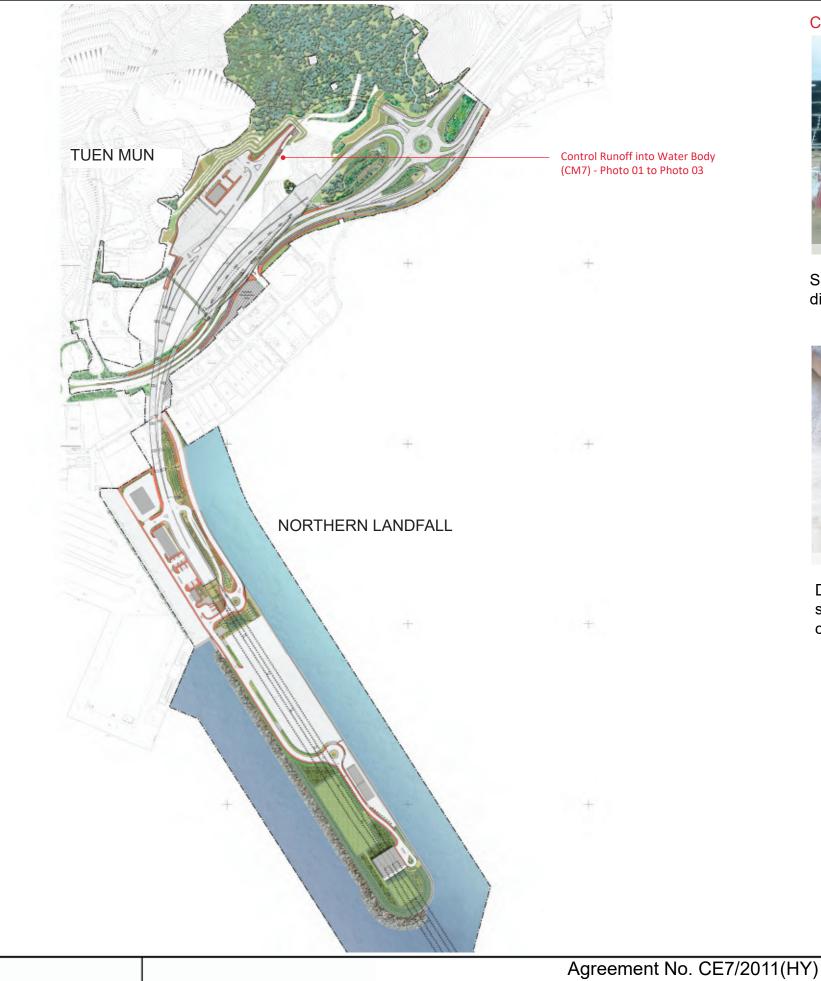


No excessive lighting for night-time operations



Agreement No. CE7/2011(HY) Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works Mitigation Measures in Construction Phase (Contract 3 - HY/2013/12)

Screening of Construction Works by Hoardings in Visually Unobtrusive Colours (CM5)



Control Runoff into Water Body (CM7)



Site runoff was collected and treated in the waste water treatment facilities before discharged into the adjacent water bodies.



Discharge from site shall not endanger public health or causing harm to the sewerage or drainage system. Water sample was collected and tested for compliance with the safety standard.



Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works Mitigation Measures in Construction Phase (Contract 3 - HY/2013/12)



Hillside and Roadside Screen Planting (CM3)



Roadside screen planting to building



Hydroseeding or Sheeting of Soil Stockpile (CM4)



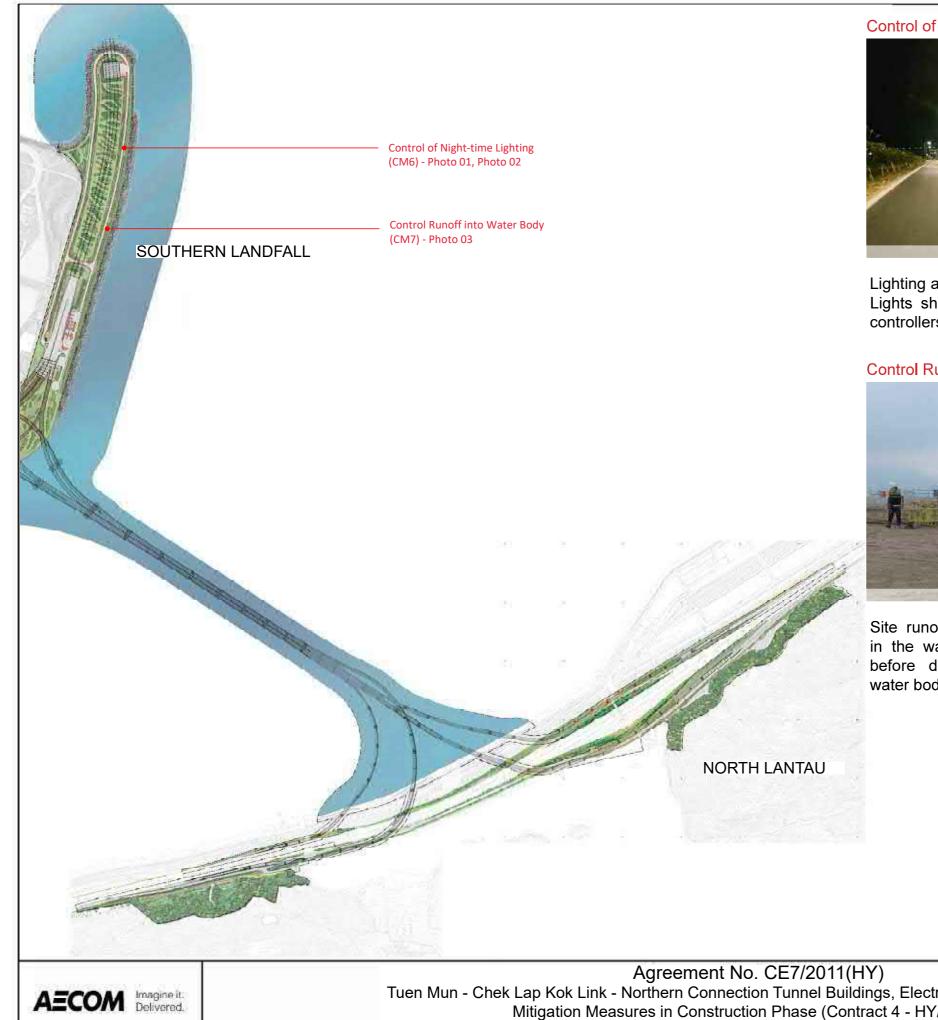
Sheeting of soil stockpiles to prevent erosion and dust generation with visually unobtrusive material



Tuen Mun - Chek Lap Kok Link - Northern Connection Tunnel Buildings, Electrical and Mechanical Works Mitigation Measures in Construction Phase (Contract 4 - HY/2017/10)

Roadside screen planting to road associated structure

> Roadside screen planting to road associated structure



Control of Night-time Lighting (CM6)



Lighting at the Southern Landfall is subject to the requirement on aviation aspects. Lights shall not form a source of glare or any way affect pilots and air traffic controllers.

Control Runoff into Water Body (CM7)



Site runoff was controlled and treated in the waste water treatment facilities before discharged into the adjacent water bodies.

Tuen Mun - Chek Lap Kok Link - Northern Connection Tunnel Buildings, Electrical and Mechanical Works Mitigation Measures in Construction Phase (Contract 4 - HY/2017/10)

Appendix I

Implementation Schedule

Appendix I

Table I.1 Implementation Schedule of Landscape and Visual Mitigation Measures

EIA Ref.	Mitigation Measures ID No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measures?	Location of the Measures	When to implement the measures?	Implementation status (as of November 2020)
Landscape & Vis	ual (Design Measi	ures)	•				
S10.9.2.2	DM1	The large surface of the retaining wall along the toll plaza area shall adopt a patterned/ smoother finishes and texture design to break the large surface. Climber treatment is proposed to soften the structures.	Minimise visual & landscape impact	Detailed designer	Tuen Mun	Design stage	Fully implemented
	DM2	The colour and shape of the toll control buildings, ventilation building and administration building shall adopt a design which could blend it into the vicinity elements, and the details will be developed in detailed design stage.	Minimise visual & landscape impact	Detailed designer	Tuen Mun, Southern Landfall (HKBCF)	Design stage	Fully implemented
	DM3	Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission.	Minimise visual & landscape impact	Detailed designer	Tuen Mun, North Lantau	Design stage	Fully implemented
	DM4	Details of the street furniture will be developed in the detailed design stage.	Minimise visual & landscape impact	Detailed designer	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Design stage	Fully implemented
	DM5	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission.	Minimise visual & landscape impact	Detailed designer	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Design stage	Fully implemented

EIA Ref.	Mitigation Measures ID No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measures?	Location of the Measures	When to implement the measures?	Implementation status (as of November 2020)
Landscape & Visua	al (Construction I	Phase Mitigation Measures)	I				
S10.9.3.1	CM1	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).	Minimise visual & landscape impact	Contractors of C1 and C3	Tuen Mun, North Lantau	Construction stage	Fully implemented
	CM2	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.	Minimise visual & landscape impact	Contractors of C1 and C3, and Contractor of Contract No. DC/2016/01 for the entrusted landscape softworks in C1	Tuen Mun, North Lantau	Construction stage	Works under C3 fully implemented; entrusted landscape softworks by Contract No. DC/2016/10 for the works in C1 to be implemented
	СМЗ	Hillside and roadside screen planting to proposed roads, associated structures and slope works.	Minimise visual & landscape impact	Contractors of C1, C3 and C4, and Contractor of Contract No. DC/2016/01 for the entrusted landscape softworks in C1	Tuen Mun, North Lantau	Construction stage	Works under C3 and C4 fully implemented; entrusted landscape softworks by Contract No. DC/2016/10 for the works in C1 to be implemented
	CM4	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone).	Minimise visual & landscape impact	Contractors of C1, C2, C3 and C4	Tuen Mun, North Lantau	Construction stage	Fully implemented
	CM5	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works.	Minimise visual & landscape impact	Contractors of C1, C2 and C3	Tuen Mun, North Lantau	Construction stage	Fully implemented
	CM6	Control night-time lighting and glare by hooding all lights.	Minimise visual impact	Contractors of C1, C2, C3 and C4	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Construction stage	Fully implemented
	CM7	Ensure no run-off into water body adjacent to the Project Area.	Minimise landscape impact	Contractors of C1, C2, C3 and C4	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Construction stage	Fully implemented
	CM8	Avoidance of excessive height and bulk of buildings and structures.	Minimise visual & landscape impact	Contractors of C1, C2, C3 and C4	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Construction stage	Fully implemented
	CM9	Recycle/Reuse all felled trees and vegetation, e.g. mulching	Minimise landscape impact	Contractors of C1 and C3	Tuen Mun, North Lantau	Construction stage	Fully implemented

		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.	impact	Contractors of C1, C3 and C4	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Construction stage	Works under C3 and C4 fully implemented; entrusted landscape softworks by Contract No. DC/2016/10 for the works in C1 to be implemented
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EIA Ref.	Mitigation Measures ID No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measures?	Location of the Measures	When to implement the measures?	Implementation status (as of November 2020)
Landscape & Vis	ual (Operation Ph	nase Mitigation Measures)					
10.9.3.1	OM1	Re-vegetation of affected woodland/shrubland with native species.	Minimise visual & landscape impact	Contractors of C1 and C3	Tuen Mun, North Lantau	Operation stage	Fully implemented
	OM2	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities.	Minimise visual & landscape impact	Contractors of C1, C3, C4, and Contractor of Contract No. DC/2016/01 for the entrusted landscape softworks in C1	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Operation stage	Works under C3 and C4 fully implemented; entrusted landscape softworks by Contract No. DC/2016/10 for the works in C1 to be implemented
	OM3	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.	Minimise visual & landscape impact	Contractors of C1, C2, C3 and C4	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Operation stage	Fully implemented
	OM4	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.	Minimise visual & landscape impact	Contractors of C1, C3, C4, and Contractor of Contract No. DC/2016/01 for the entrusted landscape softworks in C1	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Operation stage	Works under C3 and C4 fully implemented; entrusted landscape softworks by Contract No. DC/2016/10 for the works in C1 to be implemented
	OM5	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.	Minimise visual & landscape impact	Contractors of C1, C2, C3 and C4	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Operation stage	Fully implemented
	OM6	Avoidance of excessive height and bulk of buildings and structures.	Minimise visual & landscape impact	Contractors of C1, C2, C3 and C4	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Operation stage	Fully implemented

10.10.4.2	-	Approximately 6300 heavy standard trees and light standard trees will be planted to compensate for the loss of existing trees.	Minimise landscape impact	Contractors of C1, C3, C4 (for tree planting within project boundary) and future Contractor of TM- CLKL Project (for tree planting outside project boundary)	Tuen Mun, Southern Landfall (HKBCF), North Lantau	Operation stage	For compensatory trees within project boundary: works under C3 and C4 fully implemented; entrusted landscape softworks by Contract No. DC/2016/10 for the works in C1 to be implemented. For compensatory tree planting outside the project boundary: works by future Contractor of TM-CLKL Project to be implemented.
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