

Our Ref : CWN:ALCF:PKL:icyc:60240249/C7/M45/900/B000888-2024016295L

5 November 2024

The EIA Ordinance Register Office
Environmental Protection Department
27/F, Southorn Centre
130 Hennessy Road
Wanchai, Hong Kong

Dear Sir,

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

Environmental Permit No. EP-354/2009/D
Landscape and Visual Plan (Ref. A37-04B) Revision B

With reference to the last approved Landscape and Visual Plan (Ref. A37-04B) Rev. A submitted on 31 March 2021, we are pleased to submit the revised Landscape and Visual Plan (Ref. A37-04B) Rev. B for your approval further to the minor landscape amendments in the Project.

On behalf of the captioned EP holder, we would like to submit herewith one hard copy and one electronic copy of the Landscape and Visual Plan (Ref. 37-04B) Rev. B with ET certification and IEC verification incorporated for your perusal.

A summary table on the changes in the revised report (**Annex A**), and the email of the proposed changes at Lung Fu Road Roundabout with email reply by EPD (**Annex B**) is also enclosed in this letter. The requirement on the landscape area and the quantity of the compensatory tree planting remain unchanged.

By copy of this letter, three hard copies and each with one electronic copy are to be delivered to PlanD directly for review and comment.

.../Cont'd

Our Ref : CWN:ALCF:PKL:icyc:60240249/C7/M45/900/B000888-2024016295L

Should you have any queries, please feel free to contact our Resident Engineer, Mr. Joe Chan at telephone no. 2293 6423.

Yours faithfully,
For and on behalf of
AECOM Asia Co. Ltd.



Conrad Ng
Vice President, Major Project Delivery
Land Supply / Municipal, Hong Kong

Encl.

| | | | |
|------|--------------------------------|------------------------------|---------------------|
| c.c. | PO(MP)/EPD | - Attn: Mr. Alfred K.W. LO | (w/e) 1 copy |
| | CE4/MW, HyD | - Attn: Mr. Simon C.H. LEUNG | (w/e) 1 copy |
| | Sr Town Plnr/Tuen Mun 1, PlanD | - Attn: Ms. Kennie M.F. LIU | (w/e) 2 copies |
| | ANewR (IEC) | - Attn: Mr. James CHOI | (w/e) 1 copy |
| | TM-CLKL-C1 M45/900 | | (w/electronic copy) |
| | TM-CLKL-C2 M45/900 | | (w/electronic copy) |
| | TM-CLKL-C3 M45/900 | | (w/electronic copy) |
| | TM-CLKL-C4 M45/900 | | (w/electronic copy) |
| | TM-CLKL-C7 M45/900 | | (w/electronic copy) |
| | TM-CLKL-C8 M45/900 | | (w/electronic copy) |
| | AUES (ETL) | - Attn: Mr. Ben TAM | (w/o) |
| | Wing Ho Yuen (C7) | - Attn: Mr. Joe FUNG | (w/o) |
| | Kong Hing (C8) | - Attn: Mr. Vincent LI | (w/o) |

Agreement No. CE 7/2011 (HY)

Tuen Mun – Chek Lap Kok Link – Design and Construction

Landscape and Visual Plan

(Ref. A37-04B) Rev.B



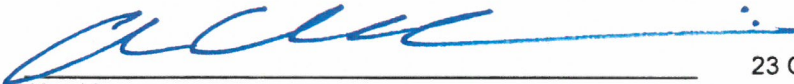
HIGHWAYS DEPARTMENT
MAJOR WORKS PROJECT MANAGEMENT OFFICE
(SPECIAL DUTIES)

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

Landscape and Visual Plan

October 2024

Reviewed:



Alex Li
(Executive Director)

23 October 2024

Approved for Issue:



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

23 October 2024

AECOM ASIA COMPANY LIMITED This report is prepared for HyD and is given for its sole benefit in relation to and pursuant to Agreement No. CE 7/2011(HY) and may not be disclosed to, quoted to or relied upon by any person other than HyD without our prior written consent. No person (other than HyD) into whose possession a copy of this report comes may rely on this report without our express written consent and HyD may not rely on it for any purpose other than as described above.

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

Landscape and Visual Plan

Table of Contents

| | <u>Page</u> | | |
|---|--------------------|--------------|--|
| 1 INTRODUCTION..... | 1 | Figure 3.3 | North Ventilation Building at Northern Landfall (Contract 2 – HY/2012/08) |
| 1.1 This Assignment..... | 1 | Figure 4.1 | Vitreous Enamel (VE) Panel at Retaining Wall RW_B (Contract 3 – HY/2013/12) |
| 1.2 Background..... | 1 | Figure 4.2 | Vehicular Underpass East Portal (Contract 3 – HY/2013/12) |
| 1.3 The Project..... | 2 | Figure 4.3 | Vehicular Underpass West Portal (Contract 3 – HY/2013/12) |
| 1.4 Scope of this Landscape and Visual Plan..... | 4 | Figure 4.4 | Footbridge (Contract 3 – HY/2013/12) |
| 1.5 Abbreviations..... | 4 | Figure 4.5 | Viaduct Bridge G2 (Contract 3 – HY/2013/12) |
| | | Figure 4.6 | Paving Pattern at Deck (Contract 3 – HY/2013/12) |
| | | Figure 5.1 | Main Control Building (Contract 4 – HY/2017/10) |
| 2 DESIGN CONSIDERATIONS..... | 5 | Figure 5.2 | Maintenance Depot at Northern Landfall (Contract 4 – HY/2017/10) |
| 2.1 Landscape Design Considerations..... | 5 | Figure 5.3 | Administration Building at Northern Landfall (Contract 4 – HY/2017/10) |
| | | Figure 5.4 | Satellite Control Building at Southern Landfall (Contract 4 – HY/2017/10) |
| | | Figure 5.5 | Reprovisioned Customs and Excise Department Building at Northern Landfall (Contract 4 – HY/2017/10) |
| 3 MITIGATION MEASURES..... | 6 | Figure 5.6 | Reprovisioned Fire Services Department Building at Northern Landfall (Contract 4 – HY/2017/10) |
| 3.1 Landscape and Visual Mitigation Measures..... | 6 | Figure 5.7 | Buffer Planting and Enhancement of Townscape Quality at Northern Landfall (Contract 4 – HY/2017/10) |
| 3.2 Compensatory Landscape Planting..... | 10 | Figure 5.8 | Buffer and Structure, Ornamental Planting at Maintenance Depot and Administration Building (Contract 4 – HY/2017/10) |
| 3.3 Tree Compensation..... | 10 | Figure 5.9 | Buffer and Structure, Ornamental Planting at Maintenance Depot and Administration Building (Contract 4 – HY/2017/10) |
| 4 CONCLUSION | 11 | Figure 5.10 | Buffer Planting and Enhancement of Townscape Quality at Northern Landfall (Contract 4 – HY/2017/10) |
| TABLES | | Figure 6.1 | Planting Schedule –(Contract 1 - HY/2012/07) |
| Table 3.1 Summary of Achievement of Mitigation Measures | | Figure 6.2 | Planting Schedule –(Contract 3 - HY/2013/12) |
| Table 3.2 Summary of Compensatory Planting Areas proposed for the Project | | Figure 6.3 | Planting Schedule –(Contract 4 - HY/2017/10) |
| Table 3.3 Summary of Tree Compensation | | Figure 6.4 | Planting Schedule for Southern Landfall (Contract 1 - HY/2012/07 and Contract 4 - HY/2017/10) |
| FIGURES | | Figure 7.1 | Tree Transplant (CM2) (Contract 1 – HY/2012/07) |
| Figure 1.1 Project Location Plan | | Figure 7.2 | On Site Tree Transplant (CM2) (Contract 3 - HY/2013/12) |
| Figure 1.2 Contract 1 – Southern Connection Viaduct Section | | Figure 8.1 | Mitigation Measures in Construction Phase (Contract 1 - HY/2012/07) |
| Figure 1.3 Contract 2 – Northern Connection Sub-Sea Tunnel Section | | Figure 8.2 | Mitigation Measures in Construction Phase (Contract 1 - HY/2012/07) |
| Figure 1.4 Contract 3 – Northern Connection Toll Plaza and Associated Works | | Figure 8.3 | Mitigation Measures in Construction Phase (Contract 1 - HY/2012/07) |
| Figure 1.5 Contract 4 – Northern Connection Tunnel Buildings, Electrical and Mechanical Works | | Figure 8.4 | Mitigation Measures in Construction Phase (Contract 2 - HY/2012/08) |
| Figure 1.6 Contract 5 – Northern Connection Traffic Control and Surveillance System | | Figure 8.5 | Mitigation Measures in Construction Phase (Contract 2 - HY/2012/08) |
| Figure 2.1 Roadside Planting and Preservation of Existing Woodland (Contract 1 – HY/2012/07) | | Figure 8.6i | Screening of Construction Works by Hoardings Around Works (CM5) (Contract 2 - HY/2012/08) |
| Figure 2.2 Viaduct Design (Contract 1 – HY/2012/07) | | Figure 8.6ii | Screening of Construction Works by Hoardings Around Works (CM5) (Contract 2 - HY/2012/08) |
| Figure 3.1 Aesthetic Design of North and South Portal at Landfalls (Contract 2 – HY/2012/08) | | Figure 8.7 | Mitigation Measures in Construction Phase (Contract 3 - HY/2013/12) |
| Figure 3.2 Paving Pattern of Concrete Paving Block (Contract 2 – HY/2012/08) | | | |

| | |
|-------------|---|
| Figure 8.8 | Mitigation Measures in Construction Phase (Contract 3 - HY/2013/12) |
| Figure 8.9 | Mitigation Measures in Construction Phase (Contract 3 - HY/2013/12) |
| Figure 8.10 | Mitigation Measures in Construction Phase (Contract 4 - HY/2017/10) |
| Figure 8.11 | Mitigation Measures in Construction Phase (Contract 4 - HY/2017/10) |

APPENDICES

| | |
|--------------|--|
| Appendix A | General Layout and Scope of Contracts for TM-CLKL Project |
| Appendix B | Letter of Certification from Environmental Team Leader and Independent Environmental Checker |
| Appendix C | Mitigation Measures Plan (Operation Phase) and Landscape Sections |
| Appendix D | Proposed Compensatory Planting Areas |
| Appendix E.1 | Summary of Tree Compensation |
| Appendix E.2 | Tree Planting on Slopes |
| Appendix E.3 | Tree Compensation Outside Project Boundary |
| Appendix F | Implementation of Mitigation Measures |
| Appendix G | Tree Transplant |
| Appendix H | Mitigation Measures at Construction Phase |
| Appendix I | Implementation Schedule |

1 INTRODUCTION

1.1 This Assignment

1.1.1 In accordance with Agreement No. CE 7/2011 (HY), signed on 28 November 2011, AECOM Asia Co. Ltd. (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.

1.2.4 In May 2008, HyD engaged Messrs. AECOM Asia Co. Ltd. to undertake the investigation and preliminary 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:

- (a) the existing and future widening of Urmston Road;
- (b) the FSD Fireboat Station and the associated berths at Tuen Mun River Trade Terminal;
- (c) the proposed crematorium and columbarium funeral services centre at Tuen Mun Area 46;
- (d) the Tuen Mun Immigration Anchorage and Sham Shui Kok Anchorage;
- (e) the existing and planned marine borrow pits and mud disposal pits (including the three proposed contaminated mud pit at south of the Brothers);
- (f) the existing and planned submarine utilities connecting HKIA and Tuen Mun;
- (g) the existing & future Tung Chung Navigation Channel;
- (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;

- (j) the Airport Railway;
- (k) the Pak Mong Site of Archaeological Interest and Tai Ho Site of Archaeological Interest;
- (l) the Hong Kong International Airport Approach Areas around Airport Island;
- (m) the Airport Height Restriction;
- (n) the Hong Kong Observatory's aviation beacons and meteorological equipment; and
- (o) the interface with other projects including HKBCF, TMWB, Further Landscape Enhancement 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) 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 Tung Chung New Town.
- (b) 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 minimizes the impacts on the marine ecology.
- (c) 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 also subject to review under TMWB project).

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 4 November 2009 with a set of conditions to be followed.

1.2.7 On 12 June 2009, the draft Chek Lap Kok Outline Zoning Plan (OZP) No. S/I-CLK/11, with the southern 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, HyD 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 contract has been awarded in November 2011.

- | | |
|--|---|
| <p>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.</p> <p>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.</p> <p>1.2.12 In the Investigation Assignment, priority was given to adopt the drained-reclamation (instead of full-dredging) 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.</p> <p>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.</p> <p>1.2.14 In the further GI and laboratory testing carried out in early 2010 under HY/2009/23, more Category Mp and Mr (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.</p> <p>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 Mp and Mr sediment was found. The Sediment Quality Report was submitted to EPD for approval in April 2011.</p> <p>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.</p> <p>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:-</p> <ul style="list-style-type: none"> (a) to review the working papers, reports and documents about the geotechnical design of the 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 (b) to advise on the constructability of the large diameter TBM tunnels and the cross-passages; risk mitigation measures; and recommend any necessary further ground investigation, based on the outcome of the review. | <p>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.</p> <p>1.2.19 According to the EPs of the HKLR, HKBCF and TM-CLKL projects, an independent Environmental 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>1.2.23 The 2019 Policy Address has required that “... <i>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</i> ...” 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.</p> <p>1.3 The Project</p> <p>1.3.1 The scope of the whole TM-CLKL project comprises the followings:</p> <ul style="list-style-type: none"> (a) Construction of a dual 2-lane road tunnel (in two tubes) of approximately 5.0km long between Tuen Mun and the proposed HKBCF at northeast of HKIA; (b) 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, carriageways, footpaths, central reserve/refuge islands and the ancillary works.; (c) Construction of approach roads to the subsea tunnel including cut-and-cover tunnels at both the Southern Landfall and the Northern Landfall; (d) Construction of maintenance access roads on the Northern and Southern Landfalls; (e) Construction of a dual 2-lane marine viaduct of approximately 1.6km long across the sea between the proposed HKBCF and NLH; (f) Construction of four slip roads connecting the marine viaduct with the NLH; (g) Construction of a single 2-lane viaduct and a single 3-lane viaduct, each of approximately 500m long, connecting the associated roads in Tuen Mun and the Northern Landfall; |
|--|---|

- (h) Site formation for construction of the road deck, including construction of associated slope works 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;
- (k) Modification and realignment of existing Lung Mun Road and Lung Fu Road including 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;
- (l) Construction of administration building, main control building, maintenance depot and ancillary 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;
- (m) Extension of the existing 4-cells box culvert adjacent to Tuen Mun River Trade Terminal;
- (n) Construction of a temporary pontoon and re-provisioning of existing government berths and associated facilities at Tuen Mun River Trade Terminal;
- (o) Realignment of the seawall maintenance road at the seafront of North Lantau, including modification of the existing seawall for construction of the foundation works of the proposed elevated carriageway;
- (p) Modification and realignment of sections of NLH and Cheung Tung Road including construction of associated slope works with natural terrain hazard mitigation measures and utility diversion works;
- (q) Laying of a fire main along Cheung Tung Road (this works element is identified after finalizing the road scheme for gazette);
- (r) Relocation of two public lighting substations along Cheung Tung Road as agreed with relevant management and maintenance authorities;
- (s) Construction of route-wide E&M works, TCSS and facilities for the TM-CLKL, including 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
- (t) Construction of associated works including civil, structural, geotechnical, marine, drainage, 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.

Contract 1 - Southern Connection including all viaducts and slip roads connecting the HKBCF and 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 - 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).

Contract 3 - 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 Road ("Designer-Led" approach).

Contract 4 - 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 services.

Contract 5 - Route-wide TCSS system (Design, supply and installation of a traffic control and surveillance system for the TM-CLKL Northern Connection).

The extent and scope of the above Contracts 1 to 5, including the responsibility of implementation of 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 | June 2013 to 1 st half of 2019 at the earliest |
|--------------------------------|---|

Contract 2 – Contract No. HY/2012/08 – Northern Connection Sub-sea Tunnel Section

| | |
|--------------------------------|-------------------------------------|
| Design and Construction Period | August 2013 to 2020 at the earliest |
|--------------------------------|-------------------------------------|

Contract 3 – Contract No. HY/2013/12 – Northern Connection Toll Plaza and Associated Works

| | |
|---------------------|---|
| Construction Period | July 2014 to 1 st half of 2019 |
|---------------------|---|

Contract 4 – Contract No. HY/2017/10 – Northern Connection Tunnel Buildings, Electrical and Mechanical Works

| | |
|---------------------|----------------------------------|
| Construction Period | May 2018 to 2020 at the earliest |
|---------------------|----------------------------------|

Contract 5 – Contract No. HY/2014/10 – Northern Connection Traffic Control and Surveillance System

| | |
|--------------------------------|----------------------------------|
| Design and Construction Period | 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. DC/2016/01, <i>Construction of an Additional Sewage Rising Main between Tung Chung and Siu Ho Wan and Associated Works</i> . 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 rehabilitation. The major benefit of this project is to enhance the operation reliability of the sewerage. In view of the importance of the project, part of the landscape softworks has been entrusted to this project 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 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 . | HyD HyD/Lighting LandsD TD WSD <u>Others</u> ACABAS HKIA MTRC | Highways Department Highways Department/Lighting Division Lands Department Transport Department Water Supplies Department Advisory Committee on the Appearance of Bridges and Associated Structures Hong Kong International Airport Mass Transit Railway Corporation |
| 1.4 | Scope of this Landscape and Visual Plan | | |
| 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. | 1.5.3 | Road/Places |
| 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. | | CTR HKBCF HZMB LFR LMR LLP NLH PDA TM-CLKL TMWB |
| 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. | | Cheung Tung Road Hong Kong Boundary Crossing Facilities Hong Kong – Zhuhai – Macao Bridge Lung Fu Road Lung Mun Road Lantau Logistics Park North Lantau Highway Potential Development Area Tuen Mun – Chek Lap Kok Link Tuen Mun Western Bypass |
| 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: <ul style="list-style-type: none">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 |

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 sought 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/exits. 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 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

| ID No. | Design Measures | Summary of Achievement of the Proposed Mitigation Measures | Relevant Contract(s) |
|--------|--|---|----------------------|
| DM1 | The large surface of the retaining wall along the toll plaza area shall adopt a patterned/smooth finishes and texture design to break the large surface. Climber treatment is proposed to soften the structures. | <p>Rib pattern to break the large surface has been incorporated in the detail design of the retaining walls.</p> <p>In particular, for the highly visible retaining wall along Lung Mun Road below the road deck, retaining wall RW_B, there will be a graphic art design on vitreous enamel (VE) cladding panels, enhancing the roadside aesthetics and reducing the apparent height and bulkiness of the wall. Due to the under shade location of the retaining wall, greenery and sinuous pattern is adopted instead of climber treatment.</p> <p>The VE cladding panels and the graphic design for RW_B were accepted by ACABAS. The graphic art and the VE cladding panel sample are shown in Figure 4.1 of Appendix F.</p> | C3 |
| 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. | <p>The design of the buildings, including North and South Ventilation Buildings, Main Control Building, Maintenance Depot, Administration Building, Satellite Control Building, the reprovisioned C&ED Building and the reprovisioned FSD Building, have been incorporated in the Aesthetic Design Submission Stage 2 reports submitted to the Design Advisory Panel of Architectural Services Department.</p> <p>Drawing of the North Ventilation Building under Contract 2 is shown in Figure 3.3 of Appendix F.</p> <p>Drawings of the buildings to be constructed under Contract 4 are shown in Figures 5.1 to 5.6 of Appendix F.</p> | C2, C4 |

| ID No. | Design Measures | Summary of Achievement of the Proposed Mitigation Measures | Relevant Contract(s) |
|--------|---|--|----------------------|
| DM3 | Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission. | <p>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.</p> <p>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 341st meeting.</p> <p>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.</p> <p>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.</p> | C1, C3 |
| DM4 | Details of the street furniture will be developed in the detailed design stage. | <p>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.</p> <p>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.</p> <p>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.</p> | C1, C2, C3, C4 |

| ID No. | Design 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. | <p>The proposed aesthetic design for the TM-CLKL Southern Connection Viaduct Section was accepted by ACABAS in the 342nd Meeting. Further ACABAS submission was made under Contract 1 in the detailed design stage on the latest design and aesthetics enhancement for the 356th Meeting and the submission on designs of the bridge was accepted. Extracted ACABAS drawing is shown in Figure 2.2 of Appendix F.</p> <p>Aesthetic designs of the North and South Tunnel Portals have been developed and submitted to ACABAS under Contract 2. Extracted ACABAS drawing is shown in Figure 3.1 of Appendix F.</p> <p>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.</p> <p>Also under Contract 3, the aesthetic design for the following elements were submitted to and accepted by ACABAS:</p> <ul style="list-style-type: none"> 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) | C1, C2, C3 |

| ID No. | Construction Phase Mitigation Measures | Summary of Achievement of the Proposed Mitigation Measures | Relevant Contract(s) |
|--------|--|---|----------------------|
| 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. | The retained trees are preserved and protected according to the Contract Specification. As required under the 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 Contract 3. | C1, C3 |
| 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. | <p>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.'</p> <p>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 site.</p> <p>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.</p> | C1, C3 |
| CM3 | Hillside and roadside screen planting to proposed roads, associated structures and slope works. | <p>The following measures have been taken by the Contractor to allow vegetation as screening for the works during construction phase:</p> <ul style="list-style-type: none"> 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. <p>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.</p> | 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 | |
| CM4 | Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone). | 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. Photo record in Appendix H illustrate some locations for the implementation of CM4. Contract 1: Figure 8.2 Contract 2: Figure 8.4 Contract 3: Figure 8.8 Contract 4: Figure 8.10 | C1, C2, C3, C4 |
| 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 |
| 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 excessive lighting would be switched on. The control of lighting would also fulfil the Requirement on Aviation Aspects. | C1, C2, C3, C4 |

| | | | |
|-----|---|--|-----------------------|
| | | <ul style="list-style-type: none"> 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. 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. <p>Photo record in Appendix H illustrate some locations for the implementation of CM6.</p> <p>Contract 1: Figure 8.3 Contract 2: Figure 8.5 Contract 3: Figure 8.8 Contract 4: Figure 8.11</p> | |
| 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: <ul style="list-style-type: none"> 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. <p>Photo record in Appendix H illustrate some locations for the implementation of CM7.</p> <p>Contract 1: Figure 8.3 Contract 2: Figure 8.4, Figure 8.5 Contract 3: Figure 8.9 Contract 4: Figure 8.11</p> | C1, C2, C3, C4 |
| CM8 | Avoidance of excessive height and bulk of buildings and structures. | The design of viaducts and associated structures were designed with consideration in aesthetics and were accepted by ACABAS. | C1, C2, C3, C4 |

| | | | |
|------|--|---|-------------------|
| | | <p>The aesthetic design of buildings was submitted to Architectural Services Department for approval under Aesthetic Design Submission Stage 2.</p> <p>For the North and South Ventilation Buildings under Contract 2, E&M equipment was arranged in 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).</p> | |
| CM9 | Recycle/Reuse all felled trees and vegetation, e.g. mulching | <p>With reference to Development Bureau's <i>Guidelines on Yard Waste Reduction and Treatment</i>, the following measures are taken.</p> <p><u>Reduce</u></p> <ul style="list-style-type: none"> 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. <p><u>Recycle</u></p> <ul style="list-style-type: none"> 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. <p><u>Reuse</u></p> <ul style="list-style-type: none"> Wood without suspected pest and disease will be reused, e.g. soil conditioner, mulching. | C1, C3 |
| CM10 | 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. | <p>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.</p> <p>As commented in the approval memo in Year 2013, the design of the compensatory planting proposal within the approved application requires further review and amendment.</p> <p>Tree planting proposals under Contract 1, Contract 3 and Contract 4 have been progressively agreed with the relevant maintenance authorities, i.e. HyD and LCSD.</p> <p>A summary of tree compensation to show the quantity of the required compensatory tree quantity and the tree planting quantity on the agreed planting proposals is shown in Table E.1 in Appendix E.</p> | C1, C3, C4 |

| | | The tree planting quantity meet the compensatory tree quantity required from the Tree Removal Applications. | |
|--------|--|--|-----------------------|
| ID No. | Operation Phase Mitigation Measures | Summary of Achievement of the Proposed Mitigation Measures | Relevant Contract(s) |
| OM1 | Re-vegetation of affected woodland/shrubland with native species | A mix of natives and exotic species will be 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 |
| OM2 | Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities. | <p>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.</p> <p>Rock slopes are provided with climbers for greening.</p> <p>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, 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.</p> | C1, C3, C4 |
| 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. | <p>Streetscape elements are designed in accordance to HyD standard drawings and relevant manuals for the purpose of road safety.</p> <p>Signage is of standard designs according to standard drawings published by HyD.</p> <p>Lighting units are standard designs which meet the requirements set out in the Public Lighting Design Manual and HyD standard drawings.</p> <p>The paving pattern for the road deck and for Southern and Northern Landfalls uses light grey and dark grey concrete blocks to form simple banding pattern and simple colour trims which harmonize the grey tones of the buildings.</p> | C1, C2, C3, C4 |

| ID No. | Operation Phase Mitigation Measures | Summary of Achievement of the Proposed Mitigation Measures | Relevant Contract(s) |
|--------|---|---|-----------------------|
| 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. | <p>The provision of ornamental 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, the substrate conditions and gradient of slopes, traffic sight lines, clearance from street lighting and signage, operational and security needs of 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 trees.</p> <p>For prominent area such as the new roundabout area at the junction of Lung Mun 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 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 value of the area. The tree planting arrangement at this node is illustrated in Figure 4.2 of Appendix F.</p> | C1, C3, C4 |
| 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. | <p>The aesthetic designs of the proposed viaducts and associated structures were submitted to and accepted by the ACABAS.</p> <p>The aesthetic designs of all buildings were submitted to Architectural Services Department under Aesthetic Design Submission Stage 2.</p> | C1, C2, C3, C4 |
| OM6 | Avoidance of excessive height and bulk of buildings and structures. | <p>The design of viaduct and associated structures were designed with consideration in aesthetics and submissions were accepted by ACABAS.</p> <p>For buildings, the aesthetic designs were submitted to Architectural Services Department under Aesthetic Design Submission Stage 2.</p> <p>To reduce the building height for the Northern and Southern Ventilation Buildings, 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).</p> | C1, C2, C3, C4 |

3.2 Compensatory Landscape Planting

- 3.2.1 According to the Condition 2.9 of Environmental Permit No. EP-354/2009/D, at least 33 ha of landscape planting are required for the whole TM-CLKL Project. The compensatory landscape planting areas for different contracts under this Project are tabulated in **Table 3.2** and shown in **Appendix D**.
- 3.2.2 A total of **approximately 34.13 ha** of landscape planting area will be achieved.

Table 3.2 Summary of Compensatory Planting Areas proposed for the Project

| Contract | Location | Landscape Planting Area |
|---|--|-------------------------|
| Contract No. HY/2012/07 (Contract 1) | North Lantau Highway Section, Cheung Tung Road Section and the southern portion of the Southern Landfall | Approx. 14.41 ha |
| Contract No. HY/2013/12 (Contract 3) | Tuen Mun Section | Approx. 5.35 ha |
| Contract No. HY/2017/10 (Contract 4) | Northern Landfall at Tuen Mun and the northern portion of the Southern Landfall | Approx. 14.37 ha |
| Total Landscape Planting Area: | | Approx. 34.13 ha |

3.3 Tree Compensation

- 3.3.1 Compensatory tree planting shall meet the higher quantity as stated in the approved EIA Report, i.e. 6,300 heavy standard trees and light standard trees as compared to the compensatory tree quantity from tree removal applications (mitigation measure CM10) which is 5,108. The summary of tree compensation in **Table E.1** summarized the tree compensation including transplant trees required in the approved EIA Report, in the tree removal applications and presented in this LVP.
- 3.3.2 Based on the approved planting proposals with the relevant maintenance departments/ agents, 5,353 heavy standard trees to light standard trees could be accommodated within the project boundary in consideration of the landscape design constraints described in **Section 2** of this LVP. As such, mitigation measure CM10 is satisfied by the tree planting within the project boundary. However, to meet 6,300 trees, compensatory tree planting outside the project boundary is necessary.
- 3.3.3 Compensatory tree planting on slopes of HyD have been agreed with the relevant maintenance department, i.e. HyD/Landscape Division ascertained the practicality of the proposed tree planting works. The location, extent, average slope angles, tree species, size and spacing of the compensatory tree planting on each of the slope within the project boundary for compensatory tree planting are illustrated in **Appendix E.2**.
- 3.3.4 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.

Table 3.3 Summary of Tree Compensation

| Description | Approved EIA Report | Compensatory Tree Planting | | | |
|------------------------------------|---|---|-------------------------------------|---------------------------------------|--|
| | | 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 | 383 | 269 | 414 |
| | | | 383 | 683 | |
| | | | 1,066 | | |
| Total | 6,300 nos. (approx.) (Tree Size: Light Standard, Heavy Standard) | 6,419 nos. (Tree Size: Light Standard to Heavy Standard) | | | |

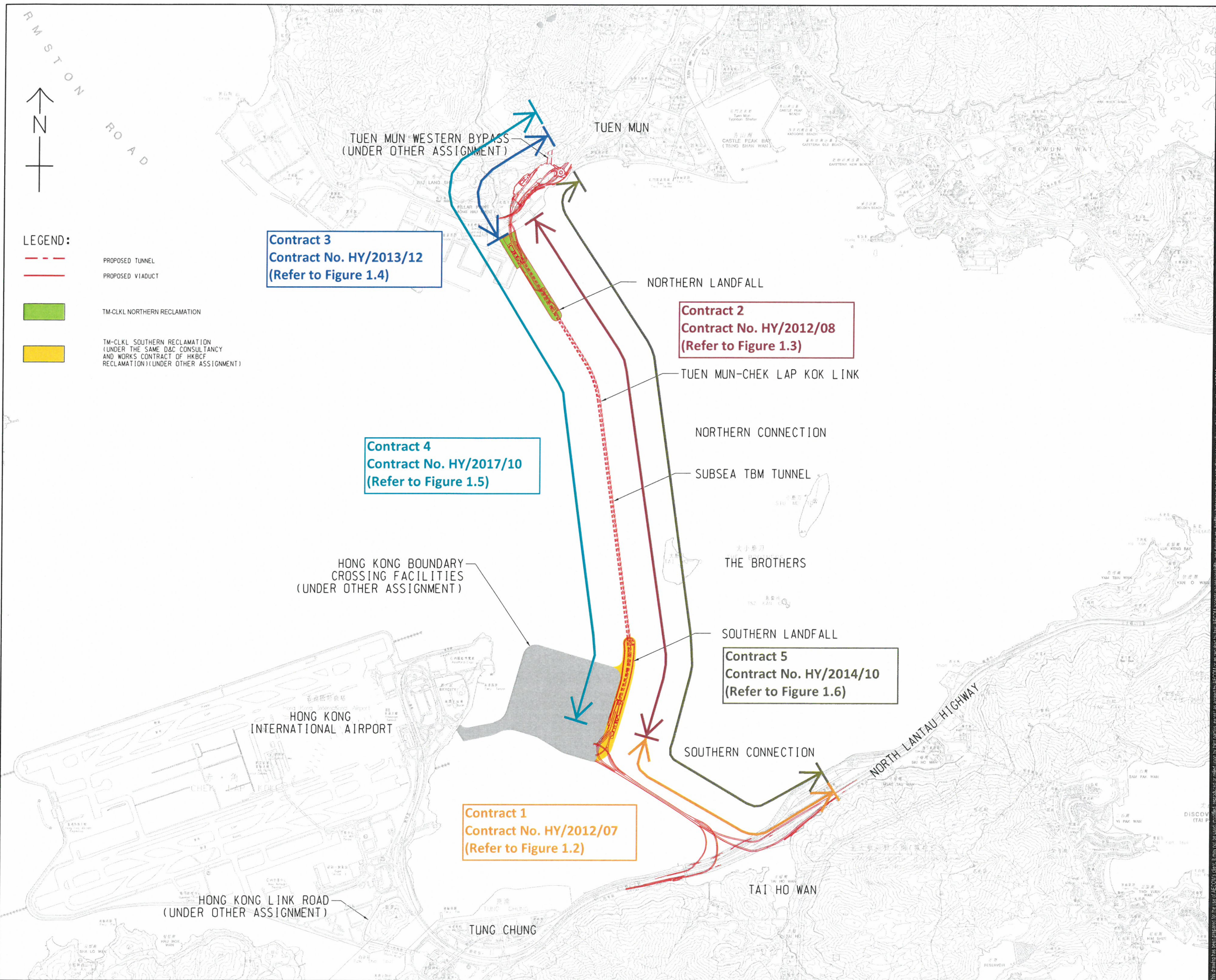
4 CONCLUSION

- 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.

Appendix A

General Layout and Scope of Contracts for TM-CLKL Project

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: kaitinwong 2017/10/20
PATH_VITOToRSSCD Landscape Master Plan 2020 1029.dgn FIGURE 1.1.dgn



AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK DESIGN AND CONSTRUCTION

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|---------------|------|
| A | SEP 20 | LAYOUT UPDATE | CL |

STATUS
RIT

SCALE
比例
A1 1:1000 A3 1:2000

DIMENSION UNIT
尺寸單位
MILLIMETRES

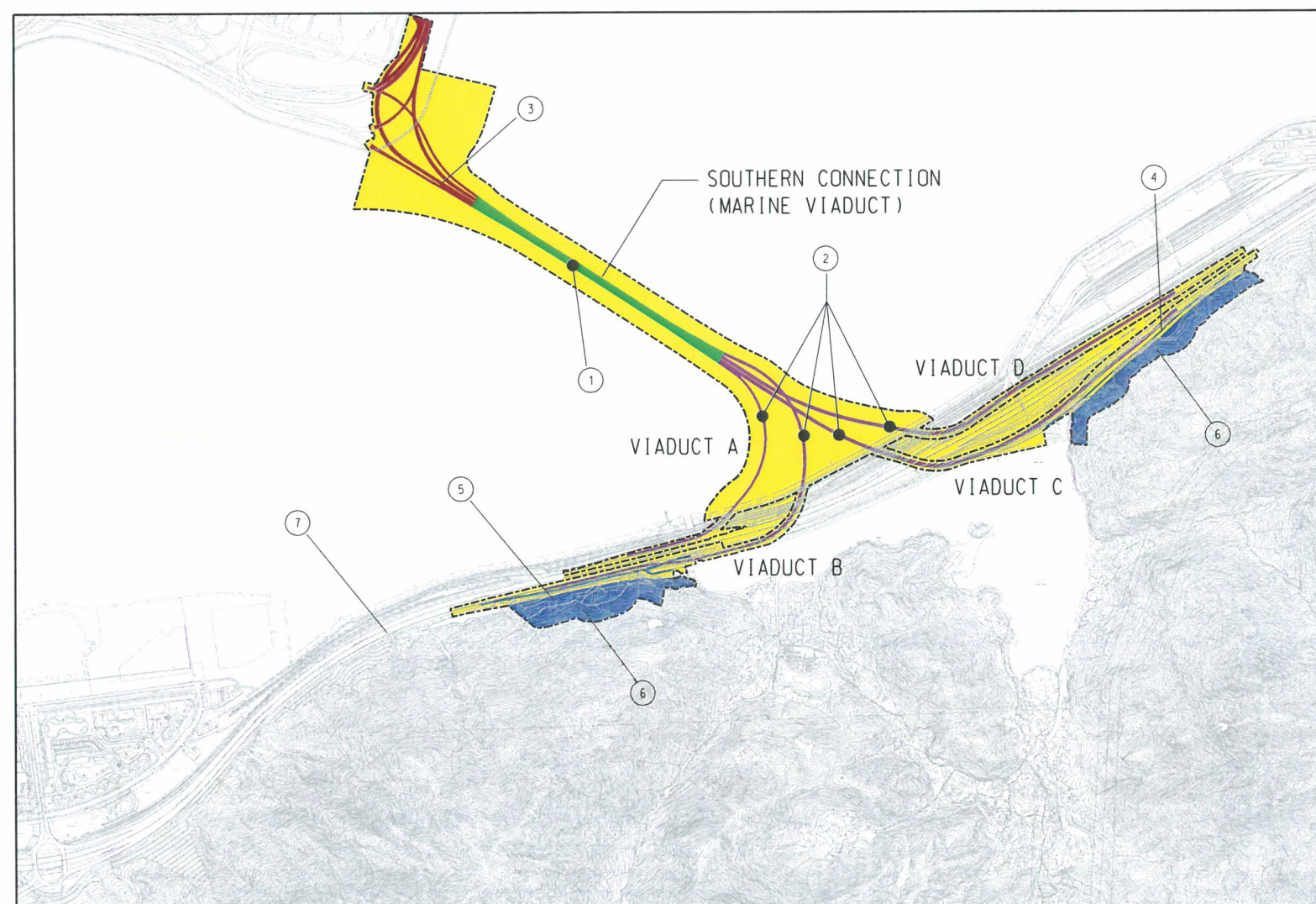
KEY PLAN
索引圖

PROJECT NO.
項目編號
60240249

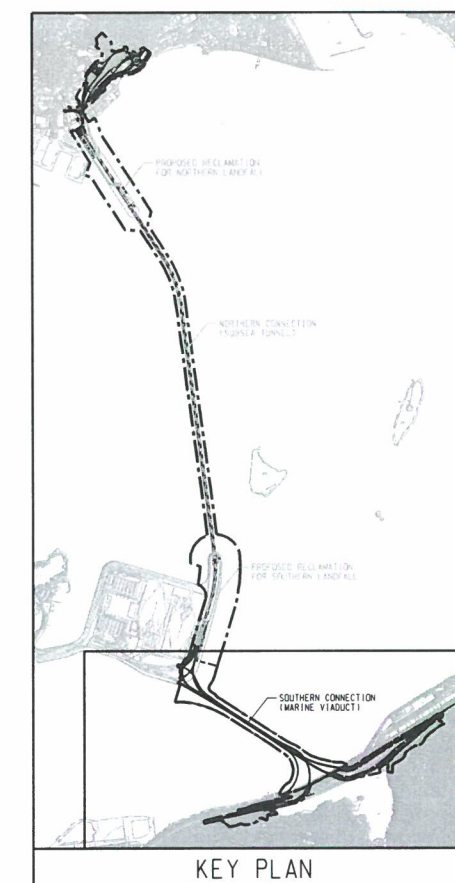
CONTRACT NO.
合約編號
HY/2017/10

SHEET TITLE
圖紙名稱
PROJECT LOCATION PLAN

SHEET NUMBER
圖紙編號
FIGURE 1.1



- 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)



PROJECT
10.1

**TUEN MUN -
CHEK LAP KOK LINK**

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

CLIENT

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| A | SEP 20 | LAYOUT UPDATE | C |
|------------|--------------|---------------|---|
| IR FILE | DATE FILE | DESCRIPTION | C |

STATUS

| | |
|--------------------------------|-------------------------------|
| SCALE 比例 | DIMENSION UNIT 尺寸單位 |
| ATT. \$: 1000 A3 1:2000 | MILLIMETRES |

KEY PLAN

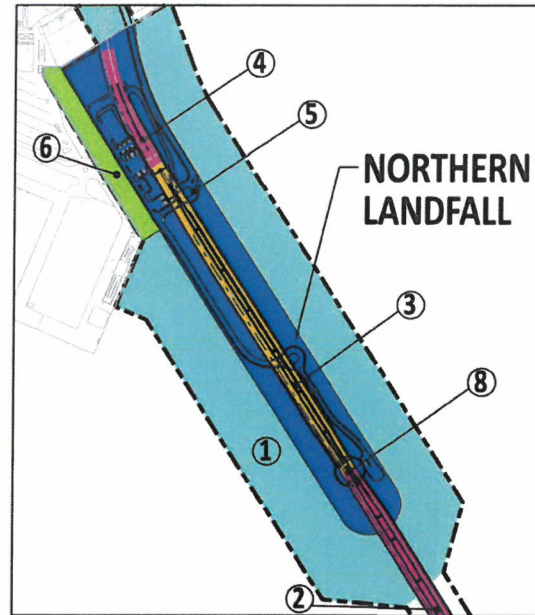
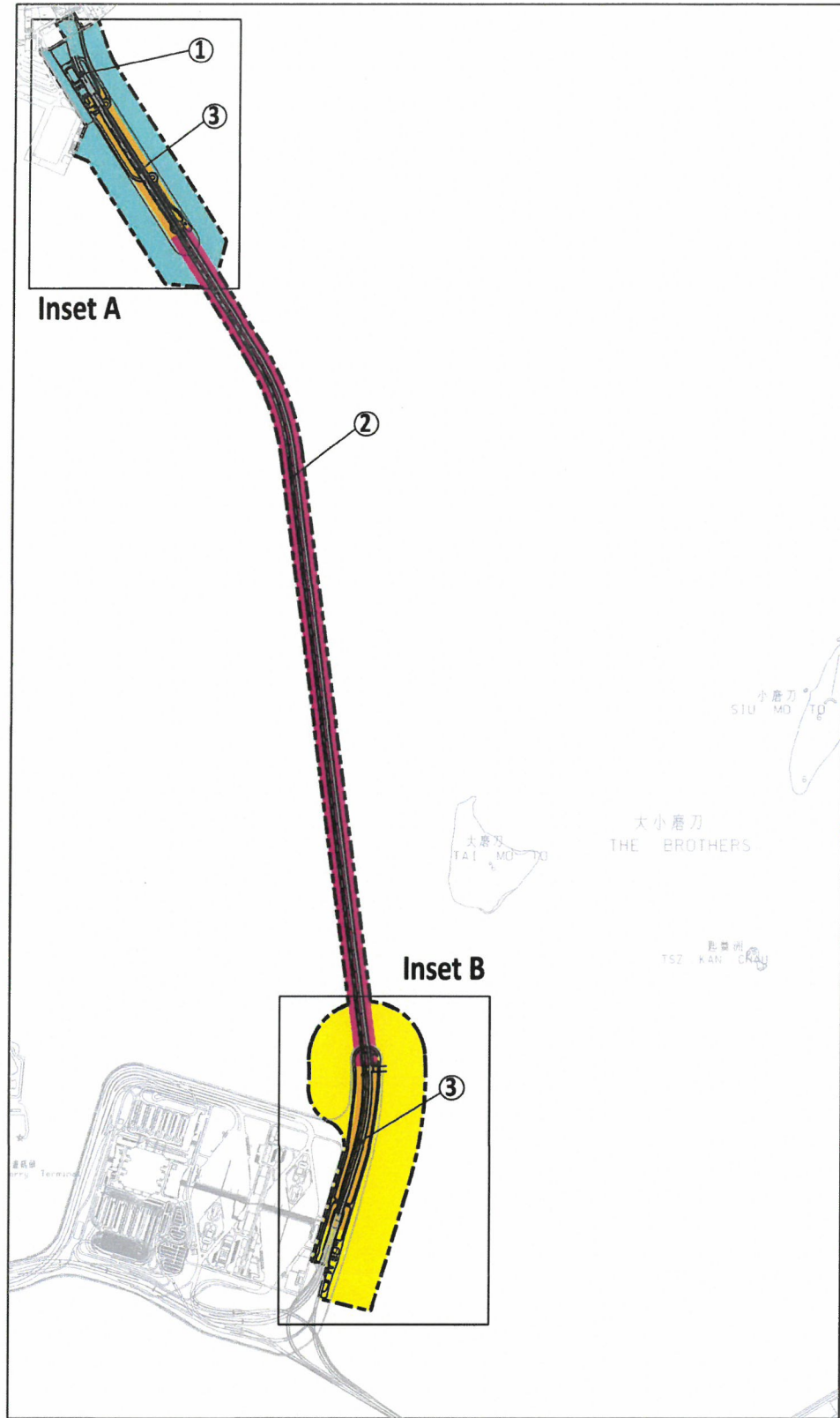
| | |
|---------------------|----------------------|
| PROJECT NO. 項目編號 | CONTRACT NO. 合約編號 |
| 60240249 | HY/2012/07 |

SHEET TITLE
圖號名稱

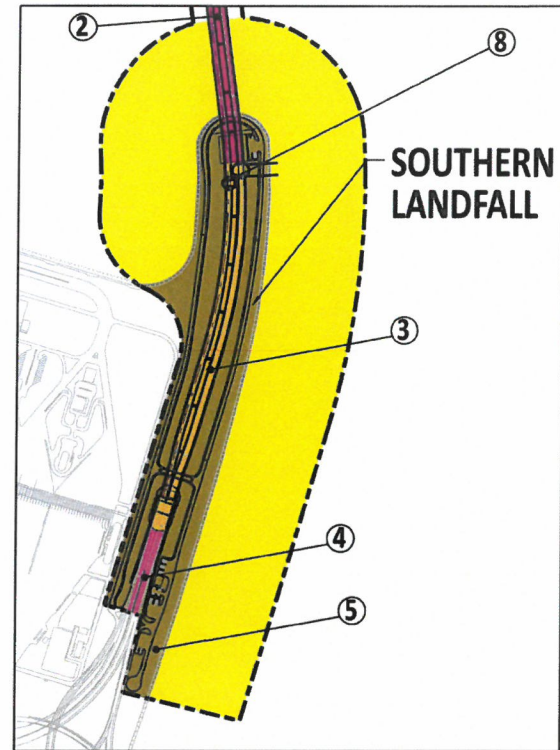
CONTRACT 1- SOUTHERN
CONNECTION VIADUCT
SECTION

SHEET NUMBER

FIGURE 1.2



Inset A



Inset B

- ① Northern Reclamation of around 16.5ha with 2.10km seawall (including temporary portion for berthing and reprovisioning of Government berths)
- ② TBM Tunnel (2 tubes) - around 4km
- ③ Tunnels at Southern and Northern Landfalls - around 1.6km
- ④ Approach Ramp Structures and Retaining Walls
- ⑤ At-grade roads at Southern and Northern Landfall
- ⑥ Box Culvert Extension at Northern Landfall
- ⑦ Drainage, sewerage, waterworks, utilities at Southern and Northern Landfalls
- ⑧ North Ventilation Building and South Ventilation Building

AECOM

PROJECT
TUN MUN - CHEK LAP KOK LINK

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

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

| ISSUE/REVISION | | | |
|----------------|--------|---------------|------|
| REV | DATE | DESCRIPTION | CHK. |
| | | | |
| | | | |
| | | | |
| | | | |
| A | SEP 20 | LAYOUT UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |
| | | | |

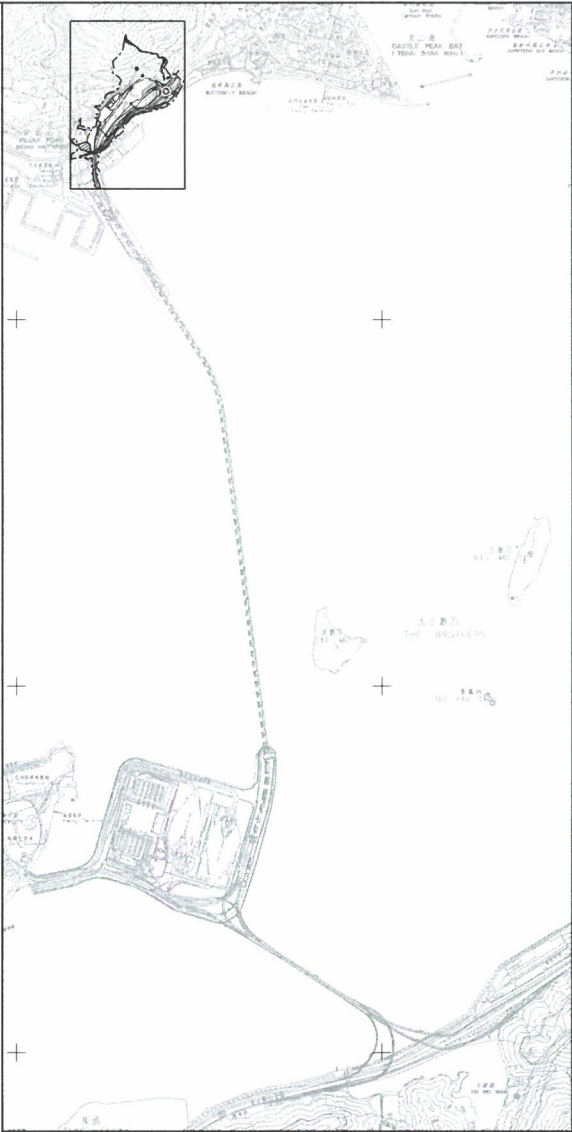
STATUS
WORKING DRAWING
SCALE
N.T.S.
KEY PLAN

PROJECT NO.
60240249
CONTRACT NO.
HY/2012/08
SHEET TITLE
CONTRACT 2 - NORTHERN
CONNECTION SUB-SEA TUNNEL
SECTION
SHEET NUMBER
FIGURE 1.3



SCALE A1 1 : 3000

- 1 APPROACH ROAD TO VEHICULAR UNDERPASS AND TO VIADUCT
- 2 ASSOCIATED CONNECTIONS INCLUDING VIADUCT CONNECTING NORTH PORTAL AREA
- 3 FOOTBRIDGE
- 4 NATURAL TERRAIN HAZARD MITIGATION WORKS
- 5 DRILL AND BLAST TUNNEL - AROUND 230m (VEHICULAR UNDERPASS)
- 6 LUNG MUN ROAD AND LUNG FU ROAD JUNCTION MODIFICATION WORKS, SLIP ROADS AND ROUNDABOUT
- 7 SLOPE WORKS
- 8 DRAINAGE, SEWERAGE, WATERWORKS AND UTILITIES
- 9 LANDSCAPING WORKS ALONG APPROACH ROADS AND ALONG LUNG MUN ROAD AND LUNG FU ROAD



KEY PLAN
SCALE A1 1 : 30000

AECOM

PROJECT

**TUEN MUN -
CHEK LAP KOK LINK**

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

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| IR | DATE | DESCRIPTION | CHK. |
|----|--------|---------------|------|
| A | SEP 20 | LAYOUT UPDATE | CL |

STATUS

PRELIMINARY

SCALE DIMENSION UNIT

A1 1:3000

KEY PLAN A1 1:30000

PROJECT NO.

60240249

CONTRACT NO.

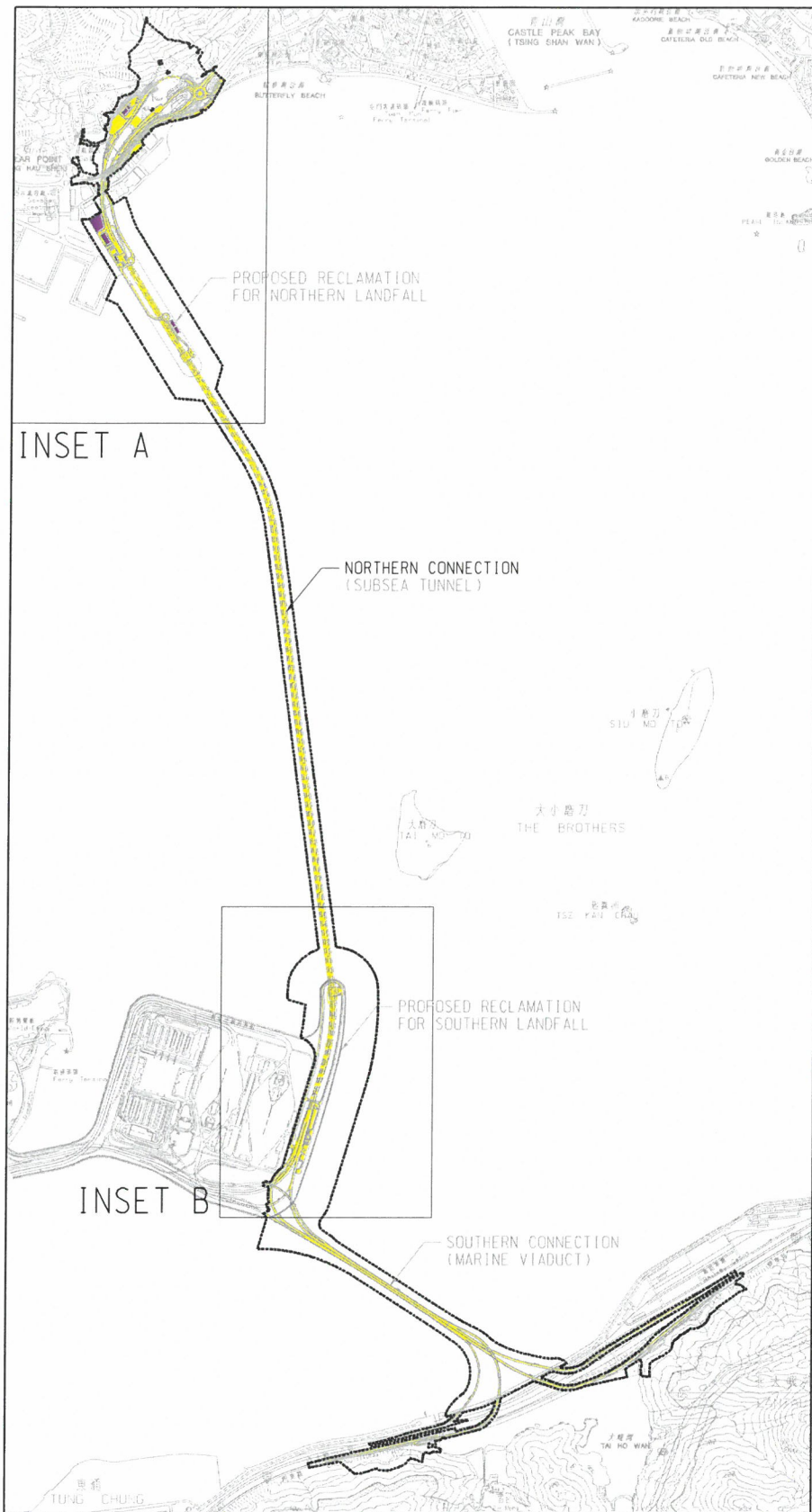
HY/2013/12

SHEET TITLE

CONTRACT 3 - NORTHERN
CONNECTION TOLL PLAZA AND
ASSOCIATED WORKS

SHEET NUMBER

FIGURE 1.4



① E & M WORKS FOR THE NORTHERN CONNECTION

② BUILDINGS

◆ MAIN CONTROL BUILDING

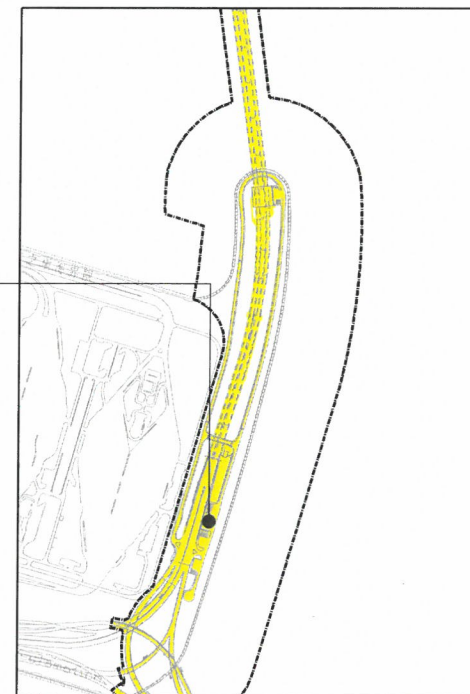
◆ MAINTENANCE DEPOT & TRAINING GROUND

◆ ADMINISTRATION BUILDING

◆ PETROL FILLING STATION

◆ REPROVISIONED CUSTOMS AND EXCISE DEPARTMENT AND FIRE SERVICES DEPARTMENT BUILDING AND BERTH

◆ SATELLITE CONTROL BUILDING



③ LANDSCAPING WORKS IN SOUTHERN LANDFALL (PORTION) AND NORTHERN LANDFALL

AECOM

PROJECT

TUEN MUN - CHEK LAP KOK LINK

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

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| A | SEP 20 | LAYOUT UPDATE | CL |
|-----|--------|---------------|------|
| I/R | DATE | DESCRIPTION | CHK. |
| | | | |
| | | | |
| | | | |

STATUS

SCALE DIMENSION UNIT

A1 1:1000 A3 1:2000

PROJECT NO.

60240249

CONTRACT NO.

HY/2017/10

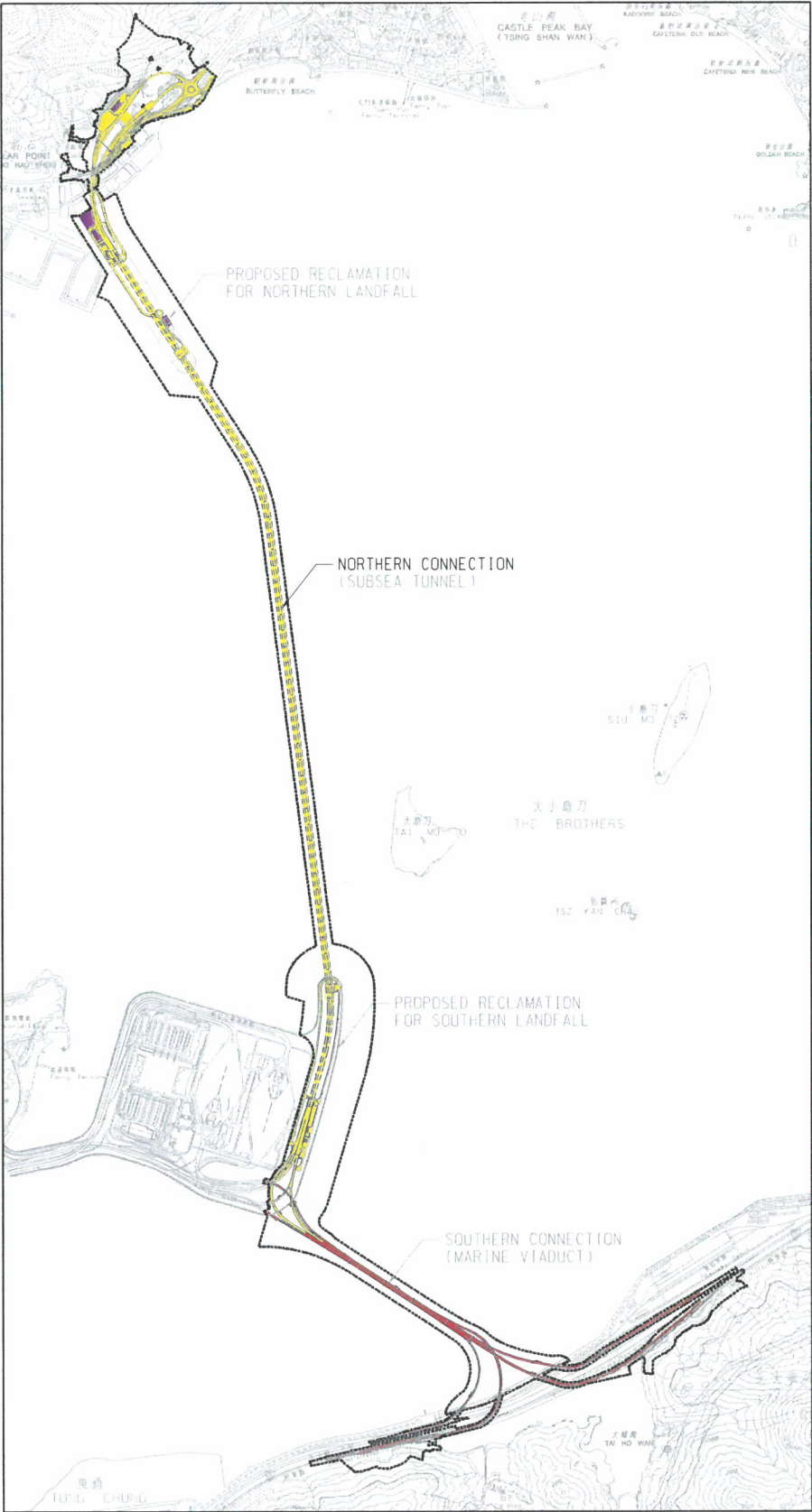
SHEET TITLE

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

SHEET NUMBER

FIGURE 1.5

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



AECOM

PROJECT
項目
TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK -
NORTHERN CONNECTION TRAFFIC
CONTROL AND SURVEILLANCE
SYSTEM

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

CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

| ISSUE/REVISION 問題/修訂 | | | |
|-------------------------|--------|---------------|------|
| | | | |
| | | | |
| | | | |
| | | | |
| A | SEP 20 | LAYOUT UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容描述 | 審核 |

STATUS
現狀

SCALE
比例尺
A1 1:1000 A3 1:2000

DIMENSION UNIT
尺寸單位
公尺/毫米

PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號
HY/2014/10

SHEET TITLE
圖紙名稱
CONTRACT 5 - NORTHERN
CONNECTION TRAFFIC CONTROL
AND SURVEILLANCE SYSTEM

SHEET NUMBER
圖紙編號
FIGURE 1.6

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties without the written consent of AECOM. AECOM accepts no responsibility, and denies any liability, whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. All measurements must be obtained from the scale dimensions.

Appendix B

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

Our Ref: TCS01230/21/300/L0165

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

Attn: Mr. Joe Chan

25 October 2024
By Email

Dear Sir,

Re: Contract No. HY/2021/13
Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project
Environmental Permit No.: EP-354/2009/D
Landscape and Visual Plan

With reference to the revised Landscape and Visual Plan (ref. A37-04B) Rev. B 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)



Ben Tam
Environmental Team Leader

c.c. ANewR(IEC/ENPO) Mr. James Choi
Wing Ho Yuen Landscaping Co., Ltd Mr. Joe Fung
(Contractor)

By email
By email

Highways Department
5th Floor, Ho Man Tin Government Offices
88 Chung Hau Street
Ho Man Tin
Kowloon

Your reference:

Our reference: HKHYD203/50/110079

Date: 28 October 2024

Attention: Mr William Wong

BY EMAIL & POST
(email: se1hldr.mw@hyd.gov.hk)

Dear Sirs

Agreement No. HMWSD 6/2022 (EP)
Environmental Project Office for the Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road, Hong Kong-Zhuhai-Macao Bridge Hong Kong
Boundary Crossing Facilities & Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2021/13
Provision of Remaining Compensation Tree Planting for the Tuen Mun – Chek Lap Kok Link Project
Landscape and Visual Plan (ref. A37-04B) Rev. B

We refer to the email of 26 October 2024, attaching a revised Landscape and Visual Plan (ref. A37-04B) Rev. B, prepared by the AECOM of the captioned.

We have no comment and hereby verify the captioned report in accordance with Clause 2.9 of the Environmental Permit no. EP-353/2009/K.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Alex Chan on 2618 2831.

Yours faithfully
ANewR CONSULTING LIMITED



James Choi
Independent Environmental Checker

CPSJ/LCCR/CYCA/thy

cc Highway Department – Mr Nick Li (email: e10.mwsd@hyd.gov.hk)
Highways Department – Ms Sarah Cai (email: e2tcl.mw@hyd.gov.hk)
AEUS – Mr Ben Tam (email: bentam@fordbusiness.com)

Appendix C

Mitigation Measures Plan (Operation Phase) and Landscape Sections

| ISSUE/REVISION | | | |
|----------------|---------------|---------------------|---------------|
| 00.1 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| A | SEP 20 | LAYOUT UPDATE | CL |
| WR 00.1 | DATE 10.08 | DESCRIPTION 内容補充 | CHK. 00.08 |

STATUS

| | |
|--------------------|-------------------------------|
| SCALE 比例 | DIMENSION UNIT 尺寸單位 |
| A1 1 : 20000 | MILLIMETRES |

KEY PLAN

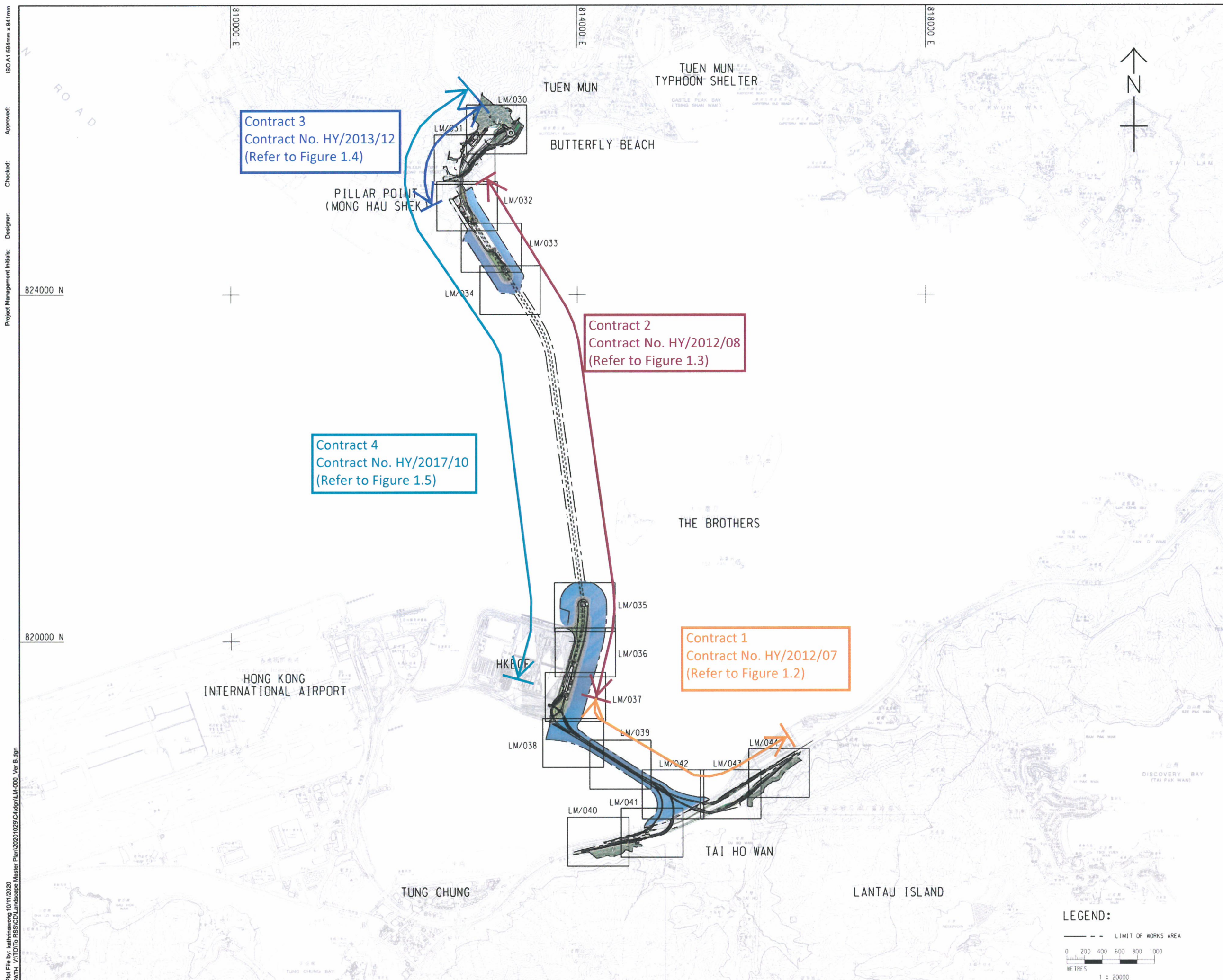
| | |
|----------------------------|-----------------------------|
| PROJECT NO. 項目編號 | CONTRACT NO. 合約編號 |
| 60240249 | CE7/2011(HY) |

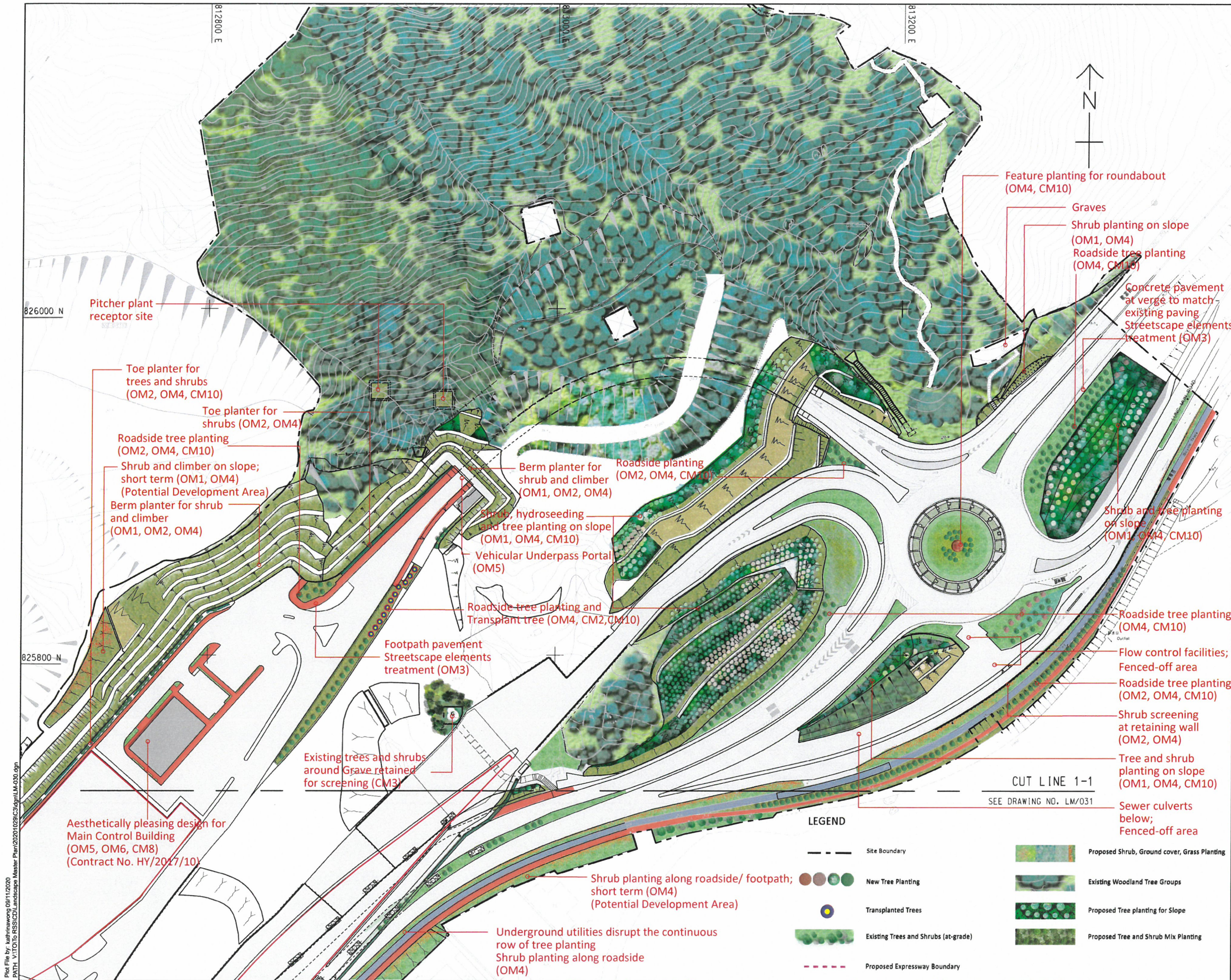
SHEET TITLE
圖紙名稱

LANDSCAPE MASTER PLAN
- KEY PLAN

SHEET NUMBER
圖紙編號

LM/029





AECOM

PROJECT

TUEN MUN - CHEK LAP KOK LINK

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

CLIENT

路政署
HIGHWAYS DEPARTMENT
主要工程管理处(專責專務)
Major Works Project Management Office
(Special Duties)

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

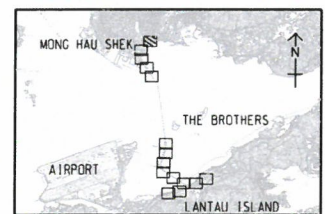
ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK |
|-----|----------|-------------------|-----|
| E | AUG 24 | LANDSCAPE UPDATE | EC |
| D | JUN 22 | LANDSCAPE UPDATE | CL |
| C | MAR 21 | ANNOTATION UPDATE | CL |
| B | SEP 20 | LANDSCAPE UPDATE | CWN |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK |
| 01 | 11/01/20 | 內務圖則 | 視校 |

STATUS

SCALE
比例
A1 1:1000 A3 1:2000
DIMENSION UNIT
尺寸單位
MILLIMETRES

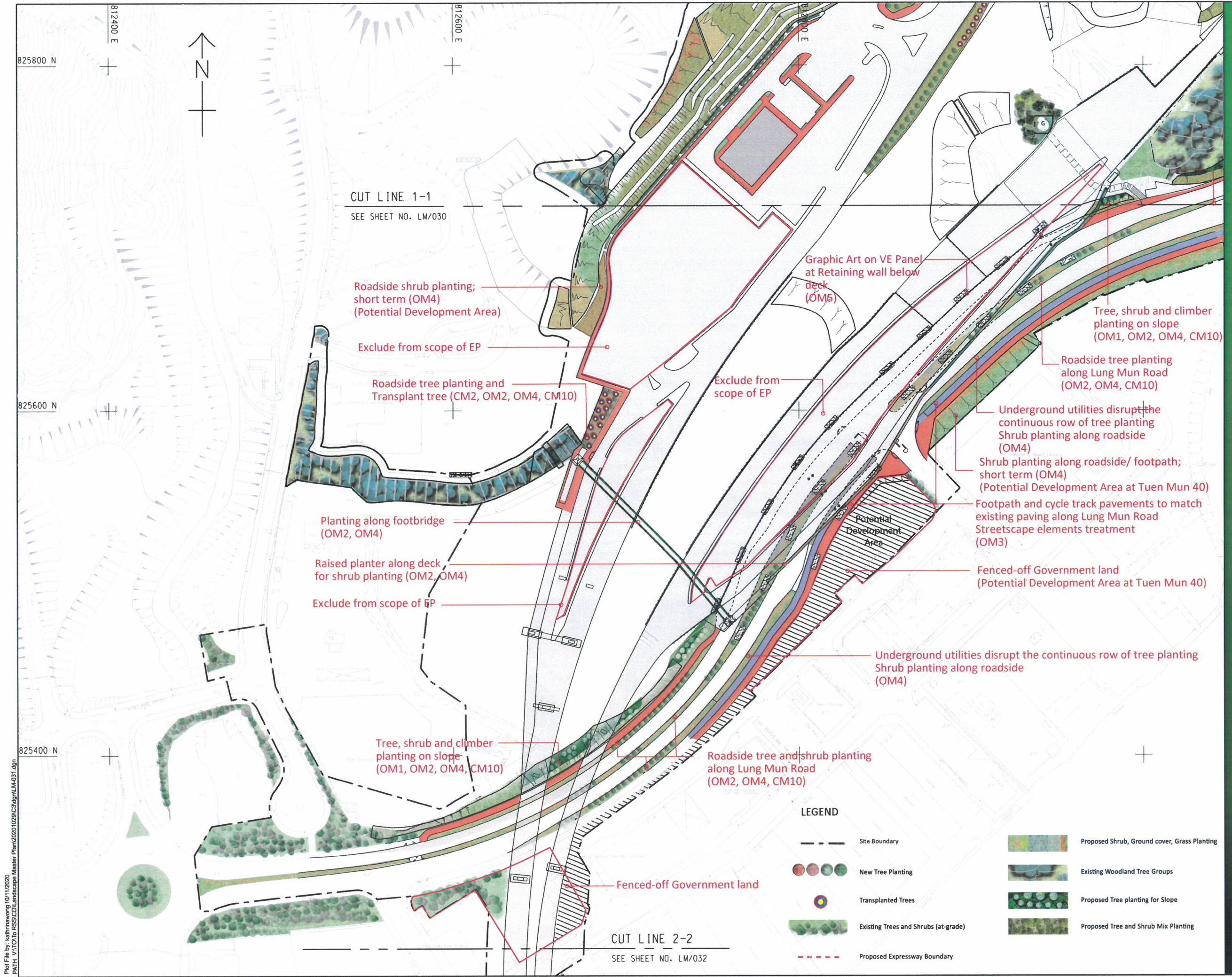
KEY PLAN



PROJECT NO.
項目編號
60240249
CONTRACT NO.
合約編號
HY/2013/12

SHEET TITLE
圖紙名稱
MITIGATION MEASURES PLAN

SHEET NUMBER
圖紙編號
C3/LM/030
SHEET 1 OF 15



AECOM

PROJECT
Tuen Mun - Chek Lap Kok Link

CONTRACT TITLE
Tuen Mun - Chek Lap Kok Link - Northern Connection Toll Plaza and Associated Works

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

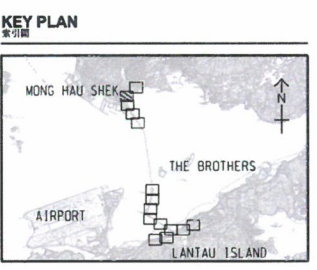
SUB-CONSULTANTS

| ISSUE/REVISION | | | |
|----------------|--------|-------------------|-----|
| REV | DATE | DESCRIPTION | CHK |
| C | MAR 21 | ANNOTATION UPDATE | CL |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| VR | DATE | DESCRIPTION | CHK |

STATUS

SCALE
A1 1:1000 A3 1:2000

DIMENSION UNIT
MILLIMETRES



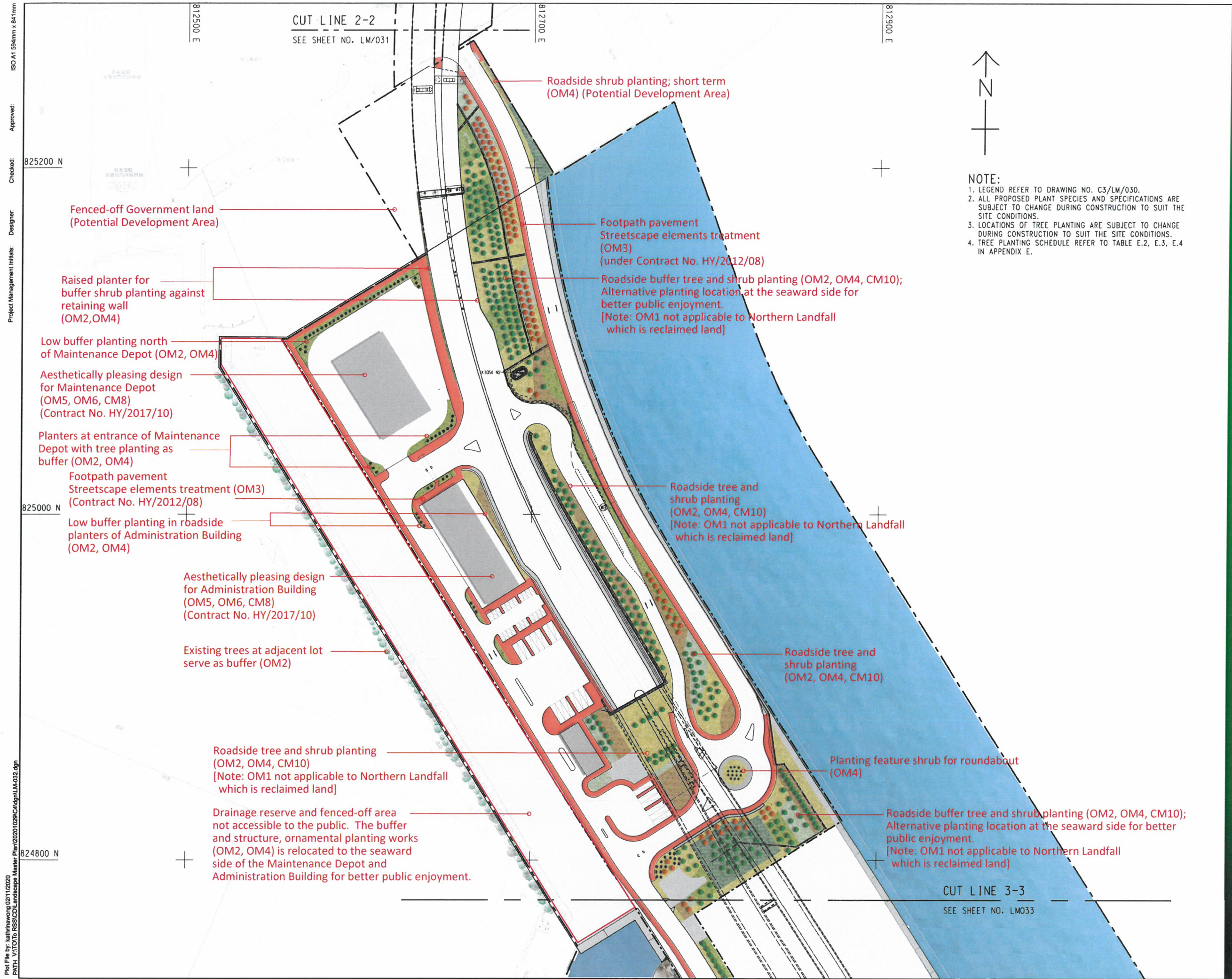
PROJECT NO.
60240249

CONTRACT NO.
HY/2013/12

SHEET TITLE
MITIGATION MEASURES PLAN

SHEET NUMBER
C3/LM/031

Plot File by: kathrinawong 10/11/2020
PATH: V:\1010 RSS\CDLandscape Master Plan\20201029\CDLandscape\LM-031.dgn



AECOM

PROJECT

**TUEN MUN -
CHEK LAP KOK LINK**

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

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

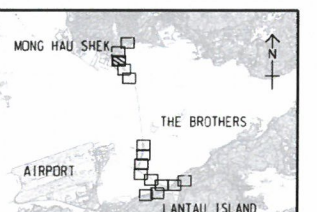
ISSUE/REVISION

| I/R | DATE | DESCRIPTION | CHK. |
|-----|--------|-------------------|------|
| C | MAR 21 | ANNOTATION UPDATE | CL |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容摘要 | 校核 |

STATUS

SCALE
比例
A1 1:1000 A3 1:2000
DIMENSION UNIT
尺寸單位
MILLIMETRES

KEY PLAN



PROJECT NO.
項目編號

60240249

CONTRACT NO.
合約編號

HY/2017/10

SHEET TITLE

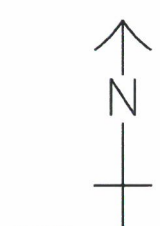
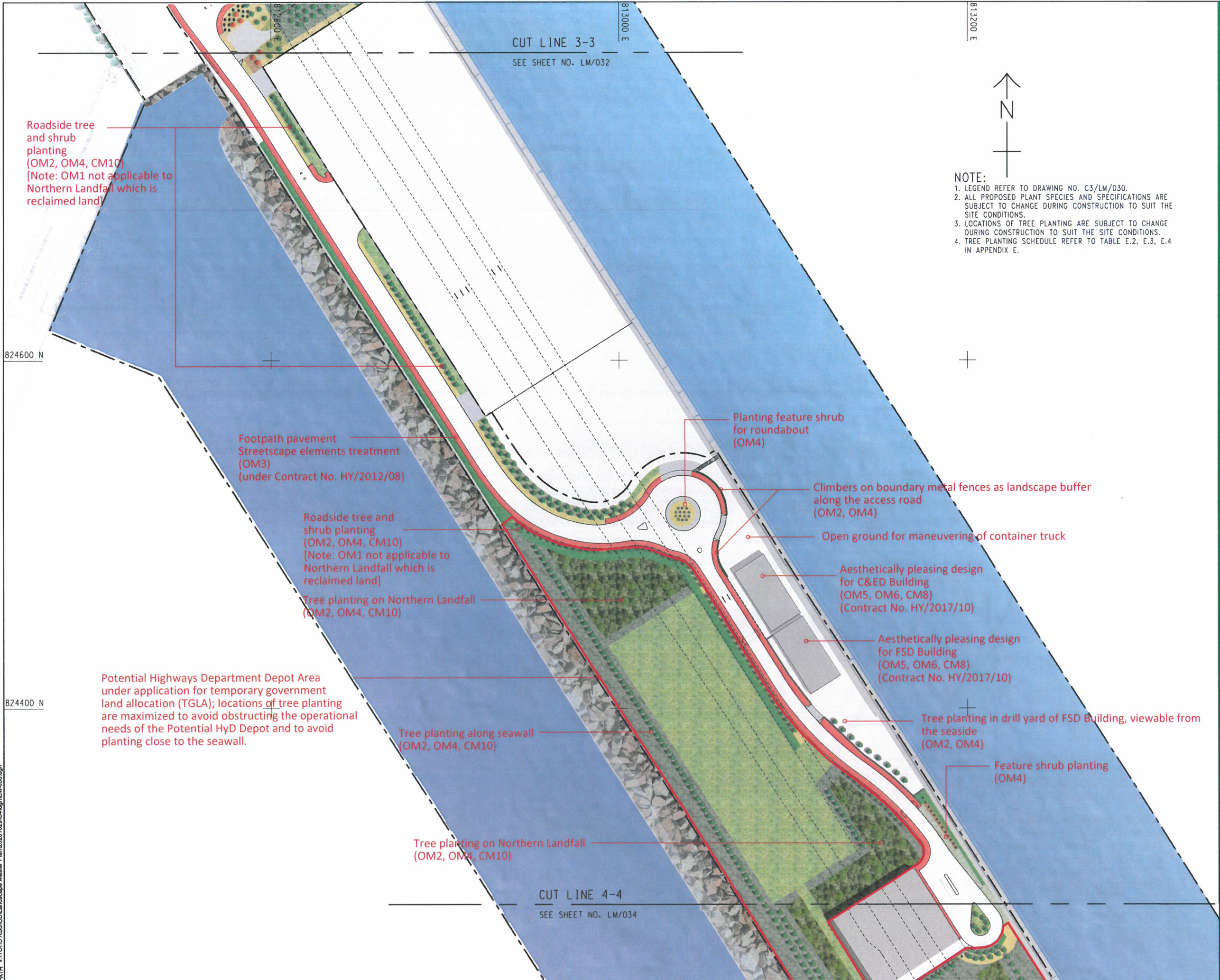
MITIGATION MEASURES PLAN

SHEET NUMBER

C4/LM/032

SHEET 3 OF 15

Plot File by: kshirawong 02/11/2020
PATH: V:\TO TO RSS\CD\Landscape Master Plan\20201029\C4.dgn\LM-033.dgn
Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm



- NOTE:
1. LEGEND REFER TO DRAWING NO. C3/LM/030.
 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.



PROJECT
Tuen Mun - Chek Lap Kok Link

CONTRACT TITLE
Tuen Mun - Chek Lap Kok Link - Northern Connection Tunnel Buildings, Electrical and Mechanical Works

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

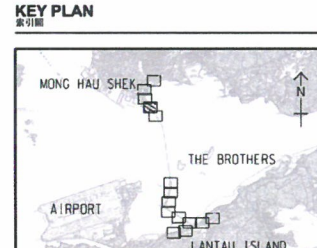
CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
中興工程顧問公司

| ISSUE/REVISION | | | | |
|----------------|--------|-------------------|-----|-----|
| REV | DATE | DESCRIPTION | CHK | APP |
| C | MAR 21 | ANNOTATION UPDATE | CL | |
| B | SEP 20 | LANDSCAPE UPDATE | CL | |
| A | SEP 19 | LANDSCAPE UPDATE | CWN | |

STATUS

| SCALE | DIMENSION UNIT |
|----------------------|----------------|
| A1 1: 1000 A3 1:2000 | MILLIMETRES |

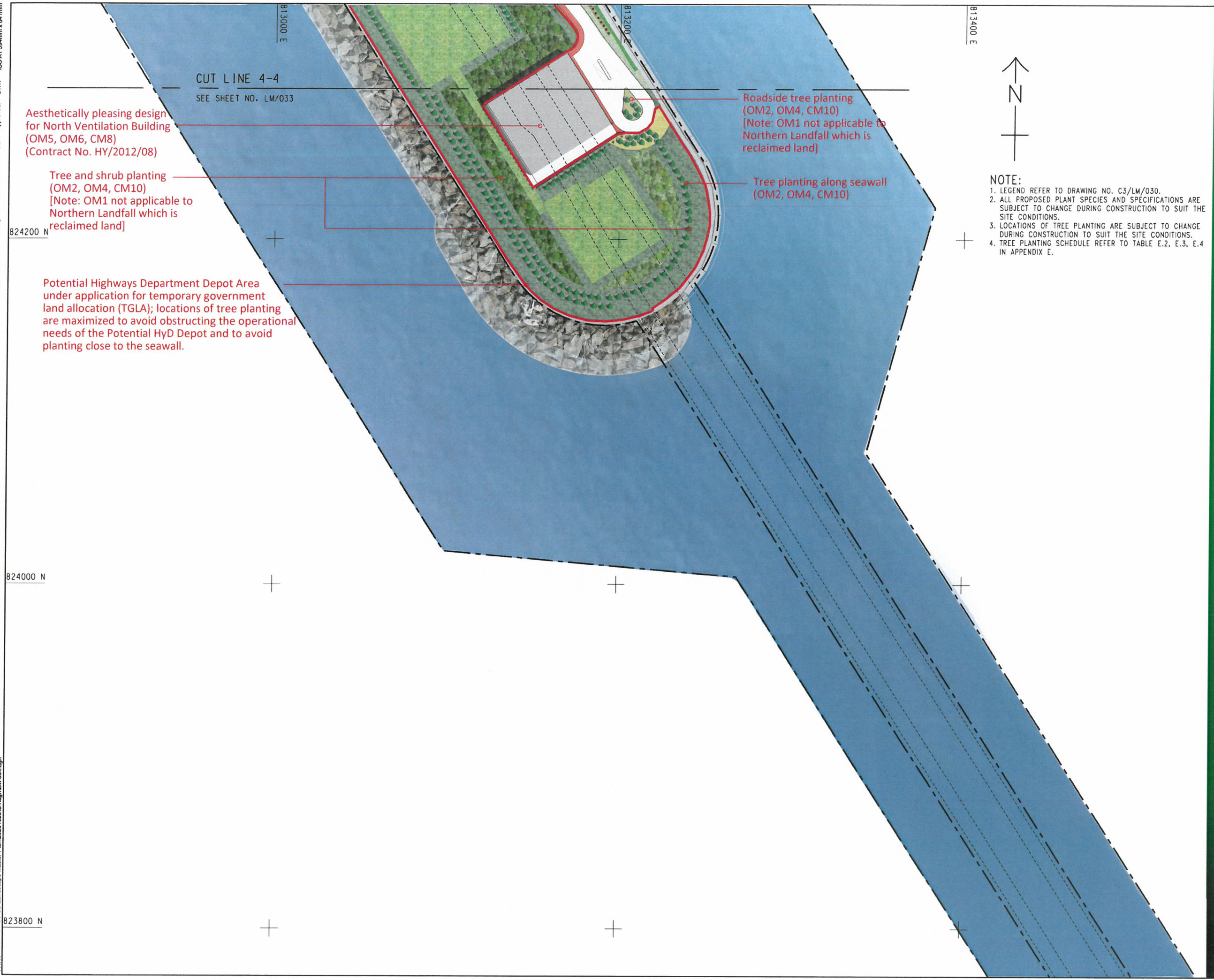


| PROJECT NO. | CONTRACT NO. |
|-------------|--------------|
| 60240249 | HY/2017/10 |

SHEET TITLE
MITIGATION MEASURES PLAN

SHEET NUMBER
C4/LM/033

Plot File by: kethinawong 02/11/2020
PATH V:\TOTO PSS\CDL\Landscapes Master Plan\2020\029\CA\gml\LM-034.dgn
Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm



- NOTE:
1. LEGEND REFER TO DRAWING NO. C3/LM/030.
 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.

AECOM
PROJECT
TUEN MUN - CHEK LAP KOK LINK
CONTRACT TITLE
TUEN MUN - CHEK LAP KOK LINK - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS
CLIENT
路政署
HIGHWAYS DEPARTMENT
主要工程管理处(專責事務)
Major Works Project Management Office
(Special Duties)
CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com
SUB-CONSULTANTS

ISSUE/REVISION
項目

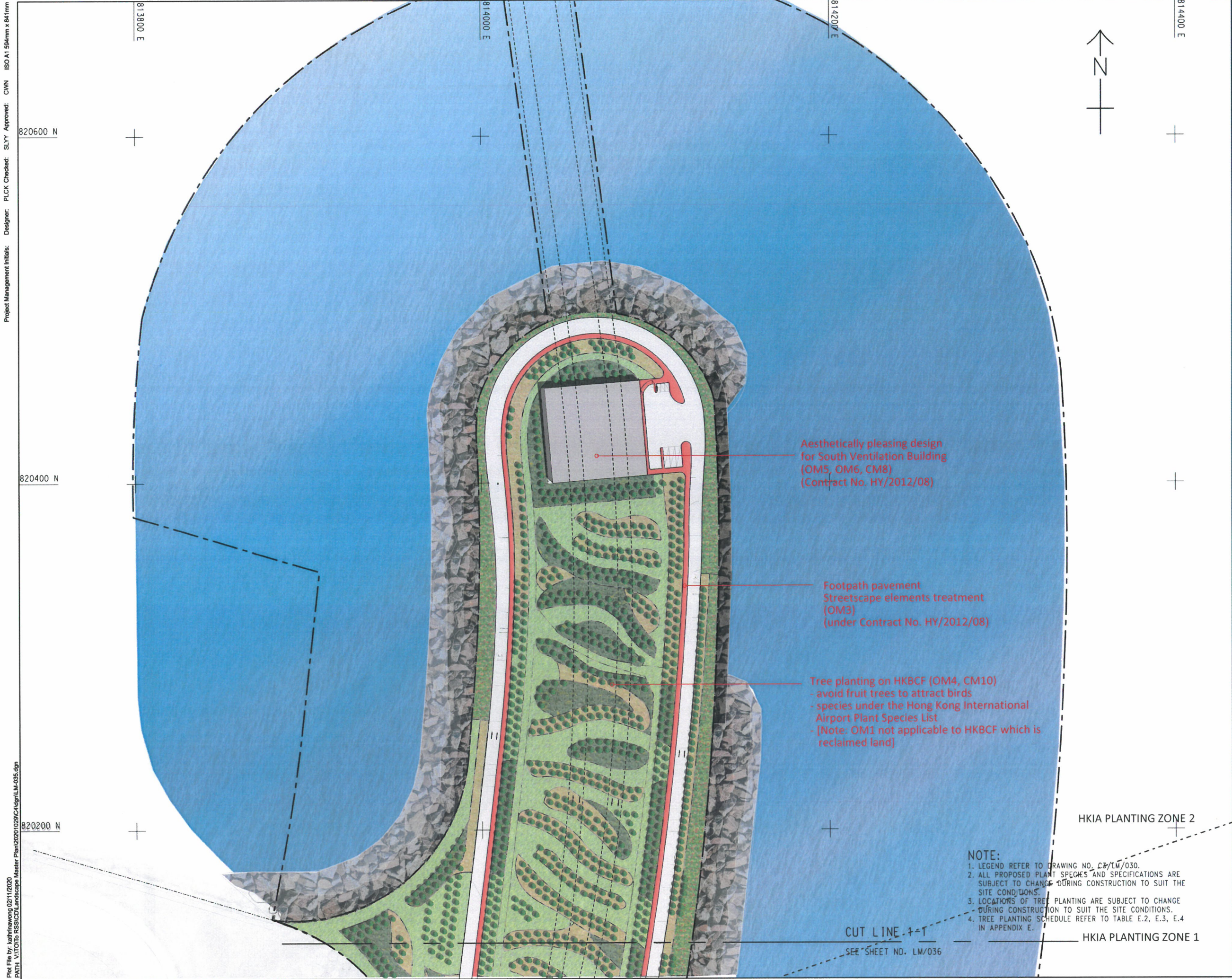
| C | MAR 21 | ANNOTATION UPDATE | CL |
|-----|--------|-------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容摘要 | 校核 |

STATUS
階段

SCALE
比例
A1 1 : 1000 A3 1:2000
DIMENSION UNIT
尺寸單位
MILLIMETRES

KEY PLAN
索引圖

PROJECT NO.
項目編號
60240249
CONTRACT NO.
合約編號
HY/2017/10
SHEET TITLE
圖紙名稱
MITIGATION MEASURES PLAN
SHEET NUMBER
圖紙編號
C4/LM/034
SHEET 5 OF 15



Aesthetically pleasing design
for South Ventilation Building
(OM5, OM6, CM8)
(Contract No. HY/2012/08)

Footpath pavement
Streetscape elements treatment
(OM3)
(under Contract No. HY/2012/08)

Tree planting on HKBCF (OM4, CM10)
- avoid fruit trees to attract birds
- species under the Hong Kong International
Airport Plant Species List
- [Note: OM1 not applicable to HKBCF which is
reclaimed land]

- NOTE:
1. LEGEND REFER TO DRAWING NO. C3/LM/030.
 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.

CUT LINE
SEE SHEET NO. LM/036

HKIA PLANTING ZONE 2

HKIA PLANTING ZONE 1

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

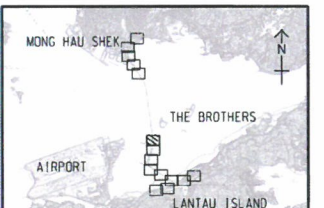
ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS

SCALE
A1 1:1000 A3 1:2000
DIMENSION UNIT
MILLIMETRES

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

HY/2017/10

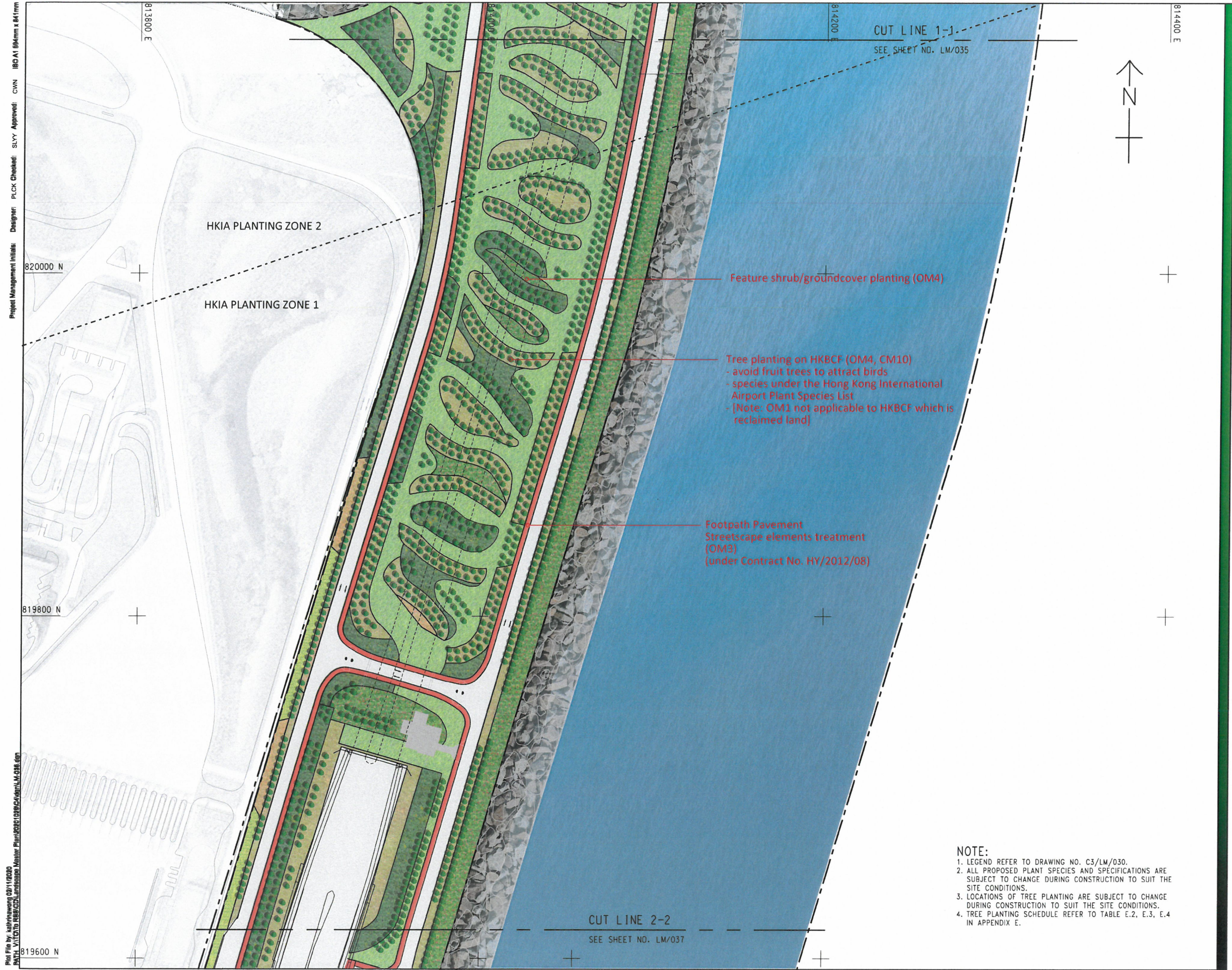
SHEET TITLE

MITIGATION MEASURES PLAN

SHEET NUMBER

C4/LM/035

SHEET 6 OF 15



Project Management Initials: Designer: PLCK Checked: SLVY Approved: CWN IBC A1 64mm x 84mm
Plot File by: kalhiraawang 02/11/2020
PATH_V:\C01010_R0000000_Landscape_Mauior_Plan\20201020\CA4gm\LM-036.dgn

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

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

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

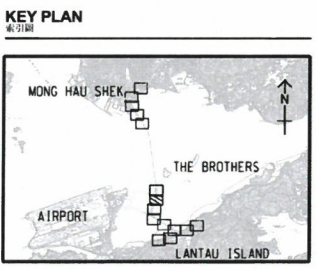
CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

| ISSUE/REVISION | | | | |
|----------------|--------|------------------|------|--|
| | | | | |
| | | | | |
| | | | | |
| B | SEP 20 | LANDSCAPE UPDATE | CL | |
| A | SEP 19 | LANDSCAPE UPDATE | CWN | |
| I/R | DATE | DESCRIPTION | CHK. | |
| 修訂 | 日期 | 內容摘要 | 校核 | |

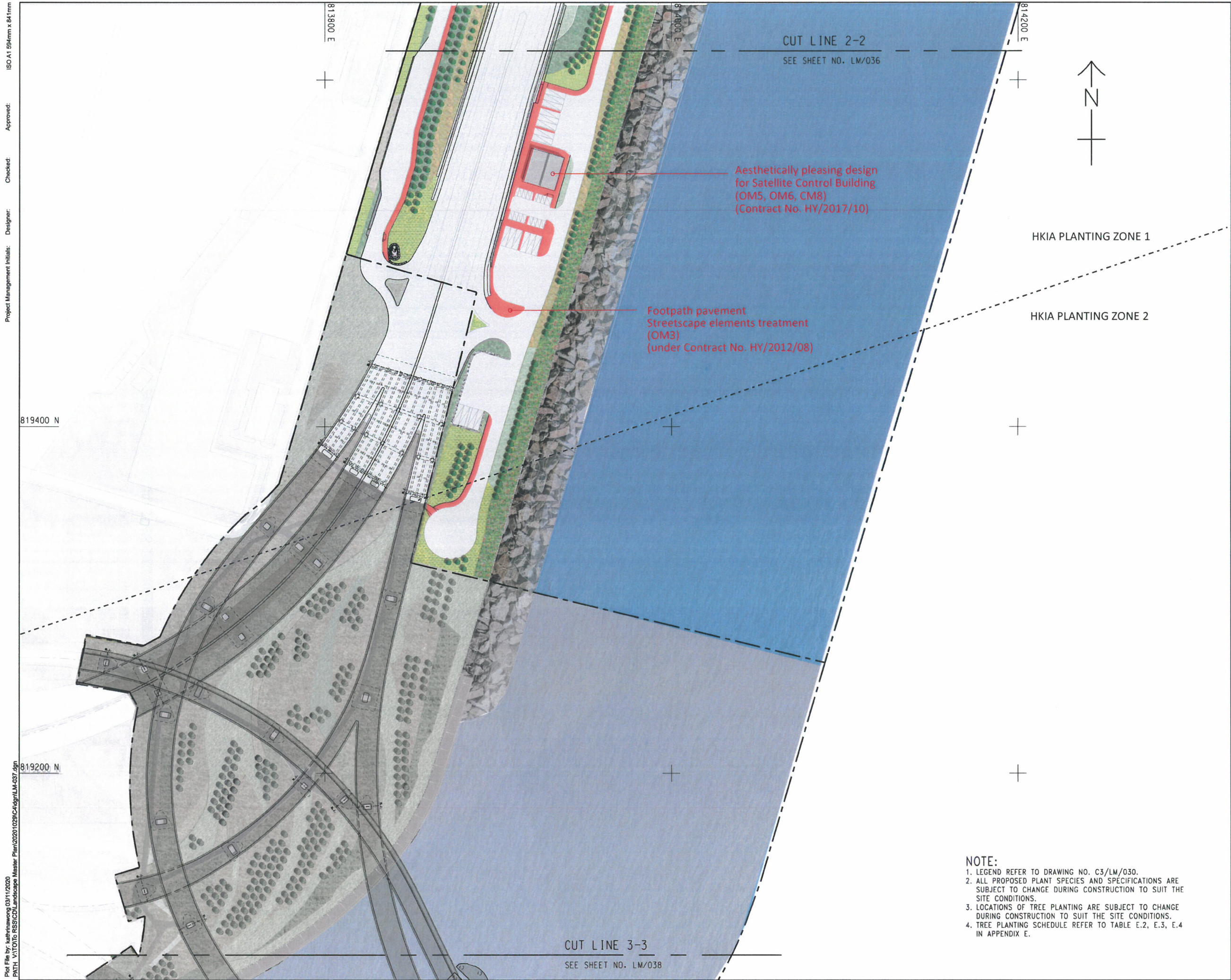
STATUS

SCALE
A1 1:1000 A3 1:2000
DIMENSION UNIT
MILLIMETRES



PROJECT NO.
60240249
CONTRACT NO.
HY/2017/10
SHEET TITLE
MITIGATION MEASURES PLAN
SHEET NUMBER
C4/LM/036
SHEET 7 OF 15

NOTE:
1. LEGEND REFER TO DRAWING NO. C3/LM/030.
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.



ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: kathrinawong 03/11/2020
PATH_V101016_RSSCDLandscape Master Plan(20201028)C4.dgn(LM-037.dgn)



PROJECT
TUEN MUN - CHEK LAP KOK LINK

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

CLIENT
路政署
HIGHWAYS DEPARTMENT
主要工程管理处(專責專務)
Major Works Project Management Office
(Special Duties)

CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
工程顧問公司

ISSUE/REVISION
修訂

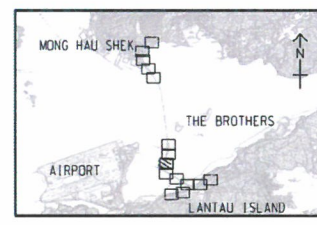
| REV | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS
階段

SCALE
比例
A1 1:1000 A3 1:2000

DIMENSION UNIT
尺寸單位
MILLIMETRES

KEY PLAN
索引圖



PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號
HY/2017/10

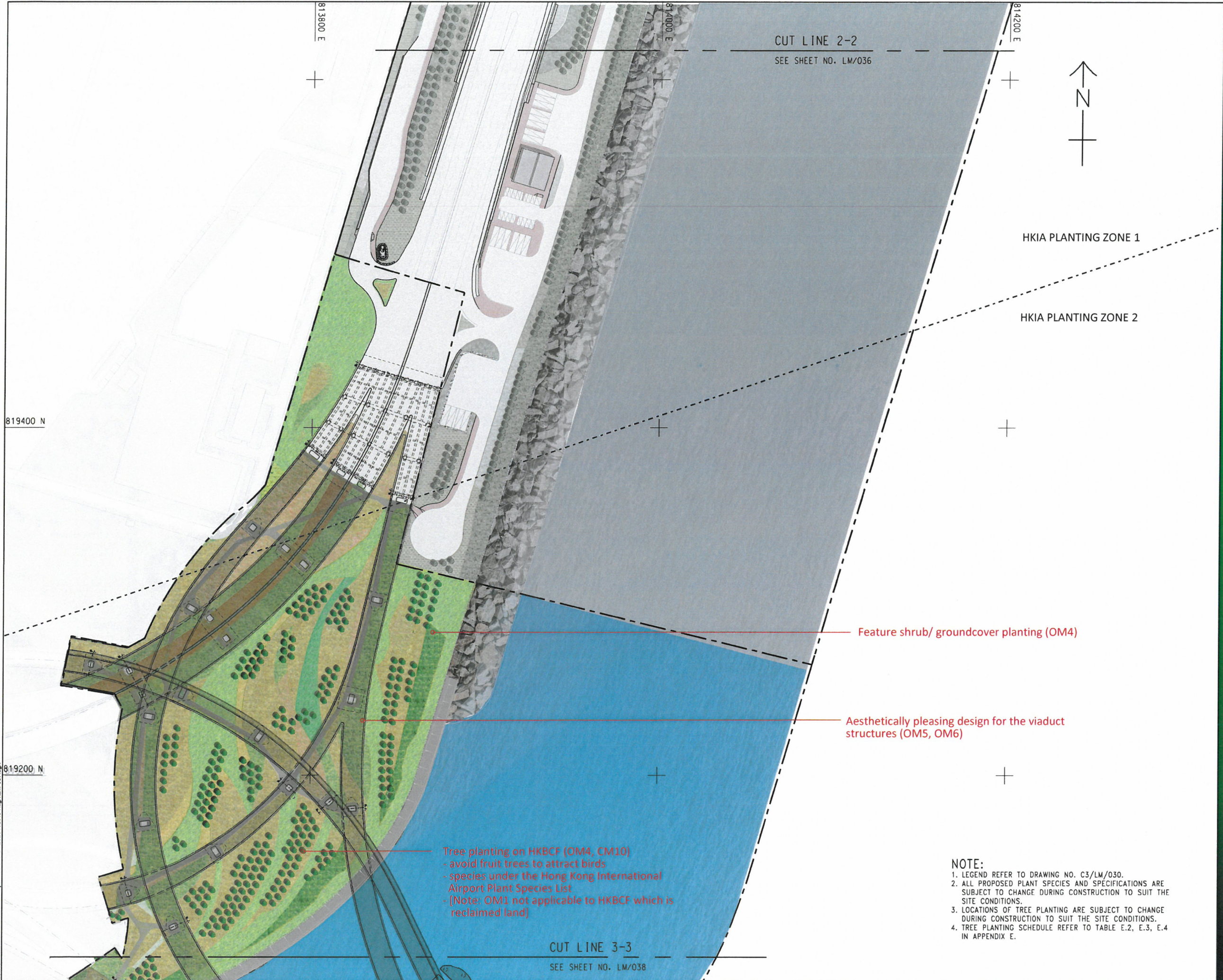
SHEET TITLE
圖紙名稱
MITIGATION MEASURES PLAN

SHEET NUMBER
圖紙編號
C4/LM/037i

SHEET 8 OF 15

NOTE:
1. LEGEND REFER TO DRAWING NO. C3/LM/030.
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.

Plot File by: kathrinawong 03/11/2020
PATH: V:\TO TO RSS\CD\Landscape Master Plan\2020\0290\CA\N\LM-037.dgn
ISO A1 894mm x 841mm
Project Management Initials: Designer: Checked: Approved:



AECOM

PROJECT

**TUEN MUN -
CHEK LAP KOK LINK**

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK -
SOUTHERN CONNECTING 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)

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

分判工程顧問公司

ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK |
|-----|--------|------------------|-----|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| 1/R | DATE | DESCRIPTION | CHK |
| 修訂 | 日期 | 內容摘要 | 審核 |

STATUS

現狀

SCALE

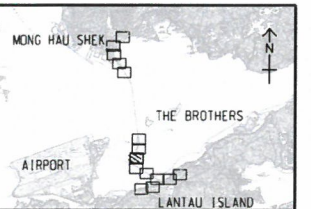
A1 1: 1000 A3 1:2000

DIMENSION UNIT

MILLIMETRES

KEY PLAN

索引圖



PROJECT NO.

60204249

CONTRACT NO.

HY/2012/07

SHEET TITLE

圖紙名稱

MITIGATION MEASURES PLAN

SHEET NUMBER

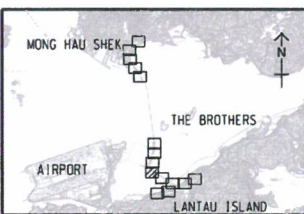
C1/LM/037ii

SHEET 8 OF 15

NOTE:

1. LEGEND REFER TO DRAWING NO. C3/LM/030.
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.

| I/R | DATE | DESCRIPTION | CHK. |
|-----|-------|------------------|------|
| B | SEP20 | LANDSCAPE UPDATE | CL |
| A | SEP19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK. |



CUT LINE 3-3
SEE SHEET NO. LM/037

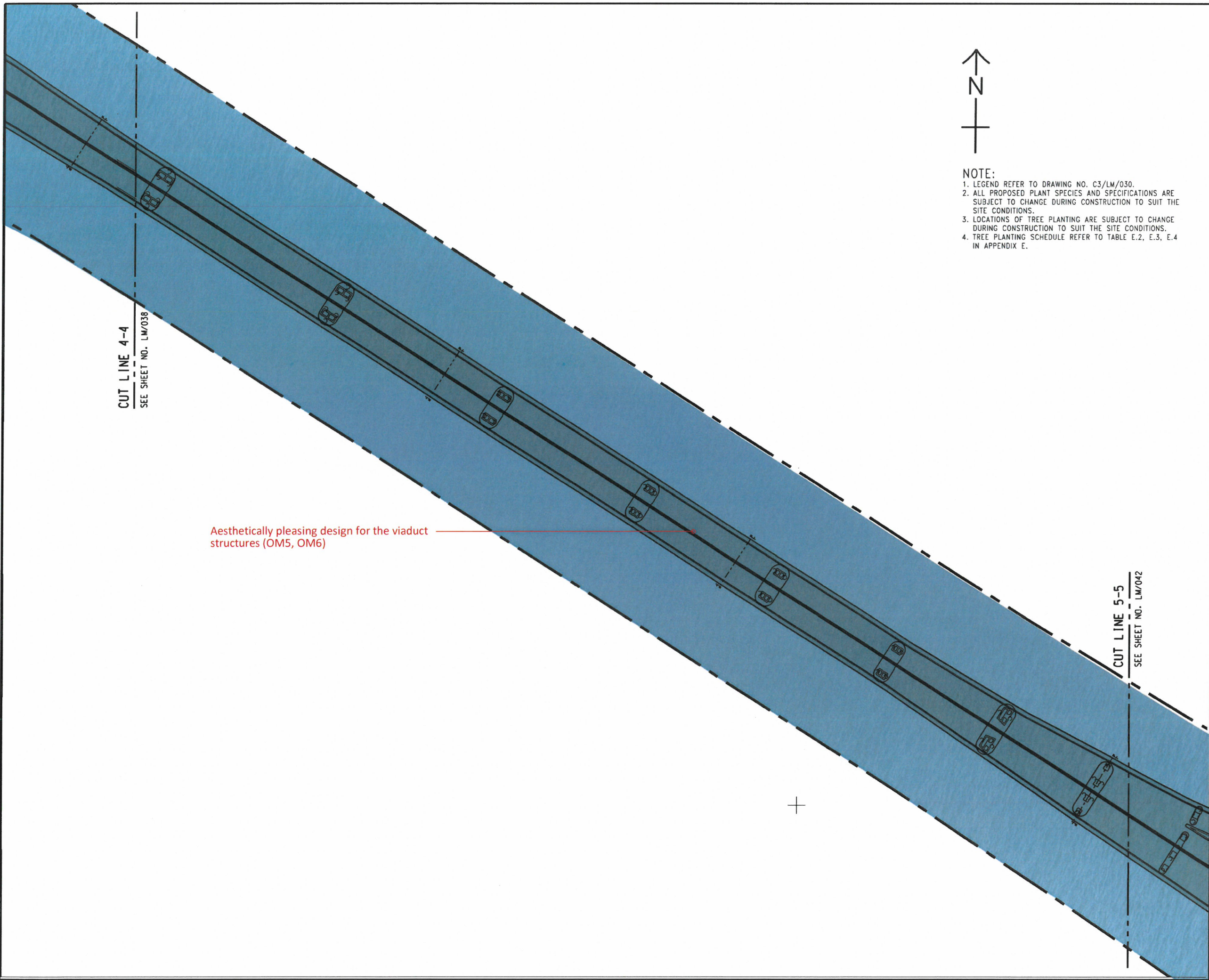
Tree planting on HKBCF (OM4, CM10)
- avoid fruit trees to attract birds
- species under the Hong Kong International
Airport Plant Species List
- [Note: OM1 not applicable to HKBCF which is
reclaimed land]



CUT LINE 4-4
SEE SHEET NO. LM/039

Aesthetically pleasing design for the viaduct
structures (OM5, OM6)

- NOTE:
- LEGEND REFER TO DRAWING NO. C3/LM/030.
 - 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.



- NOTE:
1. LEGEND REFER TO DRAWING NO. C3/LM/030.
 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.

CUT LINE 4-4
SEE SHEET NO. LM/038

CUT LINE 5-5
SEE SHEET NO. LM/042

AECOM

PROJECT
TUN MUN -
CHEK LAP KOK LINK

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

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

CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com

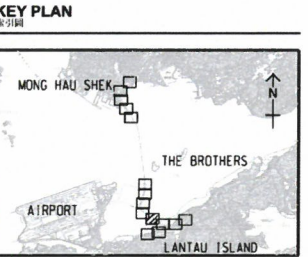
SUB-CONSULTANTS
工程顧問公司

| ISSUE/REVISION | | | |
|----------------|-------|------------------|------|
| 項目 | | | |
| | | | |
| | | | |
| | | | |
| B | SEP20 | LANDSCAPE UPDATE | CL |
| A | SEP19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK. |
| 項目 | 日期 | 內容摘要 | 校核 |

STATUS
階段

SCALE
比例
A1 1:1000 A3 1:2000

DIMENSION UNIT
尺寸單位
MILLIMETRES



PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號
HY/2012/07

SHEET TITLE
圖則名稱
MITIGATION MEASURES PLAN

SHEET NUMBER
圖則編號
C1/LM/039

SHEET 10 OF 15

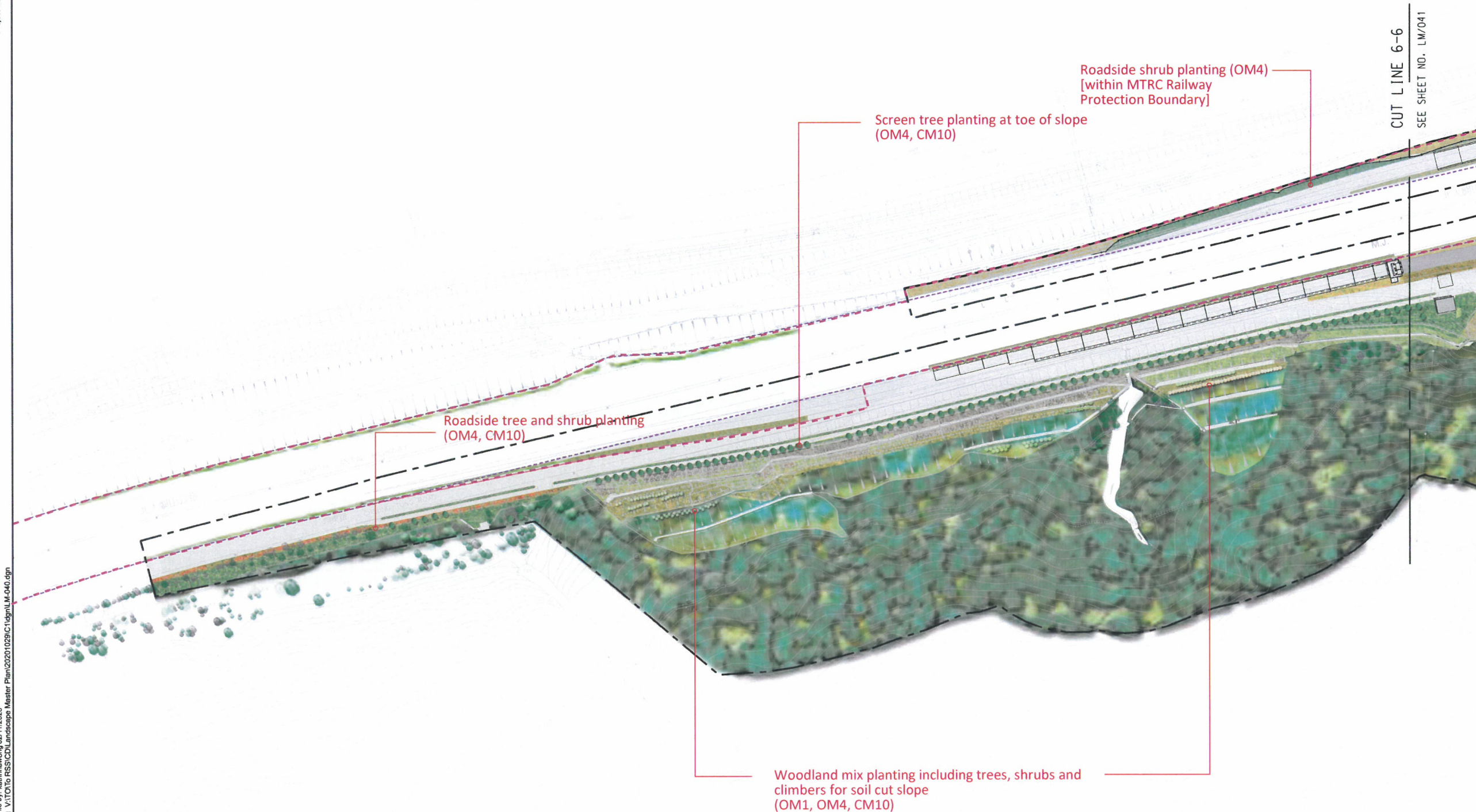
LEGEND

- Site Boundary
- New Tree Planting
- Transplanted Trees
- Existing Trees and Shrubs (at-grade)
- Proposed Expressway Boundary

- Proposed Shrub, Ground cover, Grass Planting
- Existing Woodland Tree Groups
- Proposed Tree planting for Slope
- Proposed Tree and Shrub Mix Planting

NOTE:

- 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.



AECOM

PROJECT

TUEN MUN - CHEK LAP KOK LINK

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

CLIENT

路政署
HIGHWAYS DEPARTMENT
主要工程管理处 (專責專務)
Major Works Project Management Office
(Special Duties)

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

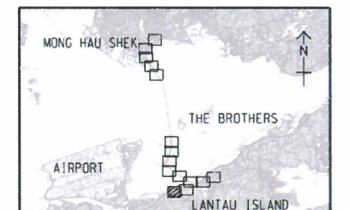
| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容摘要 | 檢核 |

STATUS

SCALE DIMENSION UNIT

A1 1: 1000 A3 1:2000 MILLIMETRES

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

HY/2012/07

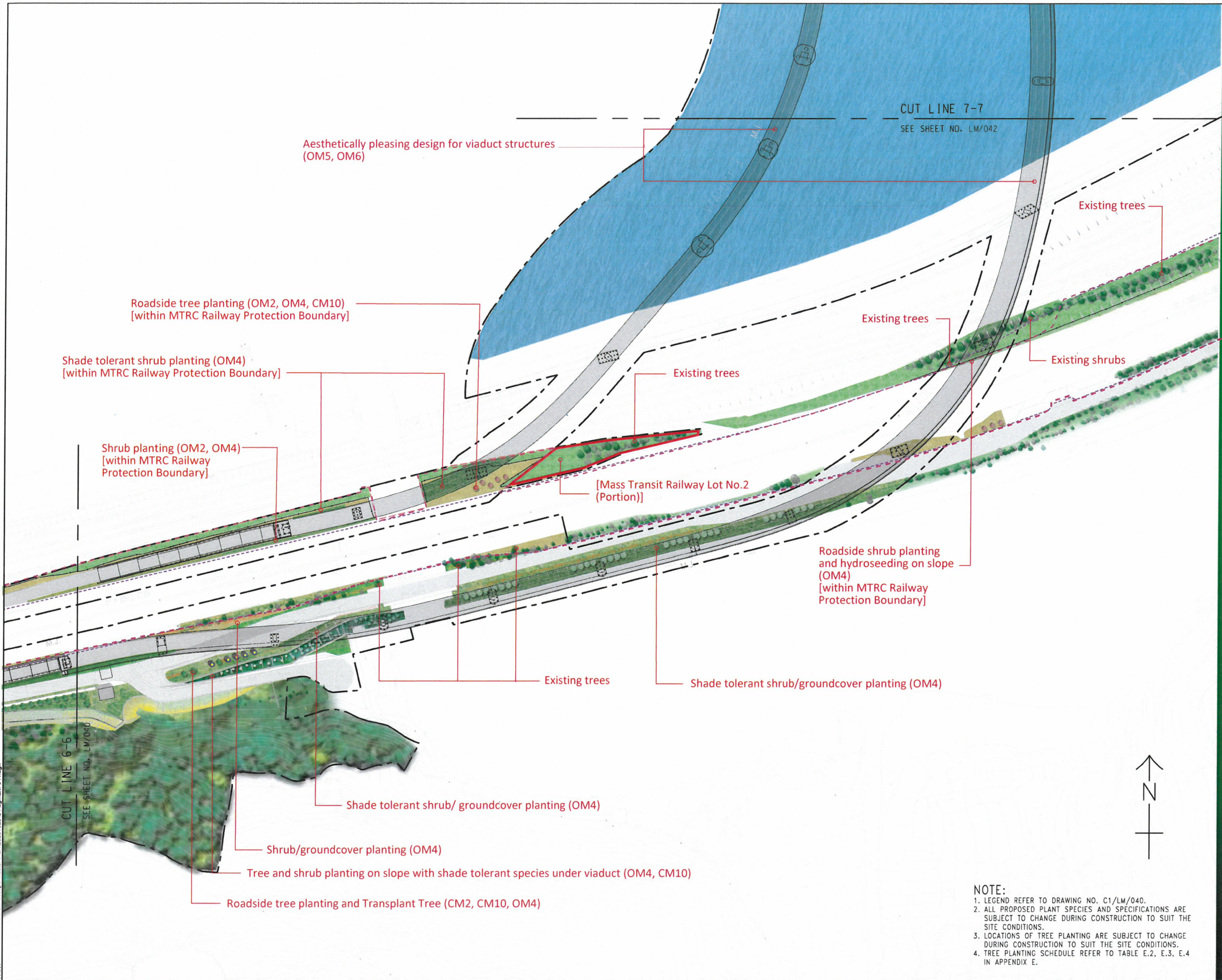
SHEET TITLE

MITIGATION MEASURES PLAN

SHEET NUMBER

C1/LM/040

SHEET 11 OF 15



AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

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

CLIENT
HIGHSWAY DEPARTMENT
Major Works Project Management Office
(Special Duties)

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

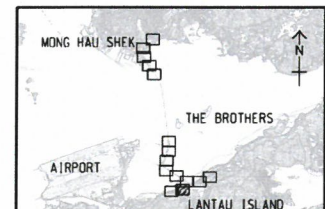
ISSUE/REVISION

| I/R | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS

SCALE
A1 1: 1000 A3 1:2000
DIMENSION UNIT
MILLIMETRES

KEY PLAN



PROJECT NO.
60240249
CONTRACT NO.
HY/2012/07

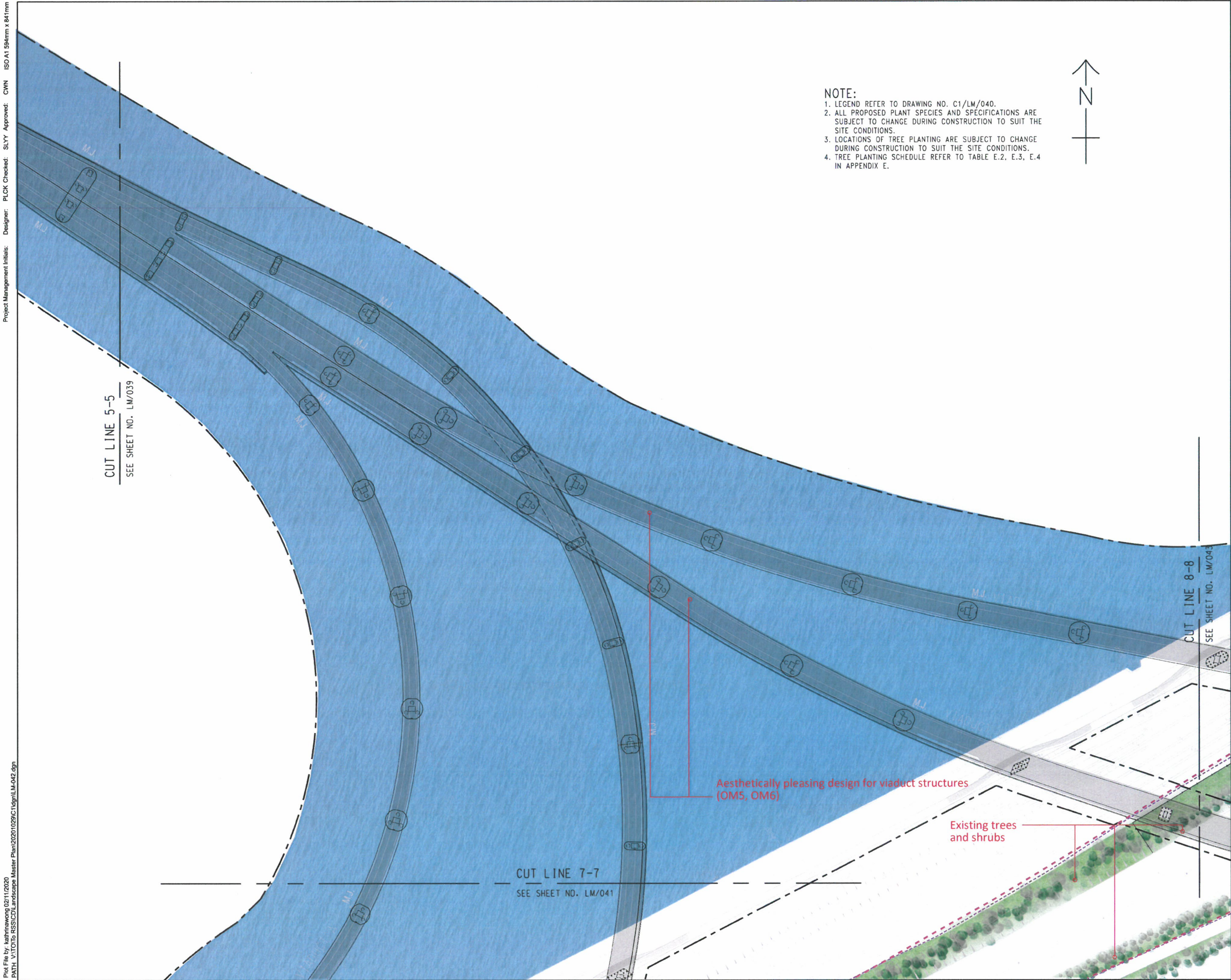
SHEET TITLE

MITIGATION MEASURES PLAN

SHEET NUMBER
C1/LM/041

SHEET 12 OF 15

NOTE:
1. LEGEND REFER TO DRAWING NO. C1/LM/040.
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.



NOTE:
1. LEGEND REFER TO DRAWING NO. C1/LM/040.
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.



AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

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

CLIENT
HIGHWAYS DEPARTMENT
主要工程管理处 (專責事務)
Major Works Project Management Office
(Special Duties)

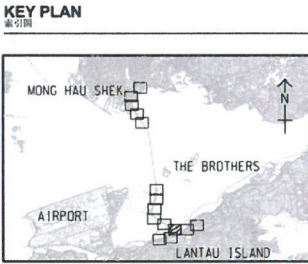
CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

| ISSUE/REVISION | | | |
|----------------|--------|------------------|------|
| REV | DATE | DESCRIPTION | CHK. |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS

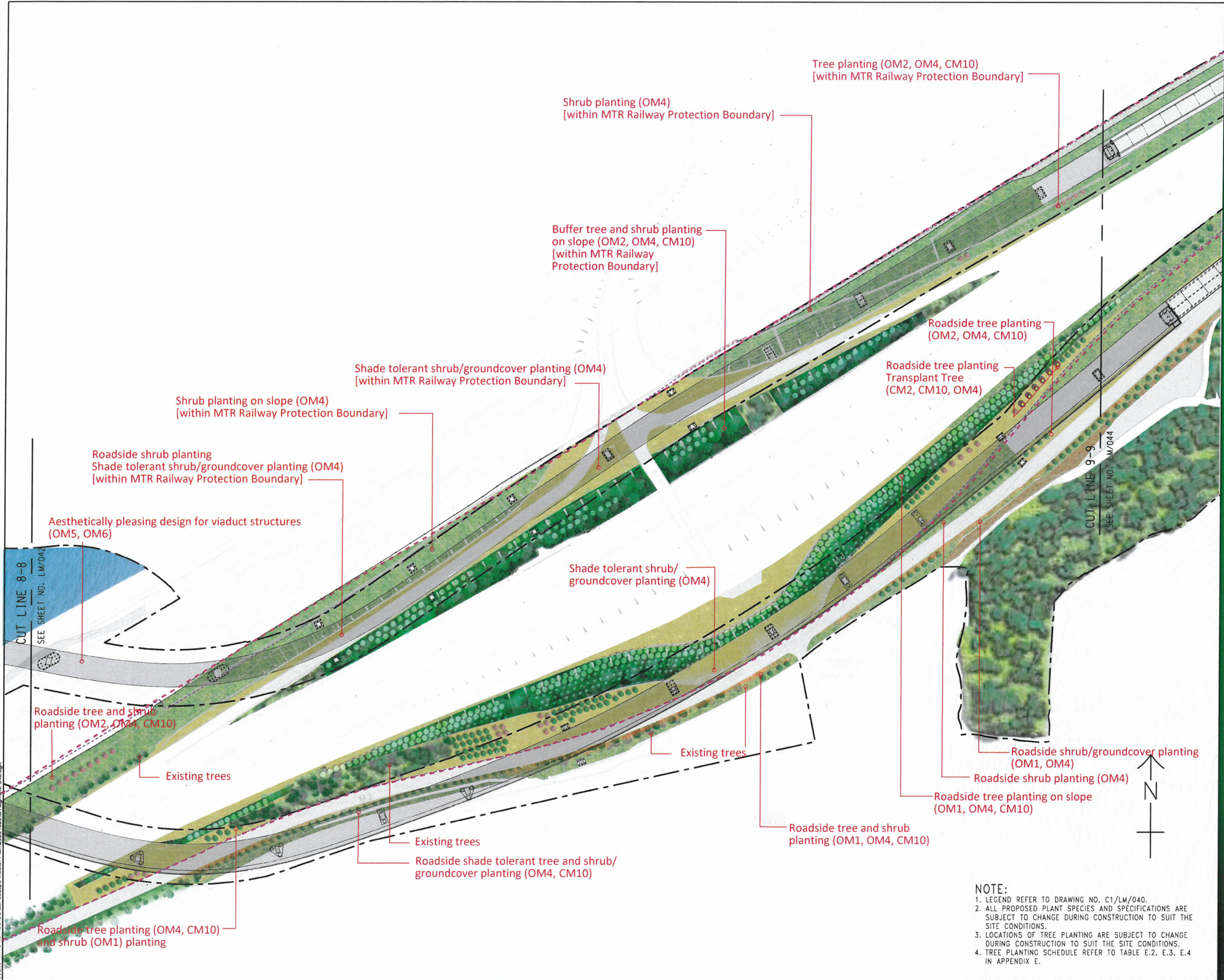
| SCALE | DIMENSION UNIT |
|-----------------------|----------------|
| A1 1 : 1000 A3 1:2000 | MILLIMETRES |



PROJECT NO. 60240249
CONTRACT NO. HY/2012/07
SHEET TITLE
MITIGATION MEASURES PLAN

SHEET NUMBER
C1/LM/042

Plot File by: kathrinawong 02/11/2020
PATH: V:\0106 RSS\CDU Landscape Master Plan\2020\1029\C1\043.dgn
Project Management Initials: Designer: PLCK Checked: SLVY Approved: CWN ISO A1 594mm x 841mm



Tree planting (OM2, OM4, CM10)
[within MTR Railway Protection Boundary]

Shrub planting (OM4)
[within MTR Railway Protection Boundary]

Buffer tree and shrub planting
on slope (OM2, OM4, CM10)
[within MTR Railway
Protection Boundary]

Roadside tree planting
(OM2, OM4, CM10)

Roadside tree planting
Transplant Tree
(CM2, CM10, OM4)

Shade tolerant shrub/groundcover planting (OM4)
[within MTR Railway Protection Boundary]

Shrub planting on slope (OM4)
[within MTR Railway Protection Boundary]

Roadside shrub planting
Shade tolerant shrub/groundcover planting (OM4)
[within MTR Railway Protection Boundary]

Aesthetically pleasing design for viaduct structures
(OM5, OM6)

Shade tolerant shrub/
groundcover planting (OM4)

Roadside tree and shrub
planting (OM2, OM4, CM10)

Existing trees

Existing trees

Existing trees

Roadside shade tolerant tree and shrub/
groundcover planting (OM4, CM10)

Roadside tree and shrub
planting (OM1, OM4, CM10)

Roadside shrub/groundcover planting
(OM1, OM4)

Roadside shrub planting (OM4)

Roadside tree planting on slope
(OM1, OM4, CM10)

Roadside tree planting (OM4, CM10)
and shrub (OM1) planting

- NOTE:
1. LEGEND REFER TO DRAWING NO. C1/LM/040.
 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.

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK

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

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

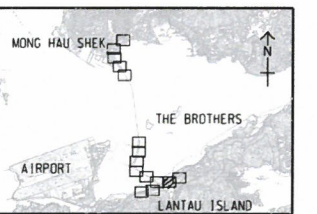
| I/R | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS

SCALE DIMENSION UNIT

A1 1 : 1000 A3 1:2000 MILLIMETRES

KEY PLAN



PROJECT NO. CONTRACT NO.

60240249 HY/2012/07

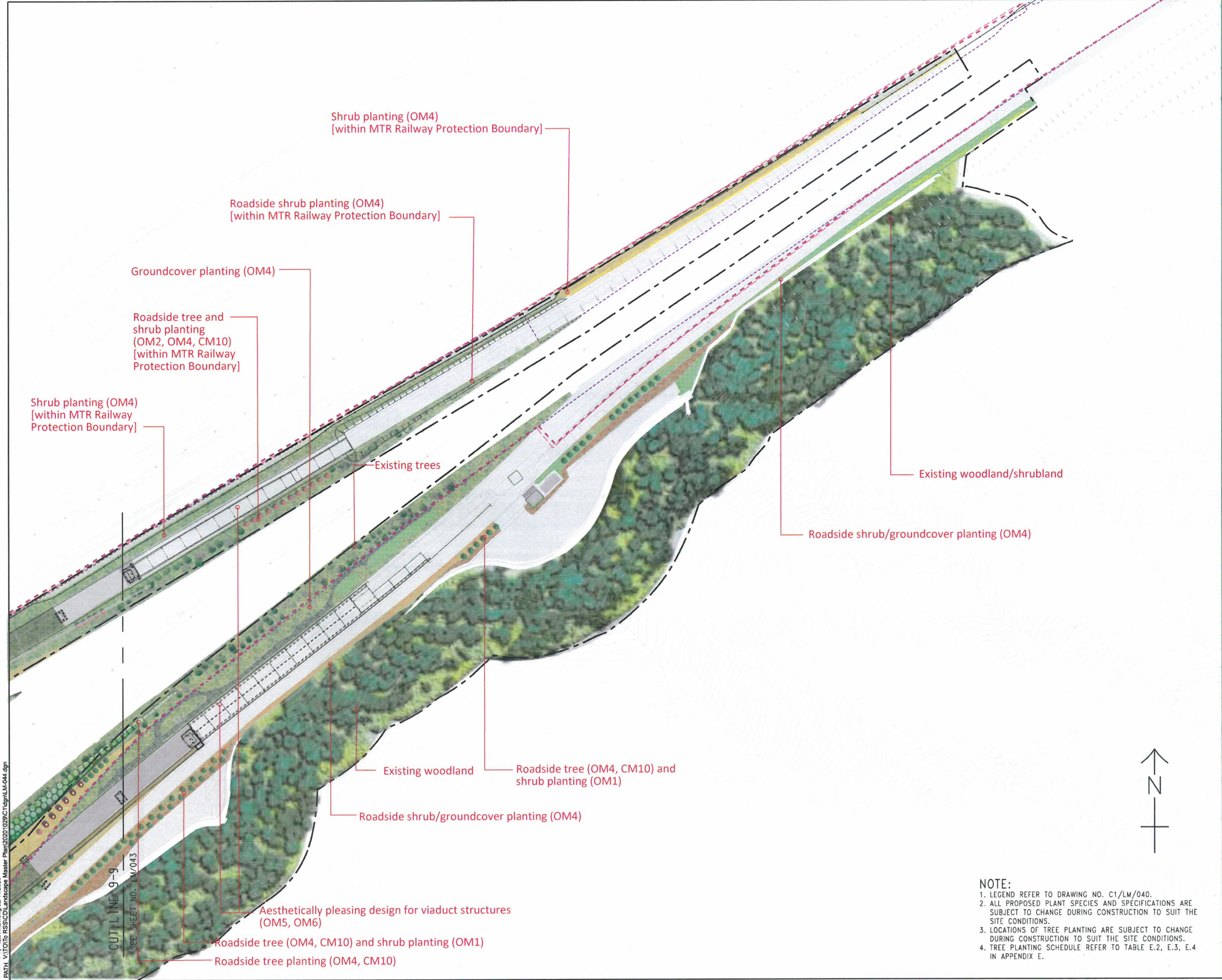
SHEET TITLE

MITIGATION MEASURES PLAN

SHEET NUMBER

C1/LM/043

SHEET 14 OF 15



NOTE:
1. LEGEND REFER TO DRAWING NO. C1/LM/040.
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.

AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

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

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

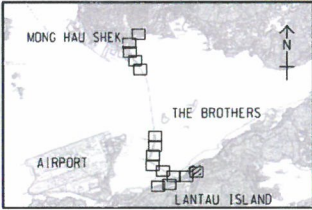
SUB-CONSULTANTS

| ISSUE/REVISION | | | |
|----------------|--------|------------------|------|
| | | | |
| | | | |
| | | | |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容摘要 | 校核 |

STATUS

SCALE
比例
A1 1 : 1000 A3 1:2000
DIMENSION UNIT
尺寸單位
MILLIMETRES

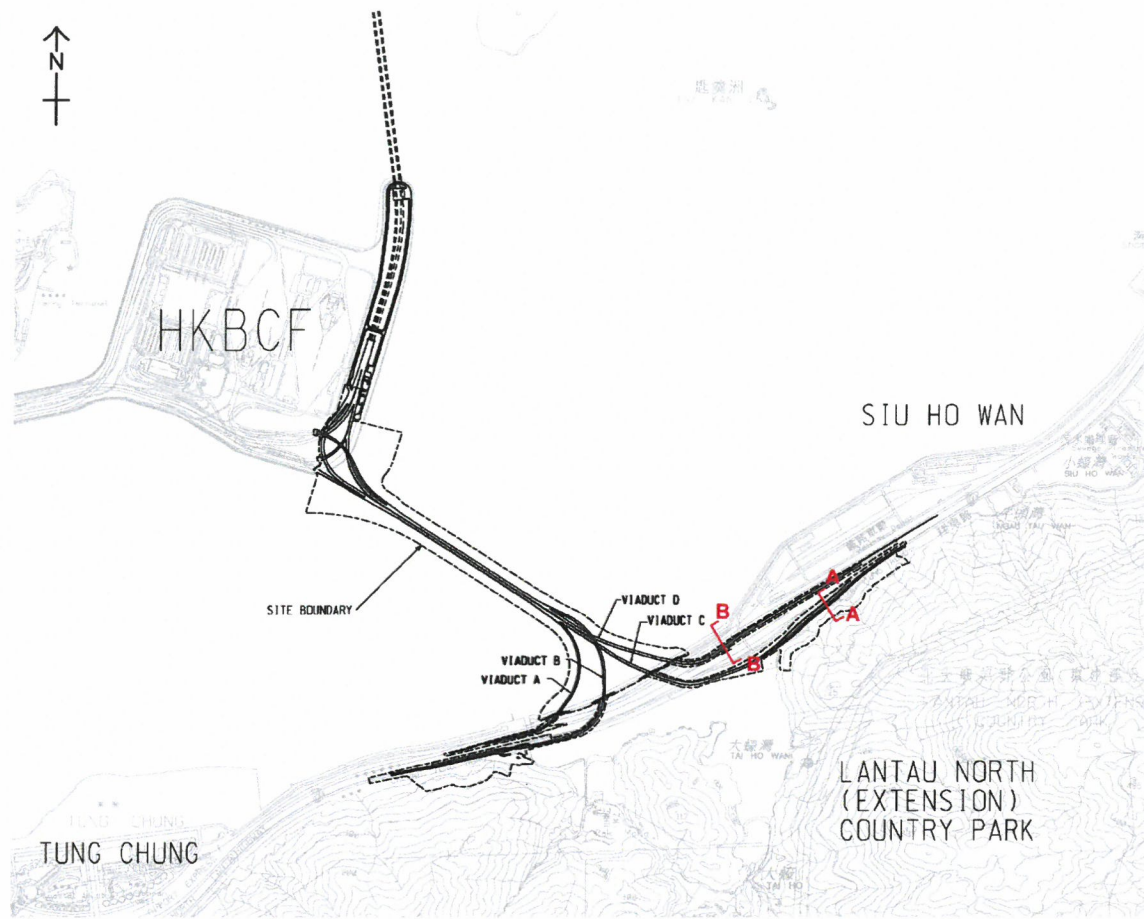
KEY PLAN



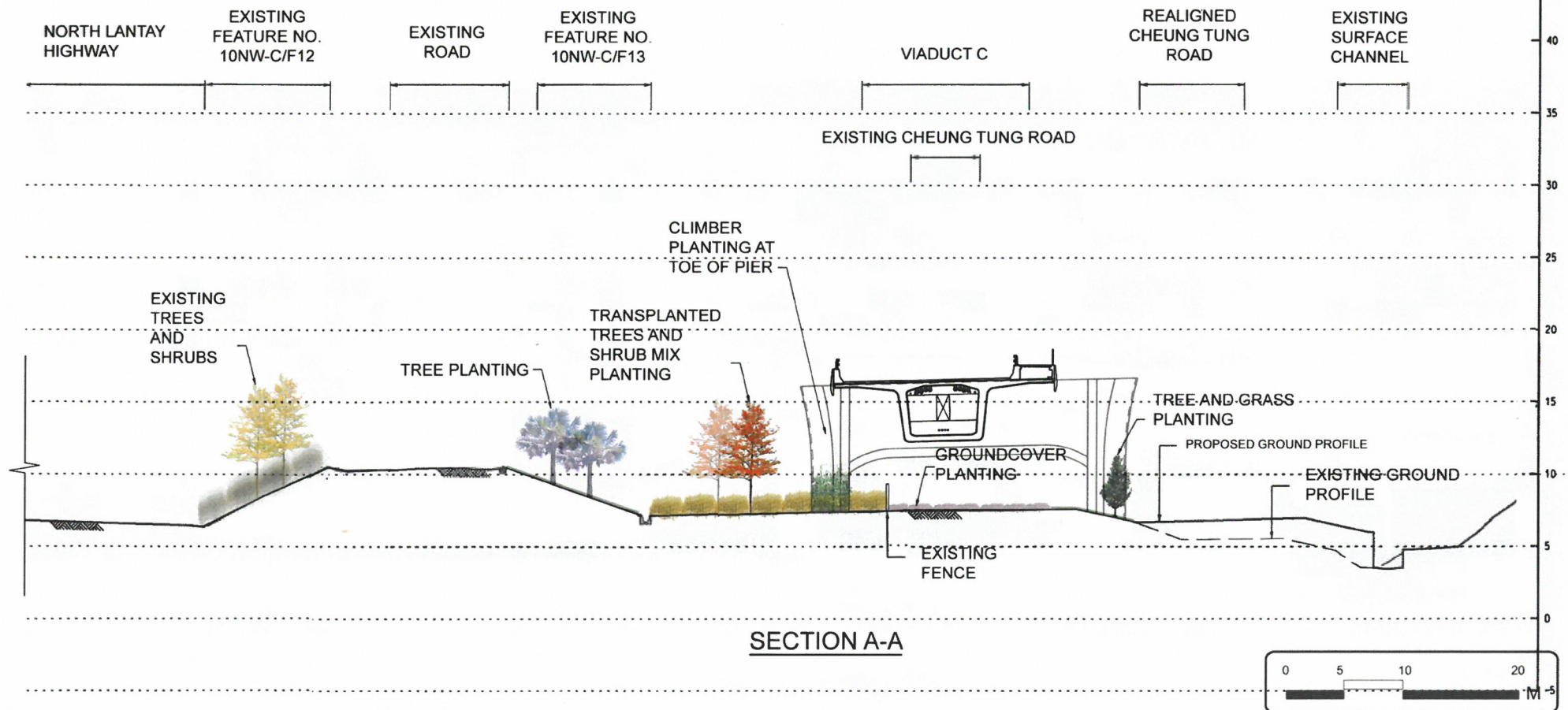
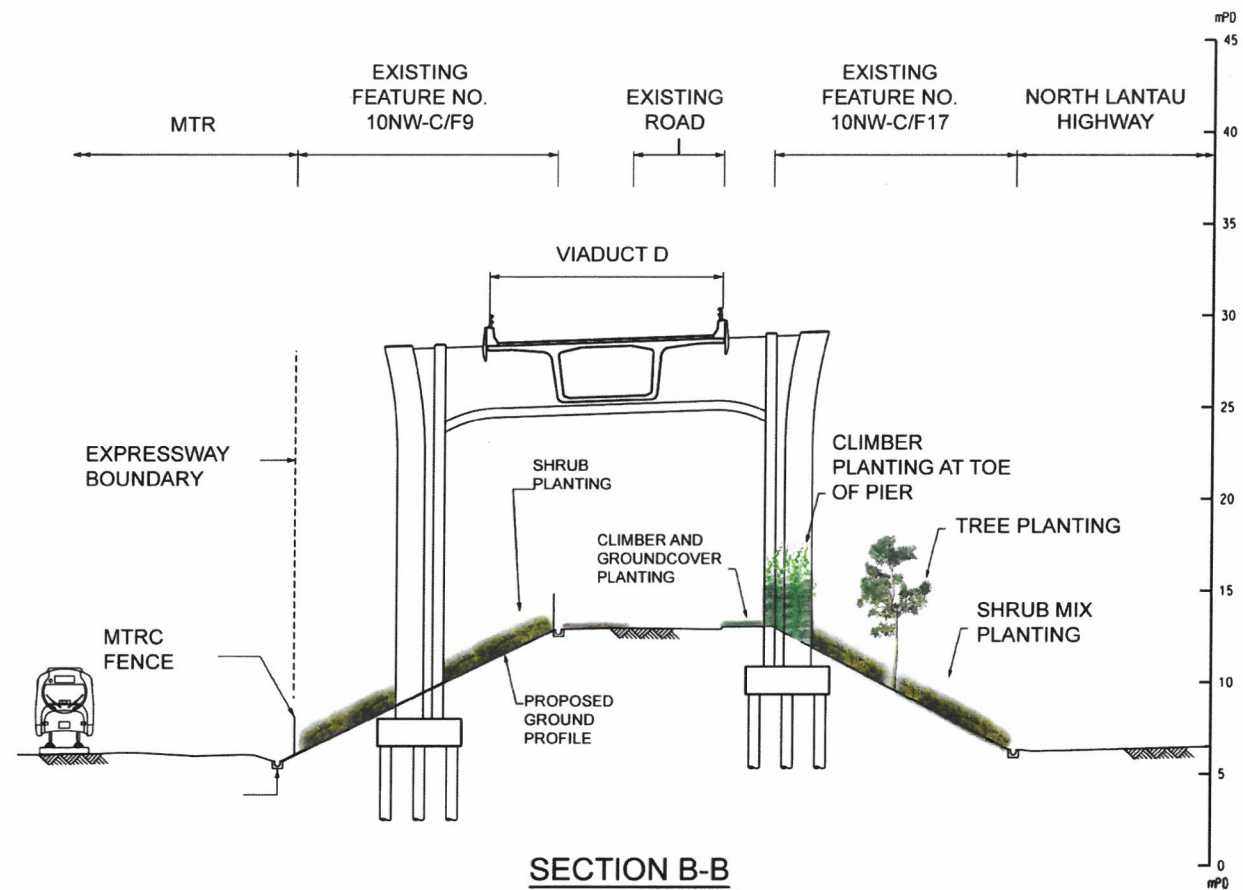
PROJECT NO.
項目編號
60240249
CONTRACT NO.
合約編號
HY/2012/07

SHEET TITLE
圖則名稱
MITIGATION MEASURES PLAN

SHEET NUMBER
圖則編號
C1/LM/044



KEY PLAN



AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| U/R | DATE | DESCRIPTION | CHK. |
|-----|--------|---------------|------|
| A | SEP 20 | LAYOUT UPDATE | CL |

STATUS

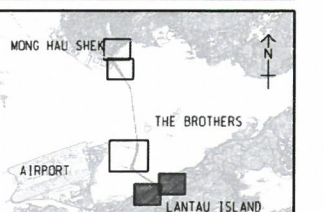
SCALE

A1 1:250

DIMENSION UNIT

MILLIMETRES

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

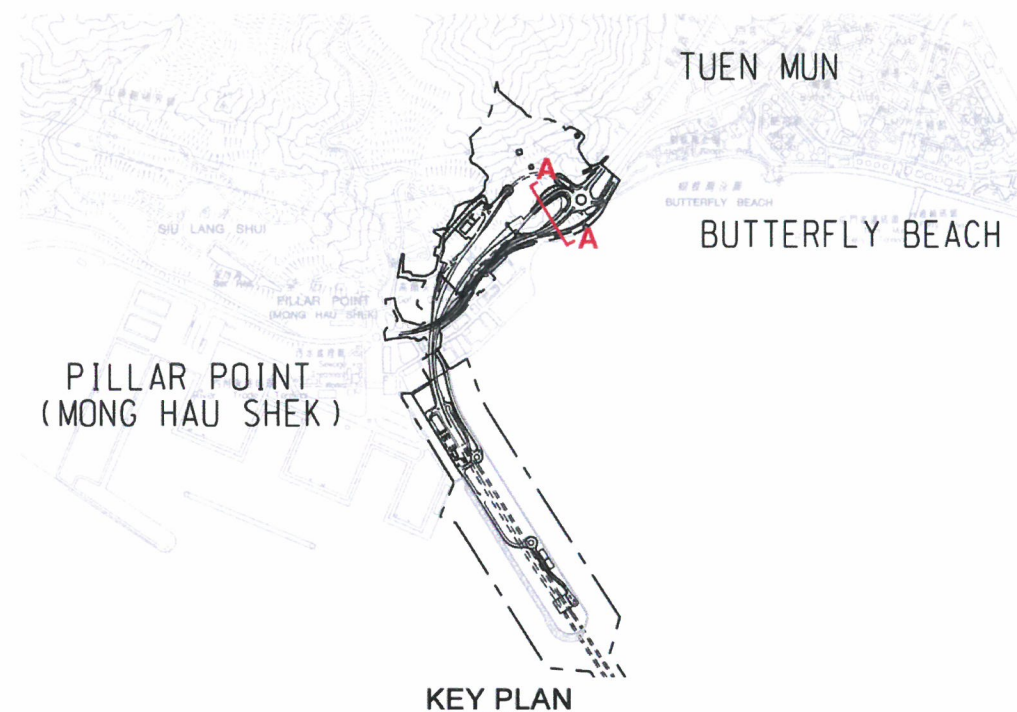
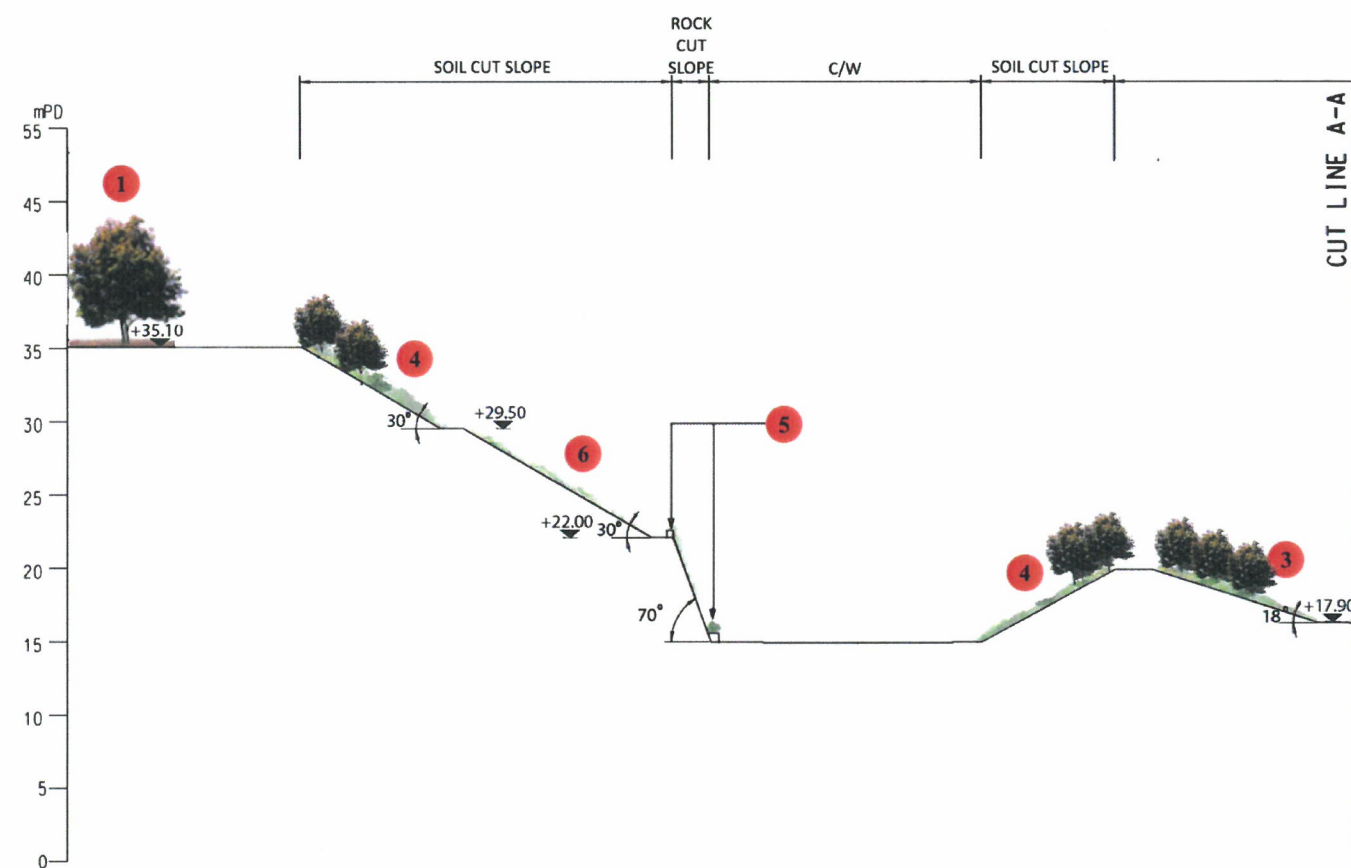
HY/2012/07

SHEET TITLE

LANDSCAPE SECTIONS

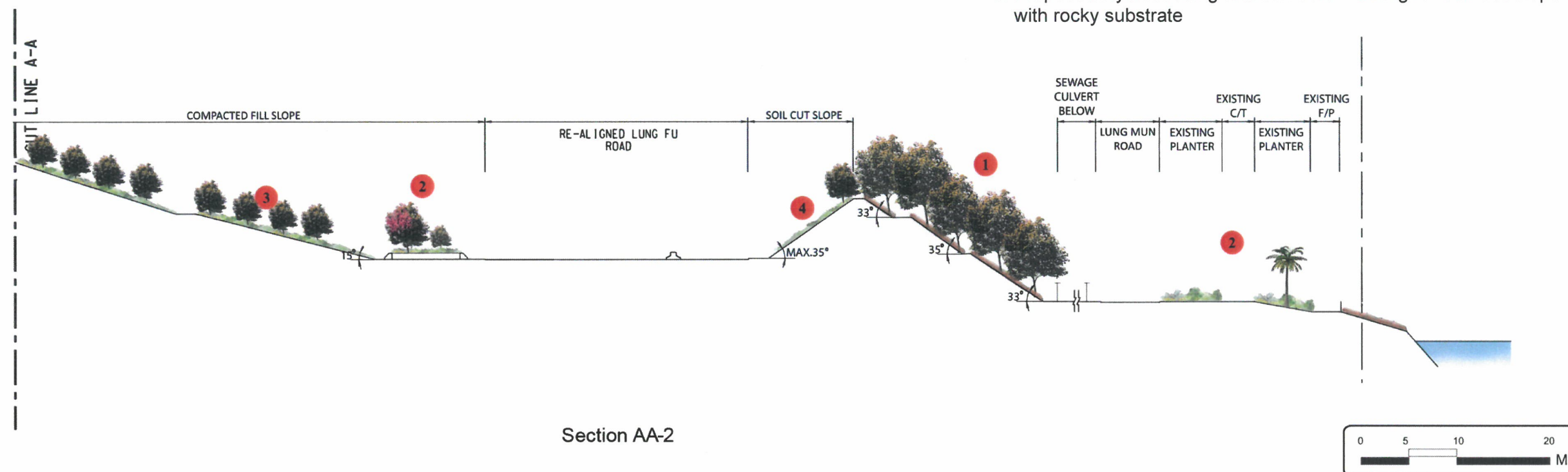
SHEET NUMBER

C1/LM/045



KEYS FOR TUEN MUN AND NORTHERN LANDFALL SECTION

1. Existing Woodland/Tree Groups to be retained
2. Proposed Roadside Amenity Planting
3. Proposed Trees and Shrubs Mix Planting for Compacted Fill Slope
4. Proposed Trees and Shrubs Mix Planting for Soil Cut Slope
5. Proposed Shrubs and Climbers on Toe and Berm Planters to soften the Rock Cut Slope
6. Proposed Hydroseeding and Climbers Planting for Soil Cut Slope with rocky substrate



PROJECT

**TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION**

CLIENT
業主

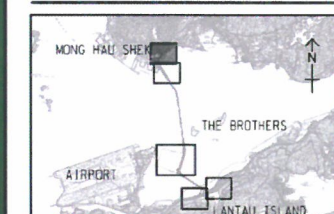
 路政署
HIGHWAYS DEPARTMENT
主要工程管理處(專責事務)
Major Works Project Management Office
(Special Duties)

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

| ISSUE/REVISION | | | |
|----------------|--------|------------------|-----|
| B-17 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| A | SEP 20 | LANDSCAPE UPDATE | CL |
| IR/ | DATE | DESCRIPTION | CHK |

| | |
|--------------------|-------------------------------|
| SCALE 比例 | DIMENSION UNIT 尺寸单位 |
| A1 1:250 | MILLIMETRES |



| | |
|----------------------------|-----------------------------|
| PROJECT NO. 項目編號 | CONTRACT NO. 合約編號 |
| 60240249 | HY/2013/12 |

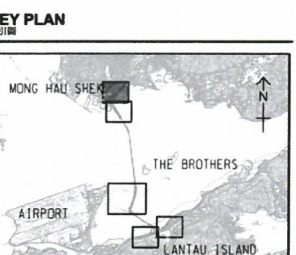
SHEET NUMBER
C3/LM/046

| ISSUE/REVISION | | | |
|----------------|--------|------------------|------|
| I/R | DATE | DESCRIPTION | CHK. |
| A | SEP 20 | LANDSCAPE UPDATE | CL |
| | | | |
| | | | |
| | | | |

STATUS
用版

SCALE
A1 1:250

DIMENSION UNIT
MILLIMETRES

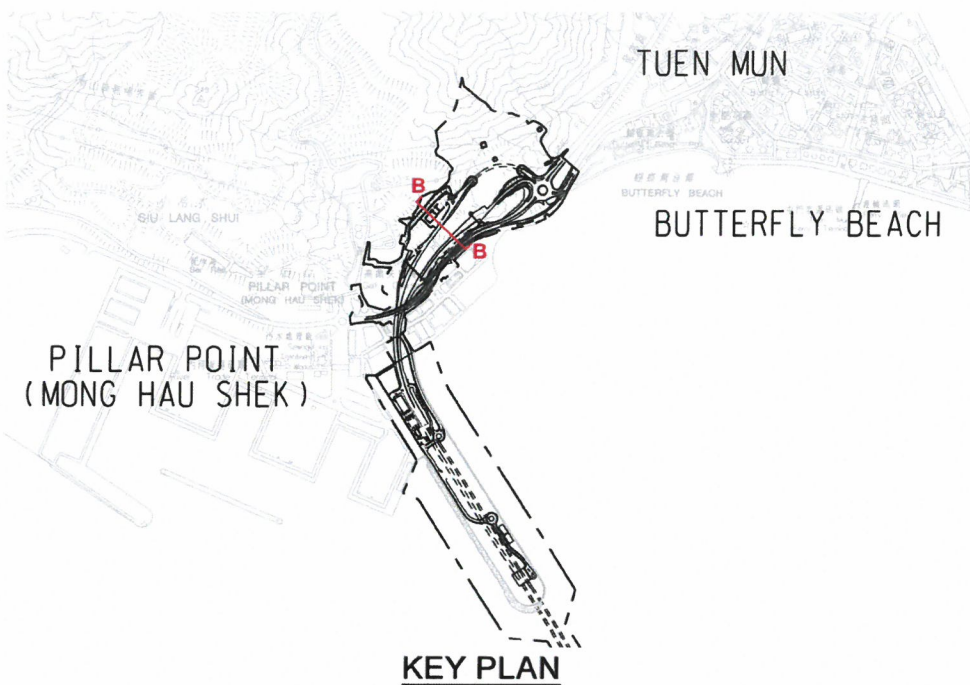


PROJECT NO.
60240249

CONTRACT NO.
HY/2013/12

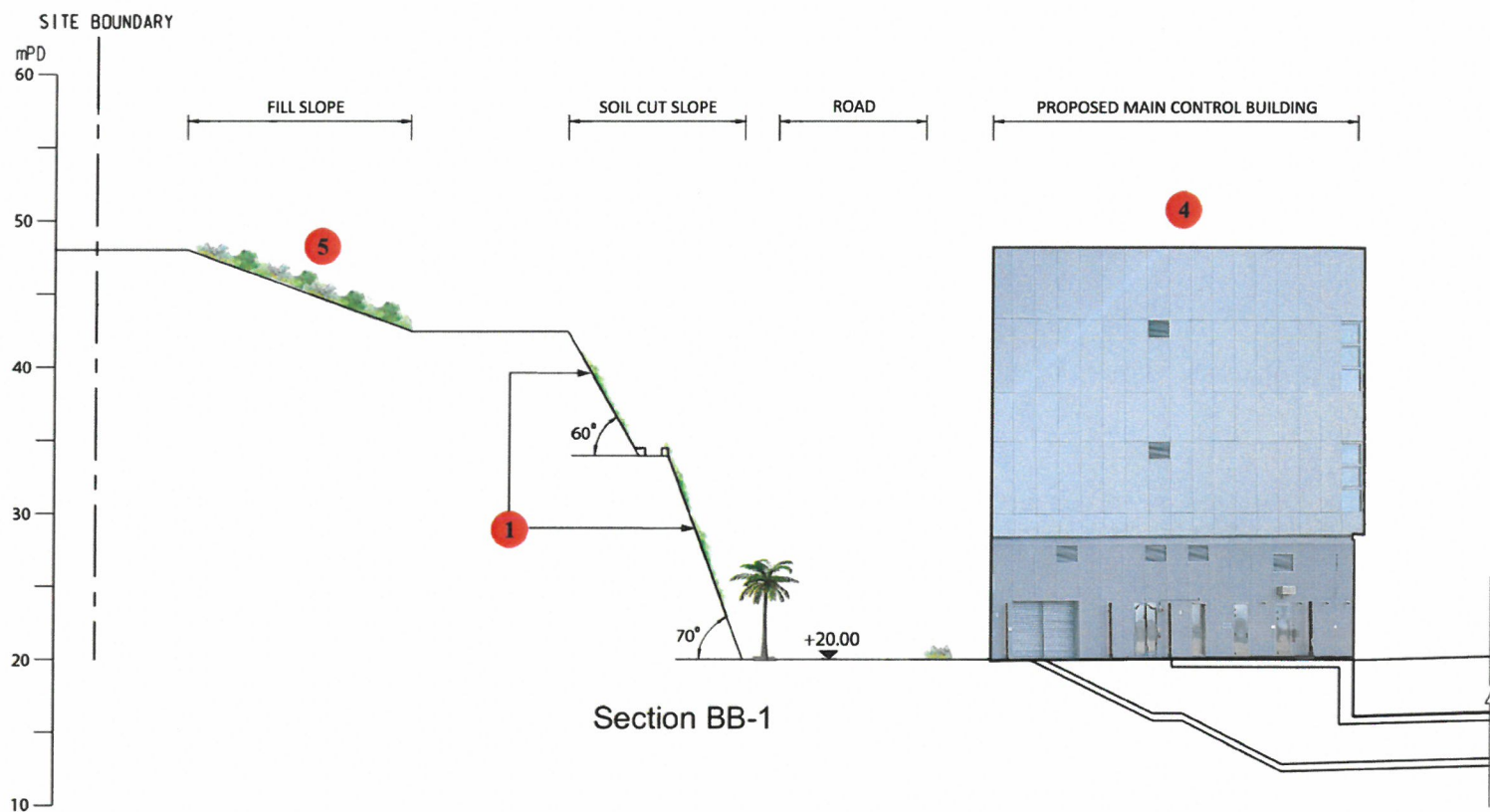
SHEET TITLE
LANDSCAPE SECTIONS

SHEET NUMBER
C3/LM/047

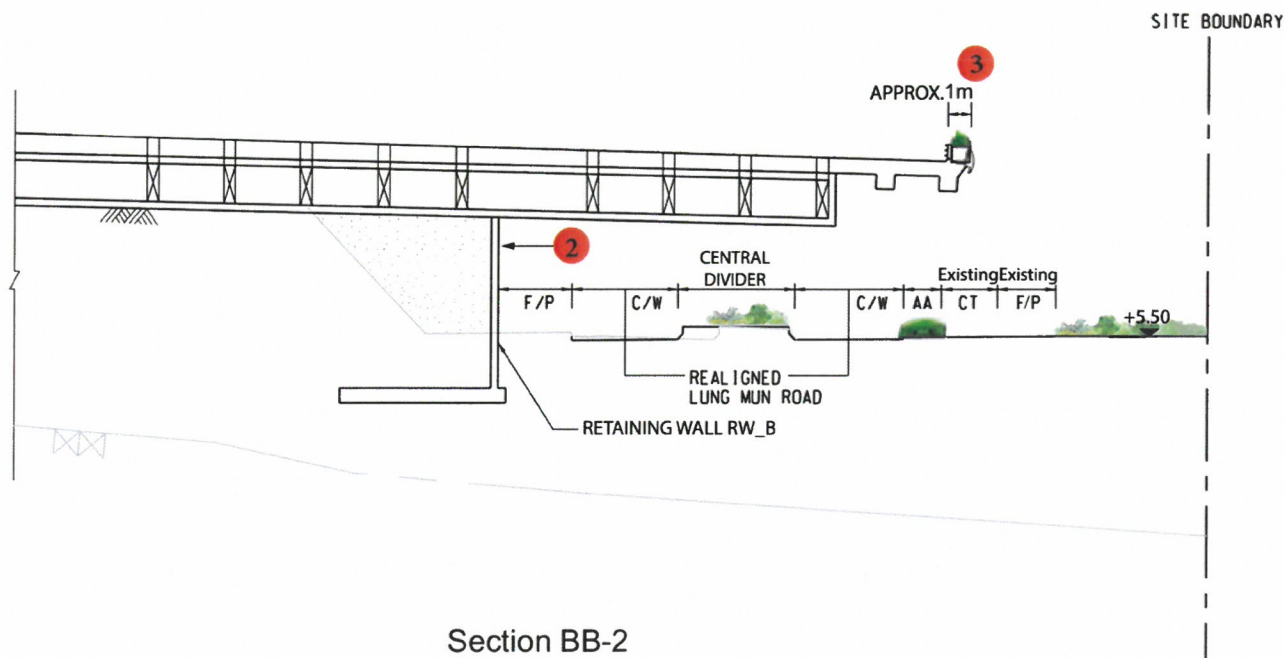


KEYS FOR TUEN MUN AND NORTHERN LANDFALL SECTION

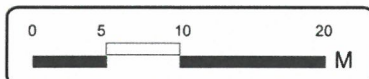
1. Proposed Shrubs and Climbers on Berm Planters to soften the Rock Cut Slope. Proposed trees and shrubs for toe planter.
2. Proposed Graphic Design on VE Panel at Retaining Wall RW_B
3. Proposed Parapet Planter with Shrub Planting to soften the hard edge of the concrete deck
4. Aesthetic Design for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



Section BB-1



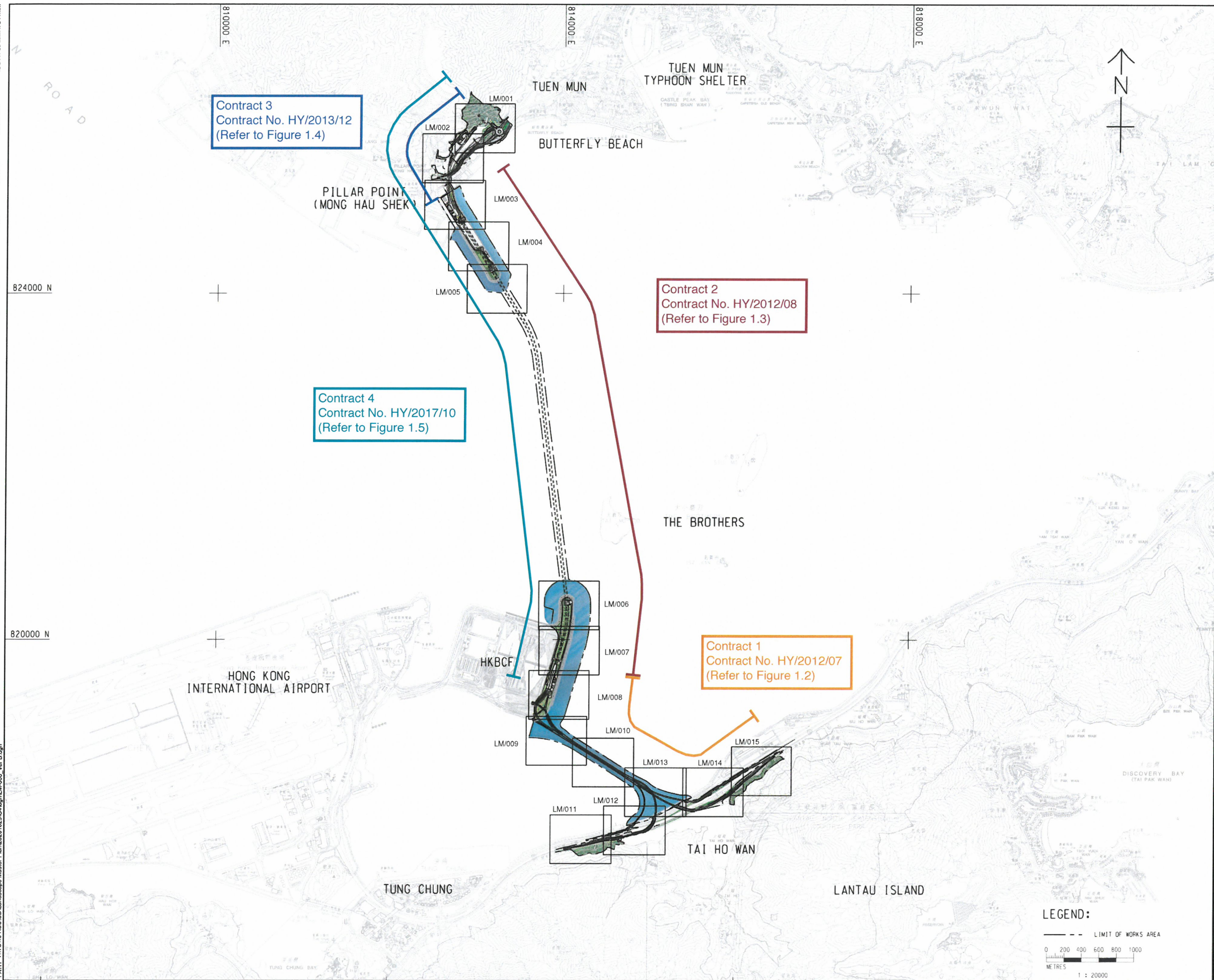
Section BB-2



Appendix D

Proposed Compensatory Planting Areas

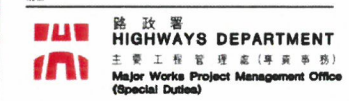
ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: kathrinawong 10/11/2020
PATH_V101010_RSSCDLandscape Master Plan(20201029)CAddnLM-000_Ver B.dgn



PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT



CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

分判工程顧問公司

ISSUE/REVISION

| ISSUE/REVISION | | | |
|----------------|--------|---------------|------|
| NO. | DATE | DESCRIPTION | CHK. |
| | | | |
| | | | |
| | | | |
| | | | |
| A | SEP 20 | LAYOUT UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |
| | | | |

STATUS

初版

SCALE

A1 1:20000

DIMENSION UNIT

MILLIMETRES

KEY PLAN

索引圖

PROJECT NO.

60240249

CONTRACT NO.

CE7/2011(HY)

SHEET TITLE

LANDSCAPE MASTER PLAN
- KEY PLAN

SHEET NUMBER

LM/000

Legend:

Compensatory Planting Area (in ha)

- HY/2012/07 (C1)
- HY/2012/08 (C2)
- HY/2013/12 (C3)
- HY/2017/10 (C4)
- Potential Development Area (PDA)

Compensatory Planting Area (in ha)

HY/2012/07 : Approx. 14.41 ha

HY/2012/08 : Nil

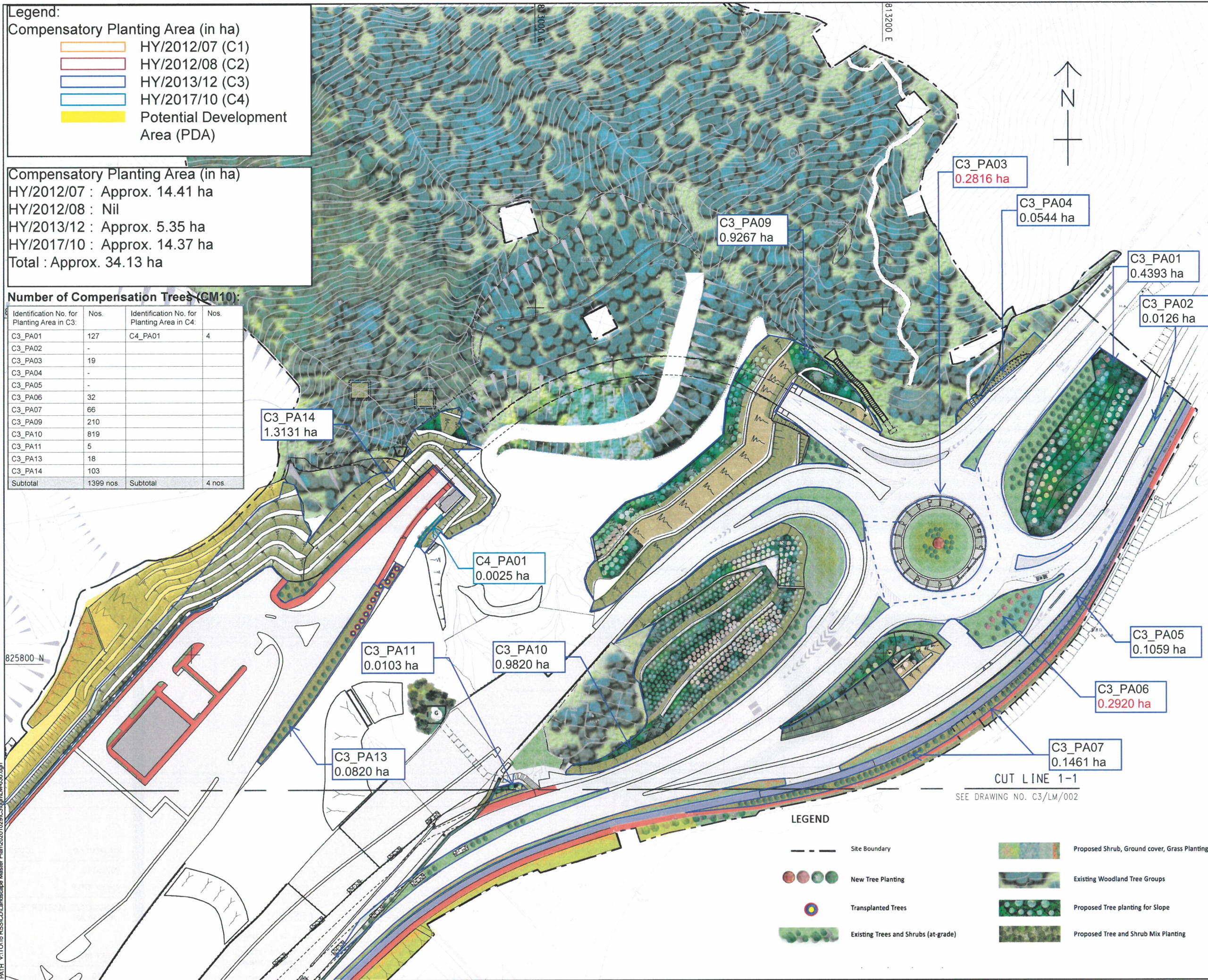
HY/2013/12 : Approx. 5.35 ha

HY/2017/10 : Approx. 14.37 ha

Total : Approx. 34.13 ha

Number of Compensation Trees (CM10):

| Identification No. for Planting Area in C3: | Nos. | Identification No. for Planting Area in C4: | Nos. |
|---|-----------|---|--------|
| C3_PA01 | 127 | C4_PA01 | 4 |
| C3_PA02 | - | | |
| C3_PA03 | 19 | | |
| C3_PA04 | - | | |
| C3_PA05 | - | | |
| C3_PA06 | 32 | | |
| C3_PA07 | 66 | | |
| C3_PA09 | 210 | | |
| C3_PA10 | 819 | | |
| C3_PA11 | 5 | | |
| C3_PA13 | 18 | | |
| C3_PA14 | 103 | | |
| Subtotal | 1399 nos. | Subtotal | 4 nos. |



AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK

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

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

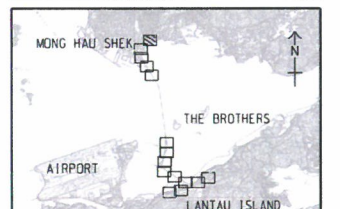
| REV | DATE | DESCRIPTION | CHK. |
|-----|--------|--------------------|------|
| E | AUG 24 | ROUNDOABOUT UPDATE | EC |
| D | JUN 22 | ROUNDOABOUT UPDATE | CL |
| C | MAY 21 | ROUNDOABOUT UPDATE | CL |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS

SCALE

A1 1:1000 A3 1:2000

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

HY/2013/12

SHEET TITLE

LANDSCAPE MASTER PLAN

SHEET NUMBER

C3/LM/001

SHEET 1 OF 15

Legend:

Compensatory Planting Area (in ha)

- HY/2012/07 (C1)
- HY/2012/08 (C2)
- HY/2013/12 (C3)
- HY/2017/10 (C4)
- Potential Development Area (PDA)

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):

| Identification No. for Planting Area in C3: | Nos. | Identification No. for Planting Area in C4: | Nos. |
|---|-----------|---|--------|
| C3_PA01 | 127 | C4_PA01 | 4 |
| C3_PA02 | - | | |
| C3_PA03 | 19 | | |
| C3_PA04 | - | | |
| C3_PA05 | - | | |
| C3_PA06 | 32 | | |
| C3_PA07 | 66 | | |
| C3_PA09 | 210 | | |
| C3_PA10 | 819 | | |
| C3_PA11 | 5 | | |
| C3_PA13 | 18 | | |
| C3_PA14 | 103 | | |
| Subtotal | 1399 nos. | Subtotal | 4 nos. |
| C3_PA08 | - | | |
| C3_PA12 | 12 | | |
| C3_PA15 | 7 | | |
| C3_PA16 | - | | |
| C3_PA17 | - | | |
| C3_PA18 | 20 | | |
| C3_PA19 | 43 | | |
| C3_PA20 | 16 | | |
| C3_PA21 | 23 | | |
| C3_PA22 | - | | |
| Subtotal | 121 nos. | | |
| C3 Total | 1520 nos. | | |



AECOM

PROJECT

TUEN MUN - CHEK LAP KOK LINK

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

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK |
|-----|------------|------------------|-----|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| 1/R | DATE | DESCRIPTION | CHK |
| 1/1 | 10/11/2020 | LANDSCAPE UPDATE | CWN |

STATUS

01/11/2020

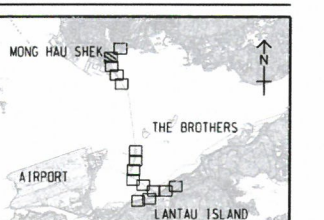
SCALE

A1 1:1000 A3 1:2000

DIMENSION UNIT

MILLIMETRES

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

HY/2013/12

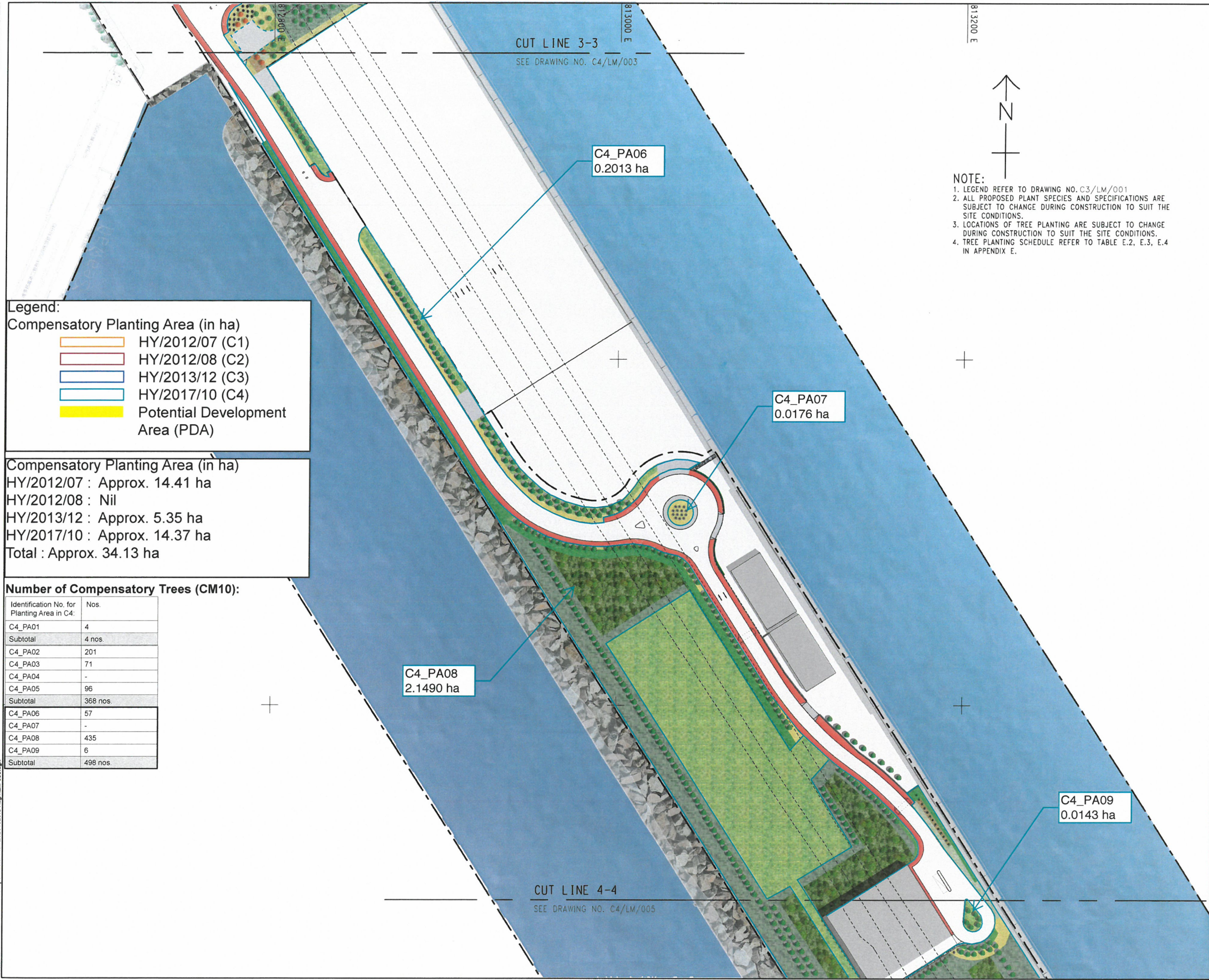
SHEET TITLE

LANDSCAPE MASTER PLAN

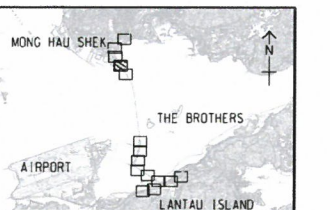
SHEET NUMBER

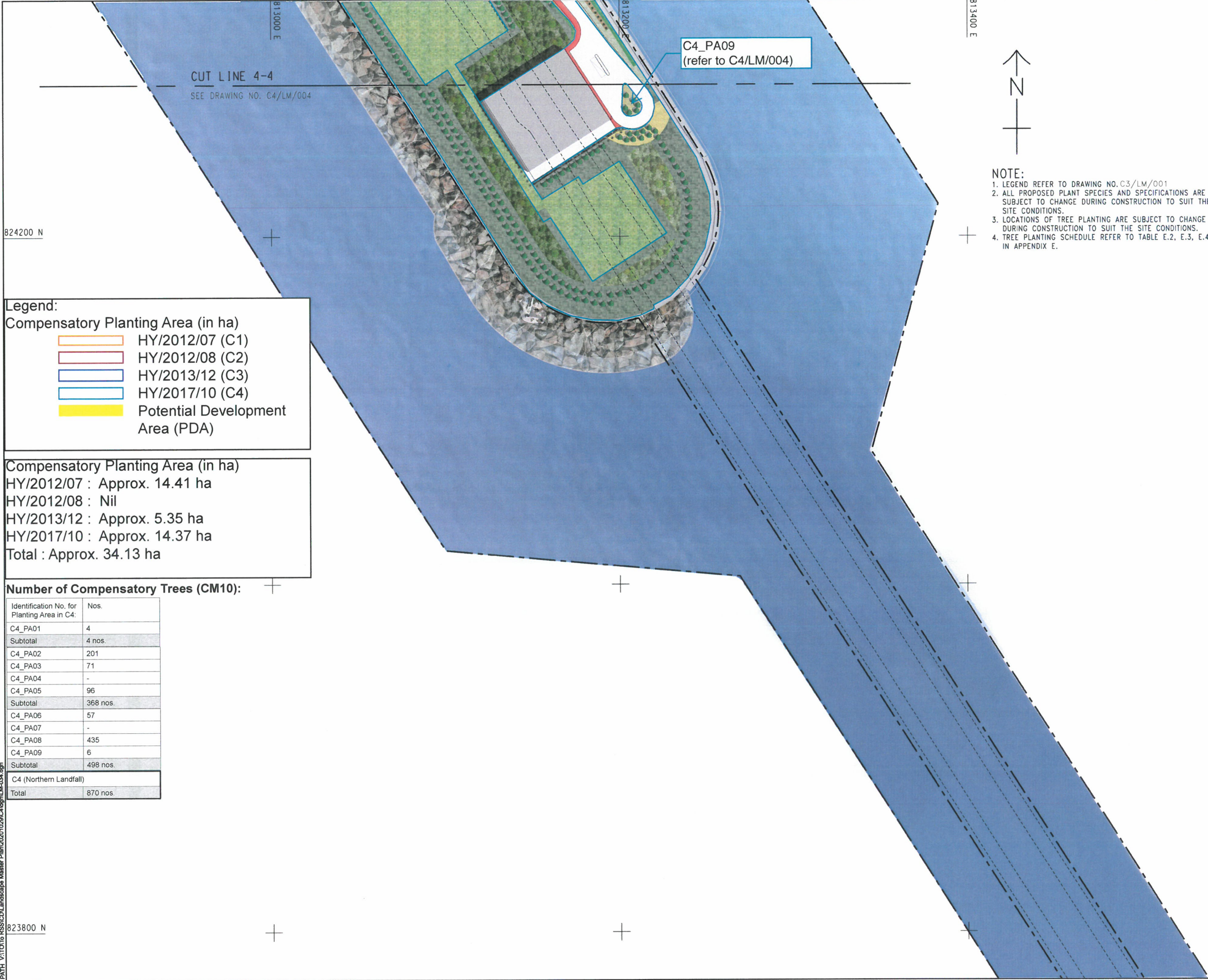
C3/LM/002

SHEET 2 OF 15



| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| C | MAR 21 | LANDSCAPE UPDATE | CL |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK. |
| 修改 | 日期 | 內容變更 | 校核 |





Legend:

| | |
|----------------|----------------------------------|
| Orange box | HY/2012/07 (C1) |
| Pink box | HY/2012/08 (C2) |
| Blue box | HY/2013/12 (C3) |
| Light blue box | HY/2017/10 (C4) |
| Yellow box | Potential Development Area (PDA) |

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):

| Identification No. for Planting Area in C4: | Nos. |
|---|----------|
| C4_PA01 | 4 |
| Subtotal | 4 nos. |
| C4_PA02 | 201 |
| C4_PA03 | 71 |
| C4_PA04 | - |
| C4_PA05 | 96 |
| Subtotal | 368 nos. |
| C4_PA06 | 57 |
| C4_PA07 | - |
| C4_PA08 | 435 |
| C4_PA09 | 6 |
| Subtotal | 498 nos. |
| C4 (Northern Landfall) | |
| Total | 870 nos. |

- NOTE:
- LEGEND REFER TO DRAWING NO. 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.

AECOM

PROJECT
TUN MUN -
CHEK LAP KOK LINK

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

CLIENT
路政署
HIGHWAYS DEPARTMENT
主要工程管理处(專責專務)
Major Works Project Management Office
(Special Duties)

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
安邦工程顧問公司

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS
現狀

SCALE
比例
A1 1:1000 A3 1:2000

DIMENSION UNIT
尺寸單位
MILLIMETRES

KEY PLAN
索引圖

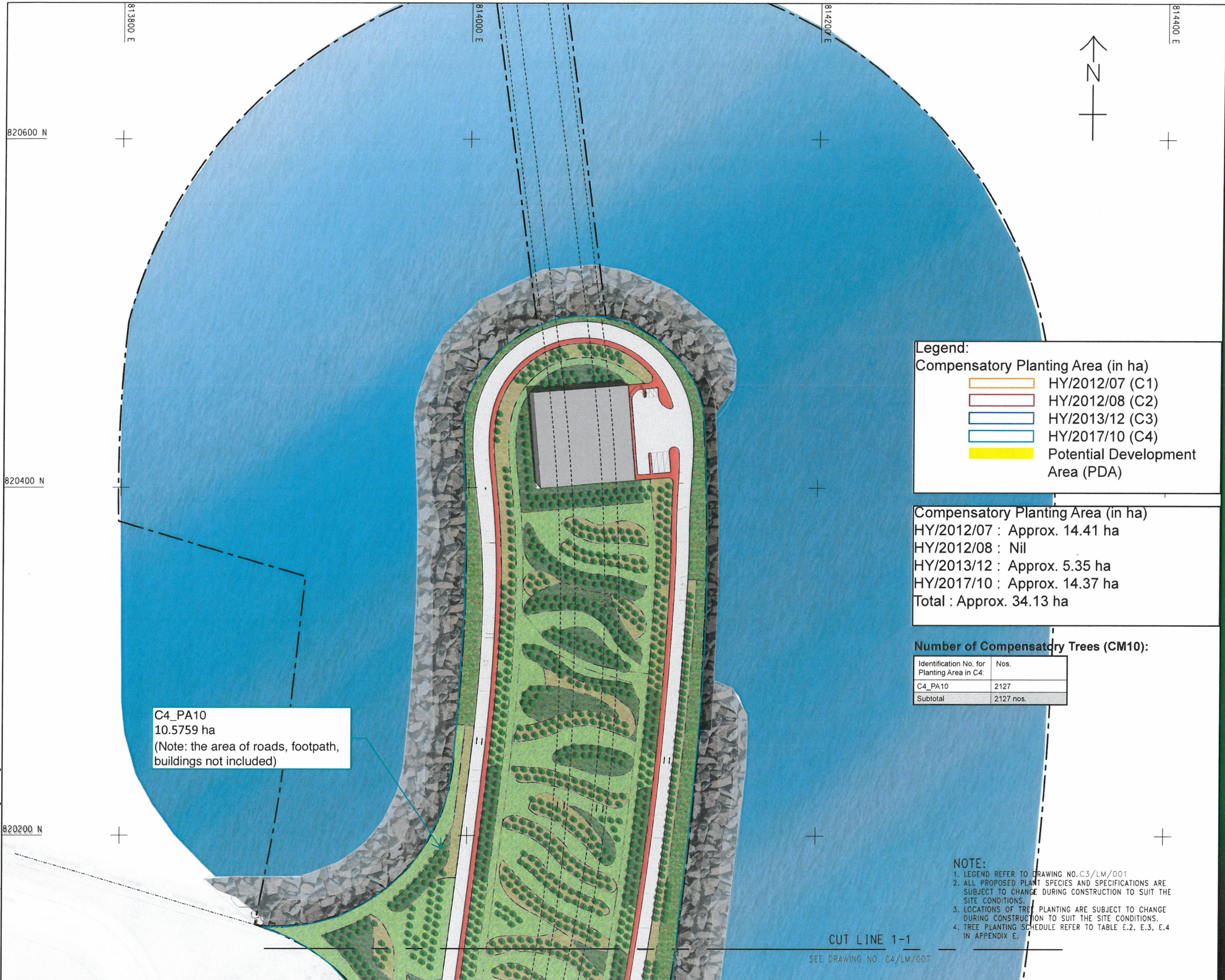
PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號
HY/2017/10

SHEET TITLE
圖紙名稱
LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號
C4/LM/005

SHEET 5 OF 15



Legend:

Compensatory Planting Area (in ha)

- HY/2012/07 (C1)
- HY/2012/08 (C2)
- HY/2013/12 (C3)
- HY/2017/10 (C4)
- Potential Development Area (PDA)

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):

| Identification No. for Planting Area in C4: | Nos. |
|---|-----------|
| C4_PA10 | 2127 |
| Subtotal | 2127 nos. |

NOTE:

- LEGEND REFER TO DRAWING NO. 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 - NORTHERN CONNECTION TUNNEL BUILDINGS, ELECTRICAL AND MECHANICAL WORKS

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS
階段

SCALE
比例
A1 1:1000 A3 1:2000

DIMENSION UNIT
尺寸單位
MILLIMETRES

KEY PLAN
索引圖

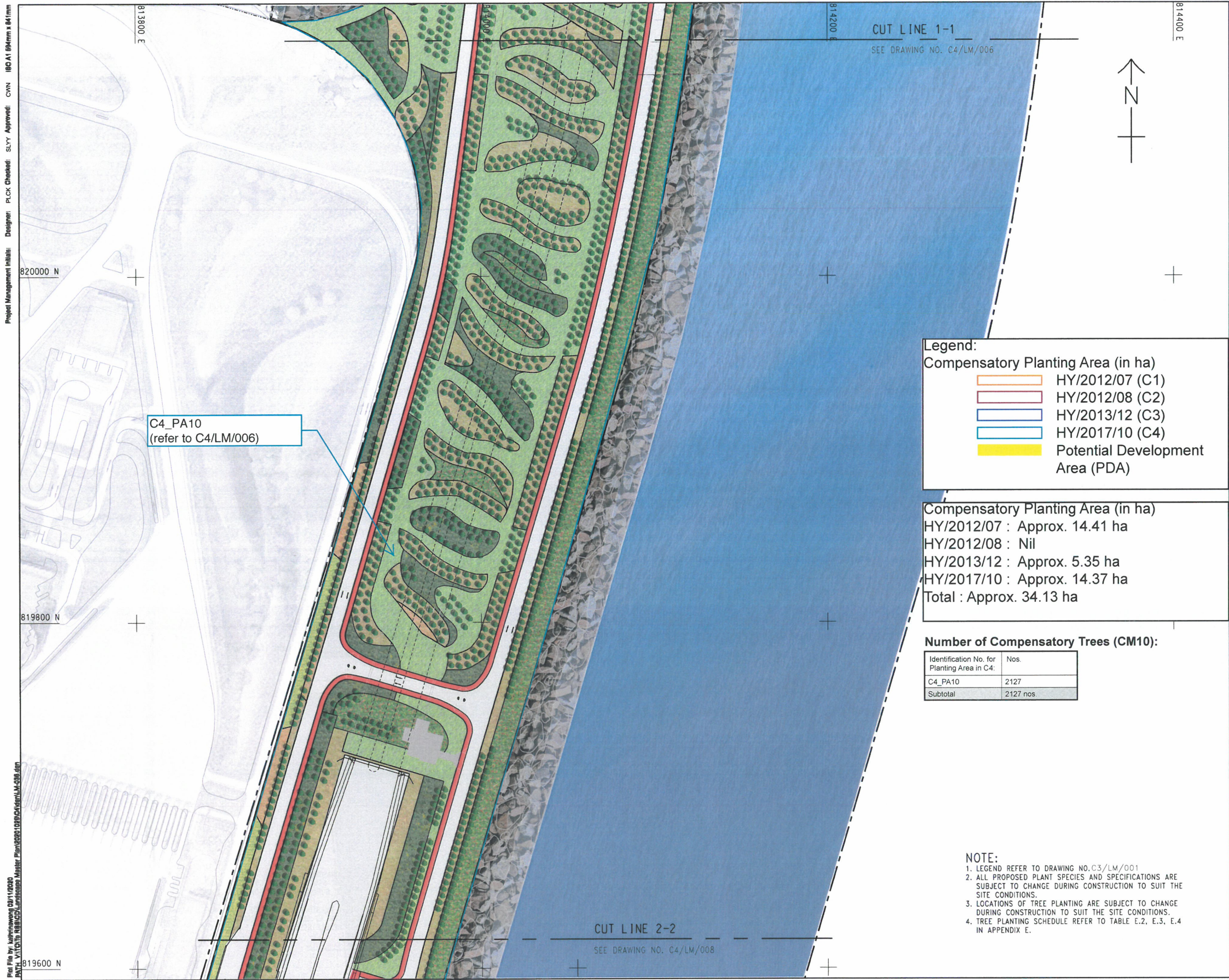
PROJECT NO.
60240249

CONTRACT NO.
HY/2017/10

SHEET TITLE
LANDSCAPE MASTER PLAN

SHEET NUMBER
C4/LM/006

SHEET 6 OF 15



Legend:

Compensatory Planting Area (in ha)

| | |
|------------------|----------------------------------|
| [Orange Box] | HY/2012/07 (C1) |
| [Red Box] | HY/2012/08 (C2) |
| [Blue Box] | HY/2013/12 (C3) |
| [Light Blue Box] | HY/2017/10 (C4) |
| [Yellow Box] | Potential Development Area (PDA) |

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):

| Identification No. for Planting Area in C4: | Nos. |
|---|-----------|
| C4_PA10 | 2127 |
| Subtotal | 2127 nos. |

- NOTE:**
1. LEGEND REFER TO DRAWING NO. C3/LM/001
 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.

AECOM

PROJECT

TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE

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

CLIENT

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

CONSULTANT

工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

香港工程顧問公司

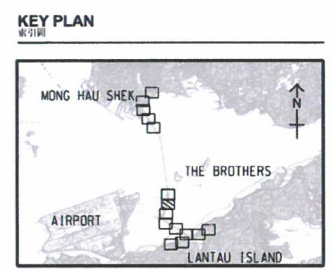
ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| U/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容變更 | 覆核 |

STATUS

階段

| SCALE | DIMENSION UNIT |
|---------------------|----------------|
| A1 1:1000 A3 1:2000 | MILLIMETRES |



PROJECT NO.

項目編號
60240249

CONTRACT NO.

合約編號
HY/2017/10

SHEET TITLE

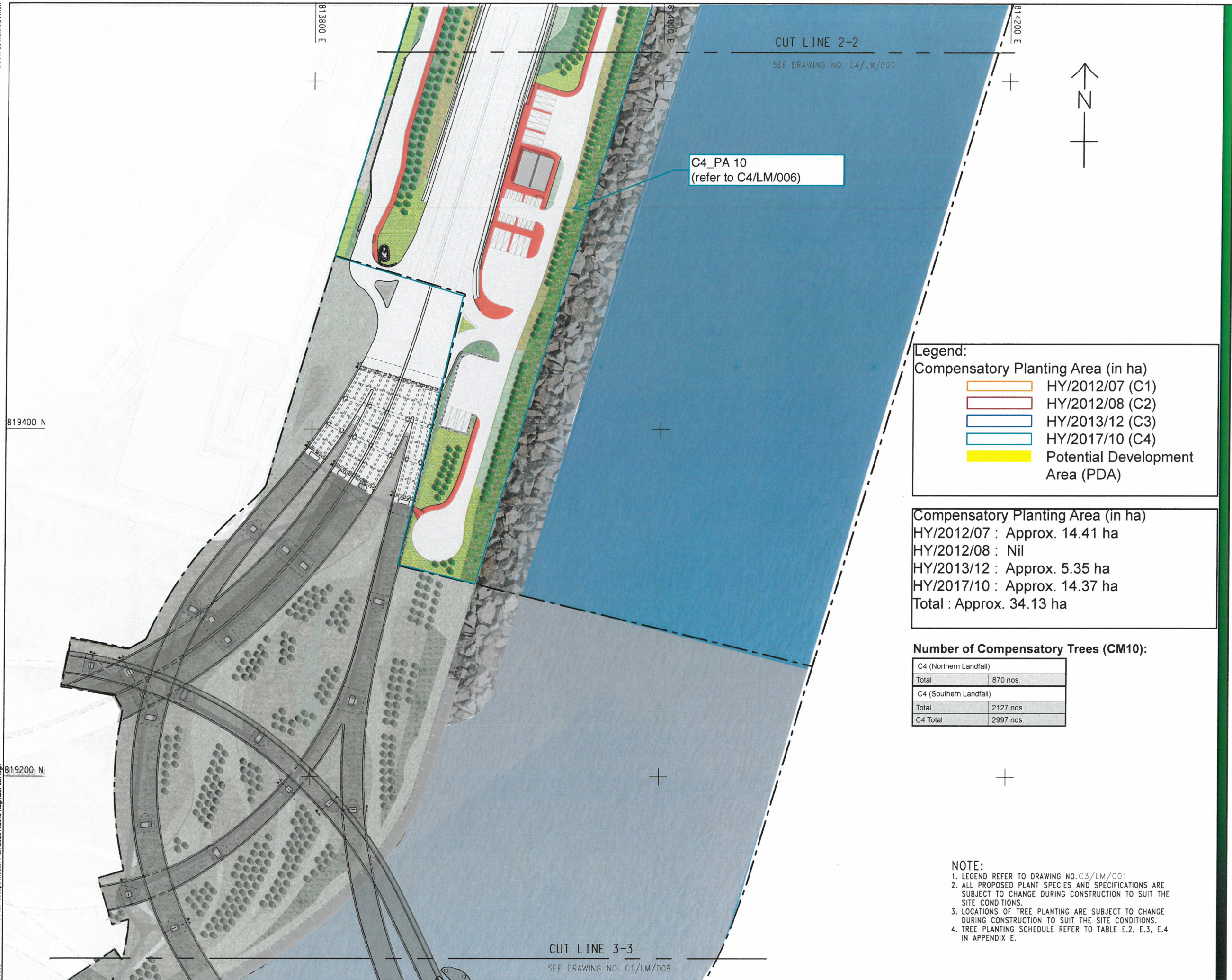
圖紙名稱
LANDSCAPE MASTER PLAN

SHEET NUMBER

圖紙編號
C4/LM/007

SHEET 7 OF 15

Plot File by: kuthinawong 03/11/2020
PATH: V:\TOTO\RSS\CDU\landscape Master Plan\20201029\C4\gmLM-037.dgn
ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:



Legend:

Compensatory Planting Area (in ha)

| | |
|--|----------------------------------|
| | HY/2012/07 (C1) |
| | HY/2012/08 (C2) |
| | HY/2013/12 (C3) |
| | HY/2017/10 (C4) |
| | Potential Development Area (PDA) |

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):

| | |
|------------------------|-----------|
| C4 (Northern Landfall) | |
| Total | 870 nos. |
| C4 (Southern Landfall) | |
| Total | 2127 nos. |
| C4 Total | 2997 nos. |

- NOTE:
1. LEGEND REFER TO DRAWING NO. C3/LM/001
 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.

AECOM

PROJECT
TUN MUN -
CHEK LAP KOK LINK

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

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

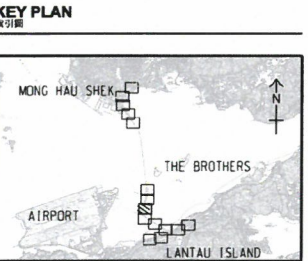
CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

| ISSUE/REVISION | | | |
|----------------|--------|------------------|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| IR | DATE | DESCRIPTION | CHK |
| | | | |

STATUS
階段

SCALE
比例
A1 1:1000 A3 1:2000
DIMENSION UNIT
尺寸單位
MILLIMETRES

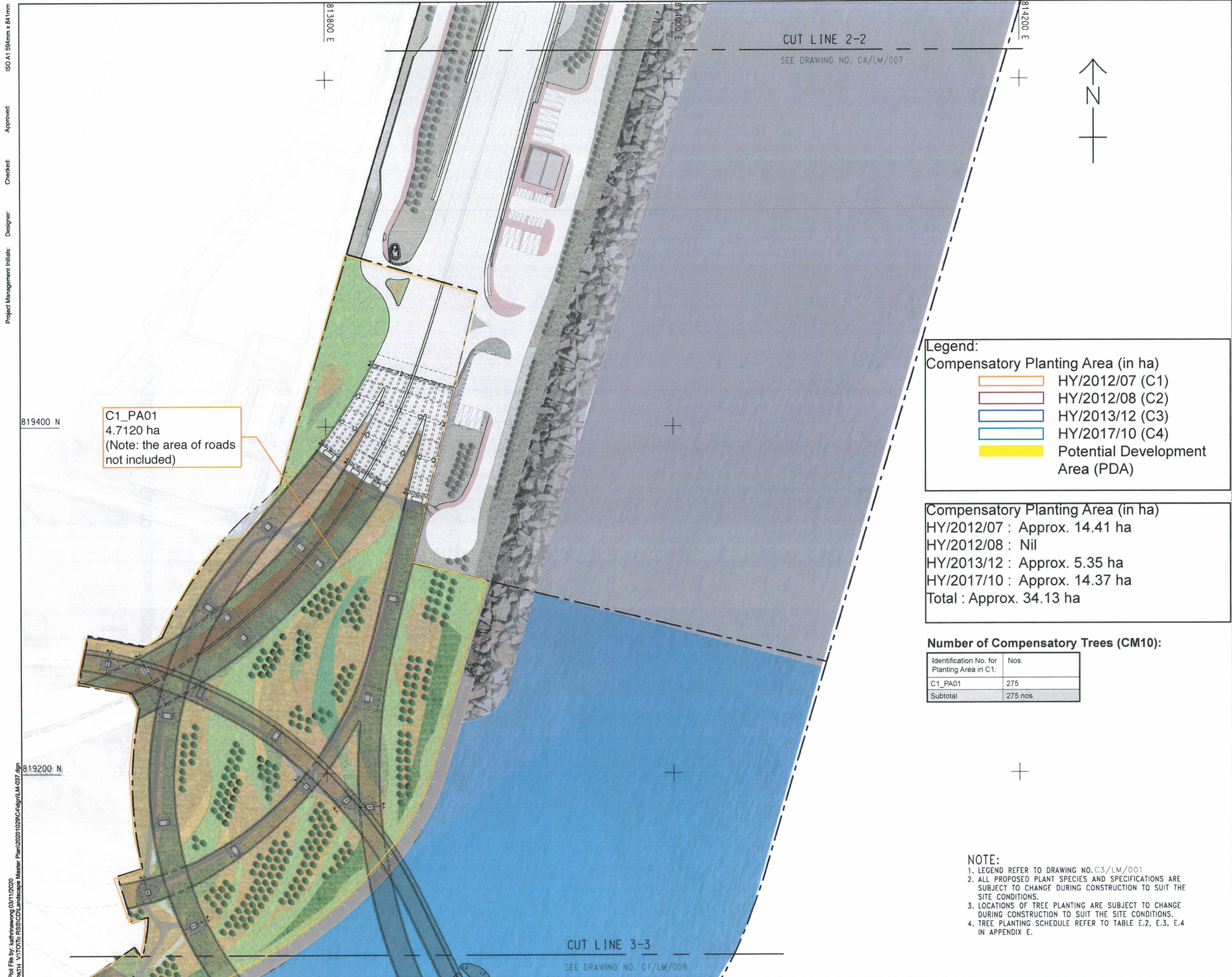


PROJECT NO.
項目編號
60240249
CONTRACT NO.
合約編號
HY/2017/10

SHEET TITLE
圖紙名稱
LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號
C4/LM/008i

SHEET 8 OF 15



C1_PA01
4.7120 ha
(Note: the area of roads
not included)

Legend:

Compensatory Planting Area (in ha)

| | |
|--|----------------------------------|
| | HY/2012/07 (C1) |
| | HY/2012/08 (C2) |
| | HY/2013/12 (C3) |
| | HY/2017/10 (C4) |
| | Potential Development Area (PDA) |

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):

| Identification No. for Planting Area in C1: | Nos. |
|---|----------|
| C1_PA01 | 275 |
| Subtotal | 275 nos. |

- NOTE:**
1. LEGEND REFER TO DRAWING NO. C3/LM/001
 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.



PROJECT
TUN MUN -
CHEK LAP KOK LINK

CONTRACT TITLE
TUN MUN - CHEK LAP KOK LINK -
SOUTHERN CONNECTING 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)

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

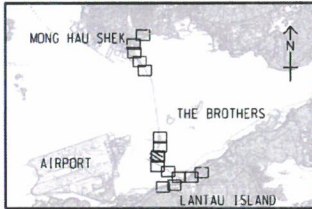
| ISSUE/REVISION | | | |
|----------------|--------|------------------|------|
| NO. | DATE | DESCRIPTION | CHK. |
| | | | |
| | | | |
| | | | |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| | | | |
| | | | |
| | | | |

STATUS

SCALE
A1 1 : 1000 A3 1:2000

DIMENSION UNIT
MILLIMETRES

KEY PLAN

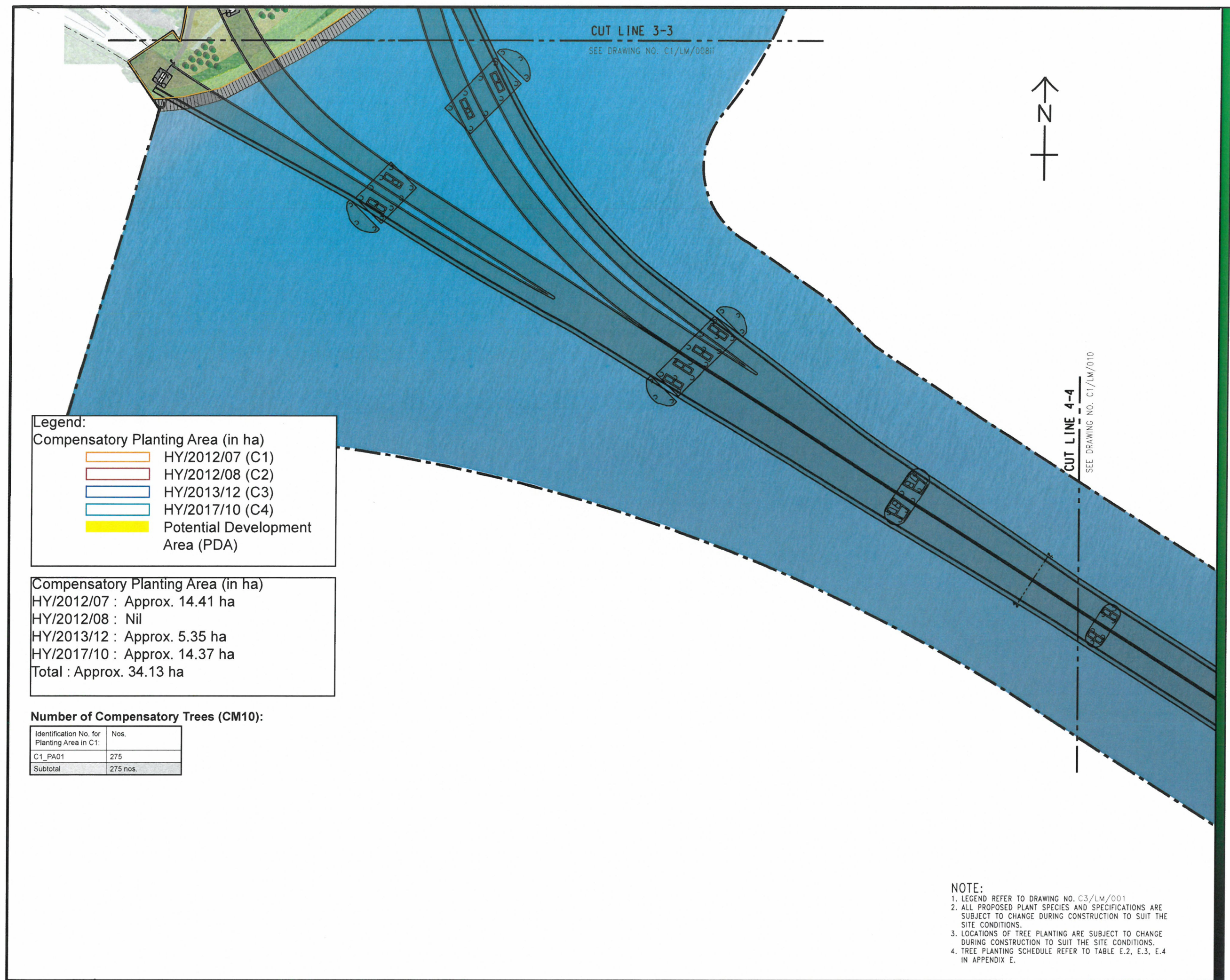


PROJECT NO.
60240249

CONTRACT NO.
HY/2012/07

SHEET TITLE
LANDSCAPE MASTER PLAN

SHEET NUMBER
C1/LM/008ii



AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

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

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|-------|------------------|------|
| B | SEP20 | LANDSCAPE UPDATE | CL |
| A | SEP19 | LANDSCAPE UPDATE | CWN |

STATUS

SCALE
A1 1:1000 A3 1:2000
DIMENSION UNIT
MILLIMETRES

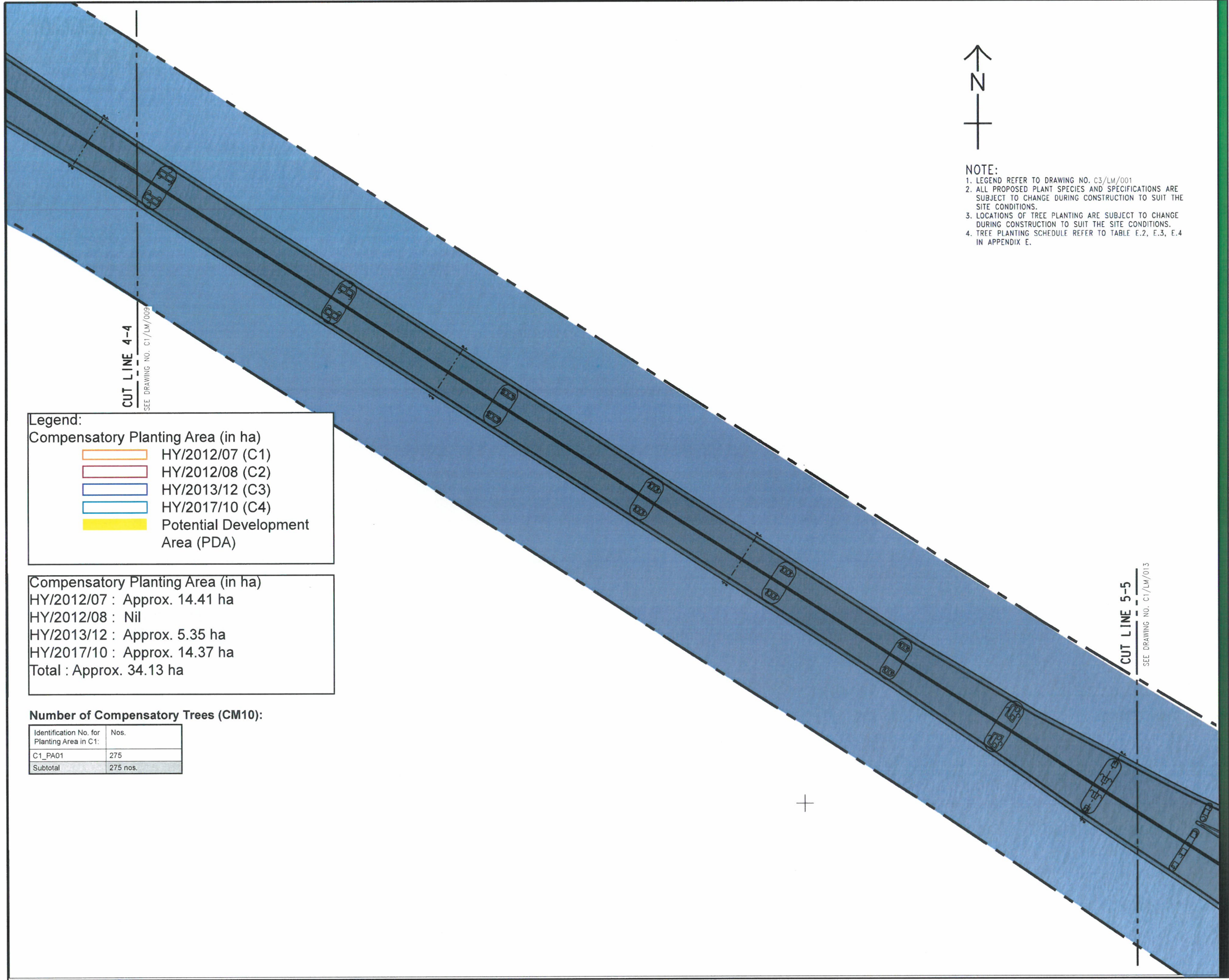
KEY PLAN

PROJECT NO.
60240249
CONTRACT NO.
HY/2012/07

SHEET TITLE
LANDSCAPE MASTER PLAN

SHEET NUMBER
C1/LM/009

SHEET 9 OF 15



Legend:

Compensatory Planting Area (in ha)

| | |
|------------------|----------------------------------|
| [Orange Box] | HY/2012/07 (C1) |
| [Red Box] | HY/2012/08 (C2) |
| [Blue Box] | HY/2013/12 (C3) |
| [Light Blue Box] | HY/2017/10 (C4) |
| [Yellow Box] | Potential Development Area (PDA) |

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):

| Identification No. for Planting Area in C1: | Nos. |
|---|----------|
| C1_PA01 | 275 |
| Subtotal | 275 nos. |



- NOTE:
1. LEGEND REFER TO DRAWING NO. C3/LM/001
 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.



PROJECT
項目
TUEN MUN -
CHEK LAP KOK LINK

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

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

CONSULTANT
顧問公司
AECOM Asia Company Ltd.
www.aecom.com

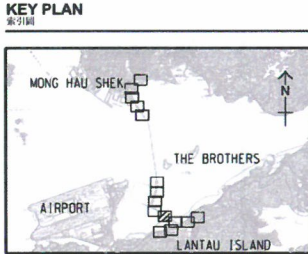
SUB-CONSULTANTS
分判工程師/顧問公司

| ISSUE/REVISION 修訂 | | | |
|----------------------|-------|------------------|------|
| | | | |
| | | | |
| | | | |
| B | SEP20 | LANDSCAPE UPDATE | CL |
| A | SEP19 | LANDSCAPE UPDATE | CWN |
| I/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容摘要 | 校核 |

STATUS
現況

SCALE
比例
A1 1:1000 A3 1:2000

DIMENSION UNIT
尺寸單位
MILLIMETRES



PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號
HY/2012/07

SHEET TITLE
圖紙名稱
LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號
C1/LM/010

Legend:

| | |
|--|---|
| | HY/2012/07 (C1) |
| | HY/2012/07 (C1*) Entrusted Landscape Works to Contract No. DC/2016/01 |
| | HY/2012/08 (C2) |
| | HY/2013/12 (C3) |
| | HY/2017/10 (C4) |
| | Potential Development Area (PDA) |

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):

| 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. |

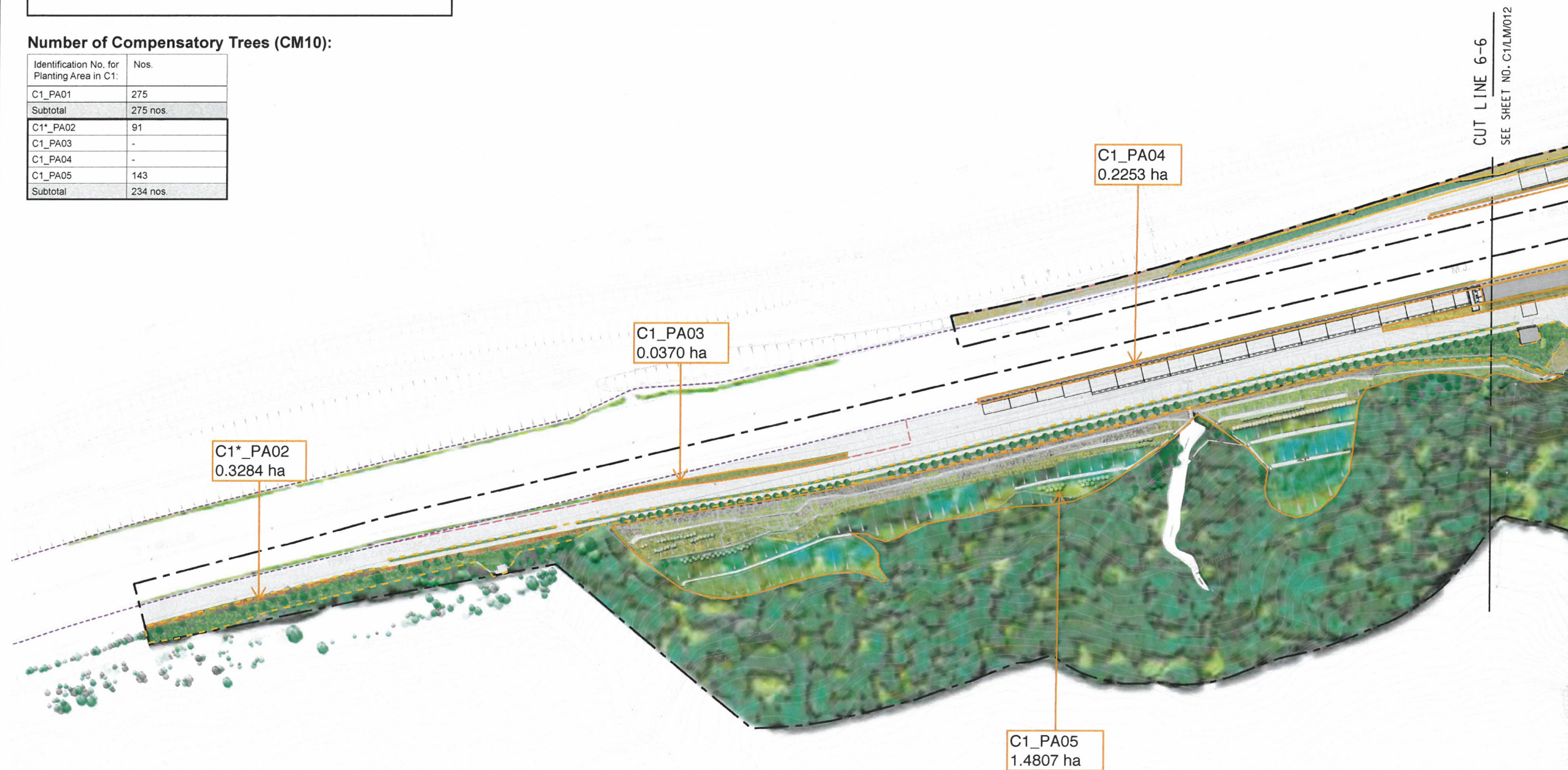
LEGEND

| | |
|--|--------------------------------------|
| | Site Boundary |
| | New Tree Planting |
| | Transplanted Trees |
| | Existing Trees and Shrubs (at-grade) |
| | Proposed Expressway Boundary |

| | |
|--|--|
| | Proposed Shrub, Ground cover, Grass Planting |
| | Existing Woodland Tree Groups |
| | Proposed Tree planting for Slope |
| | Proposed Tree and Shrub Mix Planting |

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO TABLE E.2, E.3, E.4 IN APPENDIX E.



AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK

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

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

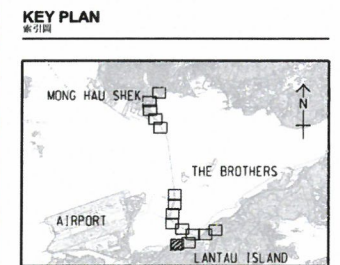
SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS
現狀

SCALE
A1 1:1000 A3 1:2000
DIMENSION UNIT
MILLIMETRES



PROJECT NO.
60240249
CONTRACT NO.
HY/2012/07

SHEET TITLE
LANDSCAPE MASTER PLAN

SHEET NUMBER
C1/LM/011
SHEET 11 OF 15

Plot File By: kshirawong 02/11/2020
PATH: V:\TO10 RSS\CD\Landcape Master Plan\20201029\C1\041.dgn
Project Management Initials: Designer: PLCK Checked: SLVY Approved: CWN
ISO A1 594mm x 841mm

Legend:

Compensatory Planting Area (in ha)

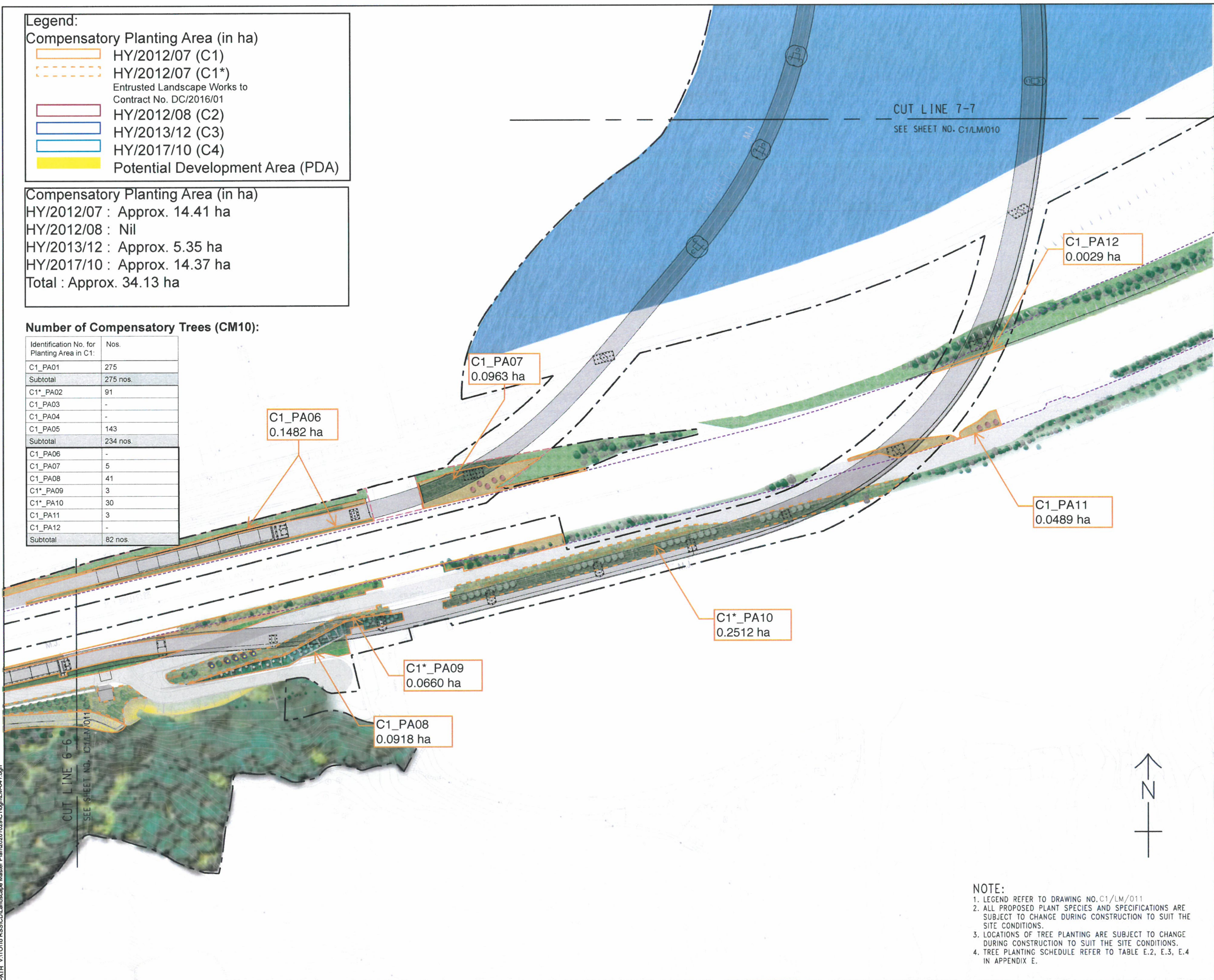
- HY/2012/07 (C1)
- HY/2012/07 (C1*)
Entrusted Landscape Works to Contract No. DC/2016/01
- HY/2012/08 (C2)
- HY/2013/12 (C3)
- HY/2017/10 (C4)
- Potential Development Area (PDA)

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):

| 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. |



NOTE:

- LEGEND REFER TO DRAWING NO. C1/LM/011
- 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

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
安邦工程顧問公司

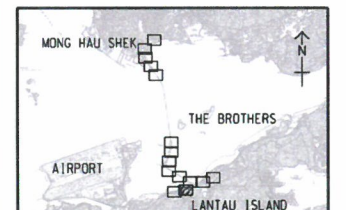
| ISSUE/REVISION | | | |
|----------------|--------|------------------|------|
| | | | |
| | | | |
| | | | |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| U/R | DATE | DESCRIPTION | CHK. |
| | | | |

STATUS
現況

SCALE
比例
A1 1:1000 A3 1:2000

DIMENSION UNIT
尺寸單位
MILLIMETRES

KEY PLAN
索引圖



PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號
HY/2012/07

SHEET TITLE
圖紙名稱
LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號
C1/LM/012

SHEET 12 OF 15

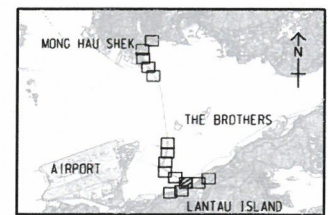


| ISSUE/REVISION | | | |
|----------------|------------|---------------------|------------|
| 項目 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |
| I/R 項目 | DATE 日期 | DESCRIPTION 内容摘要 | CHK. 校核 |

STATUS

| | |
|---------------------|-------------------------------|
| SCALE 比例 | DIMENSION UNIT 尺寸單位 |
| A1 1:1000 A3 1:2000 | MILLIMETRES |

KEY PLAN



| | |
|----------------------------|-----------------------------|
| PROJECT NO. 項目編號 | CONTRACT NO. 合約編號 |
| 60240249 | HY/2012/07 |

SHEET TITLE
圖紙名稱

LANDSCAPE MASTER PLAN

SHEET 13 OF 15

SHEET NUMBER
圖紙編號

C1/LM/013

Plot File by: kathrinawong 02/11/2020
PATH: V:\TOPO\RSS\CD\Landscaping Master Plan\2020\0209\C1\LM\LM014.dgn
Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN ISO A1 594mm x 841mm

Legend:

Compensatory Planting Area (in ha)

- HY/2012/07 (C1)
- HY/2012/07 (C1*)
- Entrusted Landscape Works to Contract No. DC/2016/01
- HY/2012/08 (C2)
- HY/2013/12 (C3)
- HY/2017/10 (C4)
- Potential Development Area (PDA)

Compensatory Planting Area (in ha)

HY/2012/07 : Approx. 14.41 ha

HY/2012/08 : Nil

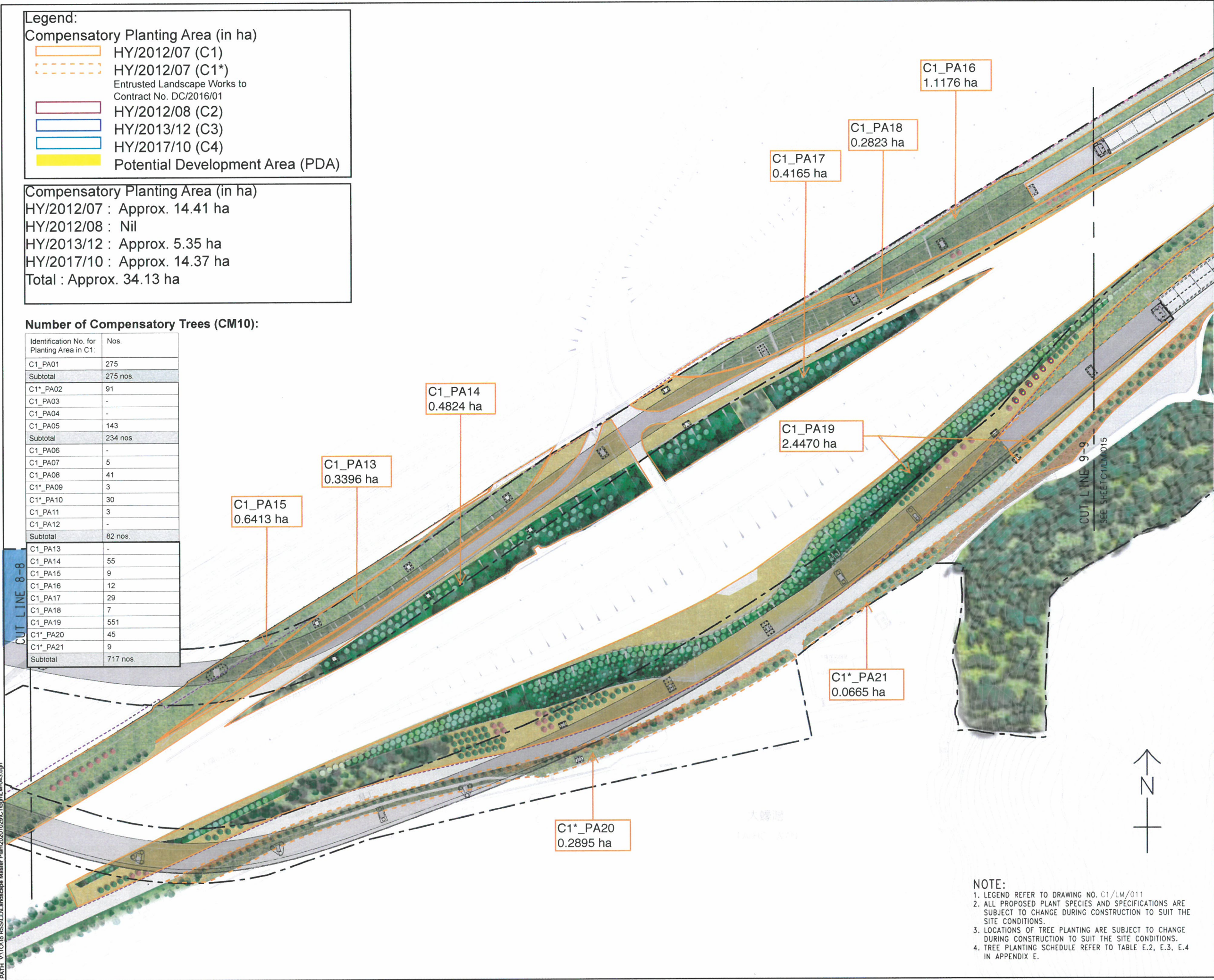
HY/2013/12 : Approx. 5.35 ha

HY/2017/10 : Approx. 14.37 ha

Total : Approx. 34.13 ha

Number of Compensatory Trees (CM10):

| 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. |
| C1_PA13 | - |
| C1_PA14 | 55 |
| C1_PA15 | 9 |
| C1_PA16 | 12 |
| C1_PA17 | 29 |
| C1_PA18 | 7 |
| C1_PA19 | 551 |
| C1*_PA20 | 45 |
| C1*_PA21 | 9 |
| Subtotal | 717 nos. |



NOTE:

- LEGEND REFER TO DRAWING NO. C1/LM/011
- 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.

AECOM

PROJECT

TUEN MUN - CHEK LAP KOK LINK

CONTRACT TITLE

TUEN MUN - CHEK LAP KOK LINK SOUTHERN CONNECTION VIADUCT SECTION

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

工程顧問公司

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|------------------|------|
| B | SEP 20 | LANDSCAPE UPDATE | CL |
| A | SEP 19 | LANDSCAPE UPDATE | CWN |

STATUS

比例

SCALE

A1 1: 1000 A3 1:2000

DIMENSION UNIT

MILLIMETRES

KEY PLAN

PROJECT NO.

60240249

CONTRACT NO.

HY/2012/07

SHEET TITLE

LANDSCAPE MASTER PLAN

SHEET NUMBER

C1/LM/014

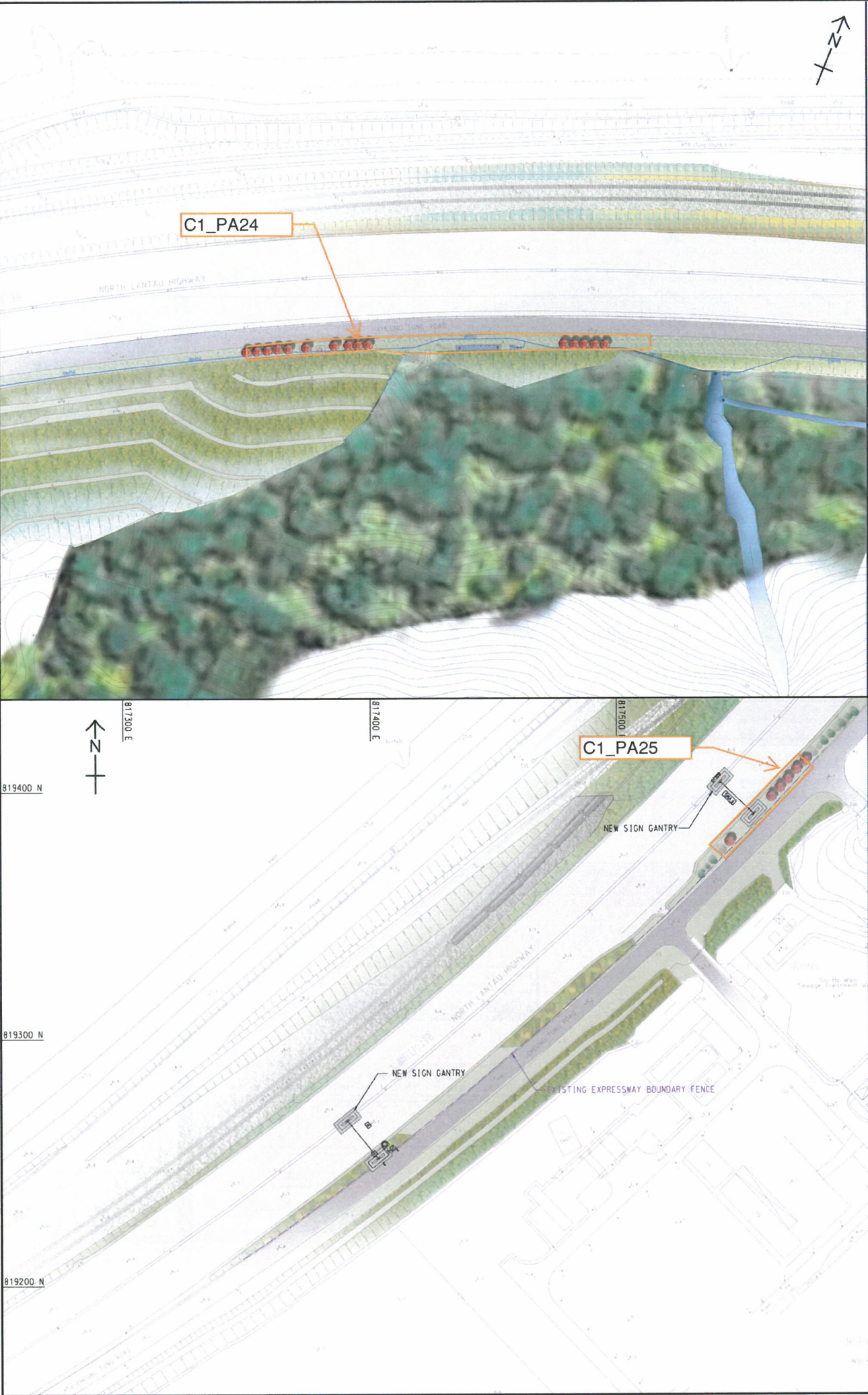
SHEET 14 OF 15



| 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. |
| C1_PA13 | - |
| C1_PA14 | 55 |
| C1_PA15 | 9 |
| C1_PA16 | 12 |
| C1_PA17 | 29 |
| C1_PA18 | 7 |
| C1_PA19 | 551 |
| C1*_PA20 | 45 |
| C1*_PA21 | 9 |
| Subtotal | 717 nos. |
| C1*_PA22 | 8 |
| C1_PA23 | 53 |
| Subtotal | 61 nos. |

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.



Legend:

Compensatory Planting Area (in ha)

- HY/2012/07 (C1)
- HY/2012/07 (C1*)
- Entrusted Landscape Works to Contract No. DC/2016/01
- HY/2012/08 (C2)
- HY/2013/12 (C3)
- HY/2017/10 (C4)
- Potential Development Area (PDA)

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

LEGEND

- Site Boundary
- New Tree Planting
- Transplanted Trees
- Existing Trees and Shrubs (at-grade)
- Proposed Expressway Boundary

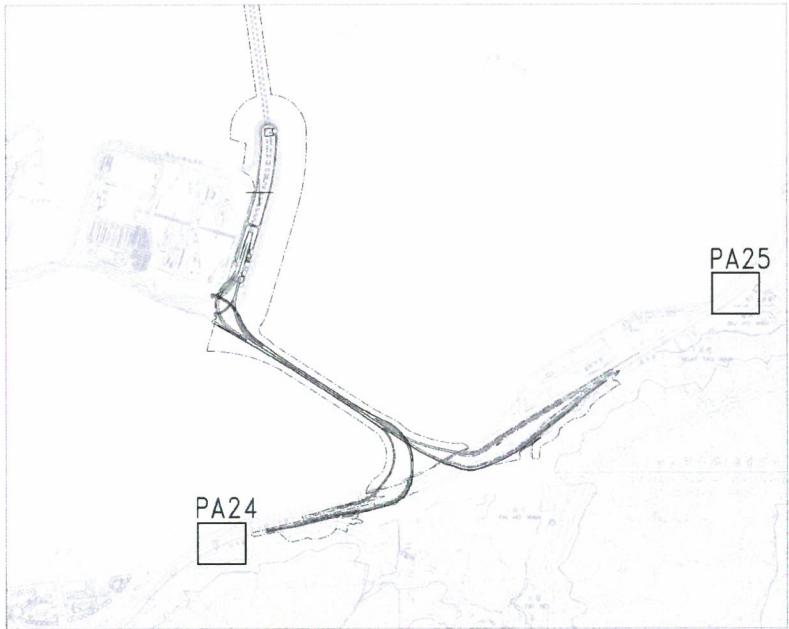
- Proposed Shrub, Ground cover, Grass Planting
- Existing Woodland Tree Groups
- Proposed Tree planting for Slope
- Proposed Tree and Shrub Mix Planting

NOTE:

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

2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.

3. TREE PLANTING SCHEDULE REFER TO TABLE E.2, E.3, E.4 IN APPENDIX E.



Number of Compensatory Trees (CM10):

| 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. |
| C1_PA13 | - |
| C1_PA14 | 55 |
| C1_PA15 | 9 |
| C1_PA16 | 12 |
| C1_PA17 | 29 |
| C1_PA18 | 7 |
| C1_PA19 | 551 |
| C1*_PA20 | 45 |
| C1*_PA21 | 9 |
| Subtotal | 717 nos. |
| C1*_PA22 | 8 |
| C1_PA23 | 53 |
| Subtotal | 61 nos. |
| C1_PA24 | 15 |
| C1_PA25 | 6 |
| Subtotal | 21 nos. |
| C1 Total | 1390 nos. |

AECOM

PROJECT
TUEN MUN - CHEK LAP KOK LINK

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

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

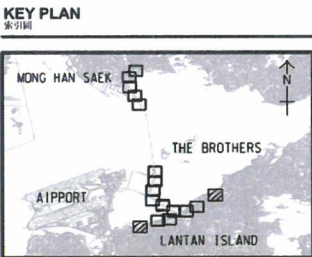
SUB-CONSULTANTS

| ISSUE/REVISION | | | |
|----------------|-------|------------------|------|
| NO. | DATE | DESCRIPTION | CHK. |
| B | SEP20 | LANDSCAPE UPDATE | CL |
| A | SEP19 | LANDSCAPE UPDATE | CWN |

STATUS

SCALE
A1 1:1000 A3 1:2000

DIMENSION UNIT
MILLIMETRES



PROJECT NO.
60240249

CONTRACT NO.
HY/2013/12

SHEET TITLE
LANDSCAPE MASTER PLAN

SHEET NUMBER
C1/LM/016

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

| | | Tree Quantity as in EIA Report (Approx. no.) | | | | | Tree Quantity as in Tree Removal Applications (no.) | | | | | ** Tree Compensation Quantity as in Tree Removal Applications (no.) (CM10) | | | | *** Tree Planting Quantity as in Approved Planting Proposals (no.) | | | | Transplanted Tree Planting Quantity as in Approved Planting Proposals/ as in Landscape and Visual Plan (no.) |
|--|--|--|----------------------------------|-----------------|--------------|----------------------|---|-----------|----------------------------------|-----------------|--------------|--|----------|----------------|------|--|----------|----------------|------|--|
| | | * Fell | Undersirable Species (Weed Tree) | **** Transplant | ***** Retain | ** Tree Compensation | * 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 (Year 2009) | | 3460 | 480 | 100 | 1360 | 6300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tree Removal Application and Compensatory Planting Proposal (Ref. A35-03) (approved on 8 January 2013) | | - | - | - | - | - | 2293 | 701 | 652 | 182 | 2554 | 2965 | 0 | 893 | 0 | - | - | - | - | - |
| HY/2012/07 | 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 Supplementary Tree Removal Applications | - | - | - | - | - | - | - | - | -76 | -136 | - | - | - | - | - | - | - | - | - |
| | 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | C2 - Approved Planting Proposal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | C3 - Supplementary Tree Removal Applications | - | - | - | - | - | 1688 | 103 | 341 | 24 | 40 | 24 | - | 207 | 359 | - | - | - | - | - |
| HY/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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 250 | - | 859 | 411 | 24 |
| | C4 - Supplementary Tree Removal Applications | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HY/2017/10 | C4 - Approved Planting Proposal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2997 | - | - | - | - |
| | C5 - Supplementary Tree Removal Applications | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HY/2014/10 | C5 - Approved Planting Proposal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Sub-Total | 3460 | 480 | 100 | 1360 | 6300 | 4482 | 802 | 788 | 84 | 1560 | 3217 | 44 | 1398 | 449 | 3804 | 25 | 1524 | 554 | 35 |
| Total | | * 3460 | 480 | **** 100 | 1360 | ** 6300 | *4482 | 802 | 788 | **** 84 | 1560 | ** 5108 | | | | *** 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 compensatory 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 submissions on detailed planting design proposals. 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 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. instead 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 Tree Compensation - Approved EIA Report and Landscape and Visual Plan Comparison (Table E.1i)

| Description | Approved EIA Report (nos.) | Landscape and Visual Plan (nos.) | |
|------------------------------------|---|---|--------------------------|
| | | Within Project Boundary | Outside Project Boundary |
| Nos. of Compensatory Tree Planting | 6,300 approx. (Tree Size: Light Standard, Heavy Standard) | 5,353 | 1,066 |
| Total | 6,300 | 6419 (Tree Size: Light Standard - Heavy Standard) | |

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

| Description | Approved EIA Report (nos.) | Landscape and Visual Plan (nos.) | | Remarks |
|-------------------------|----------------------------|----------------------------------|--------------------------|--|
| | | Within Project Boundary | Outside Project Boundary | |
| Nos. of Tree Transplant | 100 | 35 | 0 | 47 nos. transplant trees surveyed as missing on site; 18 nos. transplant trees retained on site In Contract No. HY/2012/07; 35 nos. actual transplant trees. |
| Total | 100 | 35 | | 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 | CHINESE NAME | SIZE (mm) HEIGHT (H) X SPREAD (S) | SPACING (mm) | QUANTITY (nos.) | IDENTIFICATION NO. FOR PLANTING AREA IN CONTRACT 1 | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------------|--|------------------|--------------------|--|-------|------|------|------|------|------|------|-------|-------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|
| | | | | | PA01 | PA02* | PA03 | PA04 | PA05 | PA06 | PA07 | PA08 | PA09* | PA10* | PA11 | PA12 | PA13 | PA14 | PA15 | PA16 | PA17 | PA18 | PA19 | PA20* | PA21* | PA22* | PA23 | PA24 |
| 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | Subtotal | 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 |
| TREE (HEAVY STANDARD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bauhinia variegata | 宮粉羊蹄甲 | HEAVY STANDARD | 5000 | 30 | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | 12 | - | - | 13 | - | - | - | - | - |
| Bauhinia 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Plumeria rubra | 雞蛋花 | HEAVY STANDARD 2000-2500 (H) X 2000-2500 (S) | 4000-5000 | 284 | 233 | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | 47 | - | - | - | - | - | - |
| Tabebuia impetiginosa | 風鈴木 | HEAVY STANDARD | 5000 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | |
| Ilex 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 | 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 | |
| | | | Subtotal | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 3 | 0 | 0 | 0 | 9 | 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 | 83 | - | - | - | - | - | - | - | - | - | 30 | - | - | - | - | - | - | 4 | 41 | - | 8 | - | - | - | |
| Melia azedarach | 苦楝 | LIGHT STANDARD | 4000 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | - | - | - | - | - | |
| | | | Subtotal | 356 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 55 | 0 | 0 | 29 | 7 | 186 | 41 | 0 | 8 | 0 | 0 |
| PALM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Areca catechu | 檳榔 | HEAVY STANDARD 4000 (H) | 4000 | 28 | - | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Caryota mitis | 短穗魚尾葵 | LIGHT STANDARD 2500 (H) X 1500 (S) | 2500 | 12 | - | - | - | - | - | - | - | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Livistona chinensis | 蒲葵 | LIGHT STANDARD 2500 (H) X 1500 (S) | 3500-4000 | 248 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 248 | - | - | - | - | - | |
| Phoenix roebelenii | 日本葵 | LIGHT STANDARD 2000 (H) X 1500 (S) | 2000 | 49 | - | - | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | 39 | - | - | - | - | - | |
| Phoenix sylvestris | 銀海棗 | HEAVY STANDARD 2000 (H) X 1500 (S) | 4000 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | |
| Washingtonia robusta | 華盛頓葵 | HEAVY STANDARD 2500 (H) X 1500 (S) | 3500-4000 | 8 | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | | | Subtotal | 353 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 295 | 0 | 0 | 0 | 0 | 0 | |
| | | | Contract 1 Total | 1390 | 275 | 91 | 0 | 0 | 143 | 0 | 5 | 41 | 3 | 30 | 3 | 0 | 0 | 55 | 9 | 12 | 29 | 7 | 551 | 45 | 9 | 8 | 53 | 15 |

- NOTE:
- All proposed plant species and specifications are subject to change during construction, establishment period and during maintenance by the relevant maintenance authorities and plant stock availability to suit the site conditions.
 - Locations of tree planting area subject to change during construction to suit the site conditions.
 - 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.
 - The palms are accounted as heavy or light standard trees according to species and sizes for tree compensation accounting purpose.
 - 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.
 - * refers to entrusted landscape works under Contract No. DC/2016/01. (C1* refers)

| Tree Size | C1 | C1* | |
|----------------|------|-------|------|
| Whip | 143 | - | |
| Subtotal | 143 | - | 143 |
| Light Standard | 586 | 79 | |
| Standard | 25 | - | |
| Heavy Standard | 450 | 107 | |
| Subtotal | 1061 | 186 | 1247 |
| | | Total | 1390 |

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 NAME | SIZE (mm) HEIGHT (H) X SPREAD (S) | SPACING (mm) | QUANTITY (nos.) | IDENTIFICATION NO. FOR PLANTING AREA IN CONTRACT 3 | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--------------|--------------------------------------|--------------|-----------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | PA01 | PA02 | PA03 | PA04 | PA05 | PA06 | PA07 | PA08 | PA09 | PA10 | PA11 | PA12 | PA13 | PA14 | PA15 | PA16 | PA17 | PA18 | PA19 | PA20 | PA21 | PA22 |
| WHIP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bauhinia variegata | 宮粉羊蹄甲 | WHIP | 1000 | 12 | - | - | - | - | - | - | - | - | - | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bridelia tomentosa | 土密樹 | WHIP | 1000 | 88 | - | - | - | - | - | - | - | - | 68 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gordonia axillaris | 大頭茶 | WHIP | 1000 | 158 | - | - | - | - | - | - | - | - | 18 | 70 | - | - | - | 70 | - | - | - | - | - | - | - | - |
| Litsea glutinosa | 潺槁樹 | WHIP | 1000 | 57 | - | - | - | - | - | - | - | - | - | 57 | - | - | - | - | - | - | - | - | - | - | - | - |
| Mallotus paniculatus | 白楸 | WHIP | 1000 | 58 | - | - | - | - | - | - | - | - | - | 58 | - | - | - | - | - | - | - | - | - | - | - | - |
| Phyllanthus emblica | 餘甘子 | WHIP | 1000 | 32 | - | - | - | - | - | - | - | - | - | 32 | - | - | - | - | - | - | - | - | - | - | - | - |
| Sapium discolor | 山烏柏 | WHIP | 1000 | 6 | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| | | 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 | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bombax ceiba | 木棉 | HEAVY STANDARD | 4500-5000 | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Brachychiton acerifolius | 槭葉蘋婆 | HEAVY STANDARD | 4500-5000 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | 18 | - | - | - | - | - | - | - | - | - |
| Cinnamomum burmannii | 陰香 | HEAVY STANDARD | 4500-5000 | 23 | 23 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cleistocalyx nervosum | 水翁 | HEAVY STANDARD | 4500-5000 | 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sterculia lanceolata | 假蘋婆 | HEAVY STANDARD | 4500-5000 | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Delonix regia | 鳳凰木 | HEAVY STANDARD | N/A | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Melaleuca cajuputi subsp. cumingiana | 白千層 | HEAVY STANDARD | 4000 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 16 | - | - |
| Microcos nervosa | 布渣葉 | HEAVY STANDARD | 4500-5000 | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tabebuia chrusantha | 黃花風鈴木 | HEAVY STANDARD | 4500-5000 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - |
| Tabebuia impetiginosa | 風鈴木 | HEAVY STANDARD | 4500-5000 | 13 | 3 | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Terminalia mantaly | 小葉欖仁 | HEAVY STANDARD | 4500-5000 | 8 | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Subtotal | | 166 | 93 | 0 | 1 | 0 | 0 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 18 | 4 | 0 | 0 | 0 | 16 | 0 | 16 | 0 | 0 |
| TREE (LIGHT STANDARD) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bauhinia variegata | 宮粉羊蹄甲 | LIGHT STANDARD | 3000 | 122 | - | - | - | - | - | 8 | - | - | 34 | 77 | - | - | - | - | - | - | - | - | 3 | - | - | - |
| Bridelia tomentosa | 土密樹 | LIGHT STANDARD | 3000 | 143 | - | - | - | - | - | - | - | - | 15 | 108 | - | - | - | - | - | - | - | - | 20 | - | - | - |
| Bombax ceiba | 木棉 | LIGHT STANDARD | 3000 | 30 | - | - | - | - | - | - | - | - | - | 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| Cinnamomum burmannii | 陰香 | LIGHT STANDARD | 3000 | 97 | - | - | - | - | - | - | - | - | - | 89 | 2 | - | - | - | - | - | - | - | 6 | - | - | - |
| Liquidambar formosana | 楓香 | LIGHT STANDARD | 3000 | 35 | - | - | - | - | - | - | - | - | - | 35 | - | - | - | - | - | - | - | - | - | - | - | - |
| Litsea glutinosa | 潺槁樹 | LIGHT STANDARD | 3000 | 19 | - | - | - | - | - | - | - | - | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Machilus chekiangensis | 浙江潤楠 | LIGHT STANDARD | 3000 | 60 | - | - | - | - | - | - | - | - | 17 | 43 | - | - | - | - | - | - | - | - | - | - | - | - |
| Reevesia thyrsoidea | 梭羅樹 | LIGHT STANDARD | 3000 | 36 | - | - | - | - | - | 4 | - | - | 7 | 25 | - | - | - | - | - | - | - | - | - | - | - | - |
| Schima superba | 木荷(荷樹) | LIGHT STANDARD | 3000 | 18 | - | - | - | - | - | - | - | - | - | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| Sterculia lanceolata | 假蘋婆 | LIGHT STANDARD | 3000 | 73 | - | - | - | - | - | - | - | - | 6 | 50 | 3 | - | - | - | - | - | - | - | 14 | - | - | - |
| Viburnum odoratissimum | 珊瑚樹 | LIGHT STANDARD | 3000 | 63 | - | - | - | - | - | - | - | - | 16 | 47 | - | - | - | - | - | - | - | - | - | - | - | - |
| Garcinia subelliptica | 福木 | LIGHT STANDARD | 3000 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 7 | - | - | 4 | - | - | - | - | |
| | | Subtotal | | 710 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 114 | 522 | 5 | 0 | 0 | 3 | 7 | 0 | 0 | 4 | 43 | 0 | 0 | 0 |
| PALM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Archontophoenix alexandrae | 假檳榔 | HEAVY STANDARD 3500(H) X 1500(S) | 4000 | 58 | - | - | - | - | - | - | 58 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Livistona chinensis | 蒲葵 | LIGHT STANDARD 2000(H) X 1500(S) | 2500 | 10 | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Phoenix roebelenii | 日本葵 | LIGHT STANDARD 2000(H) X 1500(S) | 2500-3000 | 139 | 34 | - | 18 | - | - | - | - | - | 10 | 42 | - | 12 | - | - | - | - | - | - | - | 23 | - | - |
| Wodyetia bifurcata | 狐尾椰子 | HEAVY STANDARD 2500(H) X 1500(S) | 3500 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | 26 | - | - | - | - | - | - | - | - |
| | | Subtotal | | 233 | 34 | 0 | 18 | 0 | 0 | 10 | 58 | 0 | 10 | 42 | 0 | 12 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 23 | 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, establishment period and during maintenance by the relevant maintenance authorities and plant stock availability to suit the site conditions.
 2. Locations of tree planting area subject to change 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 | C3 | |
| Whip | 411 | |
| Subtotal | 411 | 411 |
| Light Standard | 859 | |
| Standard | 0 | |
| Heavy Standard | 250 | |
| Subtotal | 1109 | 1109 |
| Total | 1520 | |

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) HEIGHT (H) X SPREAD (S) | SPACING (mm) | QUANTITY (nos.) | IDENTIFICATION NO. FOR PLANTING AREA IN CONTRACT 4 | | | | | | | | | | |
|---|--------------|--------------------------------------|-------------------------|-----------------|--|------|------|------|------|------|------|------|------|------|---|
| | | | | | PA01 | PA02 | PA03 | PA04 | PA05 | PA06 | PA07 | PA08 | PA09 | PA10 | |
| PALM (TUEN MUN) | | | | | | | | | | | | | | | |
| <i>Wodyetia bifurcata</i> | 狐尾椰子 | HEAVY STANDARD 3000(H) X 1500(S) | 4500 | 4 | 4 | - | - | - | - | - | - | - | - | - | - |
| | | | | Subtotal | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TREE (NORTHERN LANDFALL) | | | | | | | | | | | | | | | |
| <i>Bauhinia blakeana</i> | 洋紫荊 | HEAVY STANDARD | 4500-5000 | 10 | - | - | - | - | - | - | - | 10 | - | - | |
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | HEAVY STANDARD | 4500-5000 | 36 | - | - | - | - | - | - | - | 36 | - | - | |
| <i>Elaeocarpus hainanensis</i> | 水石榕 | HEAVY STANDARD | 5000 | 18 | - | - | - | - | 18 | - | - | - | - | - | |
| <i>Elaeocarpus apiculatus</i> | 尖葉杜英 | HEAVY STANDARD | 6000 | 6 | - | 6 | - | - | - | - | - | - | - | - | |
| <i>Garcinia subelliptica</i> | 福木 | HEAVY STANDARD | 3500-4000 | 3 | - | 3 | - | - | - | - | - | - | - | - | |
| <i>Grevillea robusta</i> | 銀樺 | HEAVY STANDARD | 4500-5000 | 18 | - | - | - | - | - | - | - | 18 | - | - | |
| <i>Melaleuca quinquenervia</i> | 白千層 | HEAVY STANDARD | 4500-5000 | 18 | - | - | - | - | - | - | - | 18 | - | - | |
| <i>Plumeria rubra</i> (multi-colour flower) | 雞蛋花(多色花) | HEAVY STANDARD | 4000-4500 | 11 | - | 5 | 6 | - | - | - | - | - | - | - | |
| <i>Plumeria rubra</i> (yellow folwer) | 雞蛋花(黃花) | HEAVY STANDARD | 4000-4500 | 46 | - | - | 46 | - | - | - | - | - | - | - | |
| <i>Plumeria rubra</i> (red flower) | 雞蛋花(紅花) | HEAVY STANDARD | 4000-4500 | 100 | - | 78 | - | - | 22 | - | - | - | - | - | |
| <i>Pongamia pinnata</i> | 水黃皮 | HEAVY STANDARD | 5000-6000 | 53 | - | 6 | 2 | - | 19 | - | - | 26 | - | - | |
| <i>Sterculia lanceolata</i> | 假蘋婆 | HEAVY STANDARD | 4500-5000 | 56 | - | - | - | - | - | - | - | 56 | - | - | |
| <i>Terminalia catappa</i> | 欖仁樹 | HEAVY STANDARD | 6000-7000 | 38 | - | 2 | - | - | - | - | - | 36 | - | - | |
| <i>Viburnum odoratissimum</i> | 珊瑚樹 | HEAVY STANDARD | 4500-5000 | 10 | - | - | - | - | - | - | - | 10 | - | - | |
| <i>Xanthostemon chrysanthus</i> | 金蒲桃 | HEAVY STANDARD | 5000 | 13 | - | - | - | - | 13 | - | - | - | - | - | |
| | | | Subtotal | 436 | 0 | 100 | 54 | 0 | 72 | 0 | 0 | 210 | 0 | 0 | |
| PALM (NORTHERN LANDFALL) | | | | | | | | | | | | | | | |
| <i>Areca catechu</i> | 檳榔 | HEAVY STANDARD 3000(H) X 1500(S) | 4000 | 48 | - | 48 | - | - | - | - | - | - | - | - | |
| <i>Hyophorbe lagenicaulis</i> | 酒瓶椰子 | HEAVY STANDARD 2000(H) X 1500(S) | 3000 | 16 | - | - | 2 | - | 14 | - | - | - | - | - | |
| <i>Livistona chinensis</i> | 蒲葵 | HEAVY STANDARD 3000(H) X 2000(S) | 4000-4500 | 245 | - | 9 | 5 | - | 10 | 57 | - | 158 | 6 | - | |
| <i>Roystonea regia</i> | 王棕 | HEAVY STANDARD 4000(H) X 2000(S) | 4500-5000 | 44 | - | 44 | - | - | - | - | - | - | - | - | |
| <i>Wodyetia bifurcata</i> | 狐尾椰子 | HEAVY STANDARD 3000(H) X 1500(S) | 4500 | 77 | - | - | 10 | - | - | - | - | 67 | - | - | |
| | | | Subtotal | 430 | 0 | 101 | 17 | 0 | 24 | 57 | 0 | 225 | 6 | 0 | |
| | | | Northern Landfall Total | 870 | | | | | | | | | | | |
| TREE (SOUTHERN LANDFALL) | | | | | | | | | | | | | | | |
| <i>Callistemon viminalis</i> | 串錢柳 | HEAVY STANDARD | 4000-5000 | 135 | - | - | - | - | - | - | - | - | - | 135 | |
| <i>Grevillea robusta</i> | 銀樺 | HEAVY STANDARD | 4000-5000 | 306 | - | - | - | - | - | - | - | - | - | 306 | |
| <i>Plumeria rubra</i> (red flower) | 雞蛋花(紅花) | HEAVY STANDARD | 4000-5000 | 574 | - | - | - | - | - | - | - | - | - | 574 | |
| <i>Plumeria rubra</i> (yellow flower) | 雞蛋花(黃花) | HEAVY STANDARD | 4000-5000 | 1100 | - | - | - | - | - | - | - | - | - | 1100 | |
| <i>Plumeria rubra</i> (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 establishment period and during maintenance by the relevant maintenance authorities and plant stock availability 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

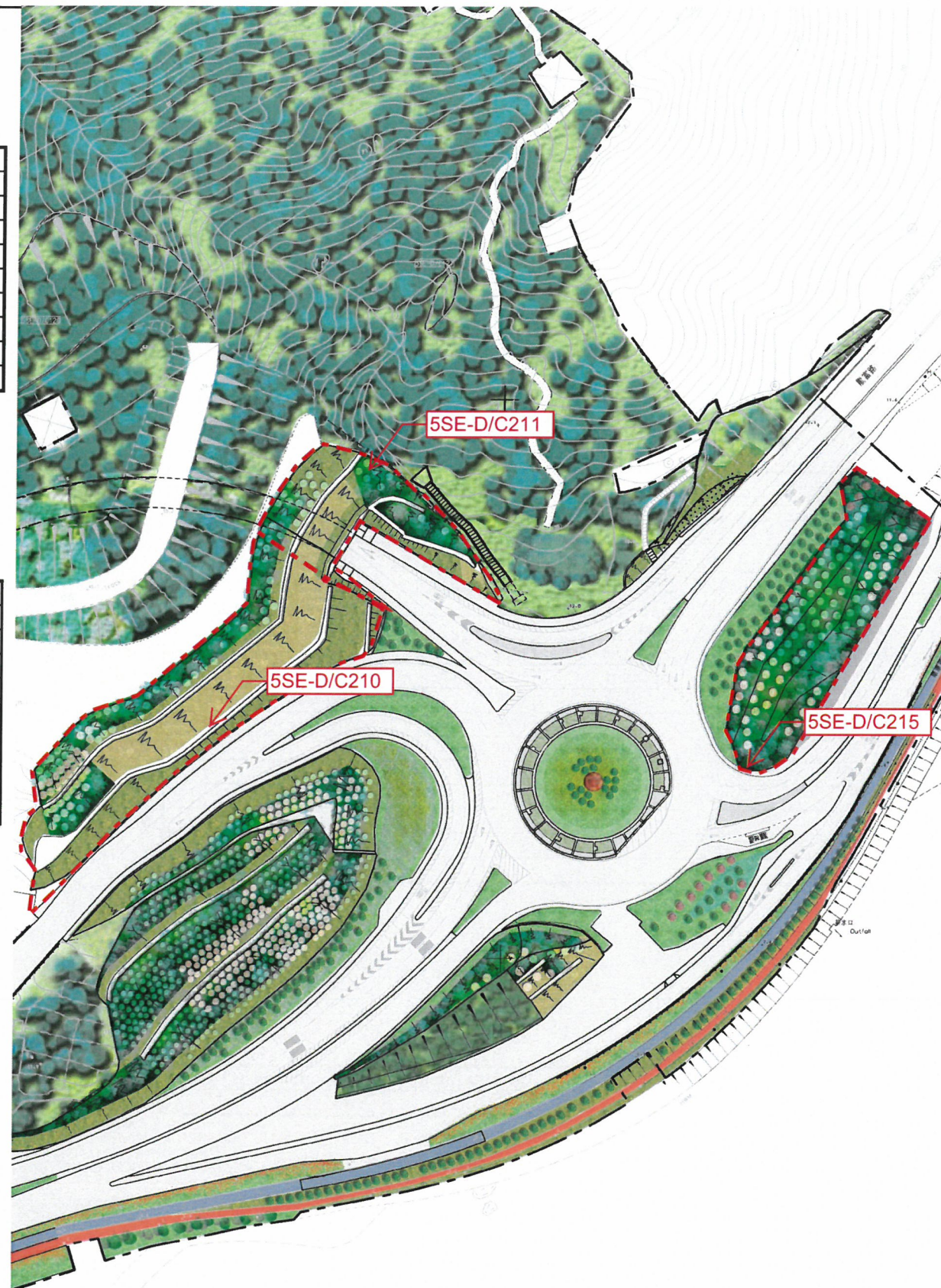
Tree Planting on Slopes

| | |
|-----------------------------------|---------------------------|
| Feature No. | 5SE-D/C211 and 5SE-D/C210 |
| Location: | Tuen Mun |
| Average Slope Angle: | 37 degree and 35 degree |
| No. of Compensatory Trees: | 200 |

| Botanical Name | Chinese Name | Size | Spacing (mm) | Quantity (Nos.) |
|-------------------------------|--------------|----------------|--------------|-----------------|
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Light standard | 3000 | 34 |
| <i>Bridelia tomentosa</i> | 土蜜樹 | Light standard | 3000 | 15 |
| <i>Litsea glutinosa</i> | 潺槁木 | Light standard | 3000 | 19 |
| <i>Machilus chekiangensis</i> | 浙江潤楠 | Light standard | 3000 | 17 |
| <i>Reevesia thyrsoidea</i> | 梭羅樹 | Light standard | 3000 | 7 |
| <i>Sterculia lanceolata</i> | 假蘋婆 | Light standard | 3000 | 6 |
| <i>Viburnum odoratissimum</i> | 珊瑚樹 | Light standard | 3000 | 16 |
| <i>Bridelia tomentosa</i> | 土蜜樹 | Whip | 2000 | 68 |
| <i>Gordonia axillaris</i> | 大頭茶 | Whip | 1000 | 18 |

| | |
|----------------------------|------------|
| <u>Feature No.</u> | 5SE-D/C215 |
| Location: | Tuen Mun |
| Average Slope Angle: | - |
| No. of Compensatory Trees: | 95 |

| Botanical Name | Chinese Name | Size | Spacing (mm) | Quantity (Nos.) |
|------------------------------|--------------|-------------------|--------------|-----------------|
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Heavy standard | 4000-4500 | 12 |
| <i>Bombax ceiba</i> | 木棉 | Heavy standard | 4500-5000 | 16 |
| <i>Cinnamomum burmannii</i> | 陰香 | Heavy standard | 4500-5000 | 23 |
| <i>Cleistocalyx nervosum</i> | 水翁 | Heavy standard | 4000-4500 | 15 |
| <i>Microcos nervosa</i> | 布渣葉 | Heavy standard | 4000-4500 | 14 |
| <i>Sterculia lanceolata</i> | 假蘋婆 | Heavy standard | 2500-3000 | 10 |
| <i>Tabebuia impetiginosa</i> | 風鈴木 | Heavy standard | 5000 | 3 |
| <i>Phoenix roebelenii</i> | 日本葵 | 2000(H) x 1500(H) | 2500-3000 | 2 |



NOTES:

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

AECOM

PROJECT
项目

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

CLIENT
業主



CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION

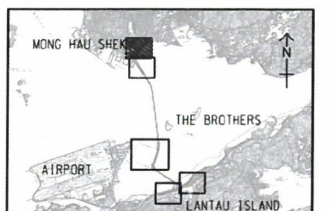
[illegible]STATUS
阶段

SCALE
比例

DIMENSION UNIT
尺寸單位

A1 1:500 A3 1:4000 **MILLIMETRES**

KEY PLAN



PROJECT NO. _____ CONTRACT NO. _____

60240249 HY/2013/12

SHEET TITLE

TREE PLANTING ON SLOPES

SHEET NUMBER

C3/LM/046

SHEET 1 OF 6

Plot File by: kathrinawong 03/11/2020
PATH: V:\TOTO\BSS\CD\Landscaping Master Plan\20201029\CD\LM-001.dgn

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.) |
|-------------------------------|--------------|----------------|--------------|-----------------|
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Light standard | 3000 | 20 |
| <i>Bridelia tomentosa</i> | 土蜜樹 | Light standard | 3000 | 25 |
| <i>Reevesia thyrsoidea</i> | 梭羅樹 | Light standard | 3000 | 25 |
| <i>Sterculia lanceolata</i> | 假蘋婆 | Light standard | 3000 | 20 |
| <i>Viburnum odoratissimum</i> | 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

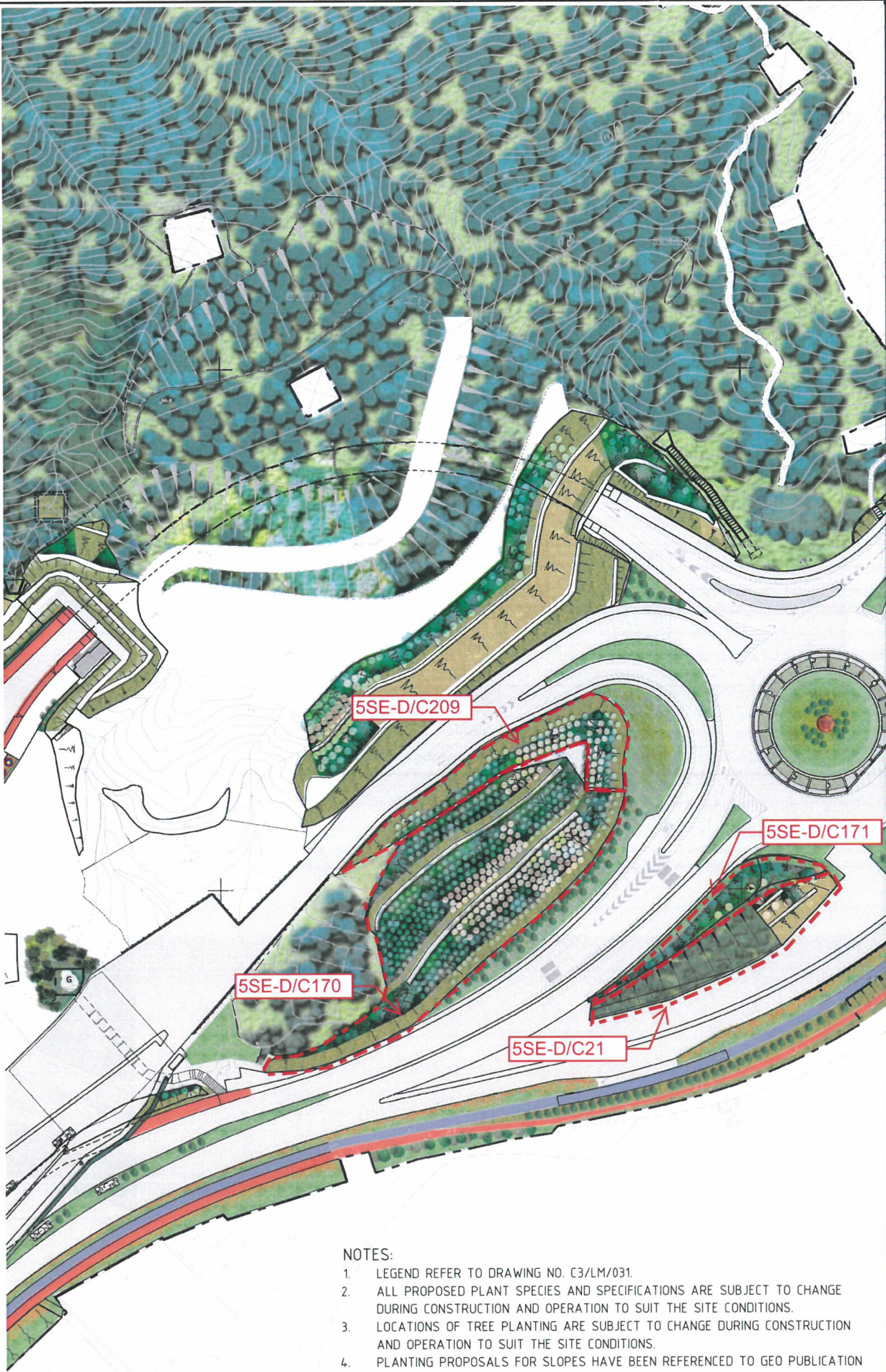
| Botanical Name | Chinese Name | Size | Spacing (mm) | Quantity (Nos.) |
|-------------------------------|--------------|----------------|--------------|-----------------|
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Light standard | 3000 | 57 |
| <i>Bombax ceiba</i> | 木棉 | Light standard | 3000 | 30 |
| <i>Cinnamomum burmannii</i> | 陰香 | Light standard | 3000 | 89 |
| <i>Liquidambar formosana</i> | 楓香 | Light standard | 3000 | 35 |
| <i>Machilus chekiangensis</i> | 浙江潤楠 | Light standard | 3000 | 43 |
| <i>Schima superba</i> | 木荷 (荷樹) | Light standard | 3000 | 18 |
| <i>Viburnum odoratissimum</i> | 珊瑚樹 | Light standard | 3000 | 37 |
| <i>Bridelia tomentosa</i> | 土蜜樹 | Light standard | 3000 | 83 |
| <i>Sterculia lanceolata</i> | 假蘋婆 | Light standard | 3000 | 30 |
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Whip | 1000 | 12 |
| <i>Bridelia tomentosa</i> | 土蜜樹 | Whip | 1000 | 20 |
| <i>Gordonia axillaris</i> | 大頭茶 | Whip | 1000 | 70 |
| <i>Litsea glutinosa</i> | 潺槁木 | Whip | 1000 | 57 |
| <i>Mallotus paniculatus</i> | 白楸 | Whip | 1000 | 58 |
| <i>Phyllanthus emblica</i> | 餘甘子(油甘子) | Whip | 1000 | 32 |
| <i>Sapium discolor</i> | 山烏柏 | Whip | 1000 | 6 |

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.) |
|---------------------------|--------------|----------------|--------------|-----------------|
| <i>Bauhinia variegata</i> | 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.) |
|----------------------------|--------------|----------------|--------------|-----------------|
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Light standard | 3000 | 4 |
| <i>Reevesia thyrsoidea</i> | 梭羅樹 | Light standard | 3000 | 4 |



- NOTES:
- LEGEND REFER TO DRAWING NO. C3/LM/031.
 - ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION 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 SPECIES, SIZE, SPACING, LOCATION, HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE DIVISION.

AECOM

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

C3/LM/046
CLIENT
路政署
HIGHWAYS DEPARTMENT
主要工程管理處(專責事務)
Major Works Project Management Office (Special Duties)

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

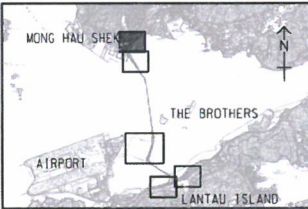
SUB-CONSULTANTS

| ISSUE/REVISION | | | |
|----------------|------|-------------|------|
| NO. | DATE | DESCRIPTION | CHK. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

STATUS

SCALE
比例
A1 1 : 2000 A3 1:4000
DIMENSION UNIT
尺寸單位
MILLIMETRES

KEY PLAN



PROJECT NO.
60240249
CONTRACT NO.
CHY/2013/12

SHEET TITLE
TREE PLANTING ON SLOPES

SHEET NUMBER
C3/LM/047
SHEET 2 OF 6

Feature No. 5SE-D/C214
Location: Tuen Mun
Average Slope Angle: -
No. of Compensatory Trees: 70

| Botanical Name | Chinese Name | Size | Spacing (mm) | Quantity (Nos.) |
|---------------------------|--------------|------|--------------|-----------------|
| <i>Gordonia axillaris</i> | 大頭茶 | Whip | 1000 | 70 |

Feature No. 5SE-D/C18
Location: Tuen Mun
Average Slope Angle: 30 degree
No. of Compensatory Trees: 5

| Botanical Name | Chinese Name | Size | Spacing (mm) | Quantity (Nos.) |
|-----------------------------|--------------|----------------|--------------|-----------------|
| <i>Cinnamomum burmannii</i> | 陰香 | Light standard | 3000 | 2 |
| <i>Sterculia lanceolata</i> | 假蘋婆 | Light standard | 3000 | 3 |



- NOTES:
- LEGEND REFER TO DRAWING NO. C3/LM/031.
 - ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION 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 SPECIES, SIZE, SPACING, LOCATION, HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE DIVISION.

AECOM

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

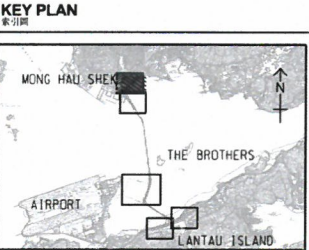
CLIENT
路政署
HIGHWAYS DEPARTMENT
主要工程管理处(專責事務)
Major Works Project Management Office
(Special Duties)

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

| ISSUE/REVISION | | | |
|----------------|------|-------------|------|
| | | | |
| | | | |
| | | | |
| | | | |
| I/R | DATE | DESCRIPTION | CHK. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| STATUS | | | |
| | | | |

SCALE
比例
A1 1:500 A3 1:4000
DIMENSION UNIT
尺寸單位
MILLIMETRES

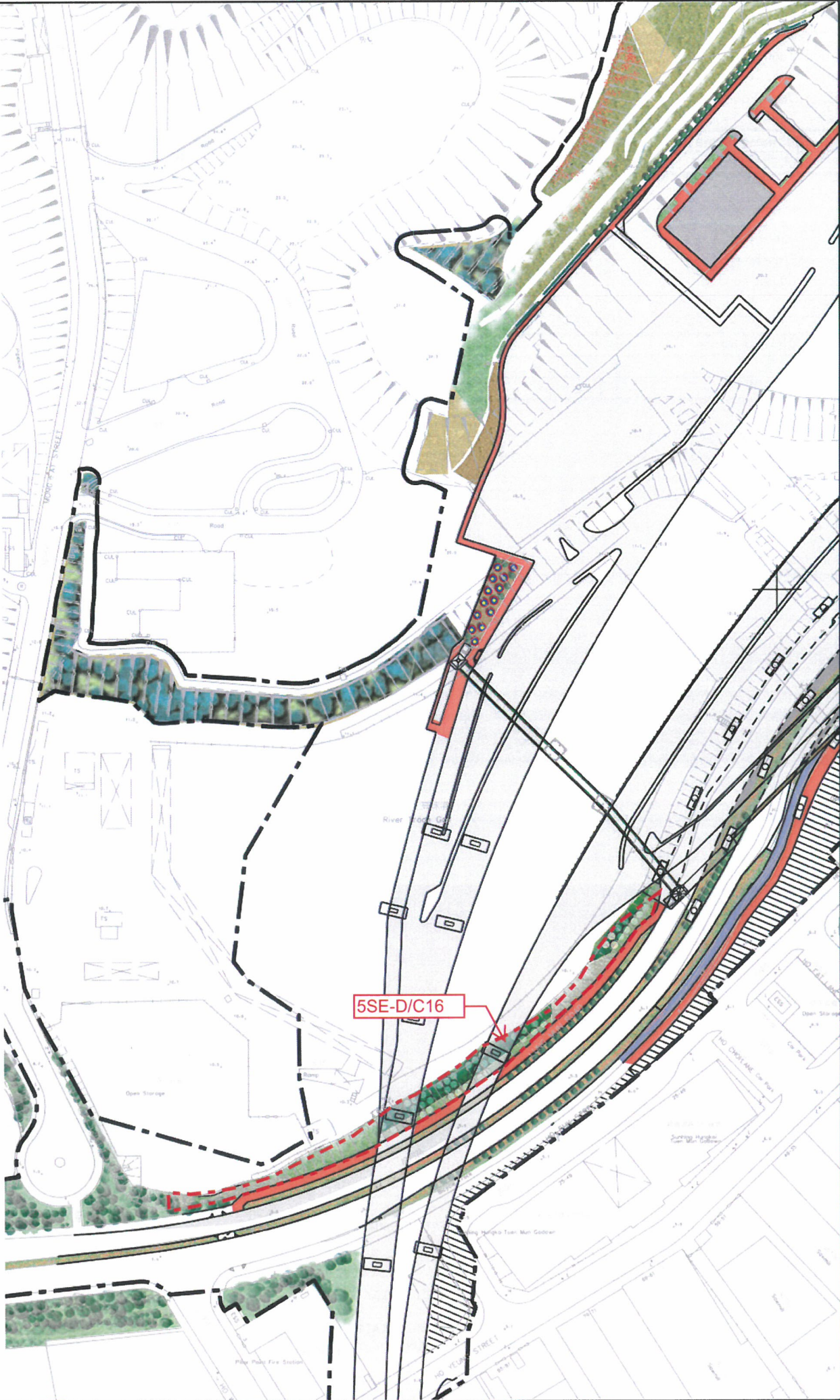


PROJECT NO. 60240249
CONTRACT NO. HY/2013/12
SHEET TITLE
TREE PLANTING ON SLOPES

SHEET NUMBER
圖號
C3/LM/048
SHEET 3 OF 6

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:
- LEGEND REFER TO DRAWING NO. C3/LM/031.
 - ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION 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 SPECIES, SIZE, SPACING, LOCATION, HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE DIVISION.

AECOM

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

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

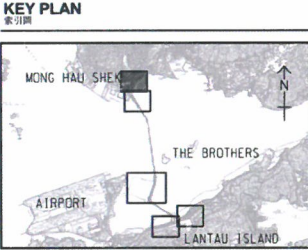
CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

| ISSUE/REVISION | | | |
|----------------|------|-------------|-----|
| REV | DATE | DESCRIPTION | CHK |
| | | | |
| | | | |
| | | | |
| | | | |

STATUS
預收

SCALE
比例
A1 1:500 A3 1:4000
DIMENSION UNIT
尺寸單位
MILLIMETRES



PROJECT NO.
項目編號
60240249
CONTRACT NO.
合約編號
HY/2013/12

SHEET TITLE
圖紙名稱
TREE PLANTING ON SLOPES

SHEET NUMBER
圖紙編號
C3/LM/049
SHEET 4 OF 6

Project Management Initials: Designer: PLCK Checked: SLVY Approved: CWN ISO A1 594mm x 841mm
Proj File by: kshihweng 03/11/2020
PATH: V:\TO\BSS\CD\Landscape Master Plan\2020\1029\CA\dpn\LM_004.dgn

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

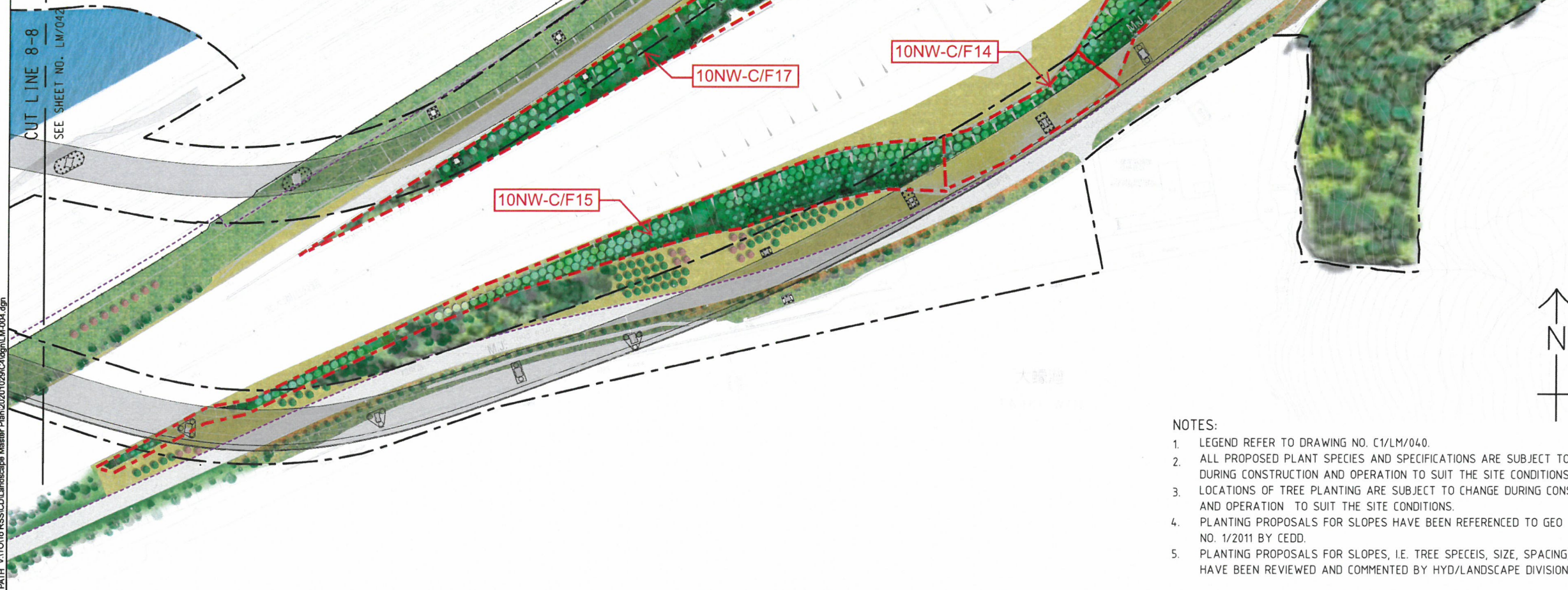
| Botanical Name | Chinese Name | Size | Spacing (mm) | Quantity (Nos.) |
|-----------------------------|--------------|-------------------|--------------|-----------------|
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Light Standard | 4000 | 92 |
| <i>Cinnamomum burmannii</i> | 陰香 | Light Standard | 4000 |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

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

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

Feature No. 10NW-C/F10
Location: North Lantau Highway, North Lantau
Average Slope Angle: 27 degree
No. of Compensatory Trees: 7

| Botanical Name | Chinese Name | Size | Spacing (mm) | Quantity (Nos.) |
|---------------------------|--------------|----------------|--------------|-----------------|
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Light standard | 4000 | 7 |



NOTES:

- LEGEND REFER TO DRAWING NO. C1/LM/040.
- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION 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 SPECIES, SIZE, SPACING, LOCATION, HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE DIVISION.

AECOM

PROJECT

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

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

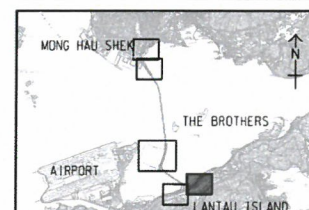
| NO. | DATE | DESCRIPTION | CHK. |
|-----|------|-------------|------|
| | | | |
| | | | |
| | | | |
| | | | |

STATUS

SCALE DIMENSION UNIT

A1 1:2000 A3 1:4000 MILLIMETRES

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

HY/2012/07

SHEET TITLE

TREE PLANTING ON SLOPES

SHEET NUMBER

C1/LM/050

SHEET 5 OF 6

Plot File by: kathrinawong 04/11/2020
PATH: V:\TO TO RSS\CD\Landscape Master Plan\20201029\CD\align\LM-005.dgn

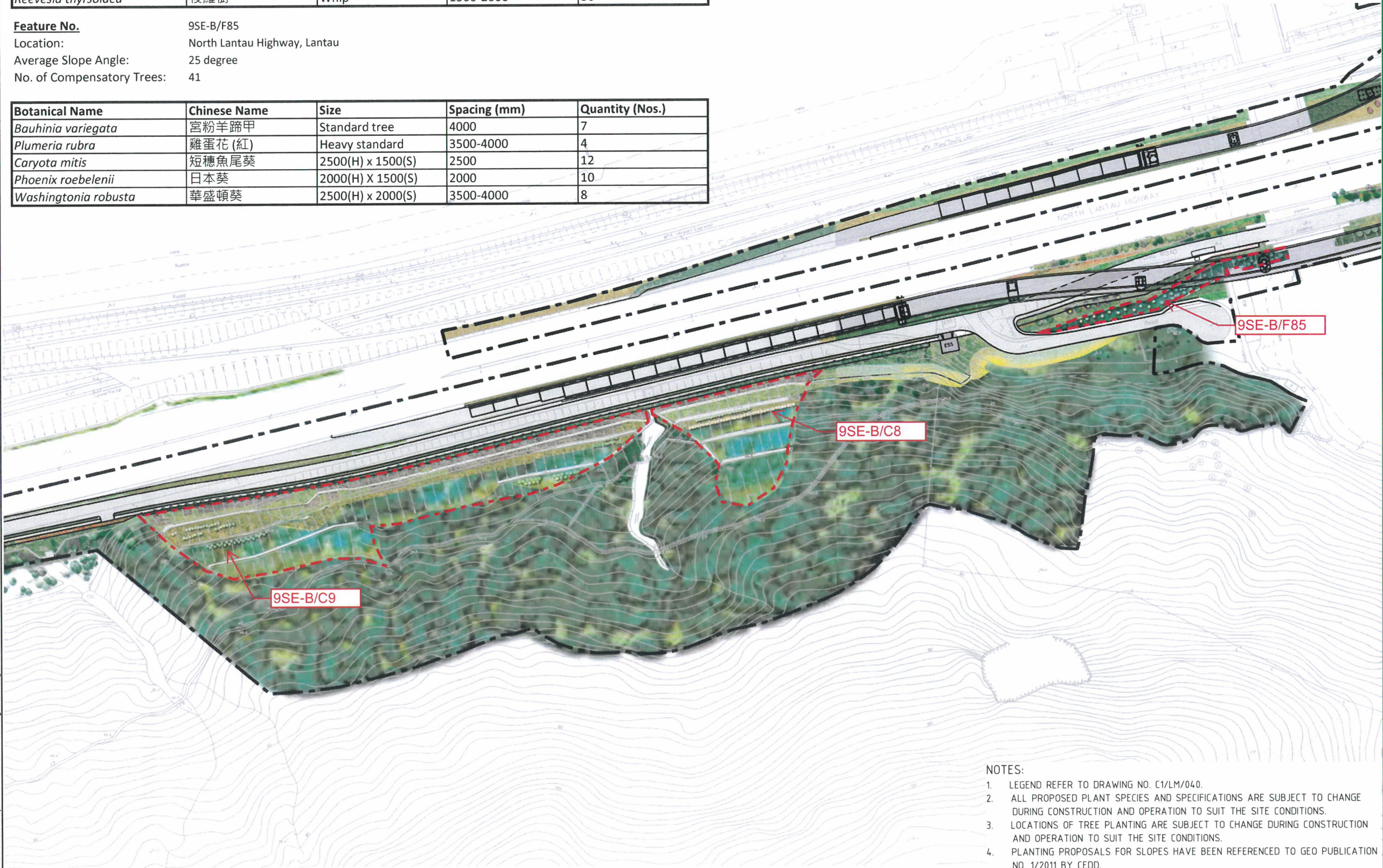
Project Management Initials: Designer: PLCK Checked: SLYY Approved: CWN
ISO A1 594mm x 841mm

Feature No. 9SE-B/C8, 9SE-B/C9
Location: Cheung Tung Road, North Lantau
Average Slope Angle: 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. 9SE-B/F85
Location: North Lantau Highway, Lantau
Average Slope Angle: 25 degree
No. of Compensatory Trees: 41

| 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:
- LEGEND REFER TO DRAWING NO. C1/LM/040.
 - ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION 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 SPECIES, SIZE, SPACING, LOCATION, HAVE BEEN REVIEWED AND COMMENTED BY HYD/LANDSCAPE DIVISION.

AECOM

PROJECT
TUN MUN -
CHEK LAP KOK LINK
COTNTRACT TITLE
SOUTHERN CONNECTION VIADUCT
SECTION

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

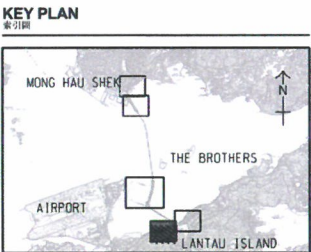
CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
勞務工程顧問公司

| ISSUE/REVISION | | | |
|----------------|------|-------------|------|
| | | | |
| | | | |
| | | | |
| | | | |
| I/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容變更 | 校核 |

STATUS
階段

SCALE
比例尺
A1 1 : 2000 A3 1:4000
DIMENSION UNIT
尺寸單位
MILLIMETRES



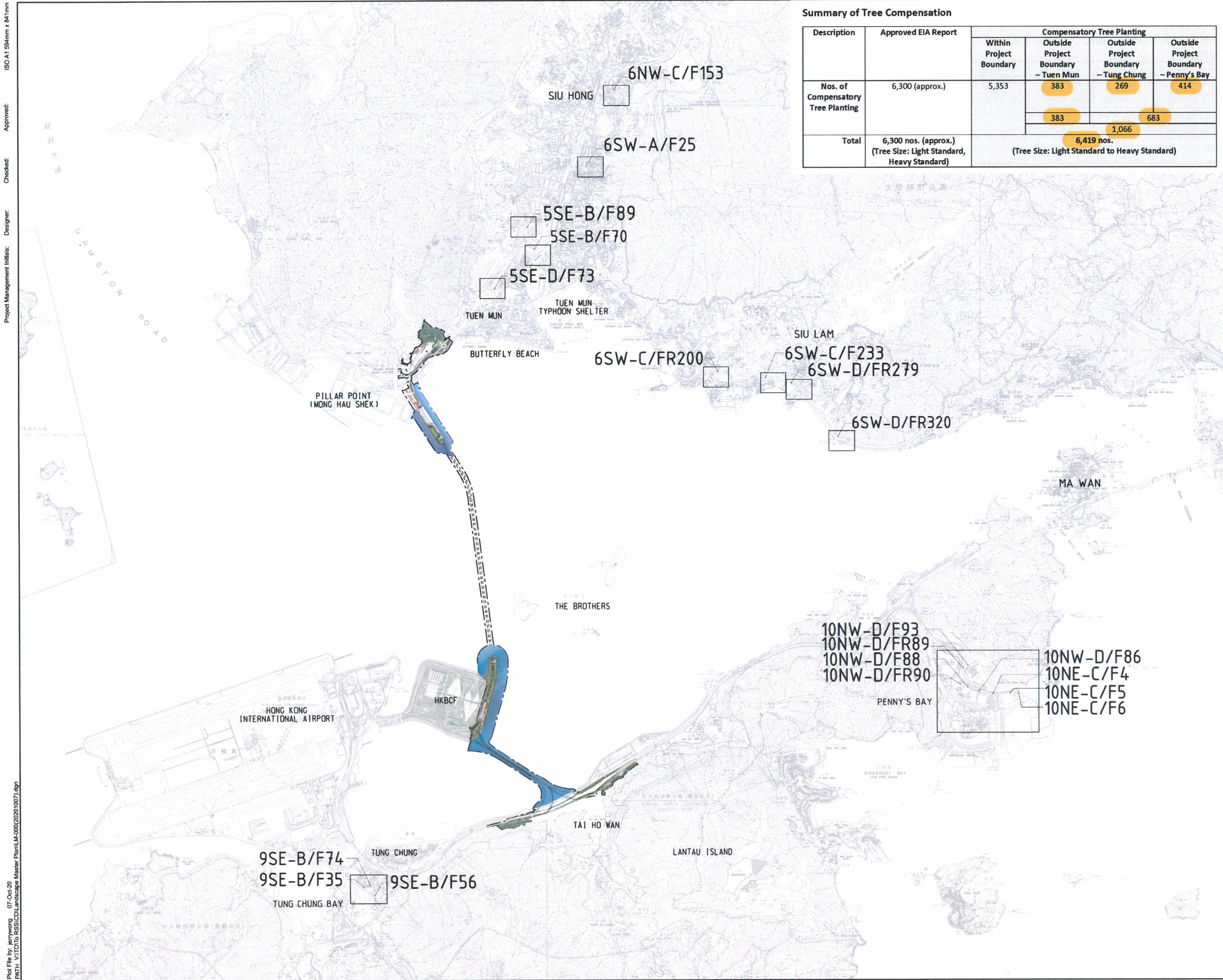
PROJECT NO.
項目編號
60240249
CONTRACT NO.
合約編號
HY/2012/07

SHEET TITLE
圖紙名稱
TREE PLANTING ON SLOPES

SHEET NUMBER
圖紙編號
C1/LM/051

Appendix E.3

Tree Compensation Outside Project Boundary



Summary of Tree Compensation

| Description | Approved EIA Report | Compensatory Tree Planting | | | |
|------------------------------------|---|---|-------------------------------------|---------------------------------------|--|
| | | 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 | 383 | 269 | 414 |
| | | | 383 | 683 | |
| | | | 1,066 | | |
| Total | 6,300 nos. (approx.) (Tree Size: Light Standard, Heavy Standard) | 6,419 nos. (Tree Size: Light Standard to Heavy Standard) | | | |

AECOM

PROJECT
項目TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTIONCLIENT
客戶路政署
HIGHWAYS DEPARTMENT
主要工程管理處(專責事務)
Major Works Project Management Office
(Special Duties)CONSULTANT
顧問公司AECOM Asia Company Ltd.
www.aecom.comSUB-CONSULTANTS
分包工程師/公司ISSUE/REVISION
修訂

| REV | DATE | DESCRIPTION | CHK |
|-----|--------|---------------|-----|
| C | AUG 24 | SLOPES UPDATE | EC |
| B | NOV 22 | SLOPES UPDATE | CL |
| A | MAR 21 | SLOPES UPDATE | CL |

STATUS
階段SCALE
比例
A1 1 : 30000
DIMENSION UNIT
尺寸單位
MILLIMETERSKEY PLAN
索引圖PROJECT NO.
項目編號
60240249
CONTRACT NO.
合約編號SHEET TITLE
圖紙名稱
TREE COMPENSATION
OUTSIDE PROJECT BOUNDARYSHEET NUMBER
圖紙編號

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

Location of Slopes Outside Project Boundary: North Lantau (Tung Chung, Penny's Bay)

Feature No. 95E-B/F56

Location: Shun Tung Road, Tung Chung
Average Slope Angle: 28 degree
No. of Compensatory Trees: 148

Feature No. 95E-B/F35 and 95E-B/F74

Location: Shun Tung Road, Tung Chung
Average Slope Angle: 35 degree, 30 degree respectively.
No. of Compensatory Trees: 121

Feature No. 10NW-D/F93

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 39

Feature No. 10NE-C/F6

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 39

Feature No. 10NE-C/F5

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 46

Feature No. 10NE-C/F4

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 41

Feature No. 10NW-D/F86

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 51

Feature No. 10NW-D/F88

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 39

Feature No. 10NW-D/FR89

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 101

Feature No. 10NW-D/FR90

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 58

Tung Chung, Penny's Bay: 683 nos.

Tree Species Schedule - Tung Chung

| Botanical Name | Chinese Name | Size | Spacing (Approximate mm) | Remarks |
|--|--------------|----------------|----------------------------|-----------------------------------|
| <i>Bischofia javanica</i> | 秋楓 | Light Standard | 3000-5000 | native tree mix |
| <i>Elaeocarpus balansae</i> | 大葉杜英 | Light Standard | 3000-4000 | exotic tree mix |
| <i>Elaeocarpus chinensis</i> | 中華杜英 | Light Standard | 3000-4000 | native tree mix |
| <i>Ilex rotunda</i> var. <i>microcarpa</i> | 小果鐵冬青 | Light Standard | 3000-4000 | native tree mix |
| <i>Lagerstroemia indica</i> | 紫薇 | Light Standard | 3000-4000 | exotic - flowering tree |
| <i>Lagerstroemia speciosa</i> | 大花紫薇 | Light Standard | 3000-4000 | exotic - front row flowering tree |
| <i>Liquidambar formosana</i> | 楓香 | Light Standard | 5000-6000 | native tree mix |
| <i>Machilus breviflora</i> | 短序潤楠 | Light Standard | 3000-4000 | native tree mix |
| <i>Machilus chekiangensis</i> | 浙江潤楠 | Light Standard | 3000-5000 | native tree mix |
| <i>Michelia chapensis</i> | 樂昌含笑 | Light Standard | 3000-6000 | native tree mix |
| <i>Prunus</i> spp. | 櫻 | Light Standard | 3000-4000 | exotic - front row flowering tree |
| <i>Reevesia thyrsoidea</i> | 梭羅樹 | Light Standard | 3000-4000 | native tree mix |
| <i>Sapium sebiferum</i> | 烏柏 | Light Standard | 3000-4000 | native tree mix |
| <i>Schima superba</i> | 木荷 | Light Standard | 3000-5000 | native tree mix/ avenue tree |
| <i>Sterculia lanceolata</i> | 假蘋婆 | Light Standard | 3000-4000 | native tree mix |
| <i>Syzygium hancei</i> | 韓氏蒲桃 | Light Standard | 3000-5000 | native tree mix |
| <i>Tabebuia chrysantha</i> | 黃金風鈴木 | Light Standard | 3000-4000 | exotic - front row flowering tree |
| <i>Viburnum odoratissimum</i> | 珊瑚樹 | Light Standard | 3000-4000 | native tree mix |
| | | | Tung Chung Total Quantity: | 269 nos. |

NOTE:

- 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.
- All proposed tree species and specifications in the Tree Species Schedule are subject to change during construction and operation to suit the site conditions and market availability.
- Size of trees shall refer to the General Specification for Civil Engineering Works, 2006 edition.
- Exact location of tree planting shall be verified on site. Trees may be planted in other slope(s) in the Tung Chung and Penny's Bay Area.

Tree Species Schedule - Penny's Bay

| Botanical Name | Chinese Name | Size | Spacing (Approximate mm) | Remarks |
|--|--------------|-------------------------------|-----------------------------|----------|
| <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | Light Standard | 4000-5000 | exotic |
| <i>Bischofia javanica</i> | 秋楓 | Light Standard | 4000-5000 | native |
| <i>Bismarckia nobilis</i> | 霸王棕 | Medium Palm 3m overall height | 4000-5000 | exotic |
| <i>Cassia javanica</i> | 節果決明 | Light Standard | 4000-5000 | exotic |
| <i>Castanopsis fissa</i> | 裂斗雜栗 | Light Standard | 4000-5000 | native |
| <i>Chorisia speciosa</i> | 美人樹 | Light Standard | 4000-5000 | exotic |
| <i>Clerodendrum quadriloculare</i> | 煙火樹 | Light Standard | 4000-5000 | exotic |
| <i>Cyclobalanopsis myrsinifolia</i> | 小葉青岡 | Light Standard | 4000-5000 | native |
| <i>Dombeya wallichii</i> | 吊芙蓉 | Light Standard | 4000-5000 | exotic |
| <i>Ficus altissima</i> | 高山榕 | Light Standard | 4000-5000 | exotic |
| <i>Ficus microcarpa</i> | 細葉榕 | Light Standard | 5000 | native |
| <i>Ilex rotunda</i> var. <i>microcarpa</i> | 小果鐵冬青 | Light Standard | 3000-4000 | native |
| <i>Jacaranda mimosifolia</i> | 藍花楸 | Light Standard | 4000-5000 | exotic |
| <i>Koeleruteria</i> spp. | 複羽葉藥樹 | Light Standard | 4000-5000 | exotic |
| <i>Lagerstroemia indica</i> | 紫薇 | Light Standard | 4000-5000 | exotic |
| <i>Lagerstroemia speciosa</i> | 大花紫薇 | Light Standard | 4000-5000 | exotic |
| <i>Livistona chinensis</i> | 蒲葵 | Medium Palm 1.5m(H) trunk | 2000-3000 | exotic |
| <i>Livistona chinensis</i> | 蒲葵 | Medium Palm 2.5m(H) trunk | 2000-3000 | exotic |
| <i>Magnolia grandiflora</i> | 荷花玉蘭 | Light Standard | 4000-5000 | exotic |
| <i>Magnolia liliiflora</i> | 紫玉蘭 | Light Standard | 4000-5000 | exotic |
| <i>Michelia maudiae</i> | 深山含笑 | Light Standard | 4000-5000 | native |
| <i>Pandanus tectorius</i> | 林投樹 | Light Standard | 4000-5000 | native |
| <i>Plumeria rubra</i> | 紅雞蛋花 | 2000mm (H) x 2000mm (S) | 4000-5000 | exotic |
| <i>Prunus</i> spp. | 櫻 | Light Standard | 4000-5000 | exotic |
| <i>Ravenala madagascariensis</i> | 旅人蕉 | Medium Palm 2.5m(H) overall | 2000-3000 | exotic |
| <i>Reevesia thyrsoidea</i> | 梭羅樹 | Light Standard | 4000-5000 | native |
| <i>Roystonea regia</i> | 王棕 | Large Palm 3m(H) trunk | 3000-4000 | exotic |
| <i>Sapium discolor</i> | 山烏柏 | Light Standard | 4000-5000 | native |
| <i>Sapium sebiferum</i> | 烏柏 | Light Standard | 4000-5000 | native |
| <i>Sterculia lanceolata</i> | 假蘋婆 | Light Standard | 4000-5000 | native |
| <i>Tabebuia chrysantha</i> | 黃金風鈴木 | Light Standard | 4000-5000 | exotic |
| <i>Tabebuia rosea</i> | 紅花風鈴木 | Light Standard | 4000-5000 | exotic |
| <i>Vernicia fordii</i> | 油桐 | Light Standard | 4000-5000 | exotic |
| <i>Viburnum odoratissimum</i> | 珊瑚樹 | Light Standard | 4000-5000 | native |
| <i>Yulania denudata</i> | 白玉蘭 | Light Standard | 4000-5000 | exotic |
| <i>Yulania x soulangeana</i> | 二喬木蘭 | Light Standard | 4000-5000 | exotic |
| | | | Penny's Bay Total Quantity: | 414 nos. |

NOTE:

- 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.
- All proposed tree species and specifications in the Tree Species Schedule are subject to change during construction and operation to suit the site conditions and market availability.
- Size of trees shall refer to the General Specification for Civil Engineering Works, 2006 edition.
- Exact location of tree planting shall be verified on site. Trees may be planted in other slope(s) in the Tung Chung and Penny's Bay 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:

31

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:

52

Feature No. 5SE-D/F73

Location: San Shek Wan Road
Average Slope Angle: 30 degree
No. of Compensatory Trees:

92

Feature No. 5SE-B/F89

Location: Tsing Wan Road
Average Slope Angle: 35 degree
No. of Compensatory Trees:

30

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:

383 nos.

Tree Species Schedule - Tuen Mun

| Botanical Name | Chinese Name | Size | Spacing (Approximate mm) | Remarks |
|-------------------------------------|--------------|----------------|--------------------------|----------|
| <i>Bridelia tomentosa</i> | 土密樹 | Light Standard | 5000 - 6000 | native |
| <i>Castanopsis fissa</i> | 裂斗錐栗 | Light Standard | 5000 - 6000 | native |
| <i>Cinnamomum camphora</i> | 樟 | Light Standard | 5000 - 6000 | native |
| <i>Elaeocarpus sylvestris</i> | 山杜英 | Light Standard | 3000 - 4000 | native |
| <i>Ilex rotunda var. microcarpa</i> | 小果鐵冬青 | Light Standard | 3000 - 4000 | native |
| <i>Liquidambar formosana</i> | 楓香 | Light Standard | 5000 - 6000 | native |
| <i>Machilus breviflora</i> | 短序潤楠 | Light Standard | 3000 - 6000 | native |
| <i>Machilus chekiangensis</i> | 浙江潤楠 | Light Standard | 3000 - 4000 | native |
| <i>Michelia chapensis</i> | 樂昌含笑 | Light Standard | 5000 - 6000 | native |
| <i>Pongamia pinnata</i> | 水黃皮 | Light Standard | 5000 - 6000 | native |
| <i>Prunus spp.</i> | 櫻 | Light Standard | 3000 - 4000 | exotic |
| <i>Reevesia thyrsoidea</i> | 梭羅樹 | Light Standard | 3000 - 4000 | native |
| <i>Sapium sebiferum</i> | 烏桕 | Light Standard | 3000 - 6000 | native |
| <i>Schefflera heptaphylla</i> | 鵝掌柴 | Light Standard | 3000 - 6000 | native |
| <i>Schima superba</i> | 木荷 | Light Standard | 3000 - 4000 | native |
| <i>Sterculia lanceolata</i> | 假蘋婆 | Light Standard | 3000 - 4000 | native |
| <i>Syzygium hancei</i> | 韓氏蒲桃 | Light Standard | 3000 - 4000 | native |
| <i>Syzygium jambos</i> | 蒲桃 | Light Standard | 5000 - 6000 | exotic |
| <i>Tabebuia chrysantha</i> | 黃金風鈴木 | Light Standard | 3000 - 4000 | exotic |
| <i>Viburnum odoratissimum</i> | 珊瑚樹 | Light Standard | 3000 - 6000 | native |
| <i>Xanthostemon chrysanthus</i> | 金蒲桃 | Light Standard | 3000 - 4000 | exotic |
| | | | Tuen Mun Total Quantity: | 383 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 and operation 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.

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
15/Mar/2021
PATH T:\Drawing\DRAWING\2234\2234A.dgn

Tree Compensation Outside Site Boundary (Tuen Mun)

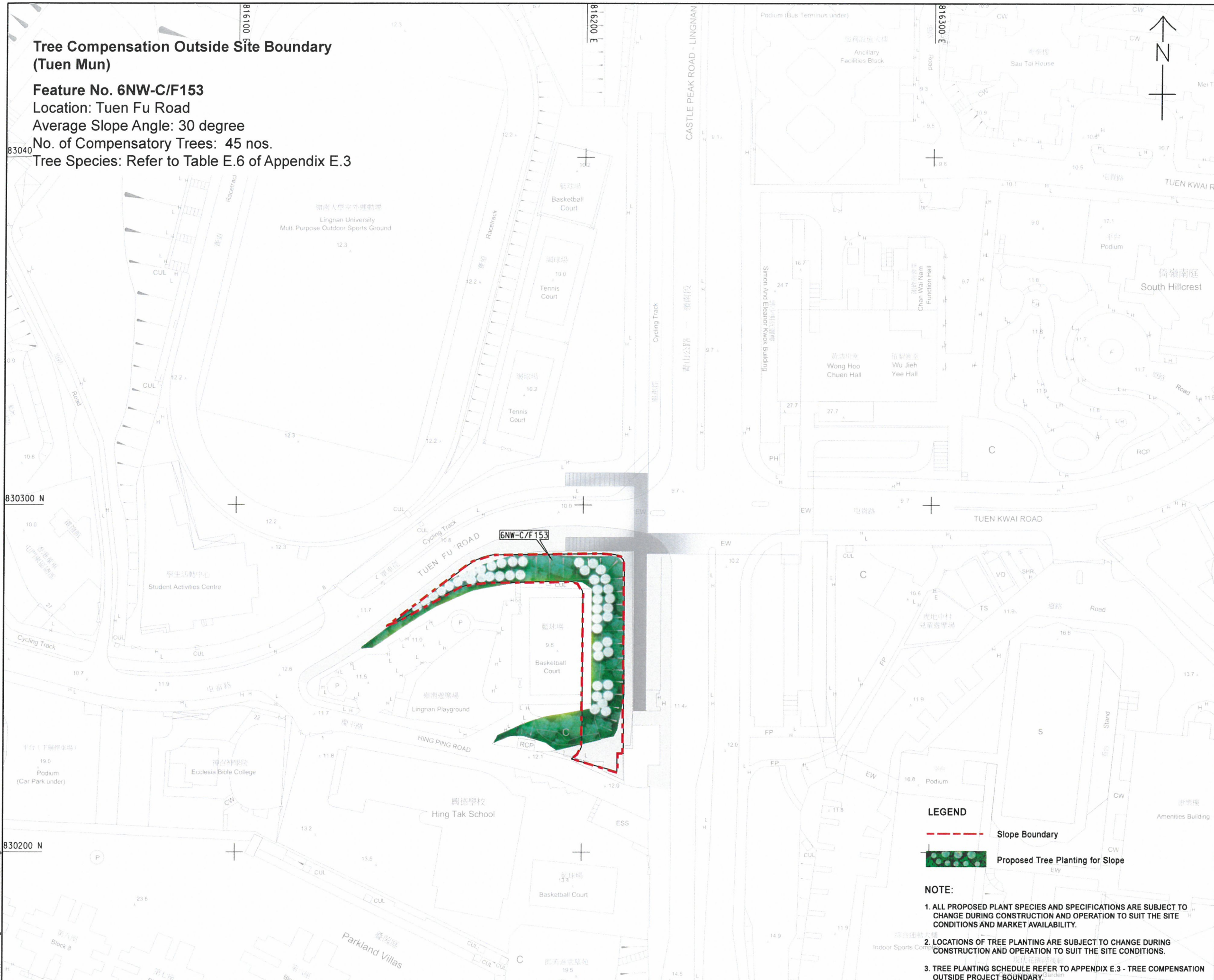
Feature No. 6NW-C/F153

Location: Tuen Fu Road

Average Slope Angle: 30 degree

No. of Compensatory Trees: 45 nos.

Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT

**TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION**

CLIENT

HIGHWAYS DEPARTMENT
Major Works Project Management Office
(Special Duties)

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| IR | DATE | DESCRIPTION | CHK. |
|----|--------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |

STATUS

SCALE

A1 1:500

KEY PLAN



PROJECT NO.

60240249

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

TMCLKL/LM/053

ISO A1 594mm x 841mm
Approved:
Checked:
Design:
Project Management Initials:
Plot File by: r101
PATH: T:\Drawing\DRAWING\2235\DF2235A.dgn
16/Mar/2021

Tree Compensation Outside Site Boundary (Tuen Mun)

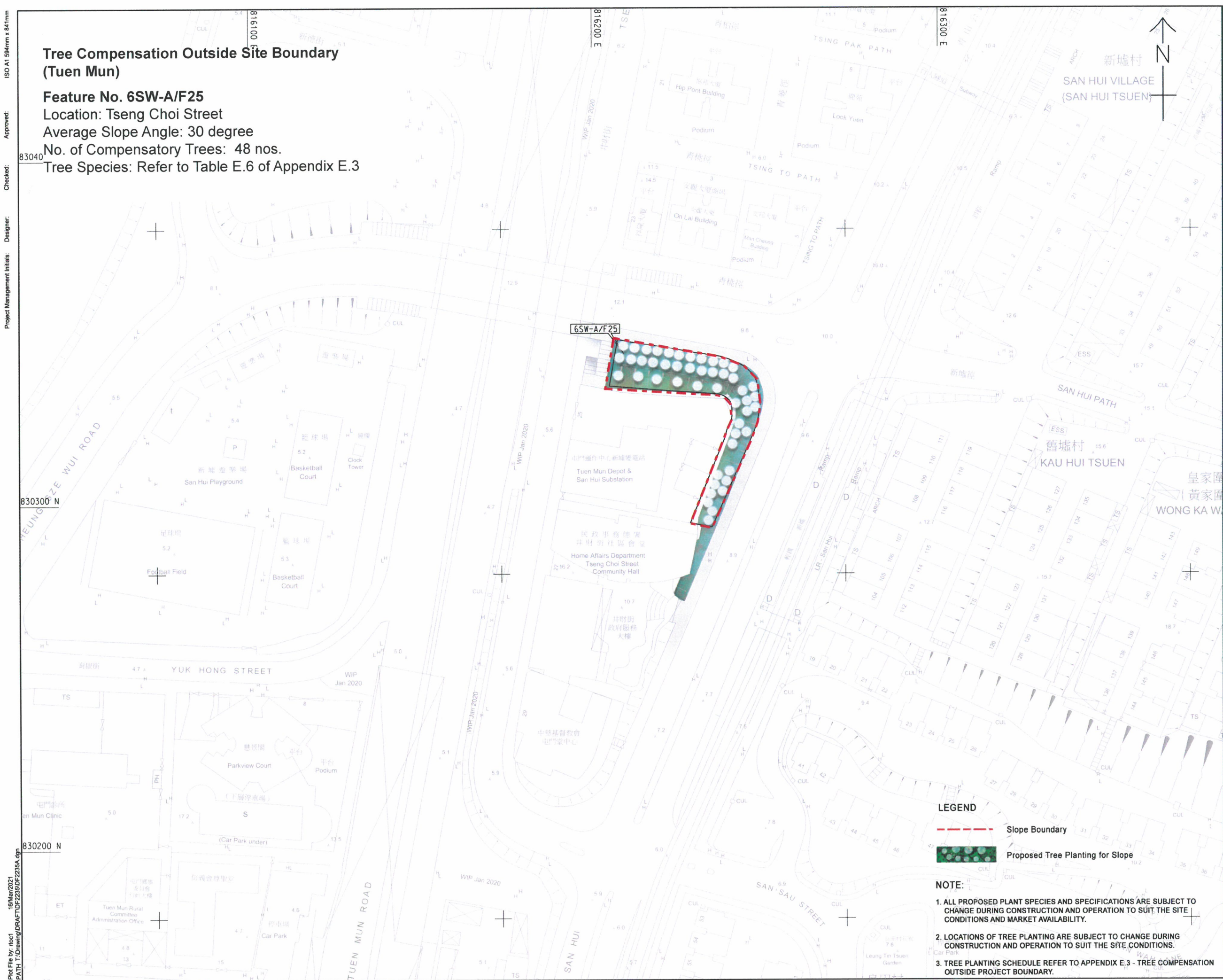
Feature No. 6SW-A/F25

Location: Tseng Choi Street

Average Slope Angle: 30 degree

No. of Compensatory Trees: 48 nos.

Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

--- Slope Boundary

Proposed Tree Planting for Slope

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT

**TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION**

CLIENT

HIGHWAYS DEPARTMENT
Major Works Project Management Office
(Special Duties)

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

分判工程顧問公司

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| 1/R | DATE | DESCRIPTION | CHK. |
| 修改 | 日期 | 内容更新 | 校核 |

STATUS

阶段

SCALE

比例

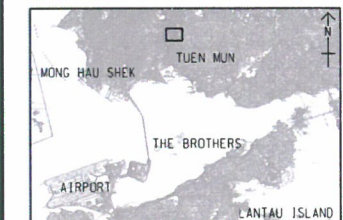
A1 1:500

DIMENSION UNIT

尺寸单位

KEY PLAN

索引图



PROJECT NO.

项目编号

60240249

CONTRACT NO.

合约编号

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

张数/页数

TMCLKL/LM/054

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: rici
16/Mar/2021
PATH T:\Drawing\DRAWING\2237\DF\2237A.dgn

**Tree Compensation Outside Site Boundary
(Tuen Mun)**

Feature No.5SE-B/F89

Location: Tsing Wan Road

Average Slope Angle: 35 degree

No. of Compensatory Trees: 30 nos.

Tree Species: Refer to Table E.6 of Appendix E.3



AECOM

PROJECT

**TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION**

CLIENT

**路政署
HIGHWAYS DEPARTMENT**
主要工程管理处 (專責專程)
Major Works Project Management Office
(Special Duties)

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK |
|-----|--------|---------------|-----|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| REV | DATE | DESCRIPTION | CHK |

STATUS

階段

SCALE

比例

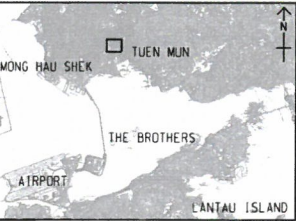
A1 1: 500

DIMENSION UNIT

尺寸單位

KEY PLAN

索引圖



PROJECT NO.

項目編號

60240249

CONTRACT NO.

合約編號

SHEET TITLE

圖紙名稱

**TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN**

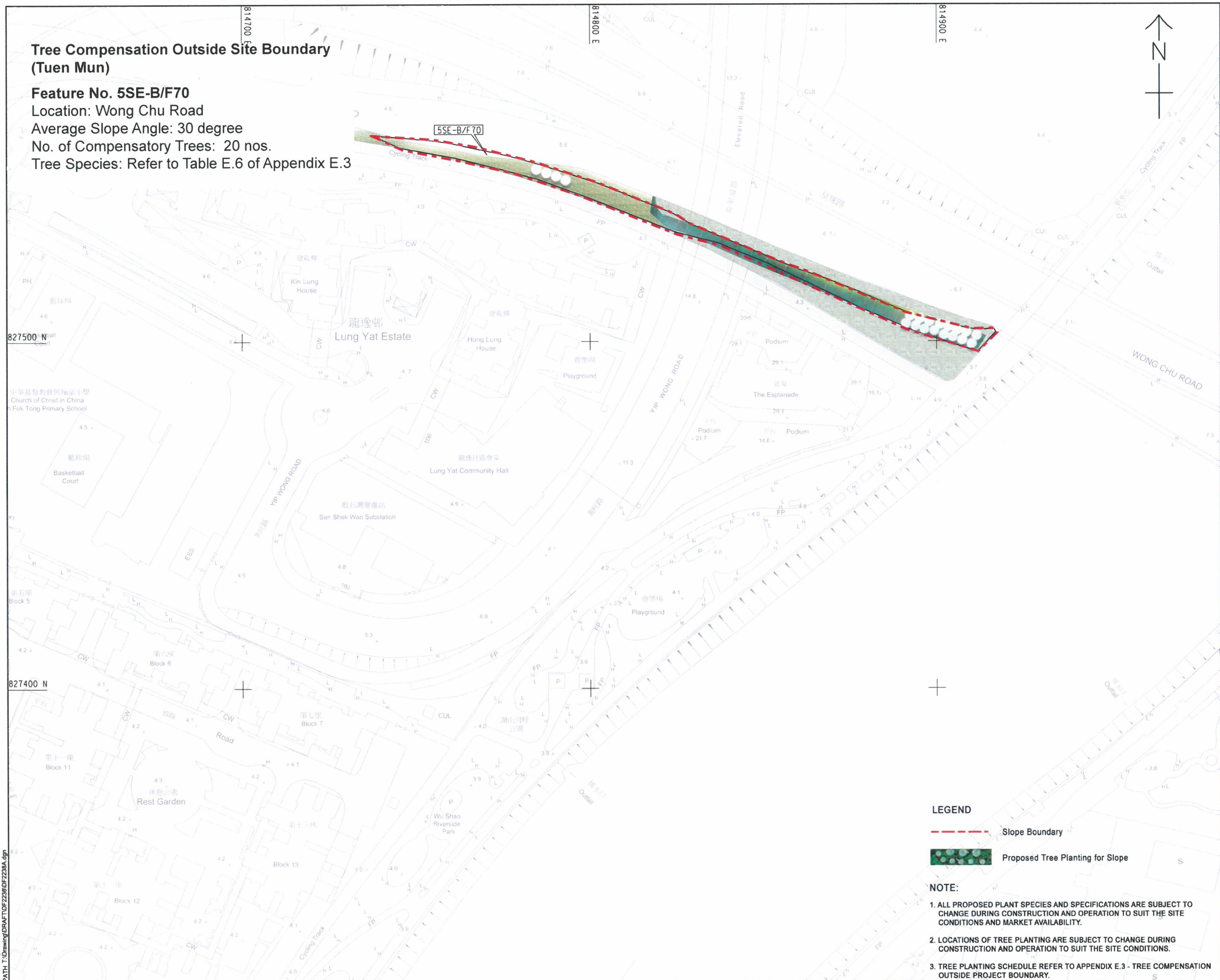
SHEET NUMBER

圖紙編號

TMCLK/LM/055

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
15/Mar/2021
PATH T:\Drawing\ORAF\TOP\2238\DF238A.dgn

**Tree Compensation Outside Site Boundary
(Tuen Mun)**
Feature No. 5SE-B/F70
Location: Wong Chu Road
Average Slope Angle: 30 degree
No. of Compensatory Trees: 20 nos.
Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

--- Slope Boundary

Proposed Tree Planting for Slope

- NOTE:**
1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.



PROJECT
Tuen Mun -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

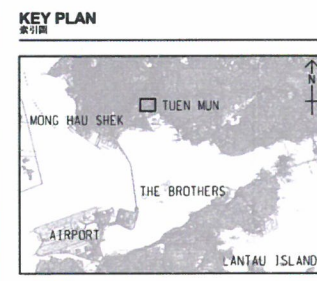
SUB-CONSULTANTS
AECOM Asia Company Ltd.

| ISSUE/REVISION | | | |
|----------------|--------|---------------|------|
| NO. | DATE | DESCRIPTION | CHK. |
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 修訂摘要 | 校核 |

STATUS
可批

SCALE
比例
A1 1 : 500

DIMENSION UNIT
尺寸單位
公尺/呎



PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號

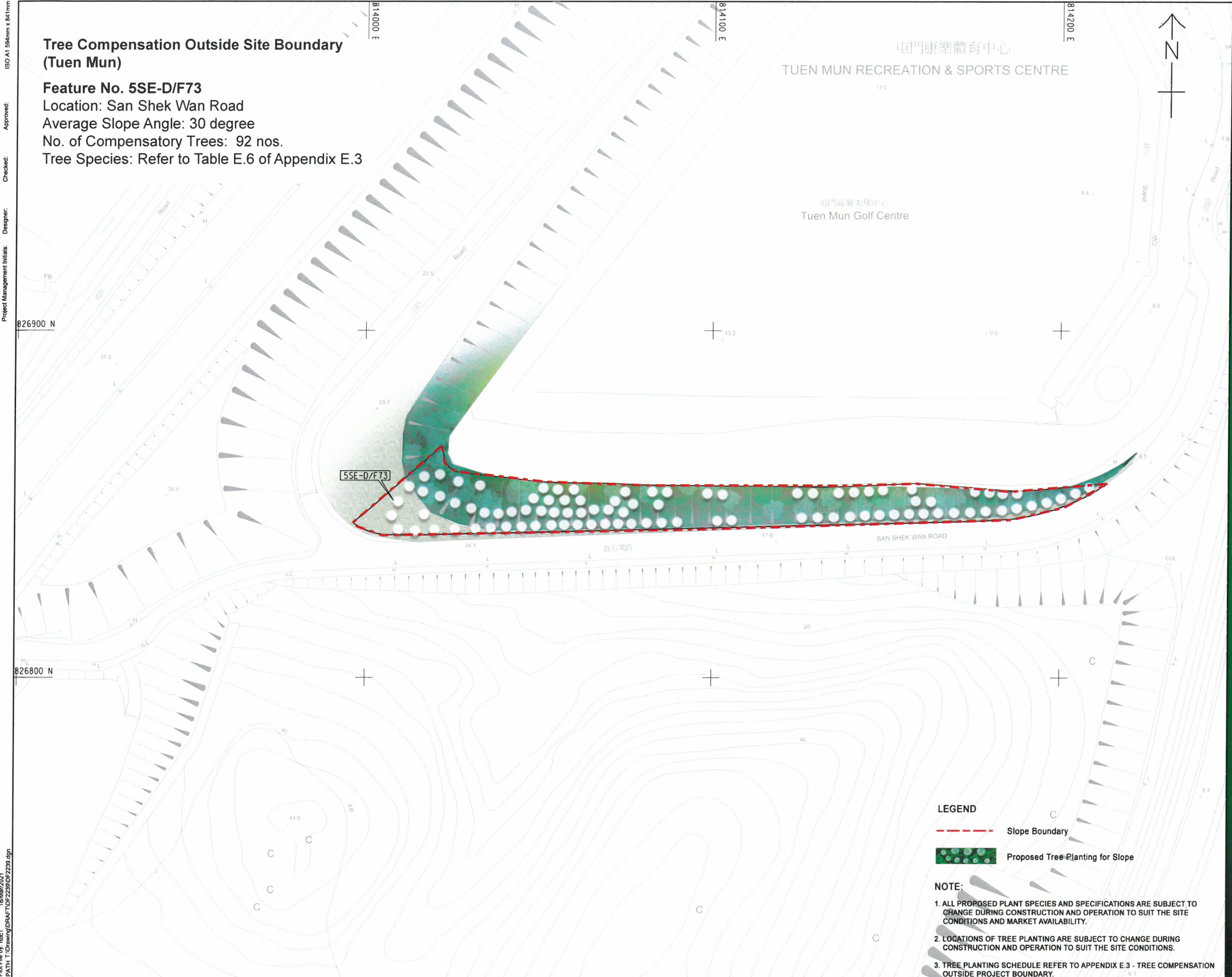
SHEET TITLE
圖紙名稱
TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER
圖紙編號
TMCLKL/LM/056

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
18/Mar/2021
Plot File by: rloc1
PATH: T:\Drawing\DRAC\T\02229\0F2239.dgn

Tree Compensation Outside Site Boundary
(Tuen Mun)

Feature No. 5SE-D/F73
Location: San Shek Wan Road
Average Slope Angle: 30 degree
No. of Compensatory Trees: 92 nos.
Tree Species: Refer to Table E.6 of Appendix E.3



AECOM

PROJECT
Tuen Mun -
Chek Lap Kok Link
Design and
Construction

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

CONSULTANT
工務顧問公司
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
外聘工程顧問公司

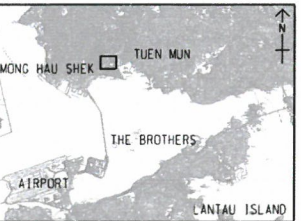
| ISSUE/REVISION | | | | |
|----------------|--------|---------------|------|--|
| | | | | |
| | | | | |
| B | AUG 24 | SLOPES UPDATE | EC | |
| A | MAR 21 | SLOPES UPDATE | CL | |
| I/R | DATE | DESCRIPTION | CHK. | |
| 修改 | 日期 | 內容說明 | 校核 | |

STATUS
清校

SCALE
比例

A1 : 500

KEY PLAN
索引圖



PROJECT NO.
項目編號

60240249

SHEET TITLE
圖紙名稱

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER
圖紙編號

TMCLKL/LM/057

ISO A1 994mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

Plot File by: ruc1
PATH: F:\Drawing\DRAWING\2240\DF2240A.dgn
15/Mar/2021

Tree Compensation Outside Site Boundary (Tuen Mun)

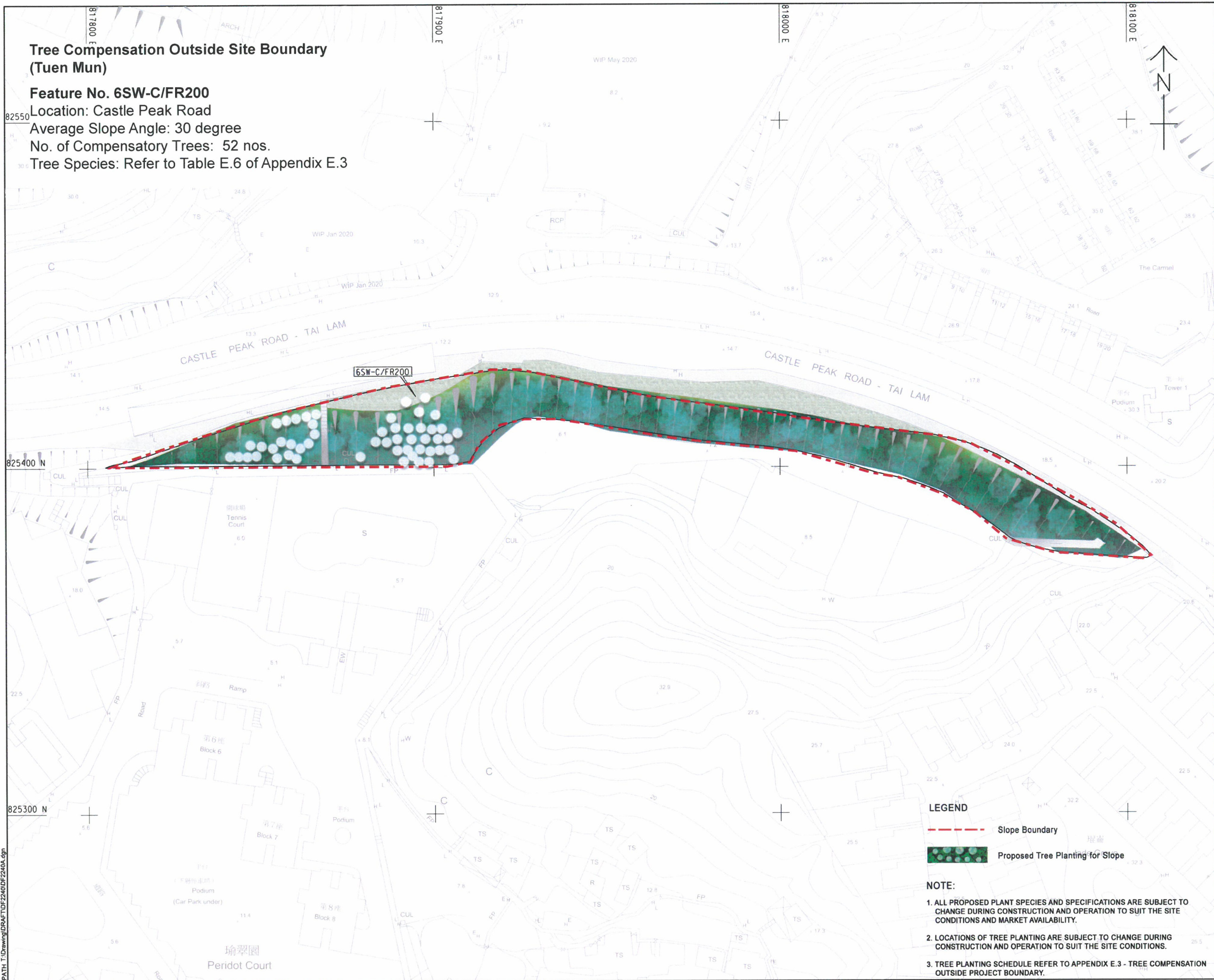
Feature No. 6SW-C/FR200

Location: Castle Peak Road

Average Slope Angle: 30 degree

No. of Compensatory Trees: 52 nos.

Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

--- Slope Boundary

Proposed Tree Planting for Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK. |
|-----|--------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |

STATUS

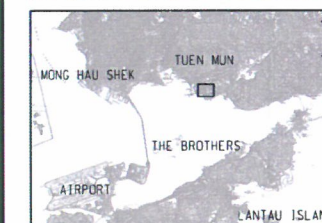
SCALE

A1 1:500

DIMENSION UNIT

尺寸單位

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

TMCKL/LM/058

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
15/Mar/2021
Plot File By: rloc1
PATH: T:\Drawing\DRAT\22410F2241A.dgn

Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No. 6SW-C/F233

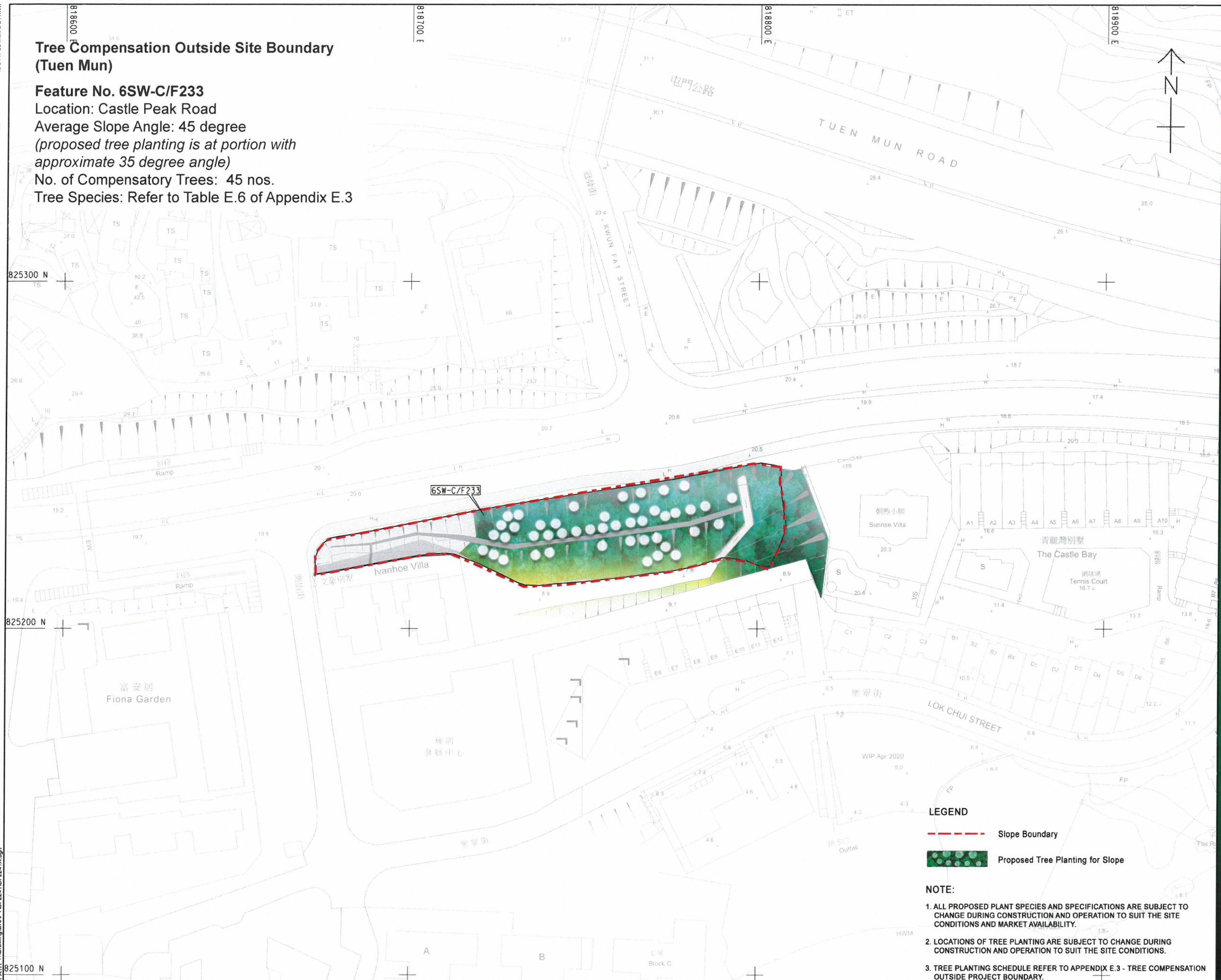
Location: Castle Peak Road

Average Slope Angle: 45 degree

(proposed tree planting is at portion with
approximate 35 degree angle)

No. of Compensatory Trees: 45 nos.

Tree Species: Refer to Table E.6 of Appendix E.3



LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| B | DATE | DESCRIPTION | CHK |
|-----|--------|---------------|-----|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK |
| 修改 | 日期 | 內容摘要 | 校核 |

STATUS

消校

SCALE

比例

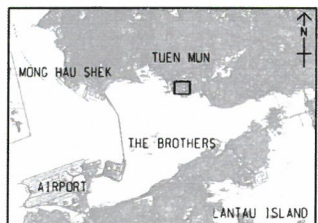
A1 1:500

DIMENSION UNIT

尺寸單位

KEY PLAN

索引圖



PROJECT NO.

項目編號

60240249

CONTRACT NO.

合約編號

SHEET TITLE

圖紙名稱

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

圖紙編號

TMCLKL/LM/059

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

Plot File by: RTOCTEMP 11/12/2020
PATH: T:\Drawing\RAFT\DF2244\DF2244.dgn

Tree Compensation Outside Site Boundary (Tuen Mun)

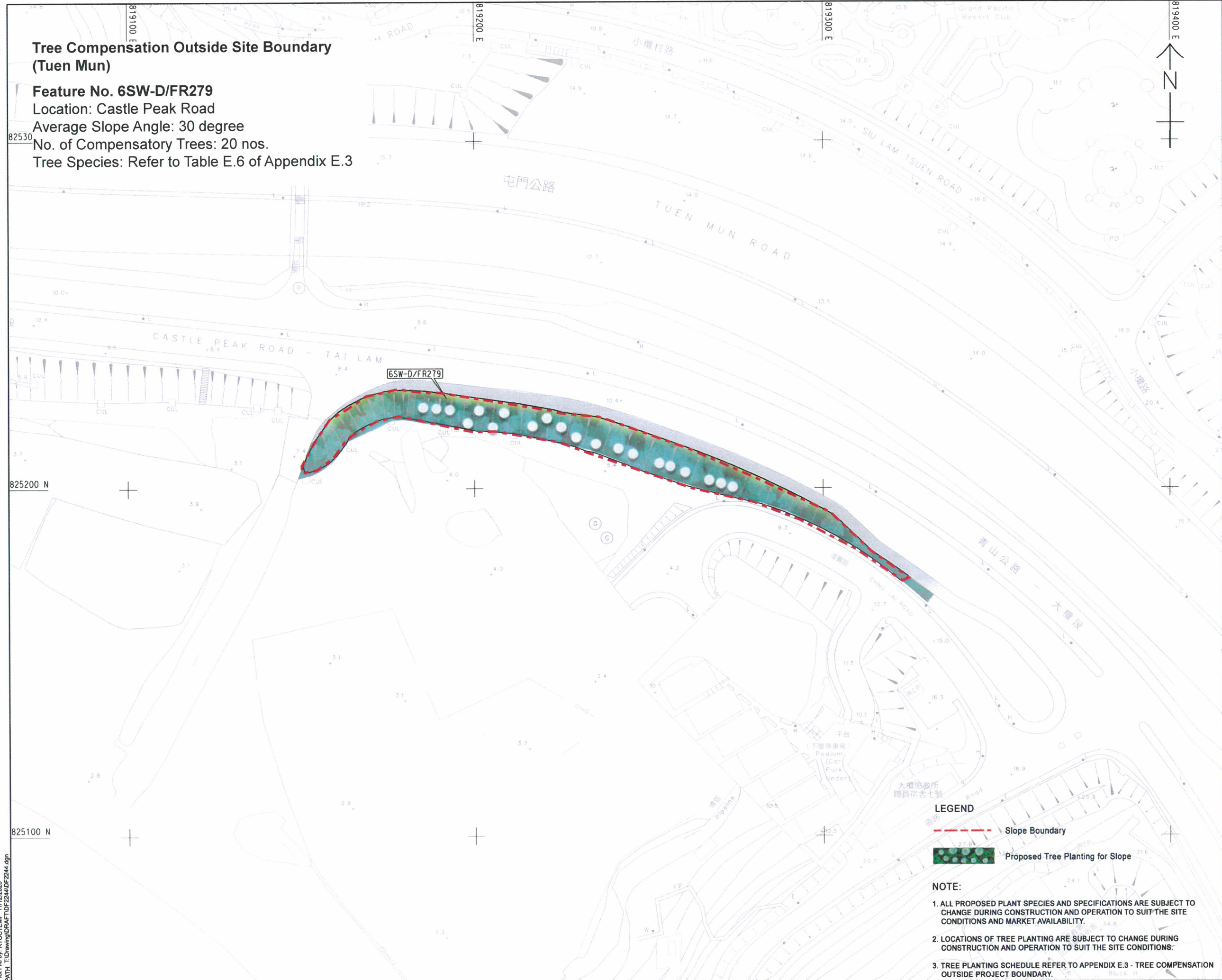
Feature No. 6SW-D/FR279

Location: Castle Peak Road

Average Slope Angle: 30 degree

No. of Compensatory Trees: 20 nos.

Tree Species: Refer to Table E.6 of Appendix E.3



AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| REV | DATE | DESCRIPTION | CHK. |
|-----|--------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| 1/R | DATE | DESCRIPTION | CHK. |
| 修訂 | 日期 | 內容變更 | 校核 |

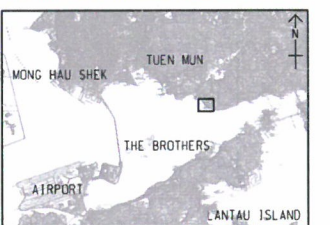
STATUS

階段

SCALE

A1 1 : 500

KEY PLAN



PROJECT NO.

60240249

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

TMCLKL/LM/060

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

Plot File by: rnc1
PATH: T:\Drawing\DRAWING\2245\DF2245A.dgn
15/Mar/2021

Tree Compensation Outside Site Boundary (Tuen Mun)

Feature No. 6SW-D/FR320

Location: Castle Peak Road

Average Slope Angle: 26 degree

No. of Compensatory Trees: 31 nos.

Tree Species: Refer to Table E.6 of Appendix E.3

824300 N

824200 N

6SW-D/FR320

大欖角
BROTHERS POINT
(TAI LAM KOK)

TUEN MUN ROAD

LEGEND

--- Slope Boundary

Proposed Tree Planting for Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| I/R | DATE | DESCRIPTION | CHK. |
|-----|--------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |

STATUS

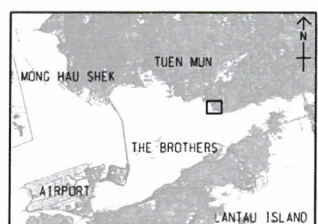
SCALE

A1 1 : 500

DIMENSION UNIT

尺寸單位

KEY PLAN



PROJECT NO.

60240249

CONTRACT NO.

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY - TUEN MUN

SHEET NUMBER

TMCLKL/LM/061

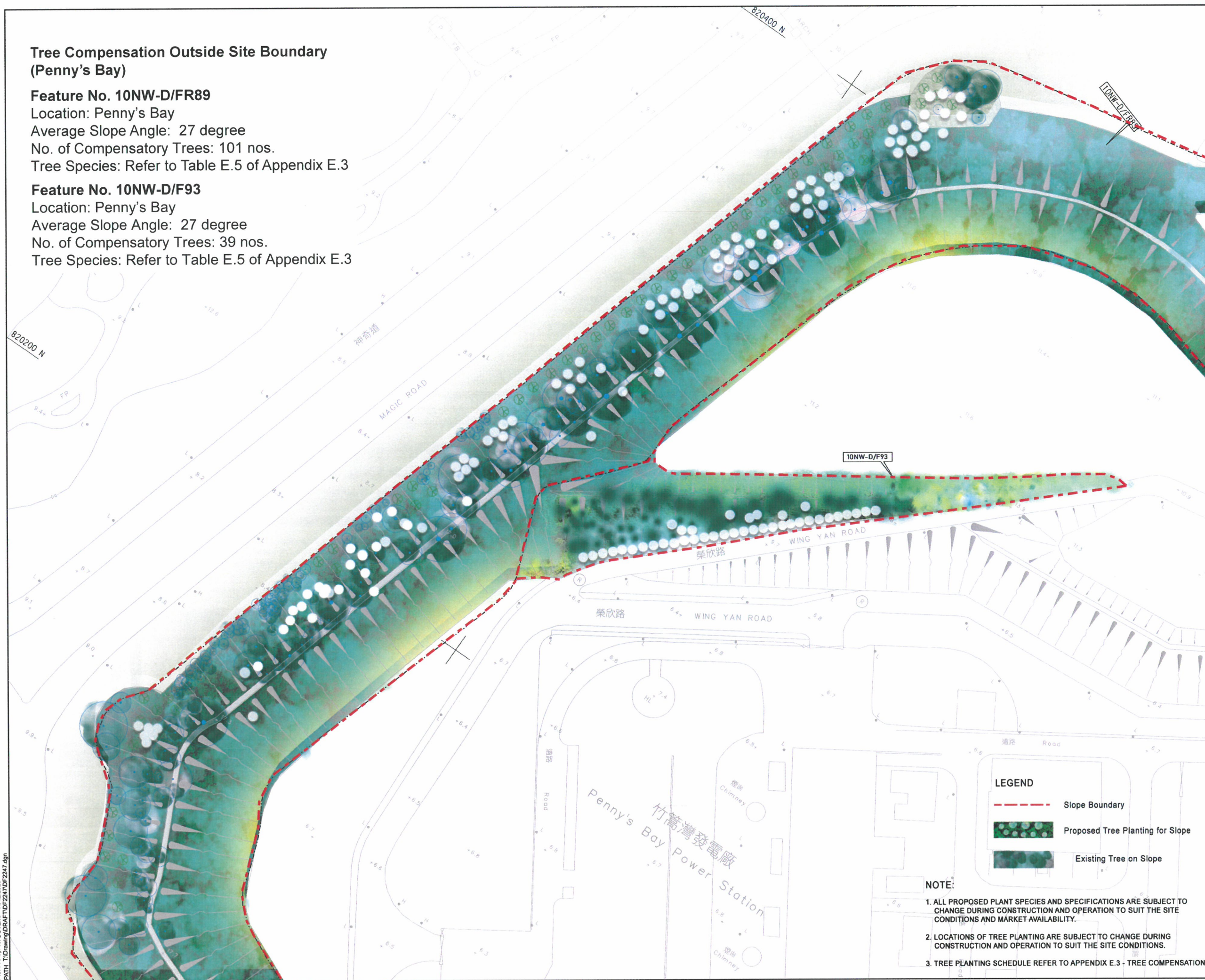
Tree Compensation Outside Site Boundary (Penny's Bay)

Feature No. 10NW-D/FR89

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 101 nos.
Tree Species: Refer to Table E.5 of Appendix E.3

Feature No. 10NW-D/F93

Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 39 nos.
Tree Species: Refer to Table E.5 of Appendix E.3



AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

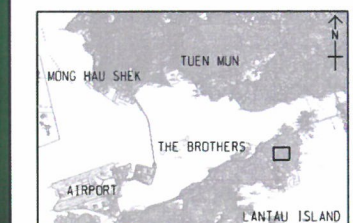
| IR | DATE | DESCRIPTION | CHK. |
|----|--------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |

STATUS

SCALE

A1 1:500

KEY PLAN



PROJECT NO.

60240249

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY

SHEET NUMBER

TMCLKL/LM/062

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: RTOCTEMP 11/12/2020
PATH: \\Drawing\URAF\DF2249\DF2249.dgn

Tree Compensation Outside Site Boundary
(Penny's Bay)

Feature No. 10NW-D/FR90
Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 58 nos.
Tree Species: Refer to Table E.5 of Appendix E.3



AECOM
PROJECT
TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION
CLIENT
路政署
HIGHWAYS DEPARTMENT
主要工程管理處(專責事務)
Major Works Project Management Office
(Special Duties)
CONSULTANT
工程顧問公司
AECOM Asia Company Ltd.
www.aecom.com
SUB-CONSULTANTS
設計工程師有限公司

ISSUE/REVISION
設計

| | | | |
|----|--------|---------------|------|
| | | | |
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| IR | DATE | DESCRIPTION | CHK. |
| 修改 | 日期 | 內容摘要 | 校核 |

STATUS
開工

SCALE
比例
A1 1: 500
DIMENSION UNIT
尺寸單位
KEY PLAN
索引圖

PROJECT NO.
項目編號
60240249
CONTRACT NO.
合約編號
SHEET TITLE
圖紙名稱
TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY
SHEET NUMBER
圖紙編號
TMCLKL/LM/064

ISO A1 394mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

Plot File by: RTCTEMP 11/12/2020
PATH: T:\Drawing\DRAWING\2250\2250.DGN



**Tree Compensation Outside Site Boundary
(Penny's Bay)**

Feature No. 10NW-D/FR86
Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 51 nos.
Tree Species: Refer to Table E.5 of Appendix E.3

LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT
TUN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

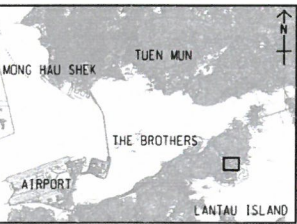
SUB-CONSULTANTS
分判工程顧問公司

| ISSUE/REVISION | | | |
|----------------|--------|---------------|------|
| | | | |
| | | | |
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |
| 修改 | 日期 | 內容摘要 | 校核 |

STATUS
狀態

SCALE
比例
A1 1 : 500

KEY PLAN
索引圖

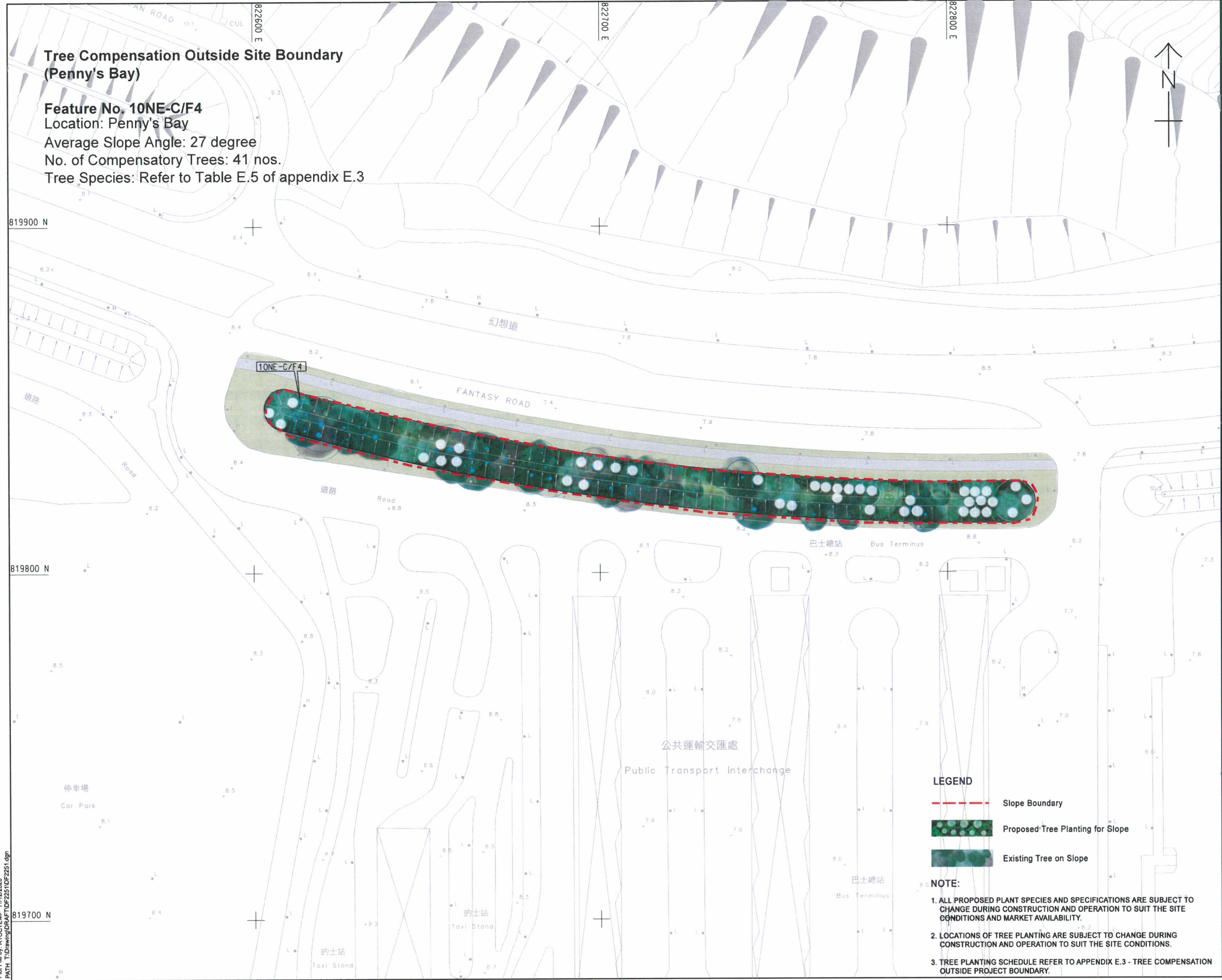


PROJECT NO.
項目編號
60240249

SHEET TITLE
圖紙名稱
TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY

SHEET NUMBER
圖紙編號
TMCLKL/LM/065

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: RTOCTEMP 1/12/2020
PATH T:\Drawing\DRAT\0F2510F251.dgn



**Tree Compensation Outside Site Boundary
(Penny's Bay)**

Feature No. 10NE-C/F4
Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 41 nos.
Tree Species: Refer to Table E.5 of appendix E.3

LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
2. LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
3. TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.



PROJECT
TUN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程師與公司

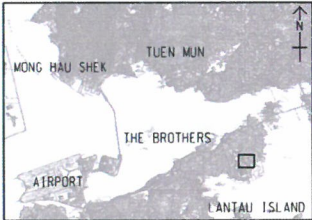
| ISSUE/REVISION | | | |
|----------------|--------|---------------|------|
| REV | DATE | DESCRIPTION | CHK. |
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |

STATUS
預段

SCALE
比例
A1 : 500

DIMENSION UNIT
尺寸單位
毫米

KEY PLAN
索引圖



PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號

SHEET TITLE
圖紙名稱
TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY

SHEET NUMBER
圖紙編號
TMCKL/LM/066

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: RTOCTEMP 11/12/2020
PATH: T:\Drawing\URSAF\TDF\232\DF\232.dgn



**Tree Compensation Outside Site Boundary
(Penny's Bay)**

Feature No. 10NE-C/F5
Location: Penny's Bay
Average Slope Angle: 27 degree
No. of Compensatory Trees: 46 nos.
Tree Species: Refer to Table E.5 of appendix E.3

- LEGEND**
- Slope Boundary
 - Proposed Tree Planting for Slope
 - Existing Tree on Slope
- NOTE:**
- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
 - LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
 - TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT
Tuen Mun -
Chek Lap Kok Link
Design and
Construction

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

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |

STATUS
階段

SCALE
比例

DIMENSION UNIT
尺寸單位

A1 1 : 500

KEY PLAN
索引圖

PROJECT NO.
項目編號
60240249

CONTRACT NO.
合約編號

SHEET TITLE
圖紙名稱
TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY

SHEET NUMBER
圖紙編號
TMCLKL/LM/067

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

Tree Compensation Outside Site Boundary (Penny's Bay)

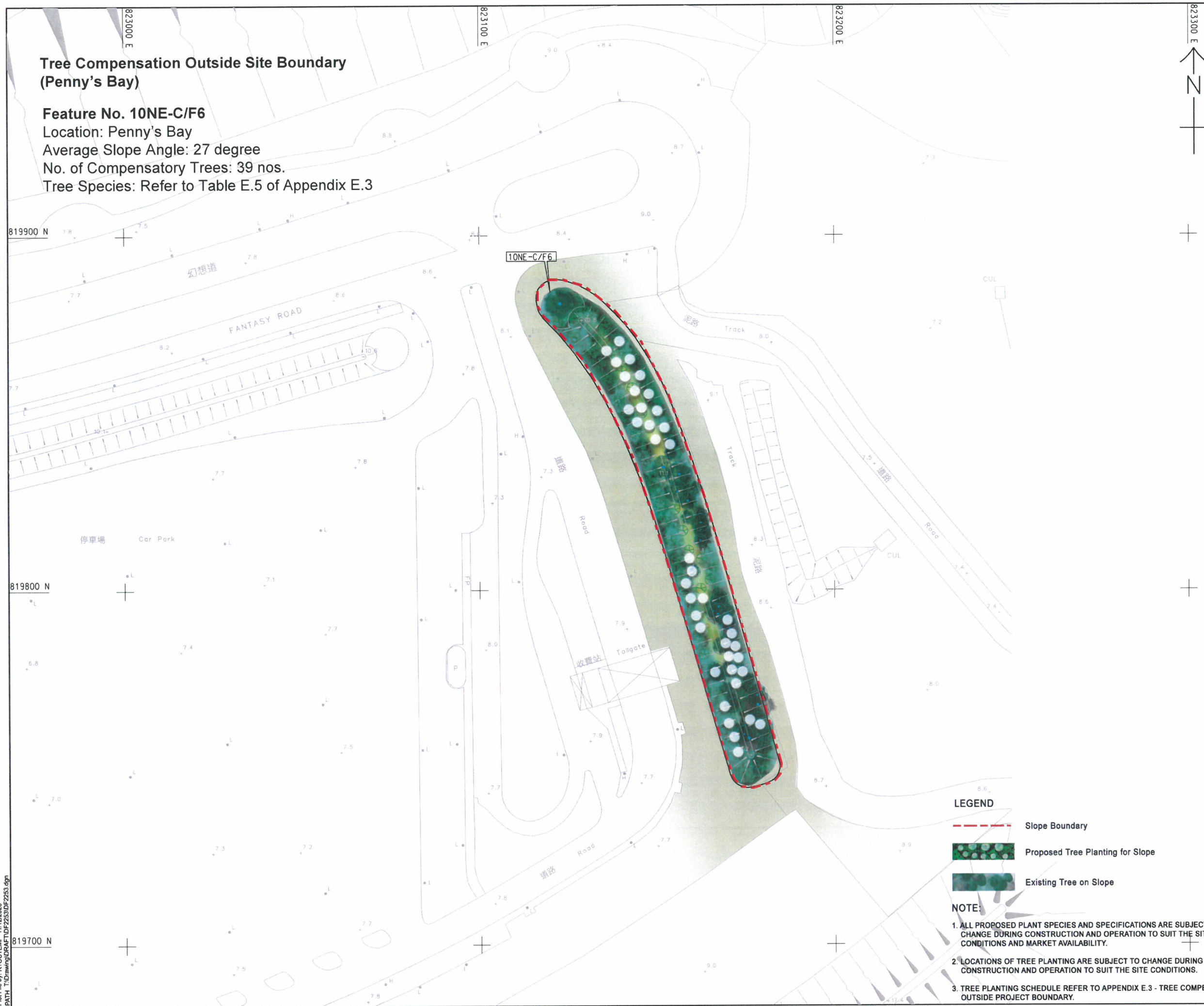
Feature No. 10NE-C/F6

Location: Penny's Bay

Average Slope Angle: 27 degree

No. of Compensatory Trees: 39 nos.

Tree Species: Refer to Table E.5 of Appendix E.3



LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT

路政署
HIGHWAYS DEPARTMENT
主要工程管理处 (特别职务)
Major Works Project Management Office
(Special Duties)

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|--------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |
| 修改 | 日期 | 内容描述 | 校核 |

STATUS

SCALE

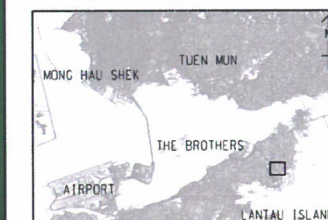
A1 1 : 500

DIMENSION UNIT

尺寸单位

KEY PLAN

索引图



PROJECT NO.

项目编号

60240249

CONTRACT NO.

合约编号

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- PENNY'S BAY

SHEET NUMBER

图则编号

TMCLKL/LM/068

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
15/Mar/2021
Plot File by: rloc1
PATH T:\Drawing\DRG\TUNF2540F254A.dgn

Tree Compensation Outside Site Boundary (Tung Chung)

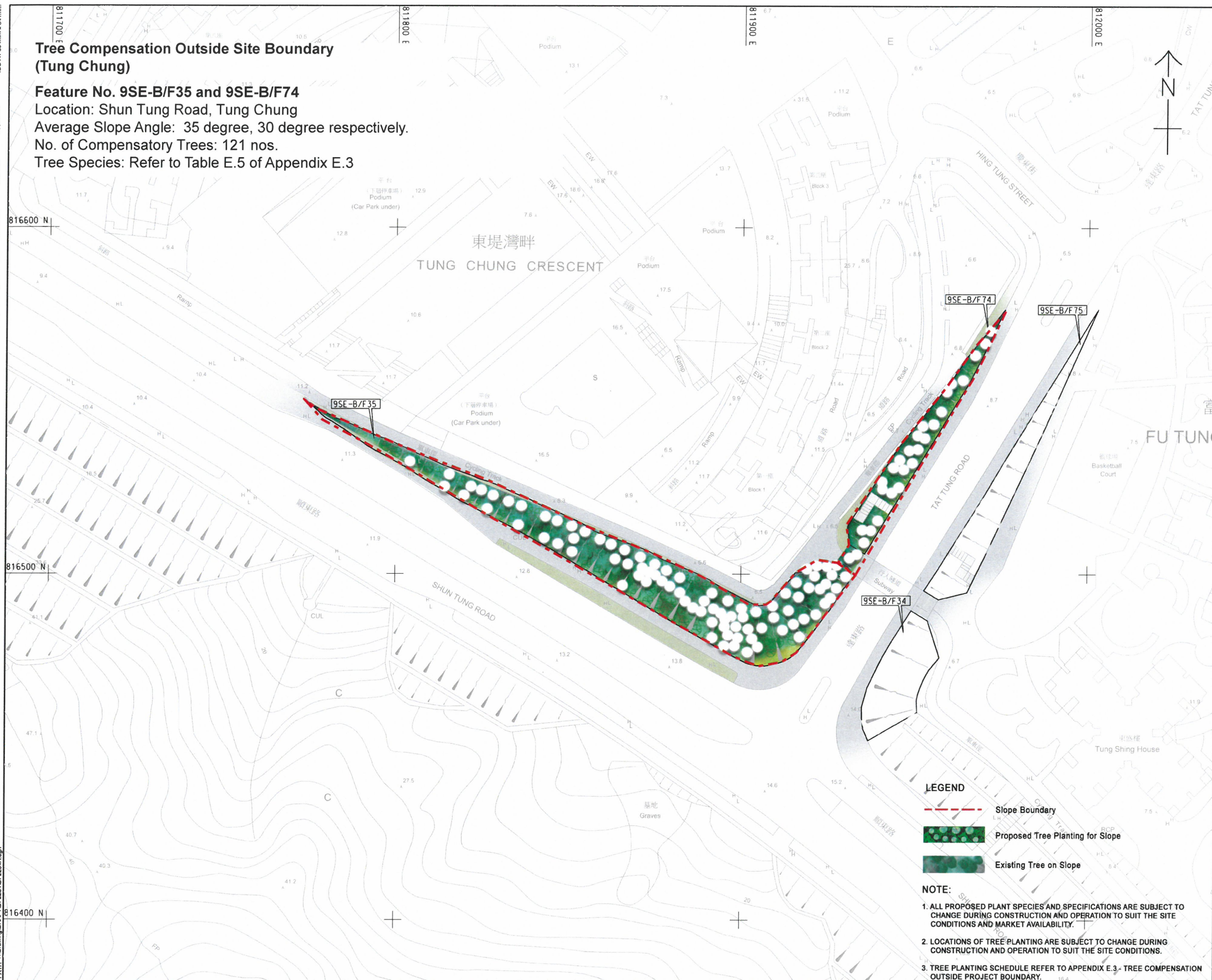
Feature No. 9SE-B/F35 and 9SE-B/F74

Location: Shun Tung Road, Tung Chung

Average Slope Angle: 35 degree, 30 degree respectively.

No. of Compensatory Trees: 121 nos.

Tree Species: Refer to Table E.5 of Appendix E.3



LEGEND

- Slope Boundary
- Proposed Tree Planting for Slope
- Existing Tree on Slope

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS AND MARKET AVAILABILITY.
- LOCATIONS OF TREE PLANTING ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- TREE PLANTING SCHEDULE REFER TO APPENDIX E.3 - TREE COMPENSATION OUTSIDE PROJECT BOUNDARY.

AECOM

PROJECT

TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

分判工程顧問公司

ISSUE/REVISION

| NO. | DATE | DESCRIPTION | CHK. |
|-----|---------|---------------|------|
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR. 21 | SLOPES UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |

STATUS

凍結

SCALE

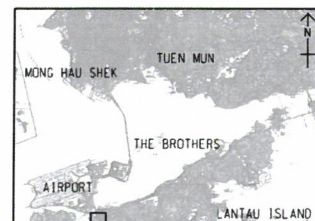
比例
A1 1:500

DIMENSION UNIT

尺寸單位
公尺/呎

KEY PLAN

索引圖



PROJECT NO.

項目編號
60240249

CONTRACT NO.

合約編號

SHEET TITLE

TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- TUNG CHUNG

SHEET NUMBER

圖號

TMCLKL/LM/069



AECOM

PROJECT
TUEN MUN -
CHEK LAP KOK LINK
DESIGN AND
CONSTRUCTION

CLIENT
路政署
HIGHWAYS DEPARTMENT
主要工程署 (專責事務)
Major Works Project Management Office
(Special Duties)

CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

| ISSUE/REVISION | | | |
|----------------|--------|---------------|------|
| NO. | DATE | DESCRIPTION | CHK. |
| B | AUG 24 | SLOPES UPDATE | EC |
| A | MAR 21 | SLOPES UPDATE | CL |
| I/R | DATE | DESCRIPTION | CHK. |

STATUS

SCALE
A1 1 : 500

KEY PLAN



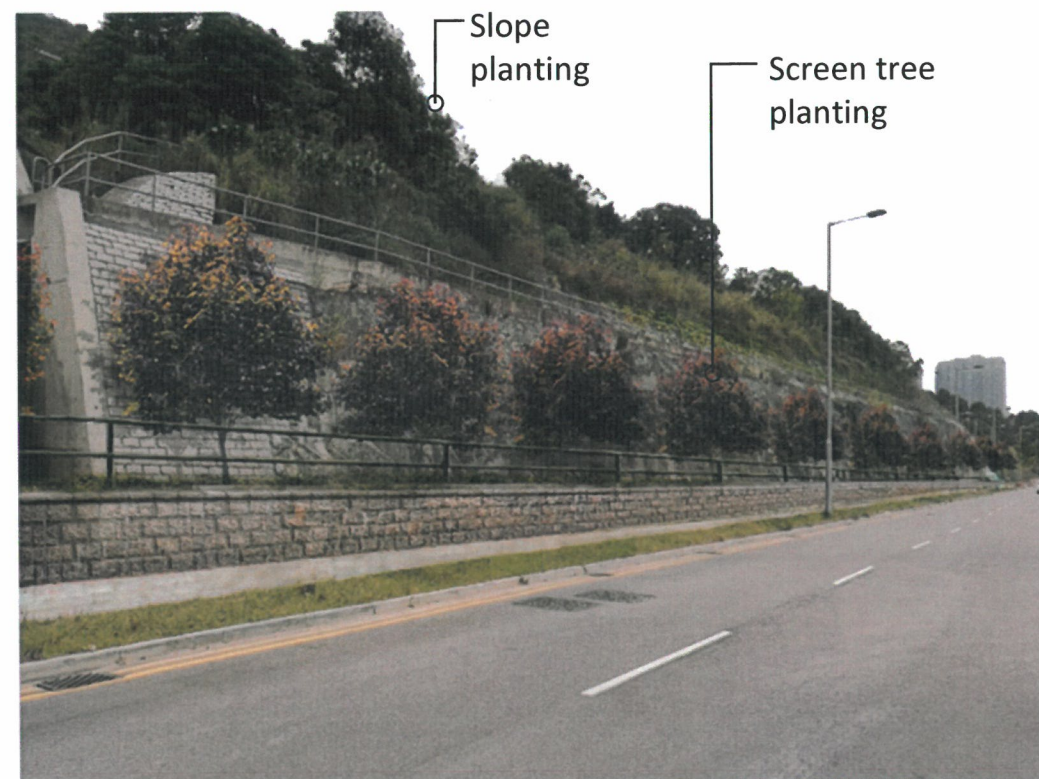
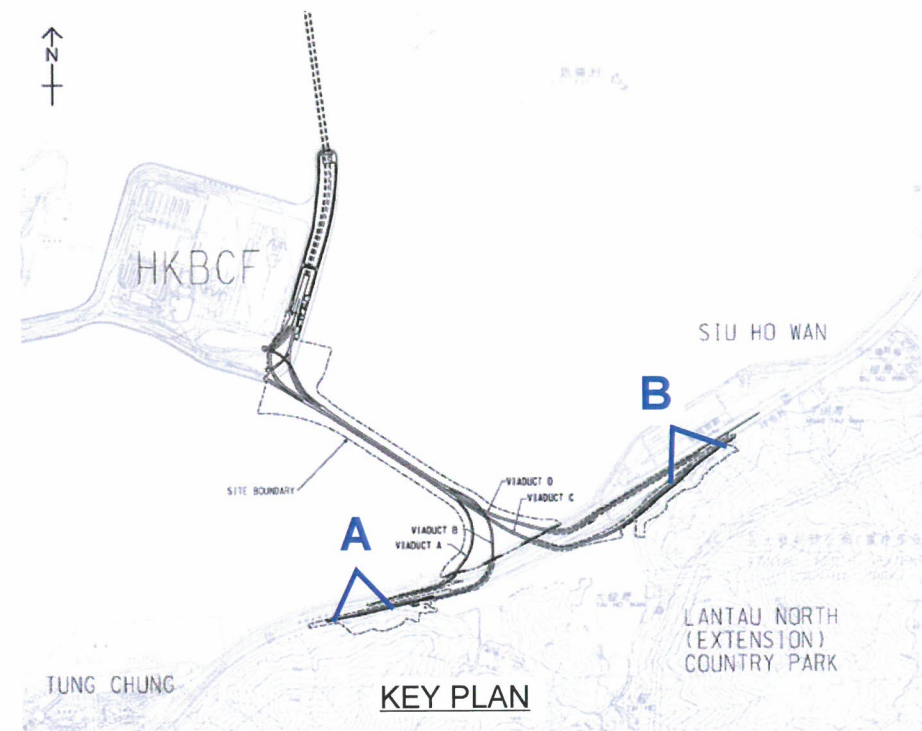
PROJECT NO.
60240249

SHEET TITLE
TREE COMPENSATION OUTSIDE
PROJECT BOUNDARY
- TUNG CHUNG

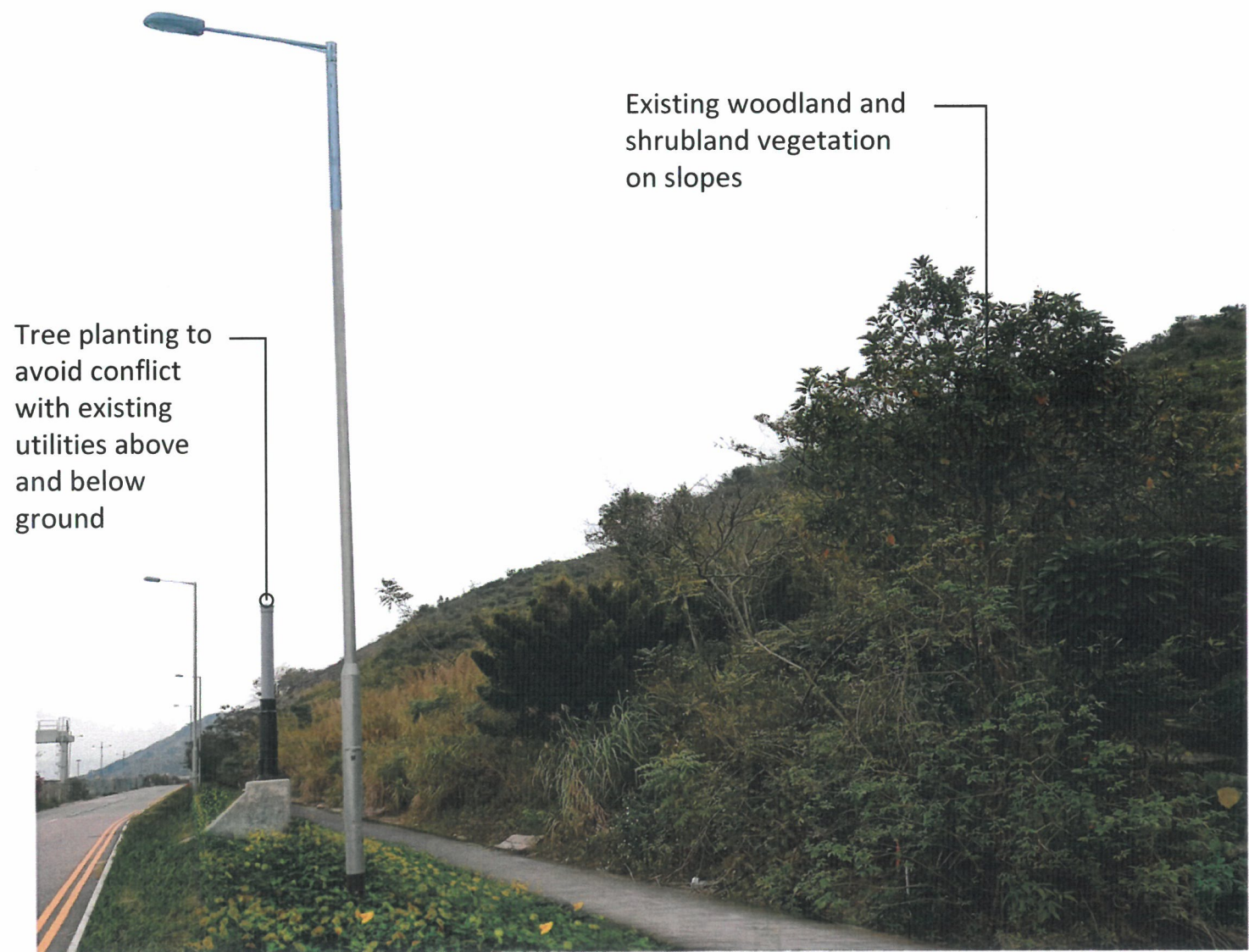
SHEET NUMBER
TMCLKL/LM/070

Appendix F

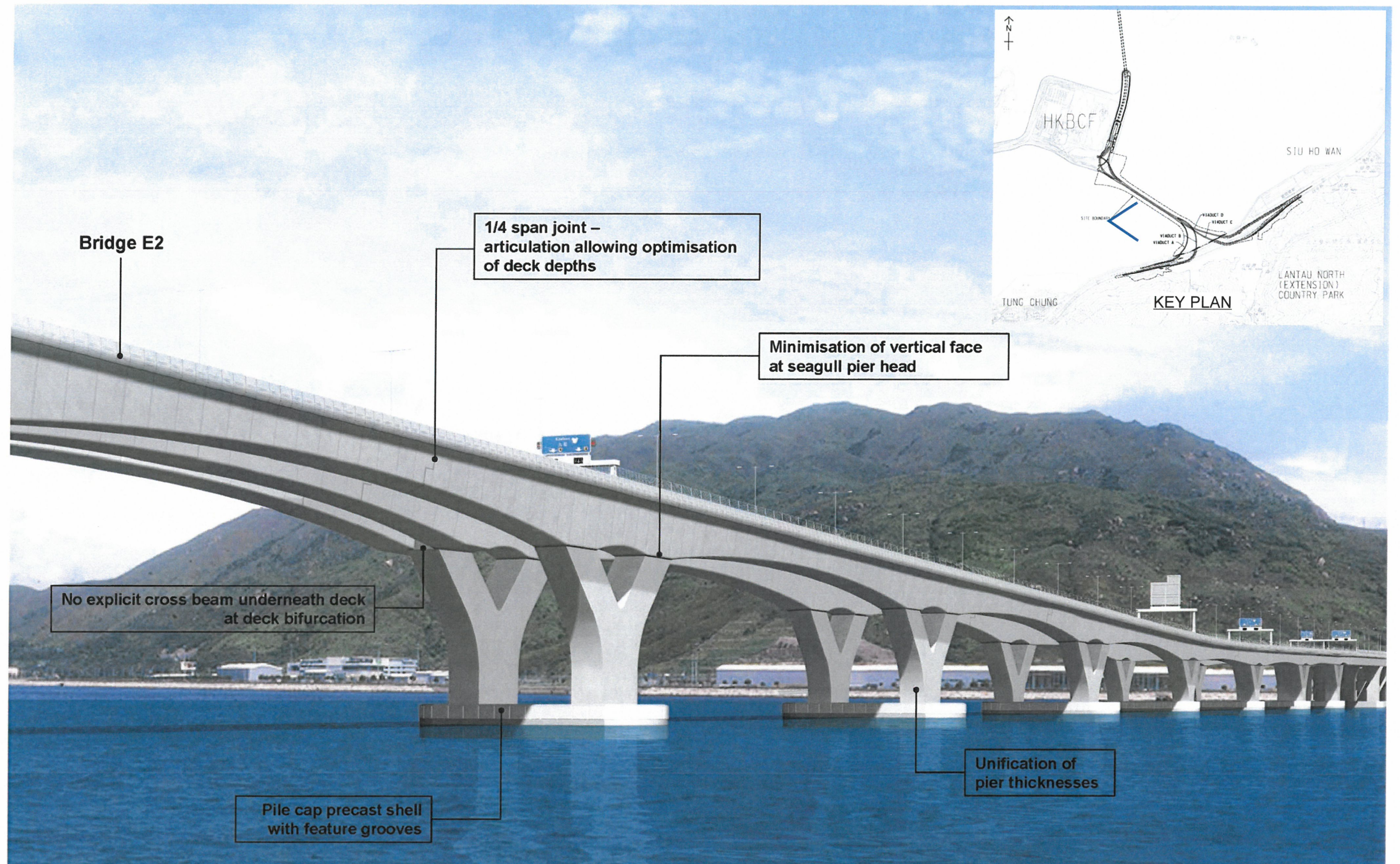
Implementation of Mitigation Measures



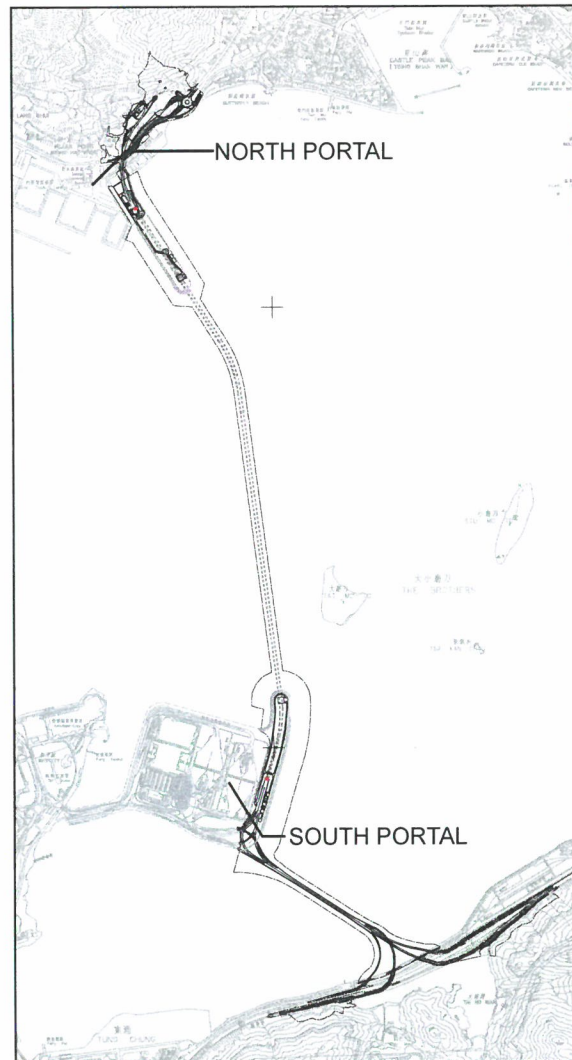
A - SCREEN TREE PLANTING AND SLOPE PLANTING
ALONG CHEUNG TUNG ROAD



B - ROADSIDE PLANTING AND ADJACENT SLOPES WITH EXISTING WOODLAND AND
SHRUBLAND ALONG CHEUNG TUNG ROAD



THE VIADUCT AND SEAGULL PIERS
 (reference to ACABAS Submission - General Design Submission Package AP09.00 - Ref: J3518/OAP/PDR/004 Rev.A)



KEY PLAN

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 entrance

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 retaining wall creates a sense of dynamics to the drivers.

Smooth Concrete (KEIM Concretal C 9432)

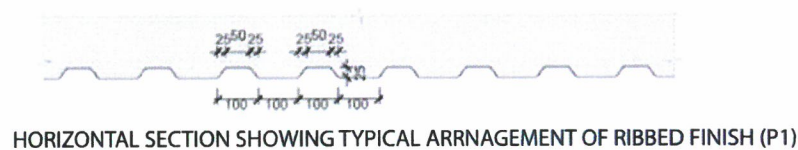
created using F4 formwork with panels defined by grooves

Smooth Concrete (KEIM Concretal C 9435)

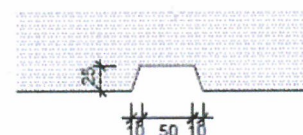
created using F4 formwork with panels defined by grooves

Ribbed Finish

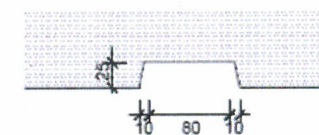
Applying F5 specialist formwork. The ribs will be vertical (to encourage water run-off) and all faces of the ribs will be smooth.



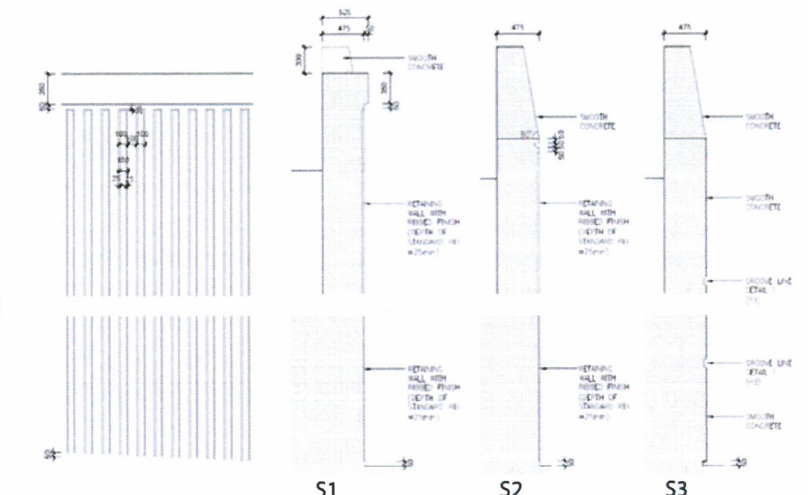
HORIZONTAL SECTION SHOWING TYPICAL ARRANGEMENT OF RIBBED FINISH (P1)



GROOVE LINE DETAIL 1 (P3)



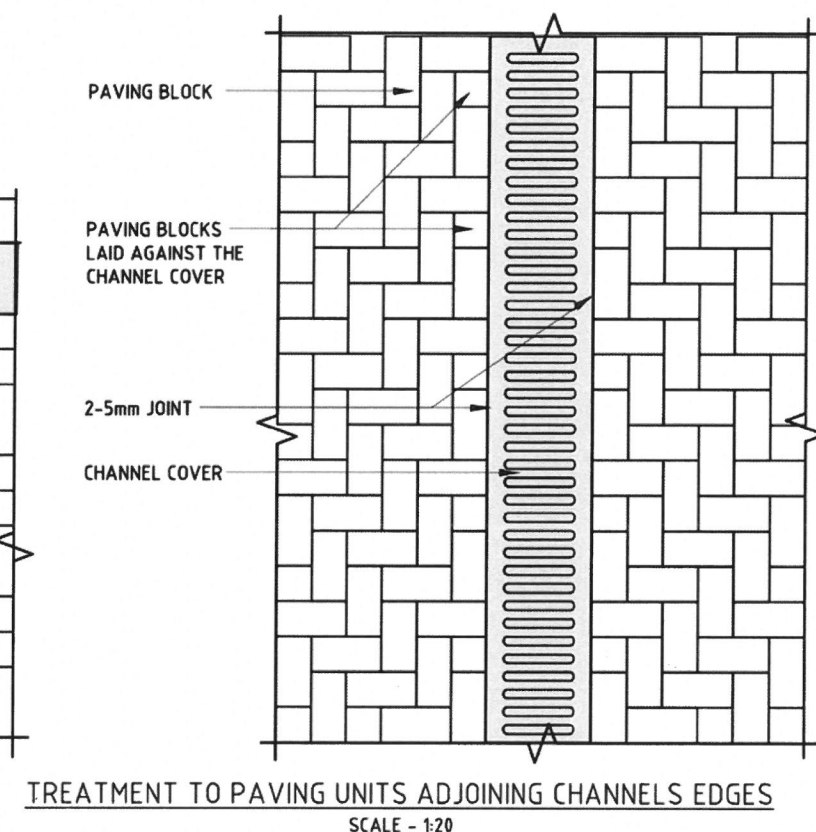
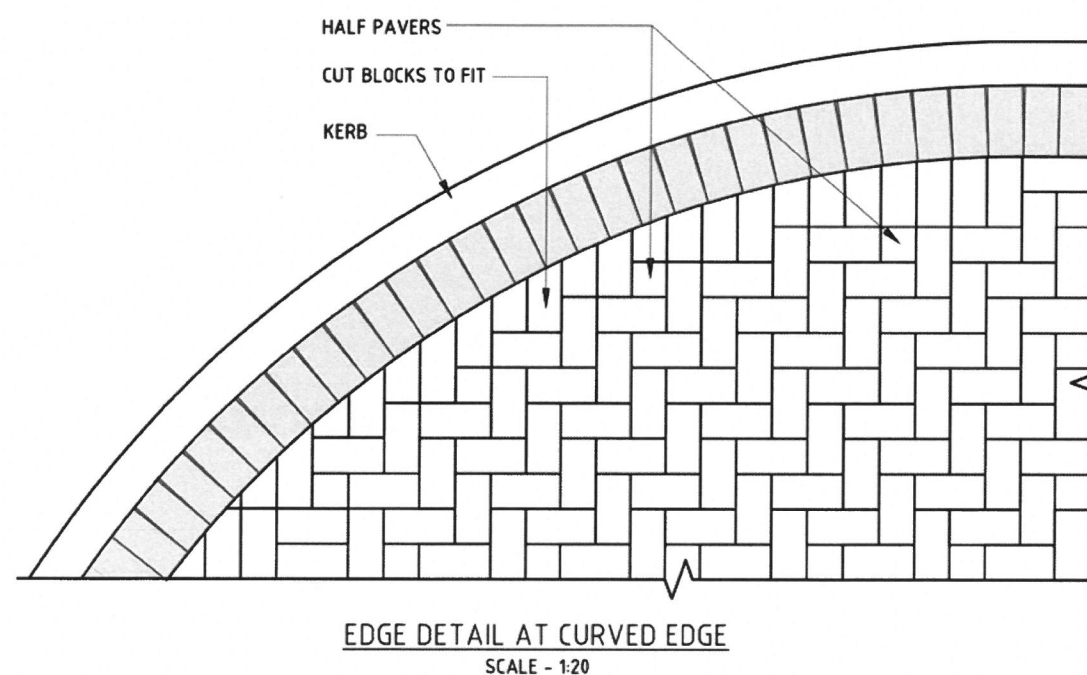
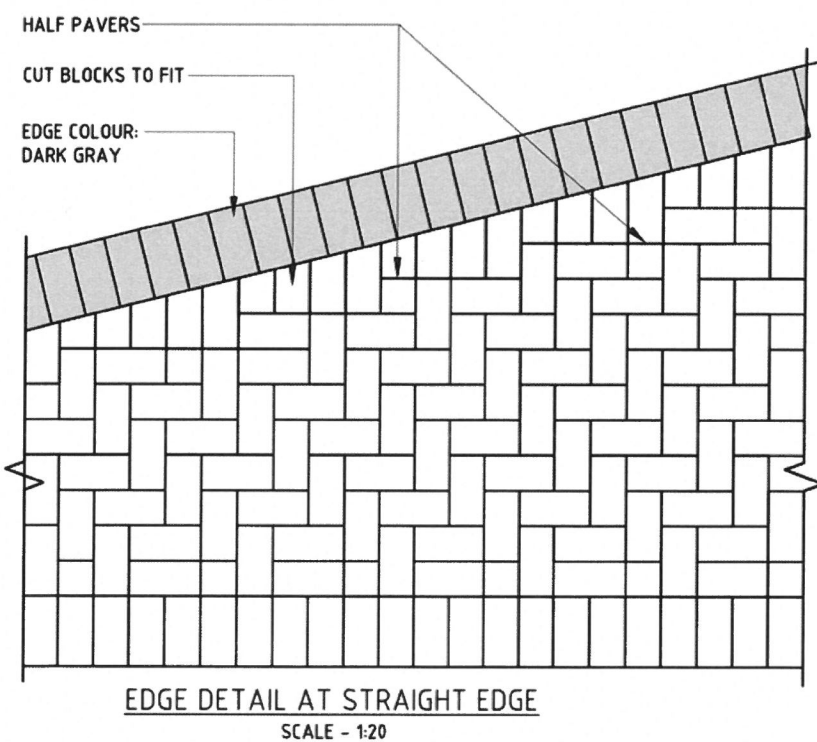
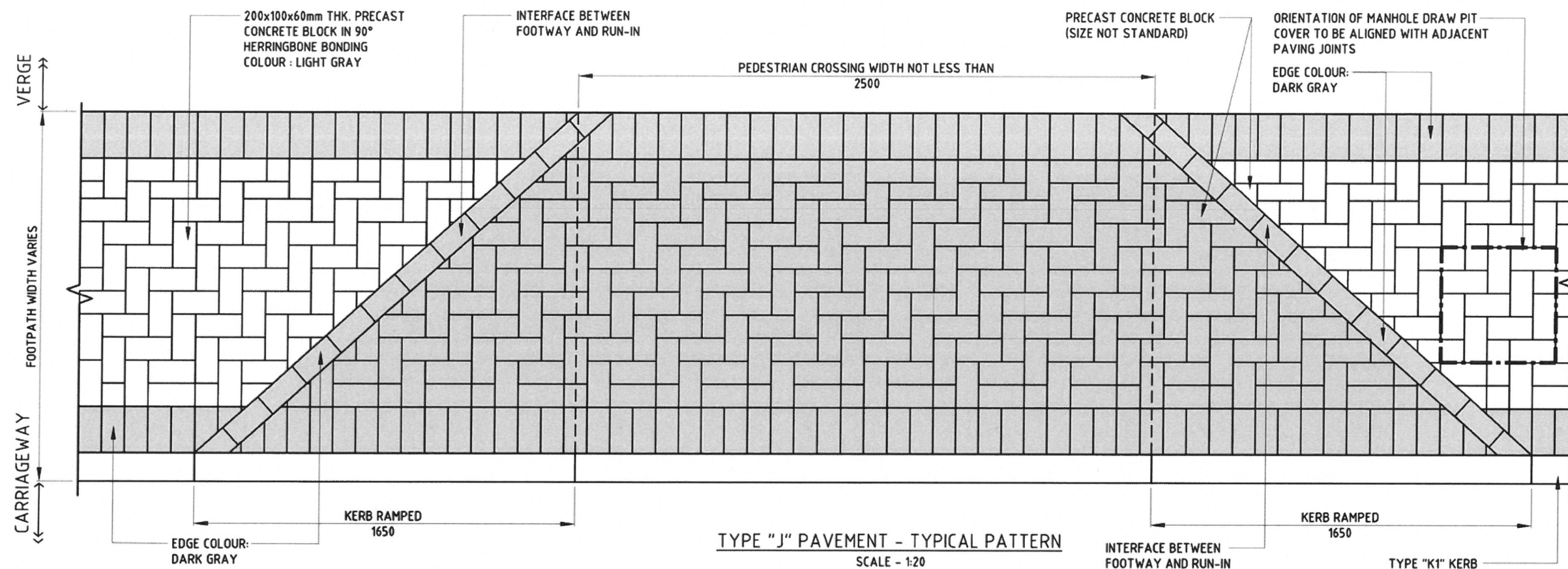
GROOVE LINE DETAIL 2 (P4)

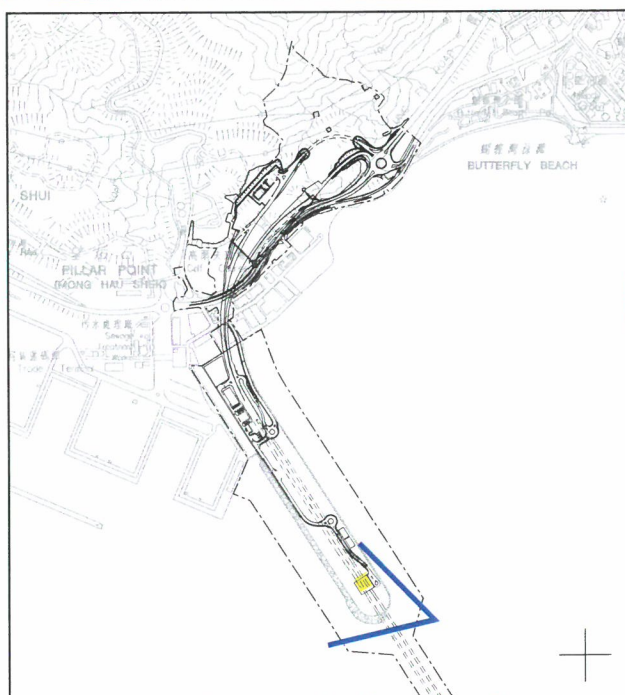


DETAILS OF RIBBED FINISH ON RETAINING WALL



(reference to ACABAS submission for North & South Tunnel Portals: Rev. D)





Key Plan



(reference to Aesthetic Design Submission Stage 2)

*Artistic Impression



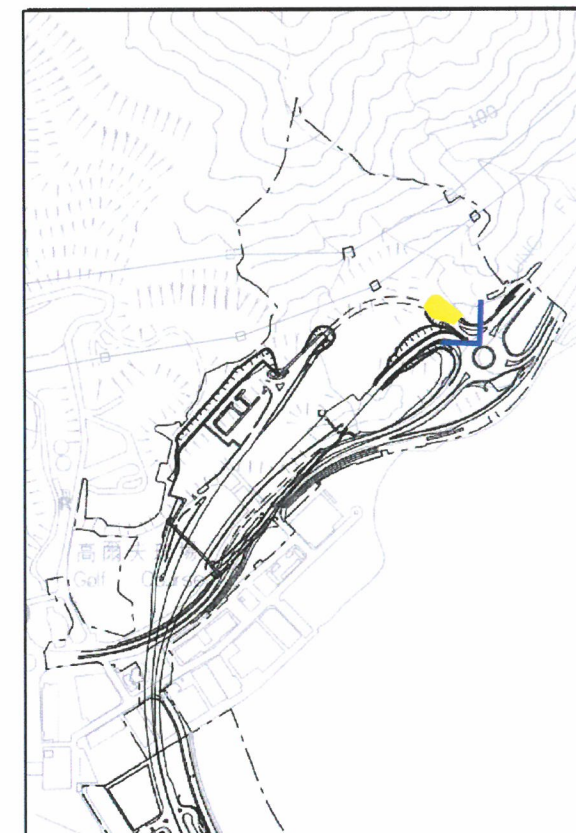
Key Plan



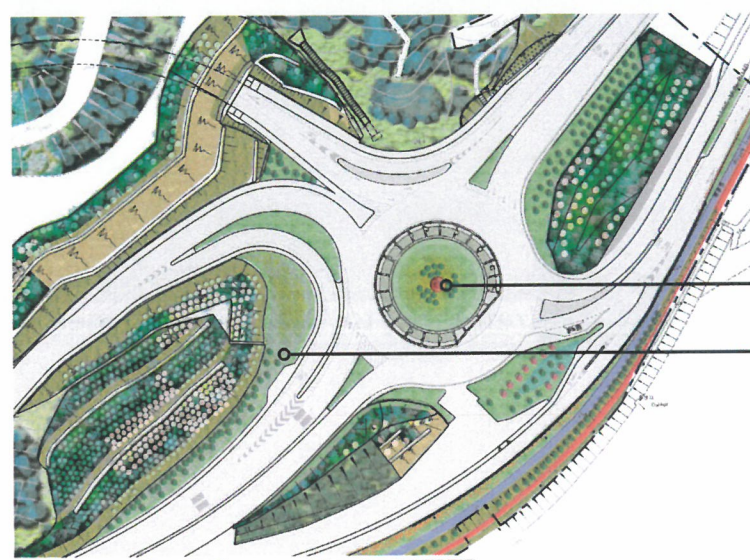
Vitreous Enamel (VE) Panel



(reference to ACABAS 410th meeting)



Key Plan



Delonix regia 鳳凰木

Phoenix roebelenii 日本葵



Key Plan



(reference to ACABAS 411th meeting)



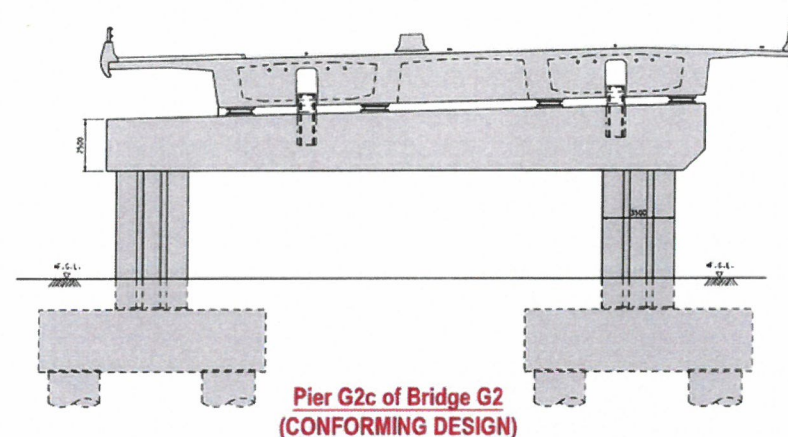
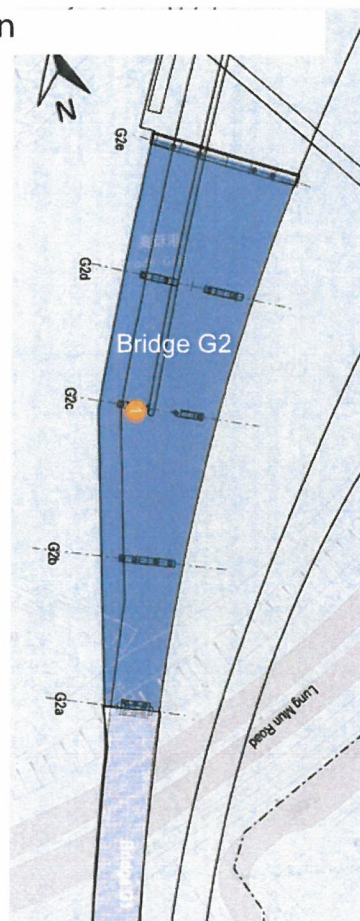
Key Plan



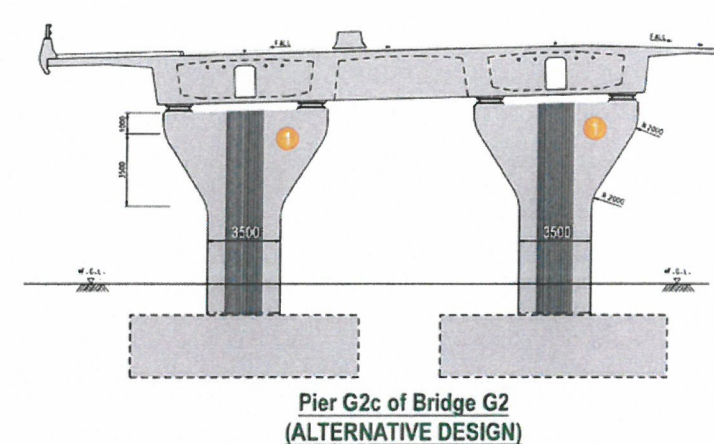
(reference to ACABAS 319th meeting)



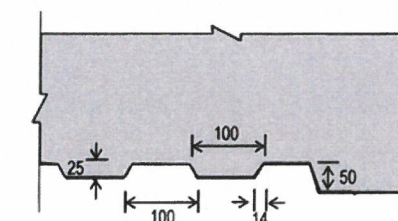
Key Plan



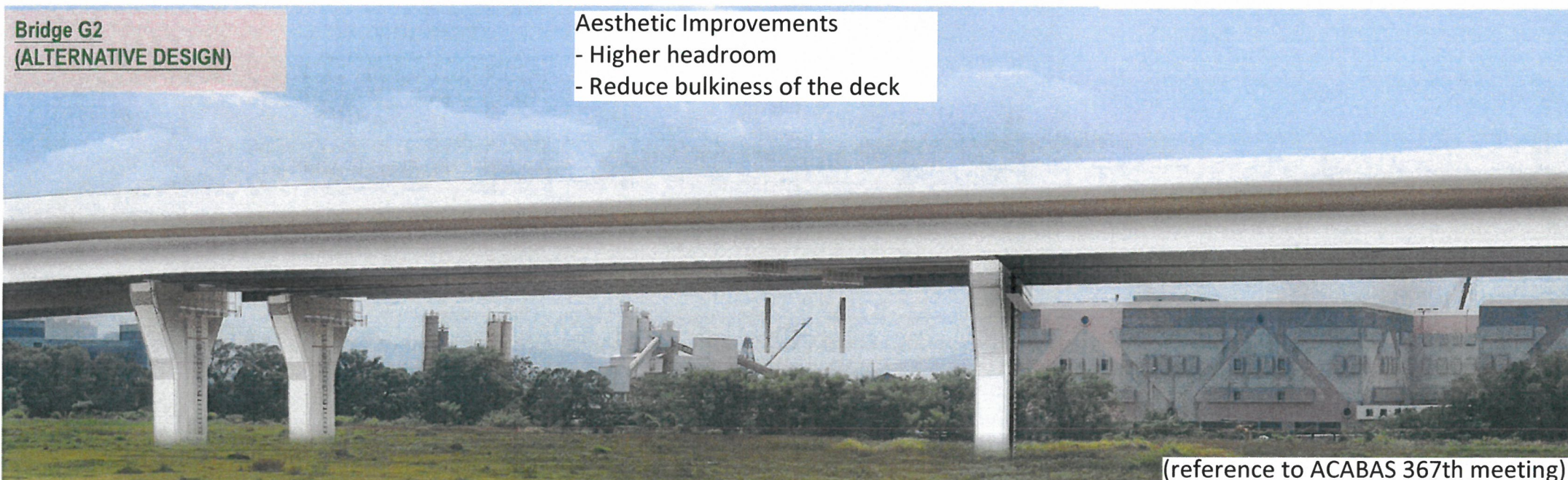
Pier G2c of Bridge G2
(CONFORMING DESIGN)



Pier G2c of Bridge G2
(ALTERNATIVE DESIGN)



Pier Finish Details
(Same as other piers of G2 in the approved Conforming Design)



Bridge G2
(ALTERNATIVE DESIGN)

Aesthetic Improvements
- Higher headroom
- Reduce bulkiness of the deck

(reference to ACABAS 367th meeting)



Key Plan

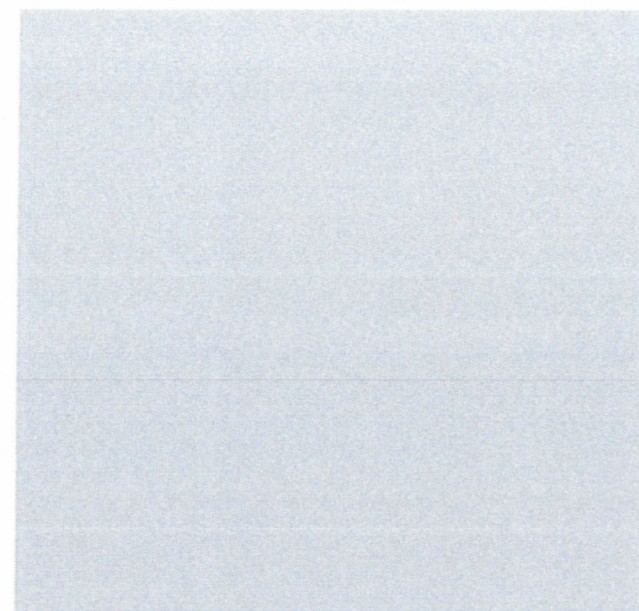
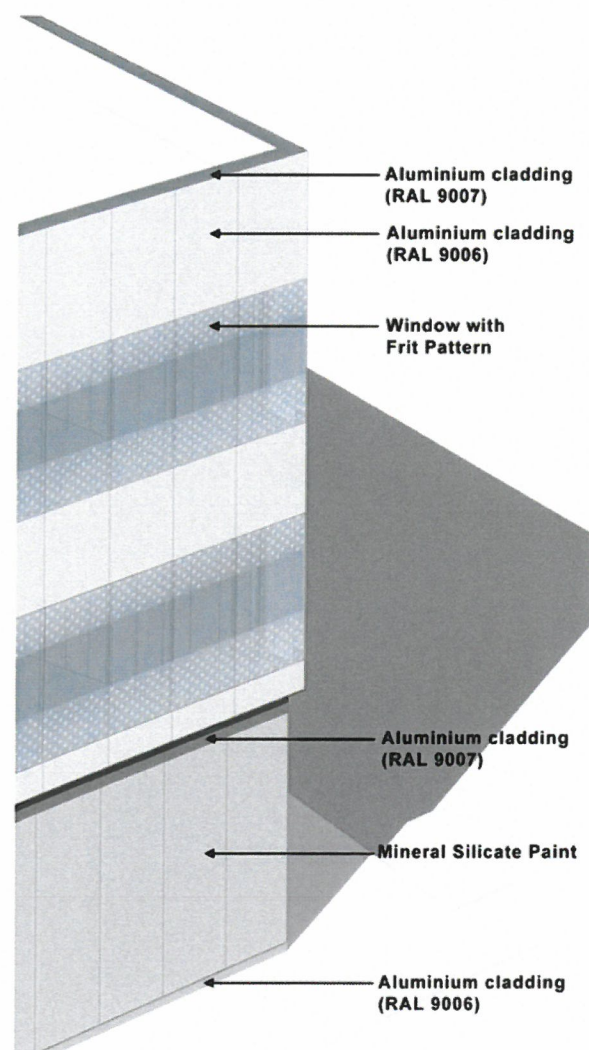


Paving bands in rhythm
dark grey and light grey pattern





Key Plan



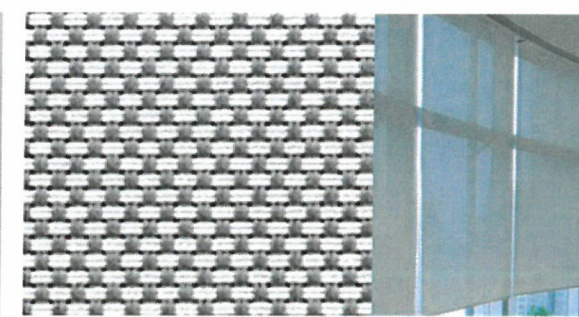
Aluminium Cladding (RAL9006)



Mineral Silicate Paint



Aluminium Cladding (RAL9007)



Vertical Blind



Stainless Steel in Satin Finish



Roof Floor Tiles

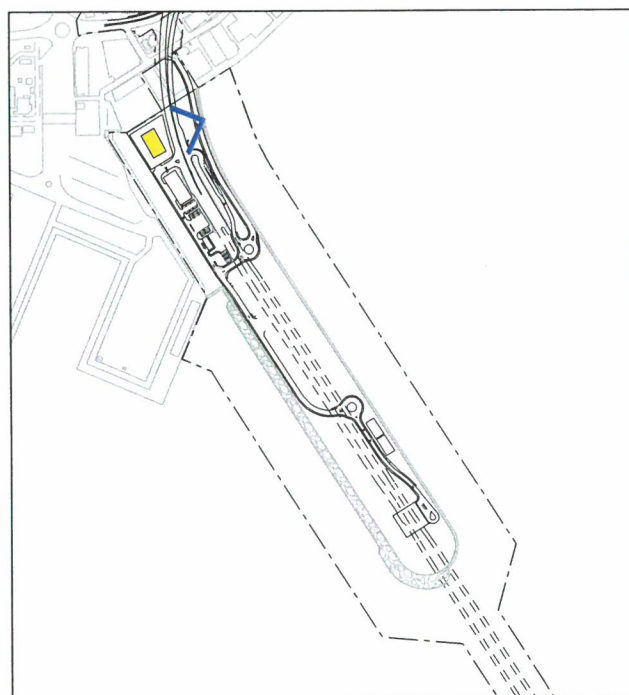


Windows with Frit Pattern

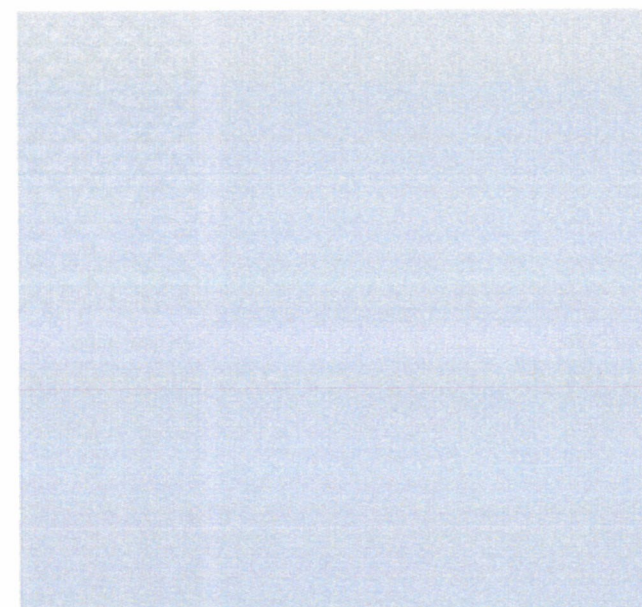
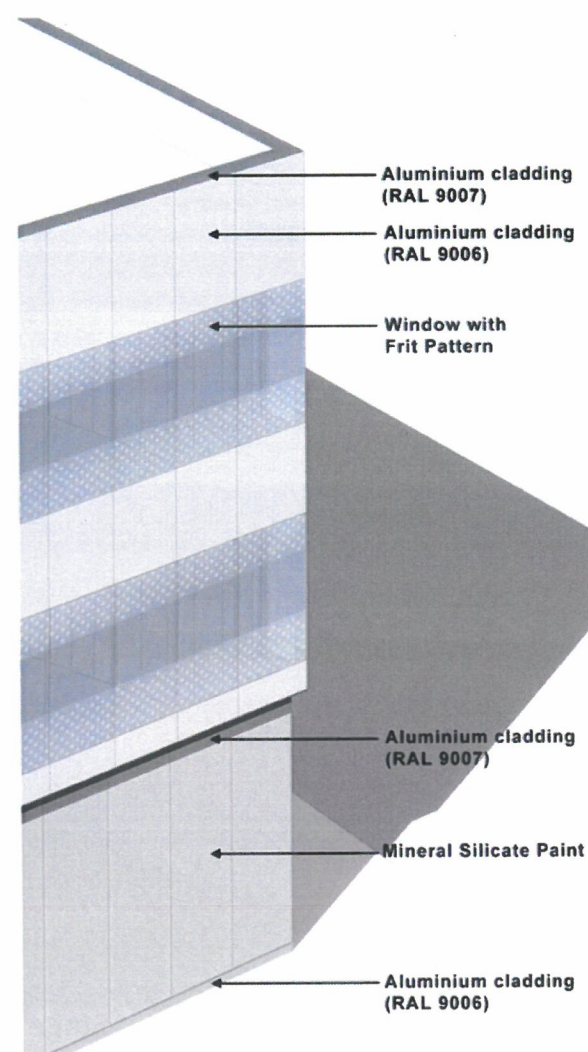


*Artistic Impression

(reference to Aesthetic Design Submission Stage 2)



Key Plan



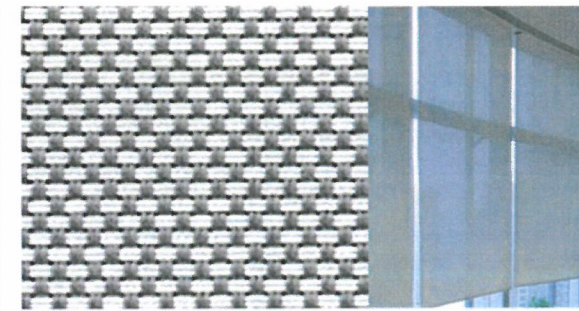
Aluminium Cladding (RAL9006)



Mineral Silicate Paint



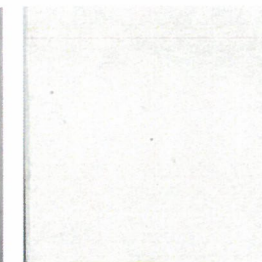
Aluminium Cladding (RAL9007)



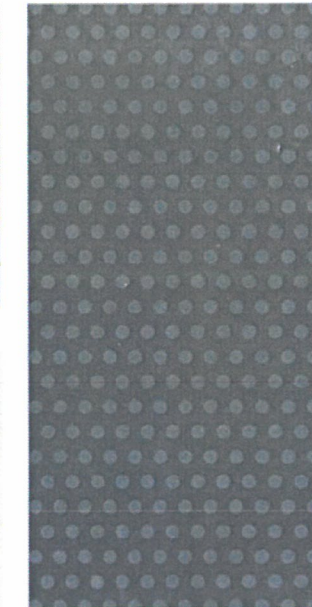
Vertical Blind



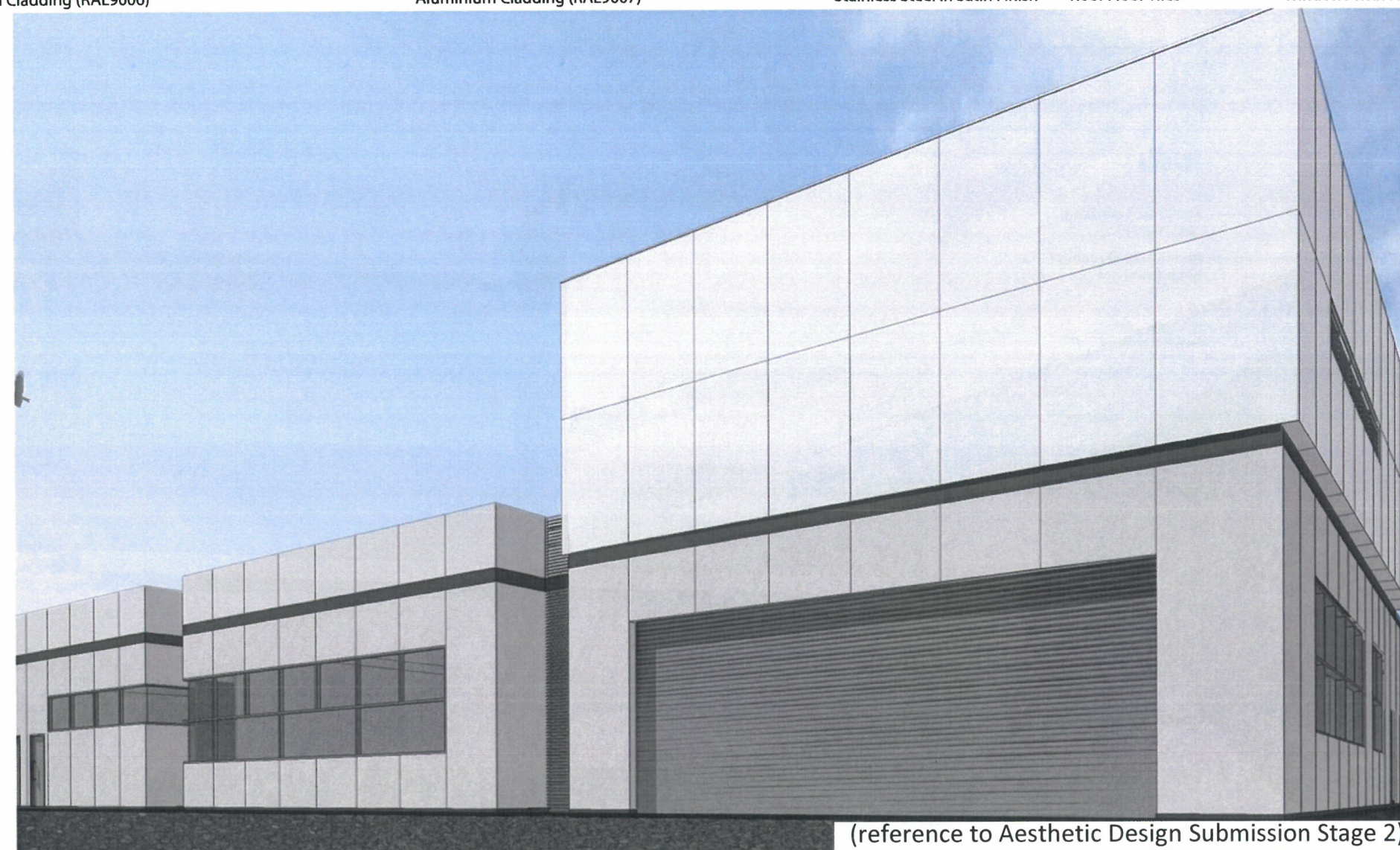
Stainless Steel in Satin Finish



Roof Floor Tiles

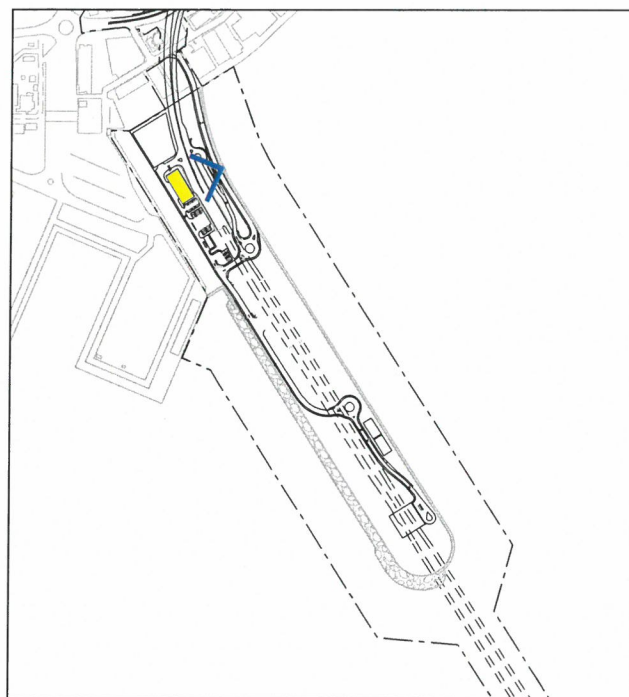


Windows with Frit Pattern

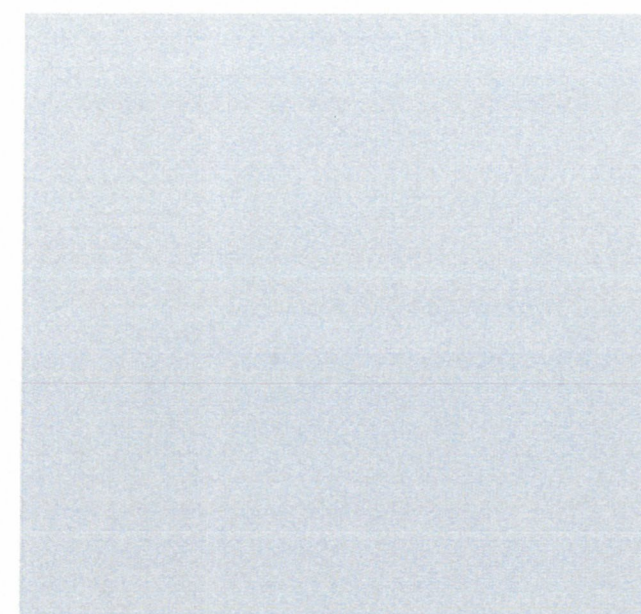
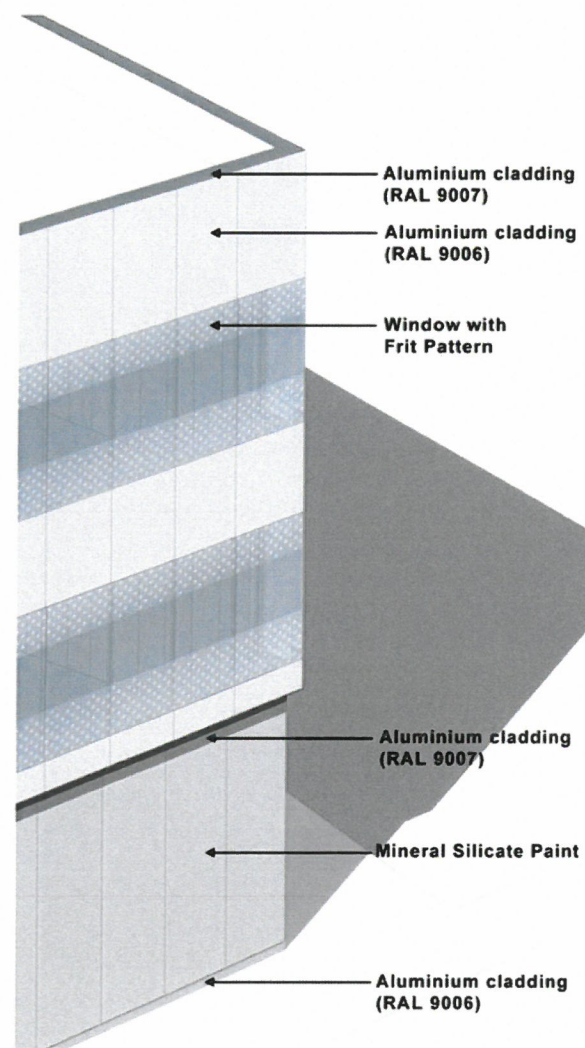


(reference to Aesthetic Design Submission Stage 2)

*Artistic Impression



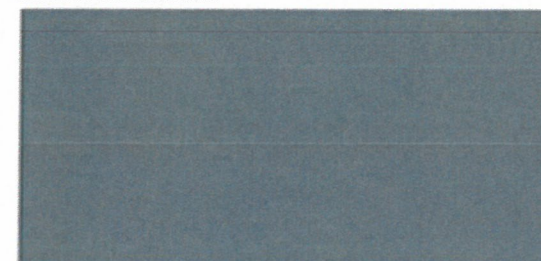
Key Plan



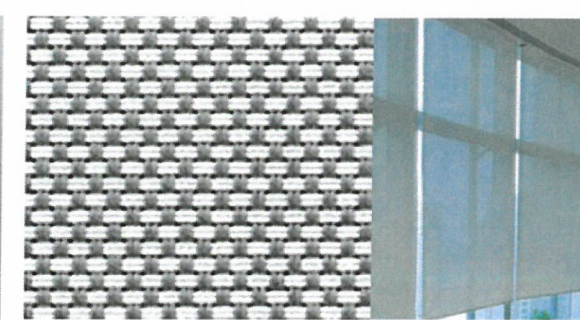
Aluminium Cladding (RAL9006)



Mineral Silicate Paint



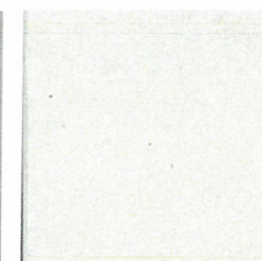
Aluminium Cladding (RAL9007)



Vertical Blind



Stainless Steel in Satin Finish



Roof Floor Tiles

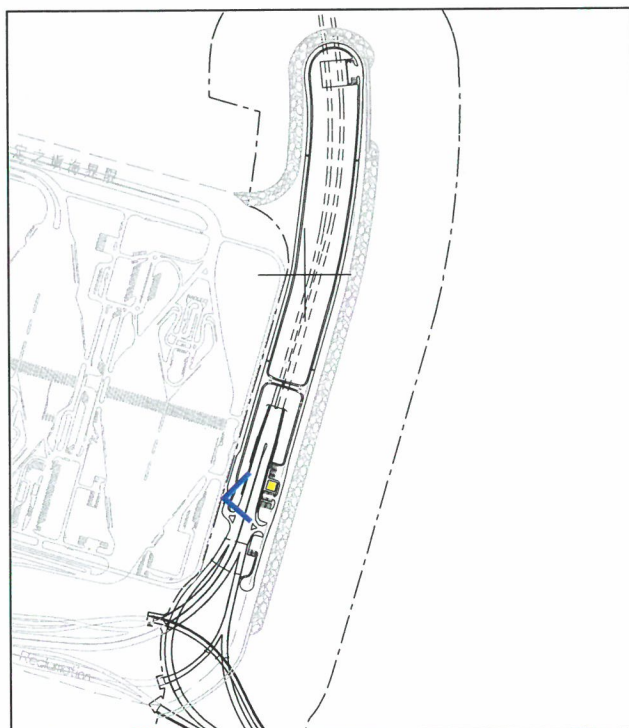


Windows with Frit Pattern

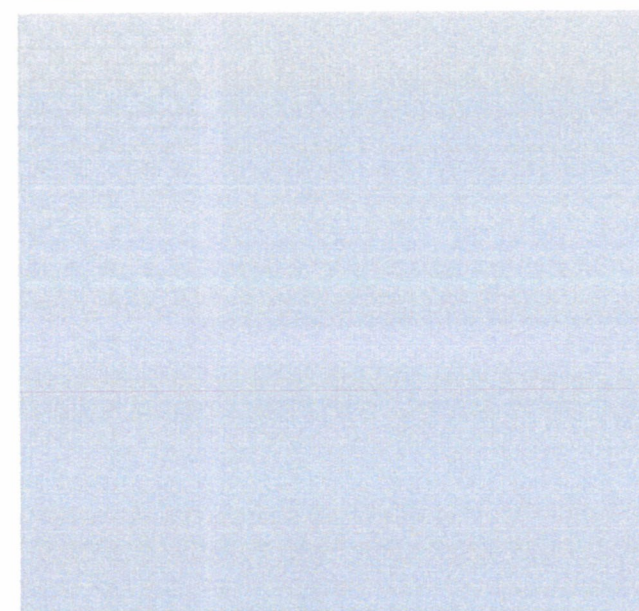
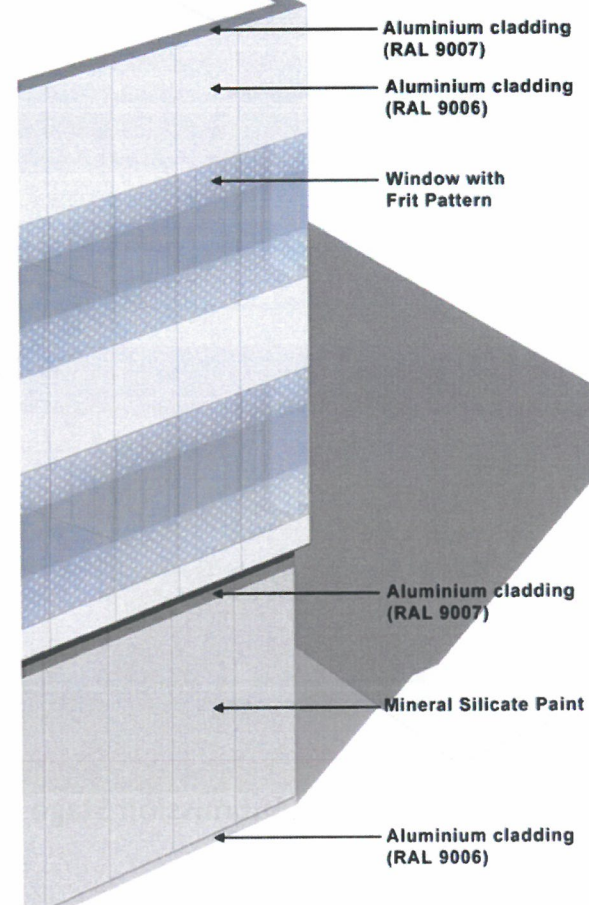


(reference to Aesthetic Design Submission Stage 2)

*Artistic Impression



Key Plan



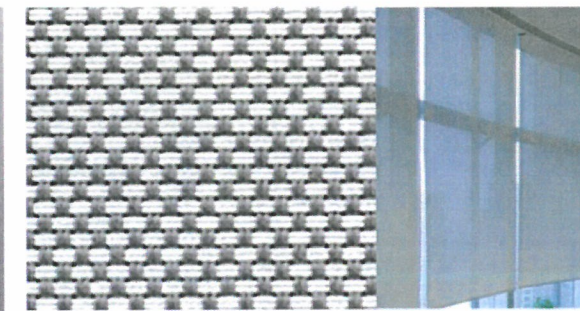
Aluminium Cladding (RAL9006)



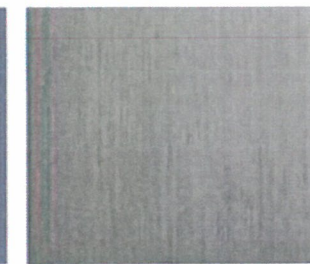
Mineral Silicate Paint



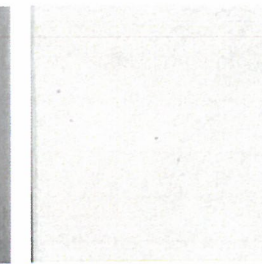
Aluminium Cladding (RAL9007)



Vertical Blind



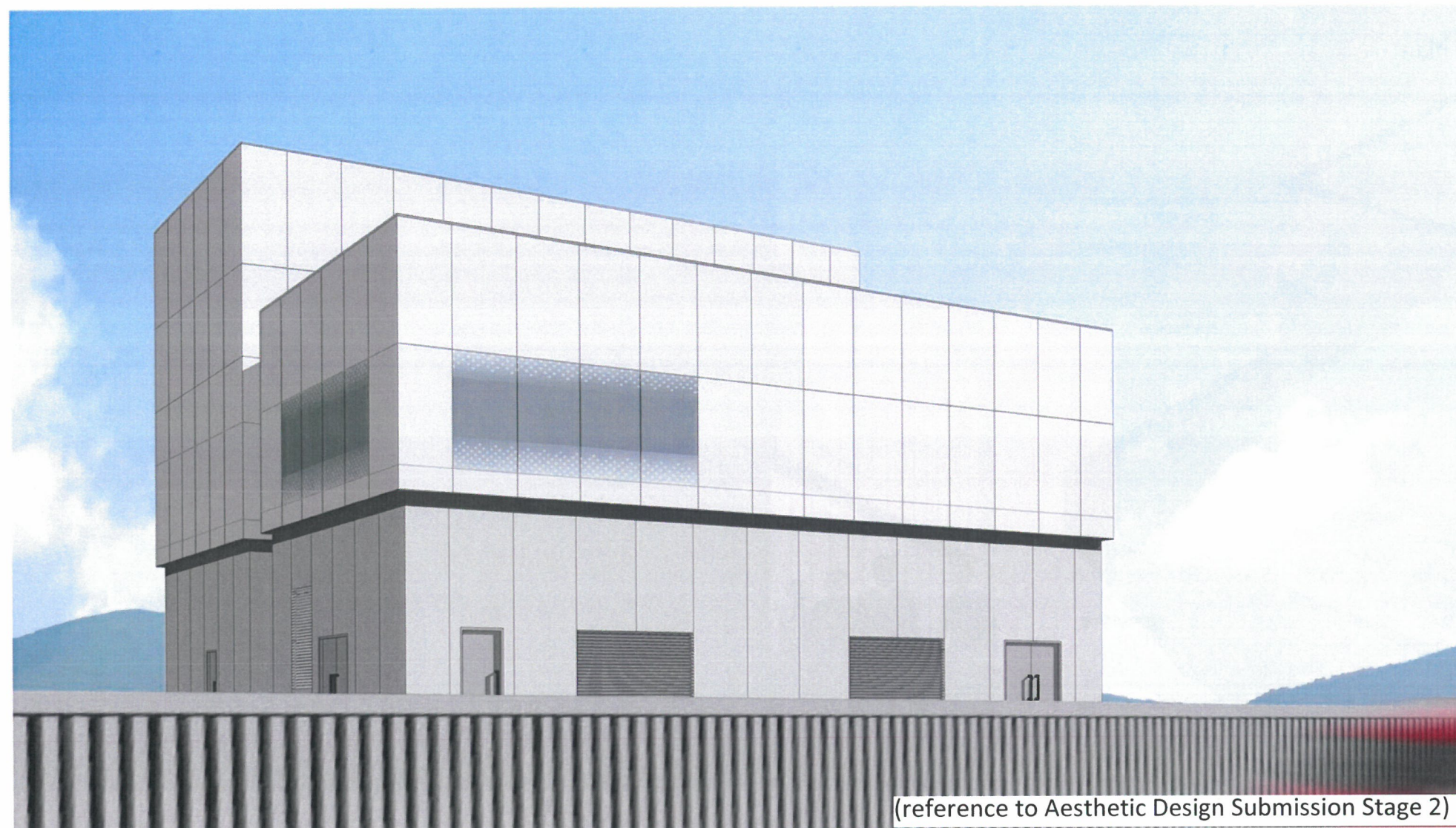
Stainless Steel in Satin Finish

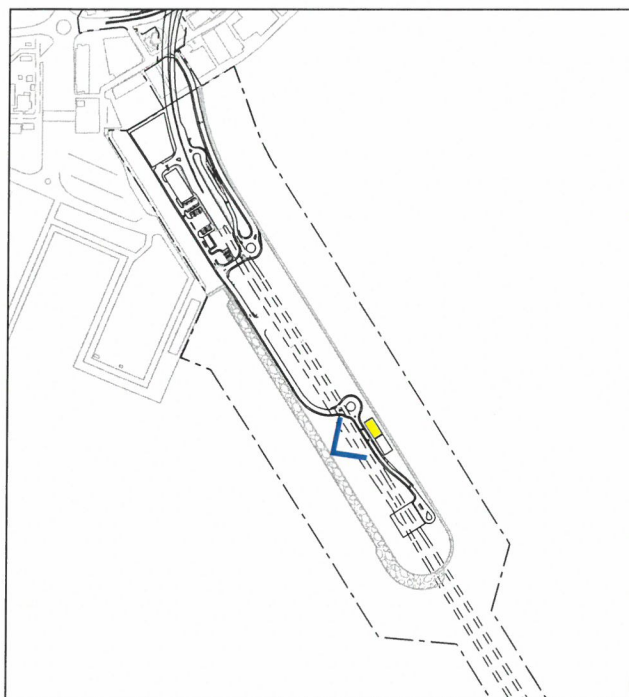


Roof Floor Tiles

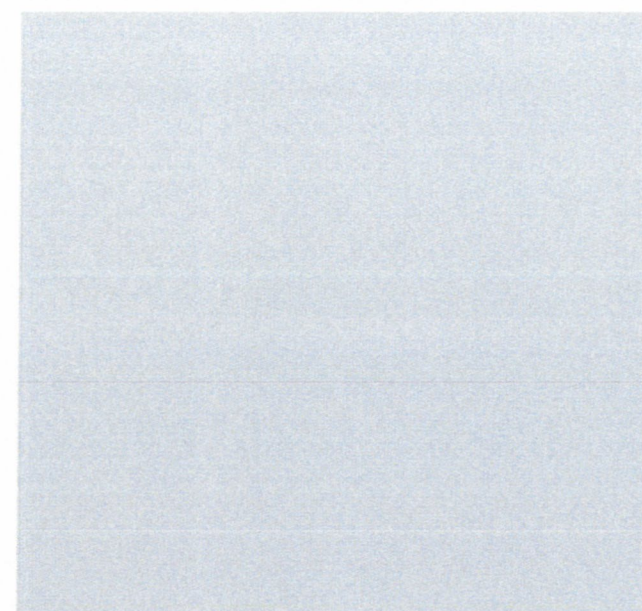
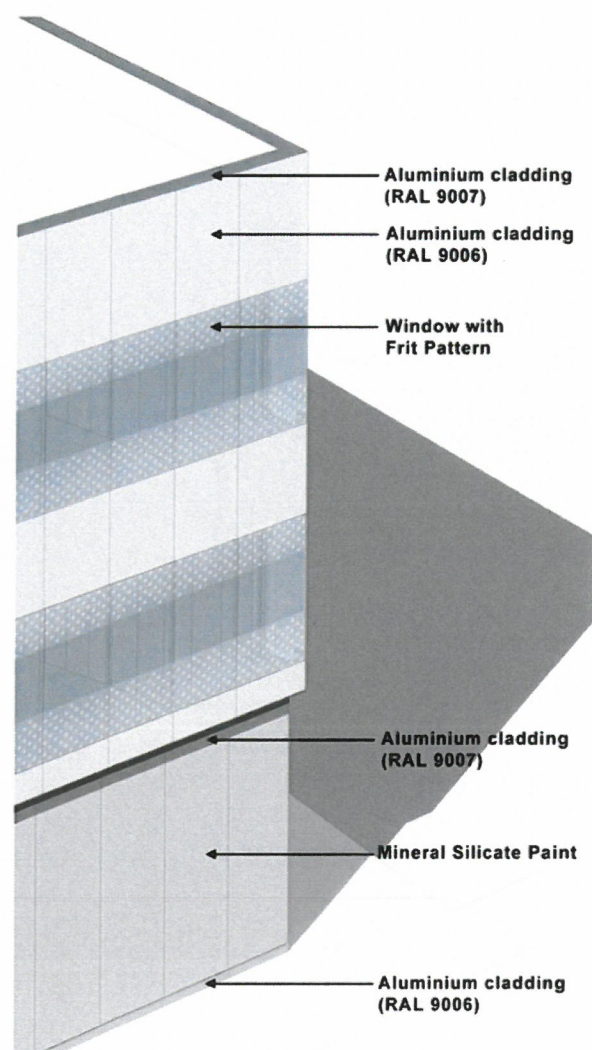


Windows with Frit Pattern

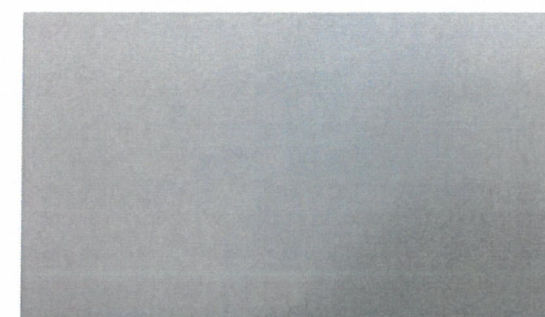




Key Plan



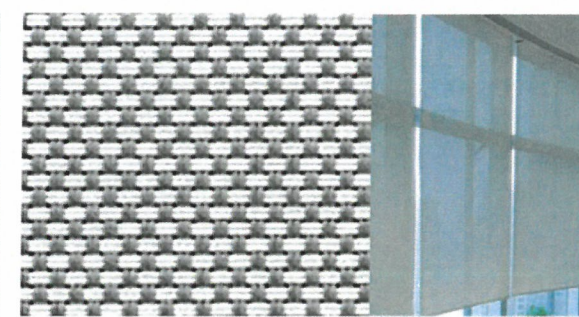
Aluminium Cladding (RAL9006)



Mineral Silicate Paint



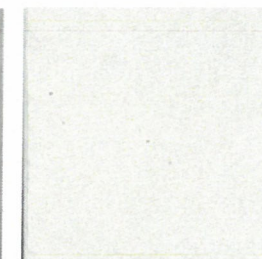
Aluminium Cladding (RAL9007)



Vertical Blind



Stainless Steel in Satin Finish



Roof Floor Tiles

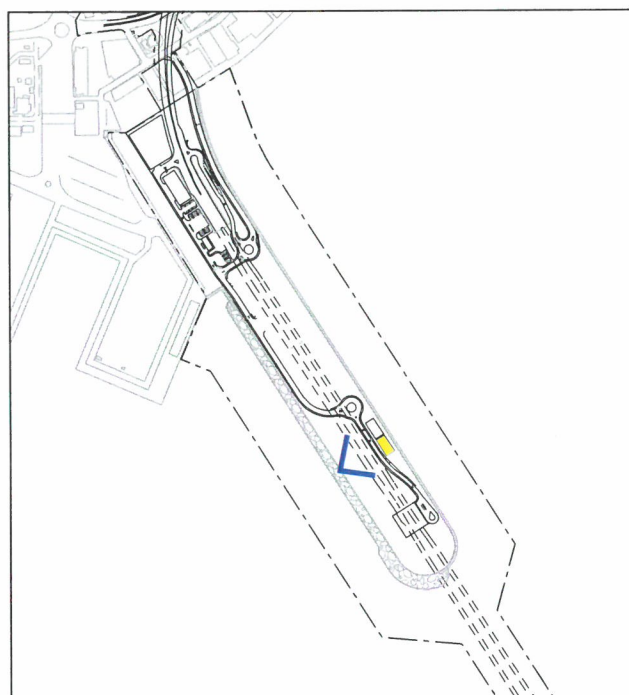


Windows with Frit Pattern

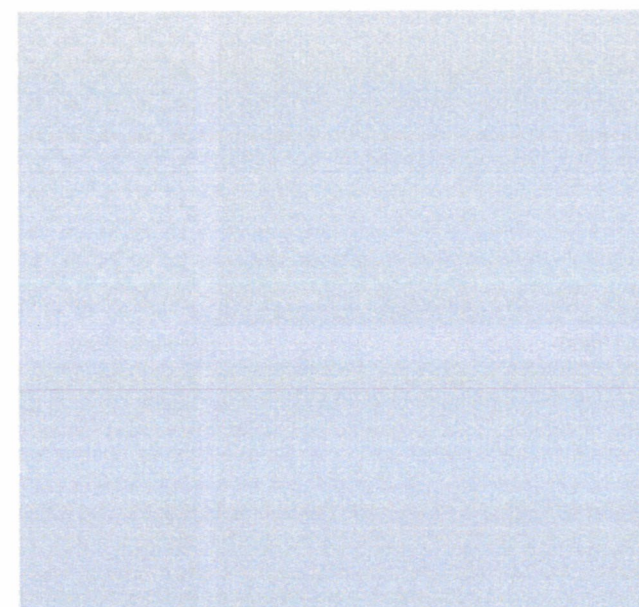
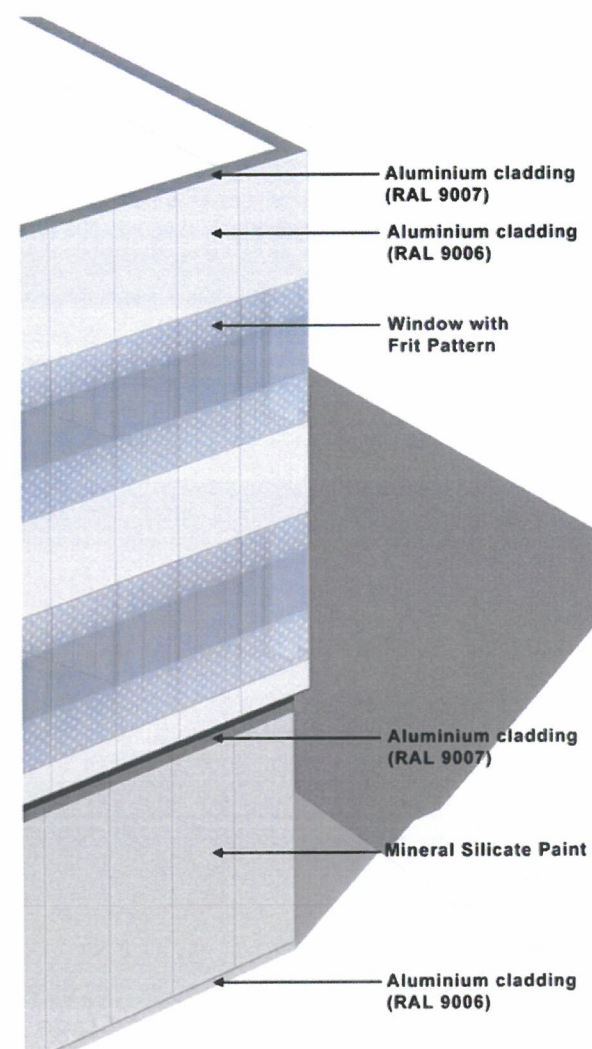


*Artistic Impression

(reference to Aesthetic Design Submission Stage 2)



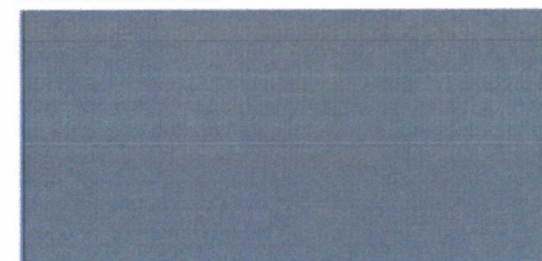
Key Plan



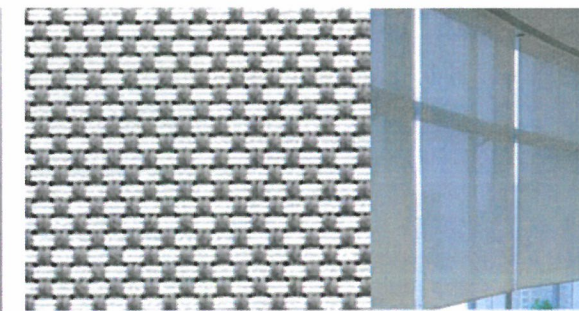
Aluminium Cladding (RAL9006)



Mineral Silicate Paint



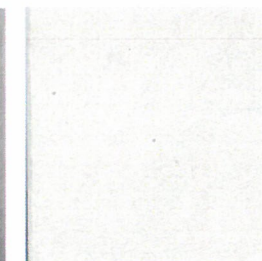
Aluminium Cladding (RAL9007)



Vertical Blind



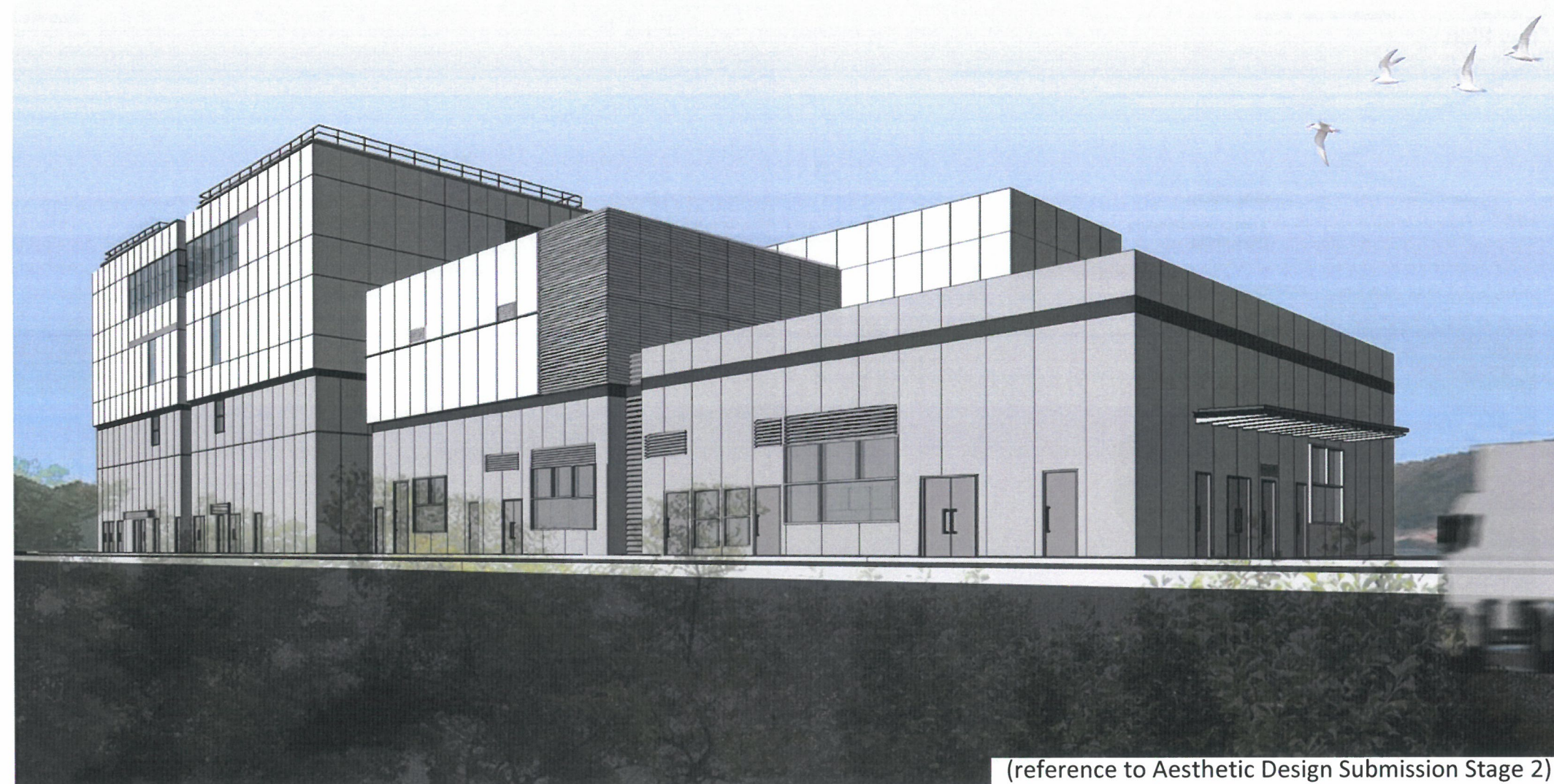
Stainless Steel in Satin Finish



Roof Floor Tiles



Windows with Frit Pattern



*Artistic Impression

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



Photo 01

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.



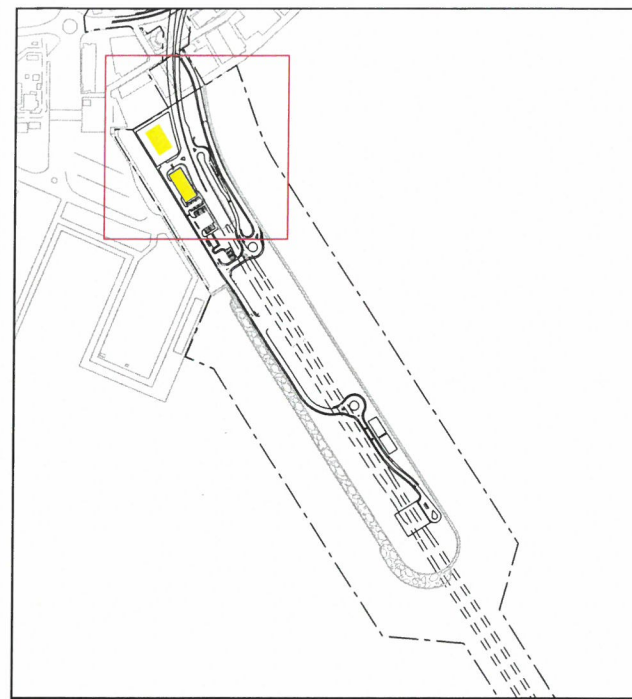
Photo 02

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



Photo 03

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



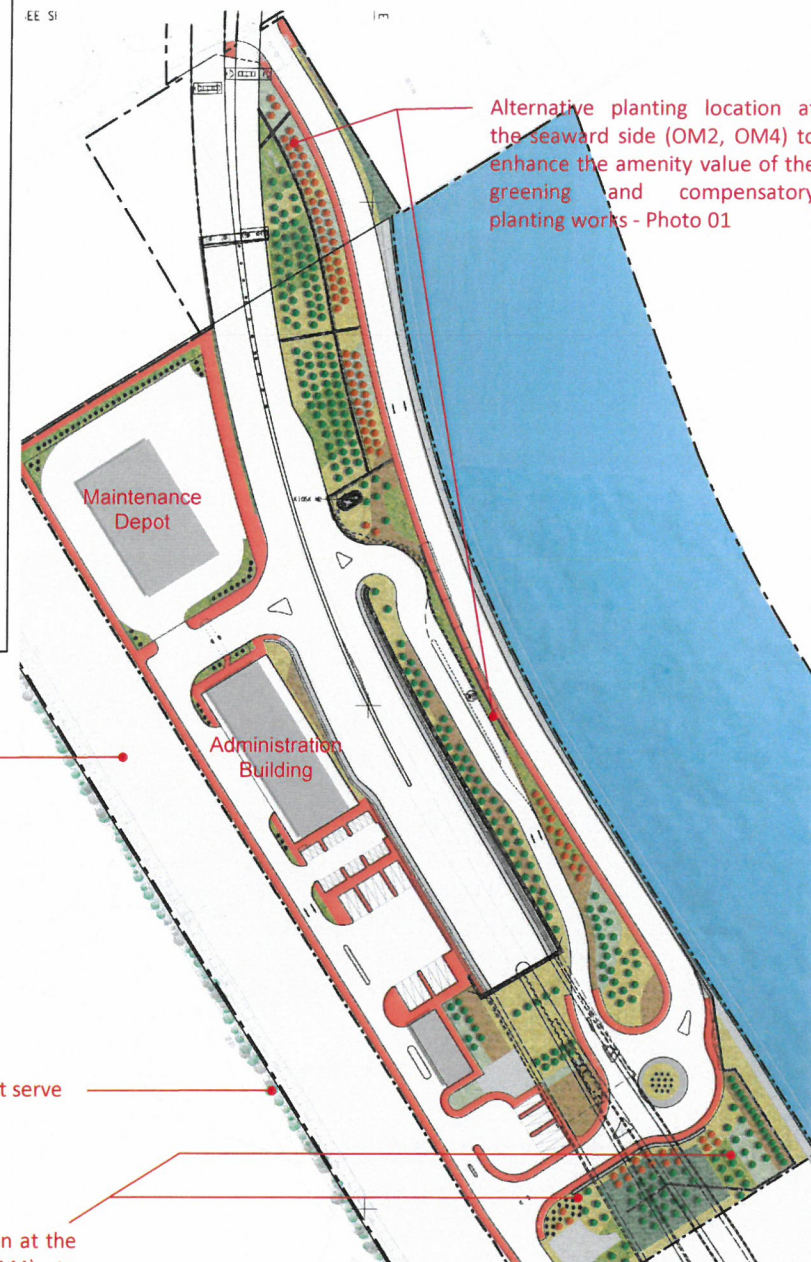
Key Plan

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.

The buffer and structure, ornamental planting works (OM2, OM4) is relocated to the seaward side of the Maintenance Depot and Administration Building for better public enjoyment.

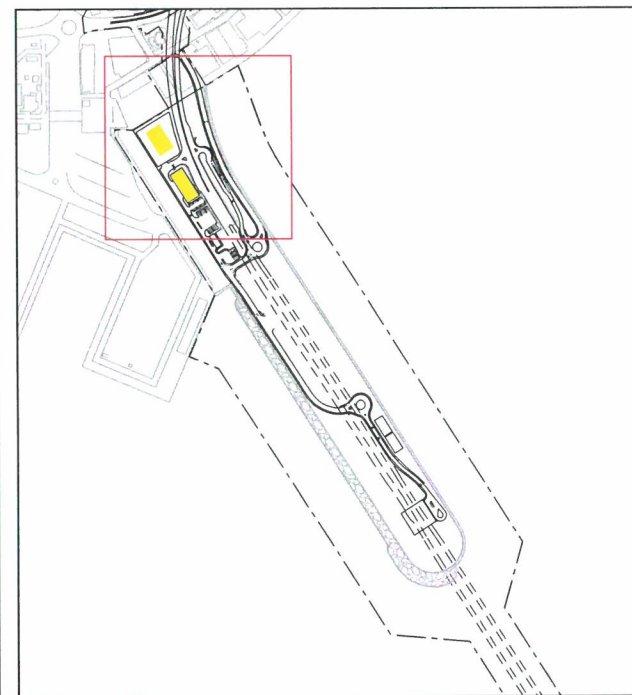
Existing trees at adjacent lot serve as buffer (OM2)

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



Alternative planting location at the seaward side (OM2, OM4) to enhance the amenity value of the greening and compensatory planting works - Photo 01

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



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 lot serve as buffer (OM2) - Photo 01, Photo 02 and Photo 03

Raised planter 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 planting for safety and security purpose - Photo 03 to Photo 05

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

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.

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.

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



Photo 01



Photo 02

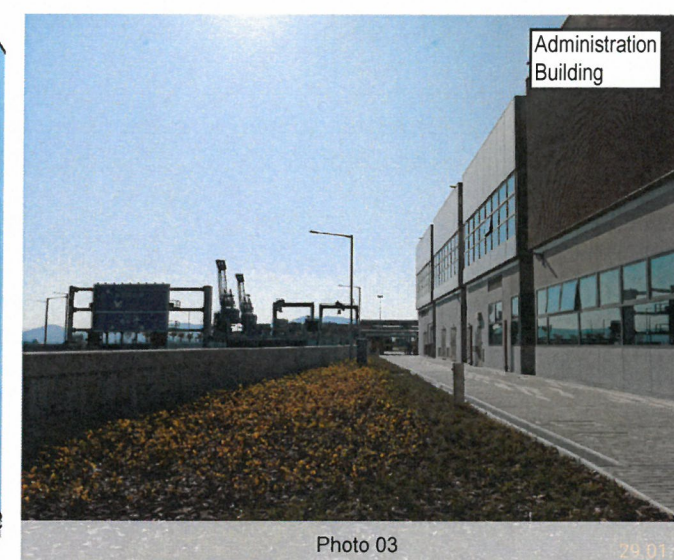


Photo 03

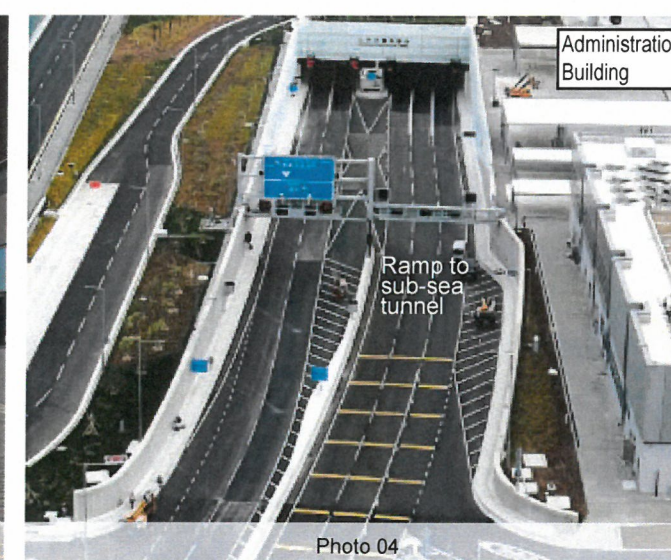
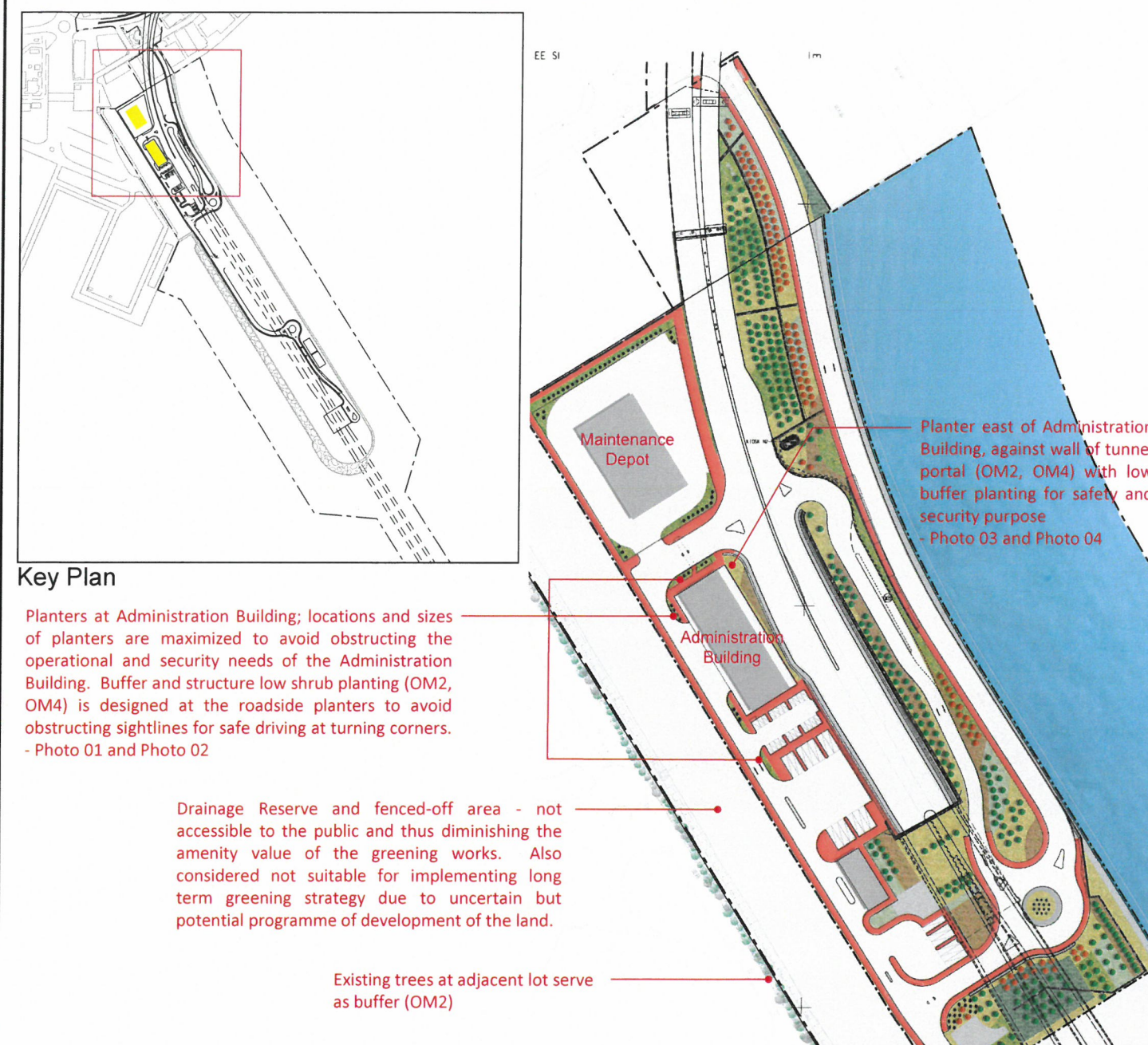


Photo 04



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)

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.

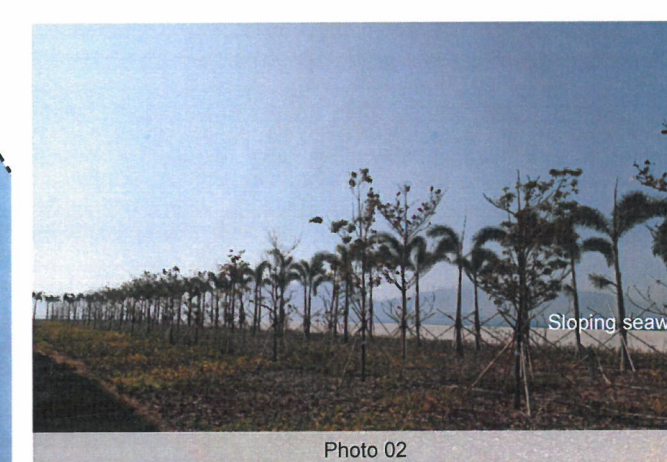
Photo 03, Photo 04: Planters at Administration Building serve as buffer to the engineering structures and enhancement to the townscape quality (OM2, OM4). Locations and sizes of planters are maximized to avoid obstructing the operational and security needs of the Administration Building. Buffer and structure, 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.

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.

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



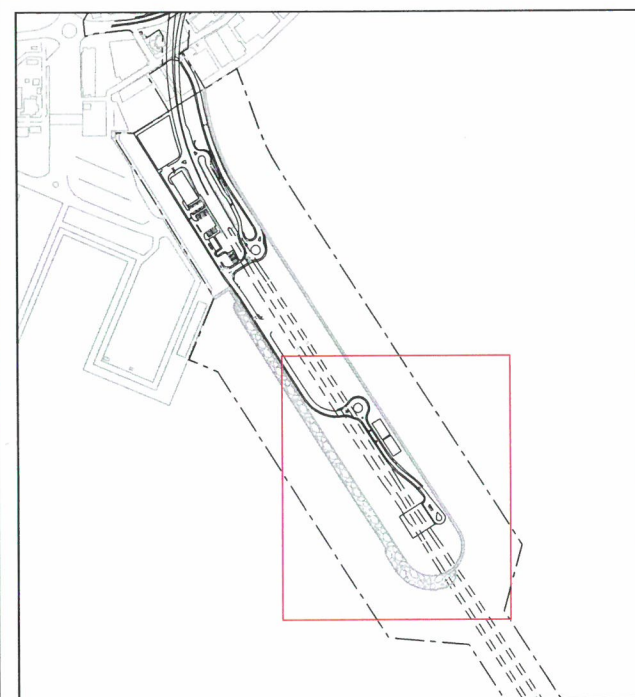
Tree planting set at 10m from the sloping seawall and 15m from the vertical seawall to address CEDD's concern on tree planting close to the seawall. In addition, the locations of tree planting (OM2, OM4) within the Potential Highways Department Depot Area are maximized to avoid obstructing the operational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



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 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.



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

Slope Planting

| CODE | BOTANICAL NAME | CHINESE NAME | SIZE (mm) HEIGHT (H) X SPREAD (S) | SPACING (mm) |
|----------------------|---------------------------------------|--------------|--|-----------------|
| WHIP | | | | |
| BRI.TOM. | <i>Bridelia tomentosa</i> * | 土蜜樹 | WHIP | 1500-2000 |
| GOR.AXI. | <i>Gordonia axillaris</i> * | 大頭茶 | WHIP | 1500-2000 |
| LIT.GLU. | <i>Litsea glutinosa</i> * | 潺槁樹 | WHIP | 1500-2000 |
| PHY.EMB. | <i>Phyllanthus emblica</i> * | 餘甘子 | WHIP | 1500-2000 |
| REE.THY. | <i>Reevesia thyrsoidea</i> * | 梭羅樹 | WHIP | 1500-2000 |
| TREE | | | | |
| BAU.VAR. | <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | LIGHT STANDARD/ STANDARD/ HEAVY STANDARD | 4000-5000 |
| BOM.CEI. | <i>Bombax ceiba</i> | 木棉 | LIGHT STANDARD | 4000-5000 |
| BRI.TOM. | <i>Bridelia tomentosa</i> * | 土蜜樹 | LIGHT STANDARD | 3000 |
| CIN.BUR.(A) | <i>Cinnamomum burmannii</i> * | 陰香 | LIGHT STANDARD | 4000 |
| MEL.AZE.(A) | <i>Melia azedarach</i> | 苦楝 | LIGHT STANDARD | 4000 |
| PLU.RUB. | <i>Plumeria rubra</i> | 雞蛋花(紅.) | HEAVY STANDARD 2000 (H) X 2000 (S) | 3500-4000 |
| PALM | | | | |
| CAR.MIT. | <i>Caryota mitis</i> | 短穗魚尾葵 | 2500(H) x 1500(S) | 2500 |
| LIV.CHI. | <i>Livistona chinensis</i> | 蒲葵 | 1500-2500(H) X 1500(S) | 3500-4000 |
| PHO.ROE. | <i>Phoenix roebelenii</i> | 日本葵 | 2000(H) x 1500(S) | 2000 |
| WAS. ROB. | <i>Washingtonia robusta</i> | 華盛頓葵 | 1500-2500(H) X 1500-2000(S) | 3500-4000 |
| SHRUB | | | | |
| ALL.CAT. | <i>Allamanda cathartica</i> | 軟枝黃蟬 | 300(H) X 300(S) | 300 |
| CAL.HAE. | <i>Calliandra haematocephala</i> | 紅絨球 | 300(H) X 300(S) | 1000 |
| FIC.MIC.'GOL' | <i>Ficus microcarpa</i> 'Golden Leaf' | 黃榕 | 300(H) X 300(S) | 500 |
| GAR.JAS. | <i>Gardenia jasminoides</i> * | 白蟬 | 300(H) x 300(S) | 500 |
| GOR.AXI. | <i>Gordonia axillaris</i> * | 大頭茶 | 500(H) X 500(S) | 500 |
| HIB.ROS. | <i>Hibiscus rosa-sinensis</i> | 大紅花 | 300(H) x 300(S) | 1000 |
| LIG.SIN. | <i>Ligustrum sinense</i> * | 山指甲 | 300(H) x 300(S) | 500 |
| MEL.CAN. | <i>Melastoma candidum</i> * | 野牡丹 | 300(H) X 300(S) | 500 |
| MEL.SAN. | <i>Melastoma sanguineum</i> * | 毛蕊 | 300(H) X 300(S) | 500 |
| NER.OLE. | <i>Nerium oleander</i> | 夾竹桃 | 300(H) X 300(S) | 500-1000 |
| PSY. ASI. | <i>Psychotria asiatica</i> * | 九節 | 300(H) x 300(S) | 500 |
| RHO.SIM. | <i>Rhododendron simsii</i> * | 紅杜鵑 | 300(H) x 300(S) | 500 |
| RHO.TOM. | <i>Rhodomyrtus tomentosa</i> * | 桃金娘 | 300(H) X 300(S) | 500 |
| SCHARB. | <i>Schefflera arboricola</i> | 八葉 | 300(H) x 300(S) | 500 |
| GROUND COVER | | | | |
| ARA.DUR. | <i>Arachis duranensis</i> | 金花生 | 100(H) x 200(S) | 250 |
| HYM.LIT. | <i>Hymenocallis littoralis</i> | 蜘蛛蘭 | 300(H) X 300(S) | 300 |
| CLIMBER | | | | |
| EPI.AUR. | <i>Epipremnum aureum</i> | 綠蘿 | MIN. 4 SHOOTS PER PLANT, 300mm LONG | 500 |
| FIC.PUM. | <i>Ficus pumila</i> * | 薛荔 | MIN. 3 SHOOTS PER PLANT, 300- 1000mm LONG | 300 |
| LON.JAP. | <i>Lonicera japonica</i> * | 金銀花 | MIN. 4 SHOOTS PER PLANT, 600mm LONG | 500 |
| PAR.DAL. | <i>Parthenocissus dalzielii</i> | 爬牆虎 | MIN. 3 SHOOTS PER PLANT, 600- 1000mm LONG | 300/500 |
| HYDROSEEDING / GRASS | | | | |
| - | HYDROSEEDING | 噴草 | - | - |

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- SHRUB / GROUND COVER 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, 2006 EDITION, CLAUSE 3.26(3).
- * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
- + PLANT SPECIES INCLUDED IN THE ENTRUSTED LANDSCAPE WORKS TO CONTRACT NO. DC/2016/01.

Roadside Planting

| CODE | BOTANICAL NAME | CHINESE NAME | SIZE (mm) HEIGHT (H) X SPREAD (S) | SPACING (mm) |
|----------------------|--|--------------|--|-----------------|
| TREE | | | | |
| BAU.BLA. | <i>Bauhinia x blakeana</i> * + | 洋紫荊 | HEAVY STANDARD | 5000 |
| BAU.VAR. | <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | LIGHT STANDARD/ STANDARD/ HEAVY STANDARD | 4000 - 5000 |
| GAR.SUB. | <i>Garcinia subelliptica</i> + | 菲島福木 | LIGHT STANDARD | 4000-5000 |
| GRE.ROB.(H) | <i>Grevillea robusta</i> | 銀樺 | HEAVY STANDARD | 4000 |
| ILE.ROT. | <i>Ilex rotunda</i> | 鐵冬青 | HEAVY STANDARD | 5000 |
| LAG.SPE. | <i>Lagerstroemia speciosa</i> | 大花紫薇 | HEAVY STANDARD | 4000-4500 |
| PEL.TON. | <i>Peltophorum tonkinense</i> | 銀珠 | HEAVY STANDARD | 5000 |
| PLU.RUB. | <i>Plumeria rubra</i> | 雞蛋花 | HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S) | 4000 |
| TAB.IMP. | <i>Tabebuia impetiginosa</i> | 風鈴木 | HEAVY STANDARD | 5000 |
| VIB.ODO. | <i>Viburnum odoratissimum</i> * + | 珊瑚樹 | HEAVY STANDARD | 5000 |
| PALM | | | | |
| ARE.CAT. | <i>Areca catechu</i> + | 檳榔 | 4000(H) | 4000 |
| LIV.CHI. | <i>Livistona chinensis</i> | 蒲葵 | 2500(H) x 1500(S) | 3500-4000 |
| PHO.SYL. | <i>Phoenix sylvestris</i> | 銀海棗 | 2000(H) x 1500(S) | 4000 |
| SHRUB | | | | |
| ALL.CAT. | <i>Allamanda cathartica</i> | 軟枝黃蟬 | 300(H) X 300(S) | 300/350 |
| DUR.REP. | <i>Duranta repens</i> | 假蓮翹 | 300(H) x 250(S) | 400 |
| CAR.MIT. | <i>Caryota mitis</i> | 短穗魚尾葵 | 2500(H)MIN. 4 clumps pre plant | 750 |
| COD.VAR.'AUC' | <i>Codiaeum variegatum</i> 'Aucubaefolium' + | 灑金榕 | 300(H) X 300(S) | 300 |
| COD.VAR.'RED' | <i>Codiaeum variegatum</i> 'Red' + | 灑金榕 (紅色) | 300(H) X 300(S) | 300 |
| CYC.REV. | <i>Cycas revoluta</i> | 蘇鐵 | 400(H) x 500(S) | 500 |
| FIC.MIC.'GOL' | <i>Ficus microcarpa</i> 'Golden Leaf' | 黃榕 | 300(H) X 300(S) | 350/500 |
| GAR.JAS. | <i>Gardenia jasminoides</i> * | 白蟬 | 300(H) x 300(S) | 500 |
| GOR.AXI. | <i>Gordonia axillaris</i> * | 大頭茶 | 300(H) X 300(S) | 350 |
| IXO.CHI. | <i>Ixora chinensis</i> * + | 龍船花 | 300(H) x 300(S) | 300 |
| LIG.SIN. | <i>Ligustrum sinense</i> * | 山指甲 | 300(H) x 250(S) | 400 |
| MEL.CAN. | <i>Melastoma candidum</i> * | 野牡丹 | 300(H) X 300(S) | 350 |
| MEL.SAN. | <i>Melastoma sanguineum</i> * | 毛蕊 | 300(H) X 300(S) | 350 |
| PHY.MYR. | <i>Phyllanthus myrtifolius</i> + | 錫蘭葉下珠 | 300(H) x 300(S) | 300 |
| NER.OLE. | <i>Nerium oleander</i> | 夾竹桃 | 400(H) x 250(S) / 300(H) X 300(S) | 400/500 |
| PIT.TOB. | <i>Pittosporum tobira</i> + | 海桐花 | 300(H) x 300(S) | 300 |
| RHA.IND. | <i>Rhaphiolepis indica</i> * + | 車輪梅 | 300(H) x 300(S) | 300 |
| RHO.TOM. | <i>Rhodomyrtus tomentosa</i> * | 桃金娘 | 300(H) X 300(S) | 350/500 |
| SCH.ARB. | <i>Schefflera arboricola</i> + | 八葉 | 300(H) x 300(S) | 300/350/ 500 |
| GROUND COVER | | | | |
| ARA.DUR. | <i>Arachis duranensis</i> | 金花生 | 100(H) x 200(S) | 250 |
| ASP.DEN. | <i>Asparagus densiflorus</i> 'Sprengeri' + | 非洲天門冬 | 200(H) x 300(S) | 200 |
| EPI.AUR. | <i>Epipremnum aureum</i> | 綠蘿 | 200(H) x 300(S) | 300 |
| HYM.LIT. | <i>Hymenocallis littoralis</i> | 蜘蛛蘭 | 300(H) X 300(S) | 300 |
| NEP.AUR. | <i>Nephrolepis auriculata</i> * + | 腎蕨 | 250(H) x 250(S) | 150 |
| TRA.SPA. | <i>Tradescantia spathacea</i> | 蚌花 | 200(H) x 300(S) | 250 |
| WED.TRI. | <i>Wedelia trilobata</i> | 三裂葉蟛蜞菊 | 200(H) x 150(S) | 300 |
| CLIMBER | | | | |
| EPI.AUR. | <i>Epipremnum aureum</i> + | 綠蘿 | MIN. 4 SHOOTS PER PLANT, 300mm LONG | 500 |
| FIC.PUM. | <i>Ficus pumila</i> * | 薛荔 | MIN. 3 SHOOTS PER PLANT, 300- 1000mm LONG | 300 |
| PAR.DAL. | <i>Parthenocissus dalzielii</i> | 爬牆虎 | MIN. 3 SHOOTS PER PLANT, 600- 1000mm LONG | 300/500 |
| HYDROSEEDING / GRASS | | | | |
| - | HYDROSEEDING | 噴草 | - | - |
| AXO.COM. | <i>Axonopus compressus</i> + | 地毯草(大葉草) | Whole piece turf 300(L)x300(W)x50(H) | - |



Imagine it.
Delivered.

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

Drawing No.: **Figure 6.1**

Slope Planting

| CODE | BOTANICAL NAME | CHINESE NAME | SIZE (mm) HEIGHT (H) X SPREAD (S) | SPACING (mm) |
|----------------------|--|--------------|--|-----------------|
| WHIP | | | | |
| BAU.VAR. | <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | WHIP | 1000 |
| BRI.TOM. | <i>Bridelia tomentosa</i> * | 土密樹 | WHIP | 1000-2000 |
| GOR.AXI. | <i>Gordonia axillaris</i> * | 大頭茶 | WHIP | 1000 |
| LIT.GLU. | <i>Litsea glutinosa</i> * | 潺槁木 | WHIP | 1000 |
| MAL.PAN. | <i>Mallotus paniculatus</i> * | 白楸 | WHIP | 1000 |
| PHY.EMB. | <i>Phyllanthus emblica</i> * | 餘甘子(油甘子) | WHIP | 1000 |
| SAP.DIS. | <i>Sapium discolour</i> * | 山烏柏 | WHIP | 1000 |
| TREE | | | | |
| BAU.VAR.(L) | <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | LIGHT STANDARD | 3000 |
| BAU.VAR.(H) | <i>Bauhinia variegata</i> | 宮粉羊蹄甲 | HEAVY STANDARD | 4000-4500 |
| BRI.TOM. | <i>Bridelia tomentosa</i> * | 土密樹 | LIGHT STANDARD | 3000 |
| BOM.CEI.(L) | <i>Bombax ceiba</i> | 木棉 | LIGHT STANDARD | 3000 |
| BOM.CEI.(L) | <i>Bombax ceiba</i> | 木棉 | HEAVY STANDARD | 4500-5000 |
| CIN.BUR. | <i>Cinnamomum burmannii</i> * | 陰香 | LIGHT STANDARD | 3000 |
| CIN.BUR. | <i>Cinnamomum burmannii</i> * | 陰香 | HEAVY STANDARD | 4500-5000 |
| CLE.NER(H) | <i>Cleistocalyx nervosum</i> | 水翁 | HEAVY STANDARD | 4000-4500 |
| LIQ.FOR. | <i>Liquidambar formosana</i> * | 楓香 | LIGHT STANDARD | 3000 |
| LIT.GLU.(L) | <i>Litsea glutinosa</i> * | 潺槁木 | LIGHT STANDARD | 3000 |
| MAC.CHE. | <i>Machilus chekiangensis</i> * | 浙江潤楠 | LIGHT STANDARD | 3000 |
| MIN.NER.(H) | <i>Microcos nervosa</i> | 布渣葉 | HEAVY STANDARD | 4000-4500 |
| REE.THY. | <i>Reevesia thyrsoidea</i> * | 梭羅樹 | LIGHT STANDARD | 3000 |
| SCH.SUP. | <i>Schima superba</i> * | 木荷(荷樹) | LIGHT STANDARD | 3000 |
| STE.LAN. | <i>Sterculia lanceolata</i> * | 假蘋婆 | LIGHT STANDARD | 3000 |
| STE.LAN. | <i>Sterculia lanceolata</i> * | 假蘋婆 | HEAVY STANDARD | 4500-5000 |
| TAB.IMP. | <i>Tabebuia impetiginosa</i> | 風鈴木 | HEAVY STANDARD | 3500-4000 |
| VIB.ODO. | <i>Viburnum odoratissimum</i> * | 珊瑚樹 | LIGHT STANDARD | 3000 |
| PALM | | | | |
| PHO.ROE. | <i>Phoenix roebelenii</i> | 日本葵 | 2000(H) x 1500(S) | 2500-3000 |
| SHRUB | | | | |
| BOU.SPE. | <i>Bougainvillea spectabilis</i> | 簕杜鵑 | MIN. 5 SHOOTS PER PLANT, 300-600mm LONG | 350-500 |
| DES.CHI. | <i>Desmos chinensis</i> * | 假鷹爪 | 300(H) x 300(S) | 500 |
| ILE.ASP. | <i>Ilex asprella</i> * | 梅葉冬青 | 300(H) x 300(S) | 500 |
| ILE.PUB. | <i>Ilex pubescens</i> * | 毛冬青 | 300(H) x 300(S) | 500 |
| LIG.SIN. | <i>Ligustrum sinense</i> | 山指甲 | 300(H) x 300(S) | 350-500 |
| MEL.CAN. | <i>Melastoma candidum</i> * | 野牡丹 | 300(H) x 300(S) | 500 |
| MEL.SAN. | <i>Melastoma sanguineum</i> * | 毛荃 | 300(H) x 300(S) | 350-500 |
| NER.OLE. | <i>Nerium oleander</i> (RED FLOWERS) | 夾竹桃(紅花) | 300(H) x 300(S) | 350 |
| PSY.ASI. | <i>Psychotria asiatica</i> * | 九節 | 300(H) x 300(S) | 500 |
| RHA.IND. | <i>Rhaphiolepis indica</i> * | 車輪梅 | 300(H) x 300(S) | 300-500 |
| RHO.PUL. | <i>Rhododendron pulchrum</i> | 紫杜鵑 | 300(H) x 300(S) | 500 |
| RHO.SIM. | <i>Rhododendron simsii</i> * | 紅杜鵑 | 300(H) x 300(S) | 500 |
| SCH.ARB. | <i>Schefflera arboricola</i> | 八葉木 | 300(H) x 300(S) | 500 |
| SCH.VAR. | <i>Schefflera arboricola</i> 'Variegata' | 花葉八葉木 | 300(H) x 300(S) | 500 |
| GROUNDCOVER | | | | |
| ARA.DUR. | <i>Arachis duranensis</i> | 蔓花生(金花生) | 100(H) x 200(S) | 200 |
| NEP.AUR. | <i>Nephrolepis auriculata</i> * | 腎蕨 | 300(H) x 300(S) | 100-300 |
| NEP.HIR. | <i>Nephrolepis hirsutula</i> * | 毛葉腎蕨 | 300(H) x 300(S) | 100-300 |
| CLIMBER | | | | |
| BAU.COR. | <i>Bauhinia corymbosa</i> | 首冠藤 | MIN. 5 SHOOTS PER PLANT, 600mm LONG | 300-1000 |
| BAU.GLA. | <i>Bauhinia glauca</i> | 羊蹄甲藤 | MIN. 5 SHOOTS PER PLANT, 600mm LONG | 300-1000 |
| BOU.SPE. | <i>Bougainvillea spectabilis</i> | 簕杜鵑 | MIN. 5 SHOOTS PER PLANT, 600mm LONG | 300-500 |
| FIC.PUM. | <i>Ficus pumila</i> * | 薛荔 | MIN. 3 SHOOTS PER PLANT, 1000mm LONG | 300 |
| LON.JAP. | <i>Lonicera japonica</i> * | 忍冬(金銀花) | MIN. 5 SHOOTS PER PLANT, 600mm LONG | 300-1000 |
| PAR.DAL. | <i>Parthenocissus dalzielii</i> | 爬牆虎 | MIN. 3 SHOOTS PER PLANT, 1000mm LONG | 300-1000 |
| WED.TRI. | <i>Wedelia trilobata</i> | 三裂葉鵝絨菊 | MIN. 5 SHOOTS PER PLANT, 600mm LONG | 300-1000 |
| HYDROSEEDING / GRASS | | | | |
| - | HYDROSEEDING | 噴草 | - | - |

Roadside Planting

| CODE | BOTANICAL NAME | CHINESE NAME | SIZE (mm) HEIGHT (H) X SPREAD (S) | SPACING (mm) |
|-------------|---|------------------|--------------------------------------|-----------------|
| TREE | | | | |
| BRA.ACE. | <i>Brachychiton acerifolius</i> | 槭葉蘋婆 | HEAVY STANDARD | 4500-5000 |
| DEL.REG. | <i>Delonix regia</i> | 鳳凰木 | HEAVY STANDARD | N/A |
| GAR.SUB. | <i>Garcinia subelliptica</i> | 菲島福木(福木) | LIGHT STANDARD | 3000 |
| MEL.CUM. | <i>Melaleuca cajuputi subsp. cumingiana</i> | 白千層 | HEAVY STANDARD | 4000 |
| TAB.CHR. | <i>Tabebuia chrysantha</i> | 黃花風鈴木 | HEAVY STANDARD | 5000 |
| TAB.IMP. | <i>Tabebuia impetiginosa</i> | 風鈴木 | HEAVY STANDARD | 3500-4000 |
| TER.MAN. | <i>Terminalia mantaly</i> | 小葉欖仁 | HEAVY STANDARD | 5000 |
| PALM | | | | |
| ARC.ALE. | <i>Archontophoenix alexandrae</i> | 假檳榔 | 3500(H) x 1500(S) | 3500-4000 |
| CHR.LHT. | <i>Chrysalidocarpus lutescens</i> | 散尾葵 | 1500(H) | 2000 |
| LIV.CHI. | <i>Livistona chinensis</i> | 蒲葵 | 2000(H) x 1500(S) | 2500 |
| PHO.ROE. | <i>Phoenix roebelenii</i> | 日本葵 | 2000(H) x 1500(S) | 2500-3000 |
| WOD.BIF. | <i>Wodyetia bifurcata</i> | 狐尾椰子 | 2500(H) x 1500(S) | 3500 |
| SHRUB | | | | |
| DUR.GOL. | <i>Duranta repens</i> 'Golden' | 金連翹 | 300(H) x 300(S) | 300 |
| IXO.CHI. | <i>Ixora chinensis</i> * | 龍船花 | 300(H) x 300(S) | 300 |
| IXO.COC. | <i>Ixora coccinea</i> | 橙紅龍船花 | 300(H) x 300(S) | 300 |
| IXO.LUT. | <i>Ixora coccinea</i> 'Lutea' | 黃花龍船花 | 300(H) x 300(S) | 300 |
| IXO.STR. | <i>Ixora stricta</i> | 細葉龍船花 | 300(H) x 300(S) | 300 |
| RHA.IND. | <i>Rhaphiolepis indica</i> * | 車輪梅 | 300(H) x 300(S) | 300 |
| RHO.PUL. | <i>Rhododendron pulchrum</i> | 紫杜鵑 | 300(H) x 300(S) | 300 |
| RHO.SIM. | <i>Rhododendron simsii</i> * | 紅杜鵑 | 300(H) x 300(S) | 300 |
| SCH.ARB. | <i>Schefflera arboricola</i> | 八葉木 | 300(H) x 300(S) | 300 |
| SCH.VAR. | <i>Schefflera arboricola</i> 'Variegata' | 斑葉鵝掌藤 (花葉八葉木) | 300(H) x 300(S) | 300 |
| GROUNDCOVER | | | | |
| ARA.DUR. | <i>Arachis duranensis</i> | 金花生 | 100(H) x 200(S) | 200 |
| ASP.DEN. | <i>Asparagus densiflorus</i> 'Myersii' | 狐尾天冬 | 300(H) x 300(S) | 250 |
| ASP.SPR. | <i>Asparagus densiflorus</i> 'Sprengeri' | 非洲天門冬(天冬) | 100(H) x 200(S) | 200 |
| CUP.HYS. | <i>Cuphea hyssopifolia</i> | 細葉雪茄花 | 200-250(H)x200-300(S) | 150-300 |
| DIA.VAR. | <i>Dianella tasmanica</i> 'Variegata' | 花葉山菅蘭 | 250(H) x 250(S) | 250 |
| LAN.FLA. | <i>Lantana camara</i> 'Flava' | 黃花馬纓丹 | 200(H) x 200(S) | 200 |
| LAN.MON. | <i>Lantana montevidensis</i> | 小葉馬纓丹 | 200(H) x 200(S) | 200 |
| NEP.AUR. | <i>Nephrolepis auriculata</i> * | 腎蕨 | 300(H) x 300(S) | 150-250 |
| OPH.JAP. | <i>Ophiopogon japonicus</i> * | 沿階草 | 200(H) x 200(S) | 200 |

NOTE:

- ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION TO SUIT THE SITE CONDITIONS.
- 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).
- * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.

Northern Landfall - Roadside Planting

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

| CODE | BOTANICAL NAME | CHINESE NAME | SIZE (mm) HEIGHT (H) X SPREAD (S) | SPACING (mm) |
|-------------|--|--------------|---|-----------------|
| GROUNDCOVER | | | | |
| AMY | <i>Asparagus densiflorus</i> 'Myersii' | 狐尾天冬 | 300(H) x 300(S) | 300 |
| ASP | <i>Asparagus densiflorus</i> 'Sprengeri' | 非洲天門冬 | 100(H) x 200(S) | 200 |
| CRO | <i>Catharanthus roseus</i> | 長春花 | 200(H) x 200(S) | 200 |
| LFL | <i>Lantana camara</i> | 馬纓丹 | 200(H) x 200(S) | 200 |
| LMO | <i>Lantana montevidensis</i> | 小葉馬纓丹 | 200(H) x 200(S) | 200 |
| NAU | <i>Nephrolepis auriculata</i> * | 腎蕨 | 250(H) x 250(S) | 200 |
| WTR | <i>Wedelia trilobata</i> | 三裂葉鵝琪菊 | 150(H) x 200(S) | 200 |
| GRASS | | | | |
| ACO | <i>Axonopus compressus</i> | 大葉草(地毯草) | Whole piece turf 300(L)x300(W)x50(H) | - |
| - | HYDROSEEDING | 噴草 | - | - |

NOTE:

1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION 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.

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

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

- NOTE:
1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION 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.
 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).

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

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

- NOTE:
1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION AND OPERATION 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.
 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).

Appendix G

Tree Transplant



ROOT PRUNING IN STAGES



PREPARATION OF ROOTBALL



PREPARATION OF ROOTBALL FOR UPLIFTING



UPLIFTING OF TREE



PREPARATION OF TRANSPORTATION



WATERING IMMEDIATELY AFTER PLANTING THE TRANSPLANTED TREE



ROOT PRUNING IN STAGES



ROOT PRUNING IN STAGES



PREPARATION OF ROOTBALL FOR UPLIFTING



PREPARATION OF TRANSPORTATION



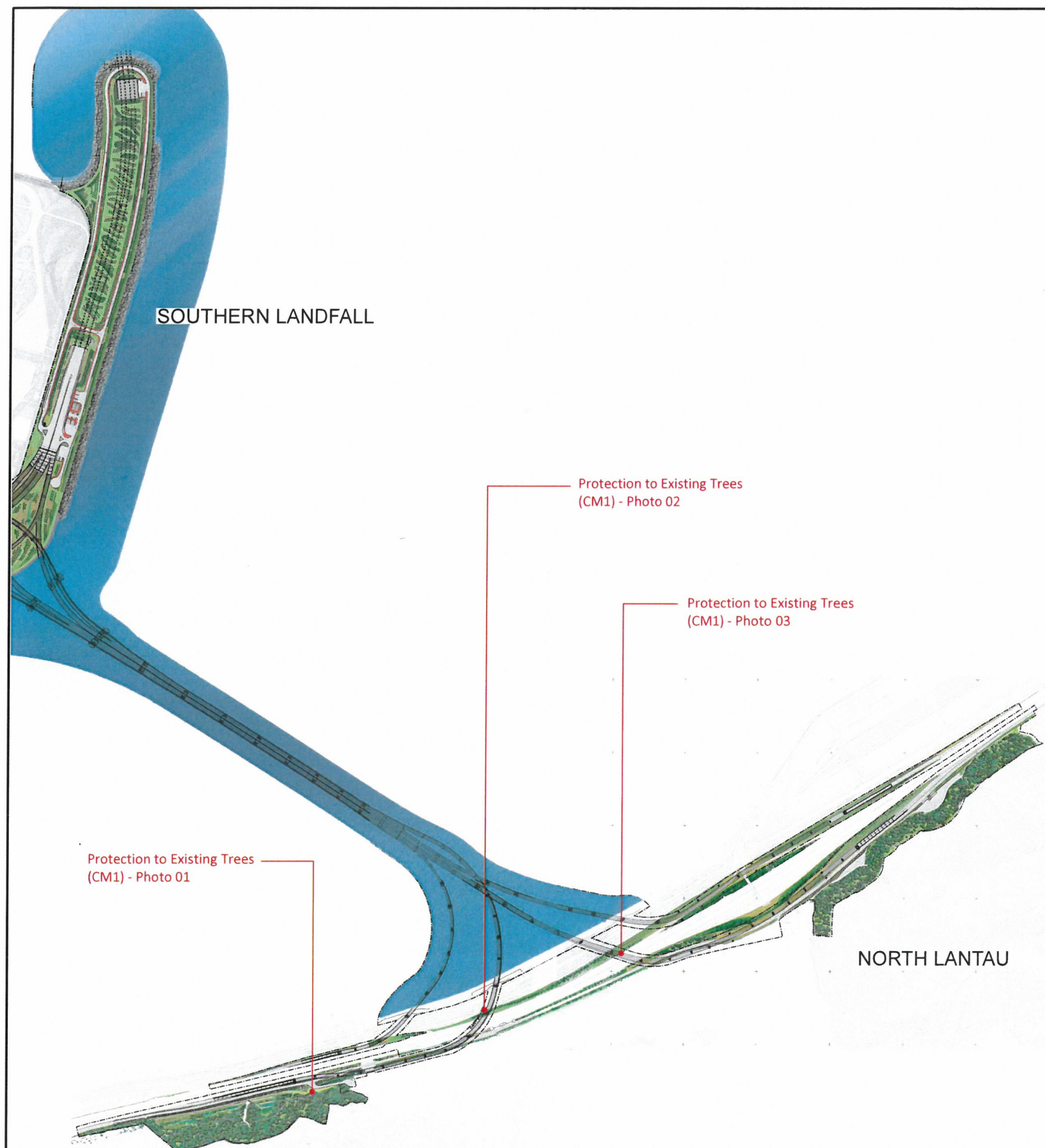
PLANTING THE TRANSPLANTED TREE



WATERING IMMEDIATELY AFTER PLANTING THE TRANSPLANTED TREE

Appendix H

Mitigation Measures at Construction Phase



Protection to Existing Trees (CM1)

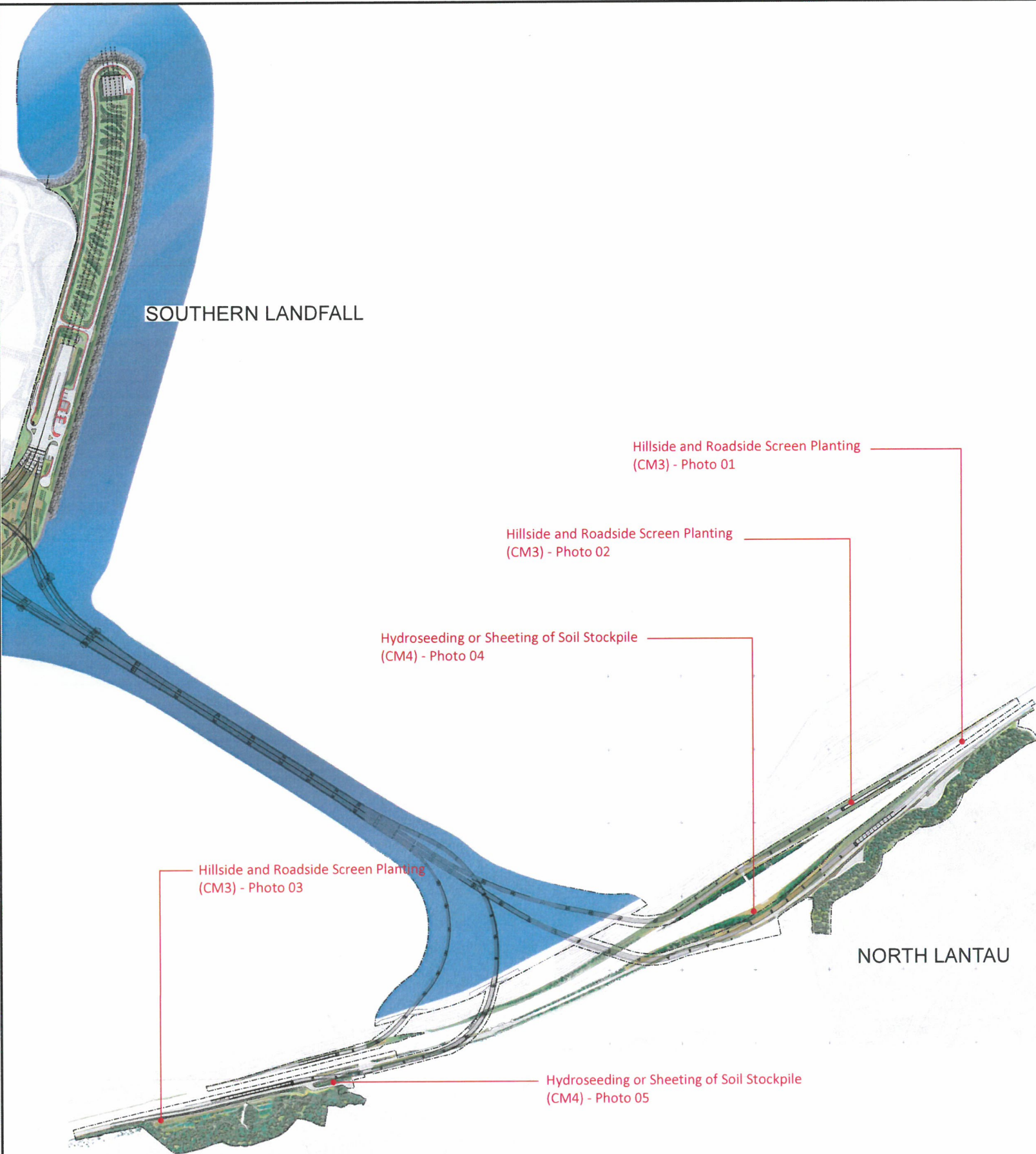


Chain link fence for tree protection

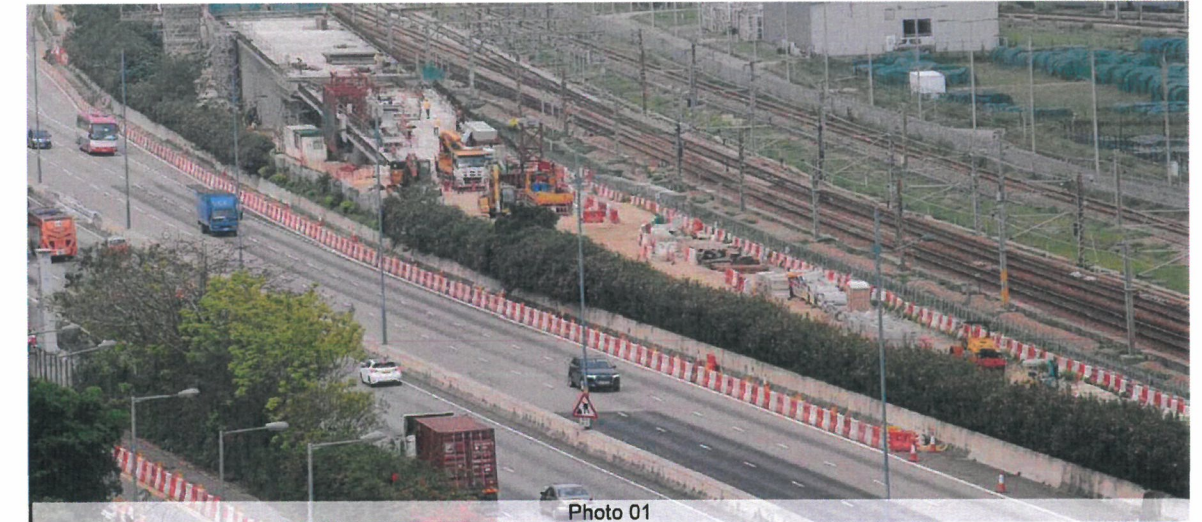


Water barriers with panels for tree protection





Hillside and Roadside Screen Planting (CM3)



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

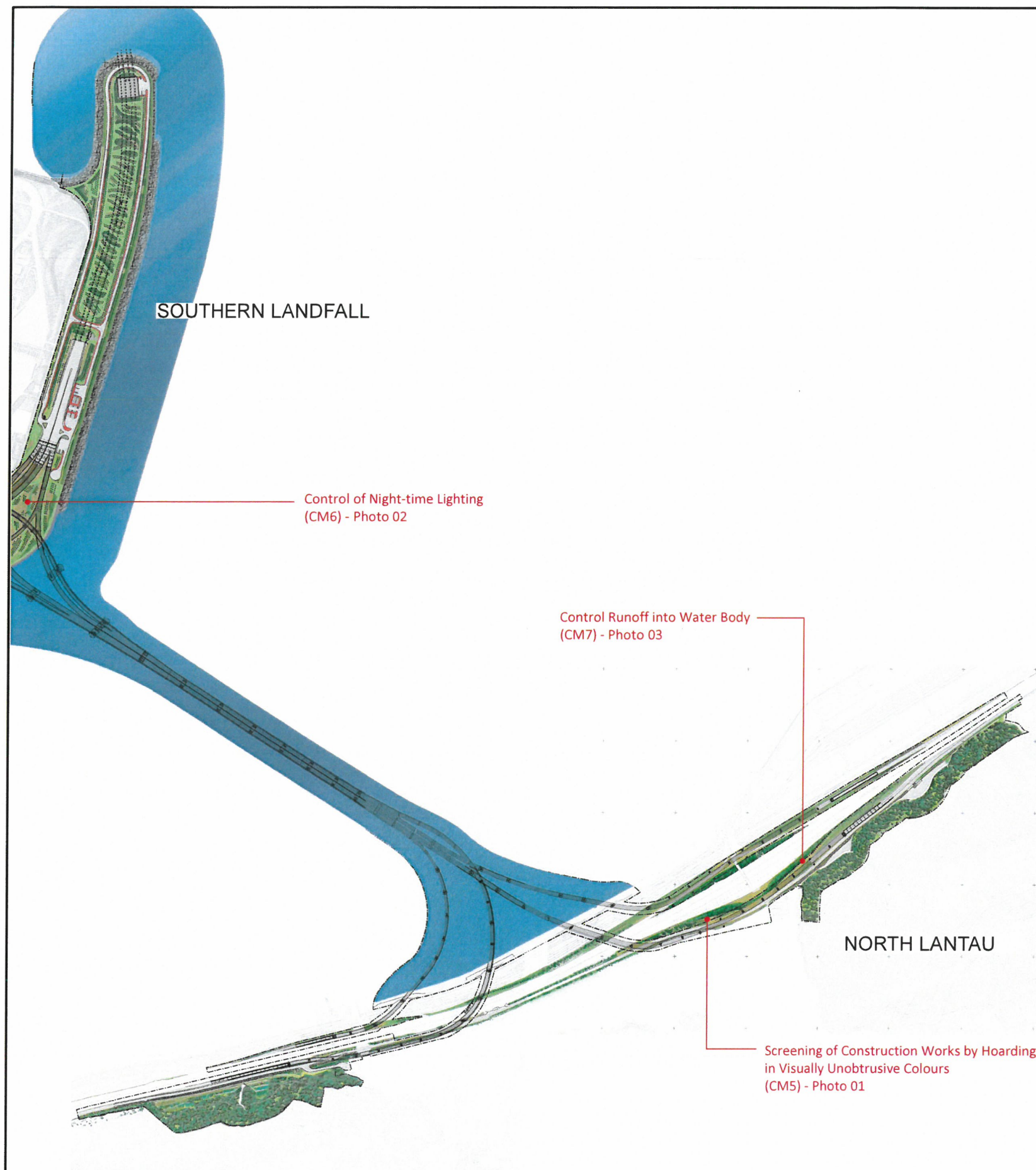


Roadside planting to road associated Hillside planting structure

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



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



Barriers with visually unobtrusive colours to screen works

Control of Night-time Lighting (CM6)

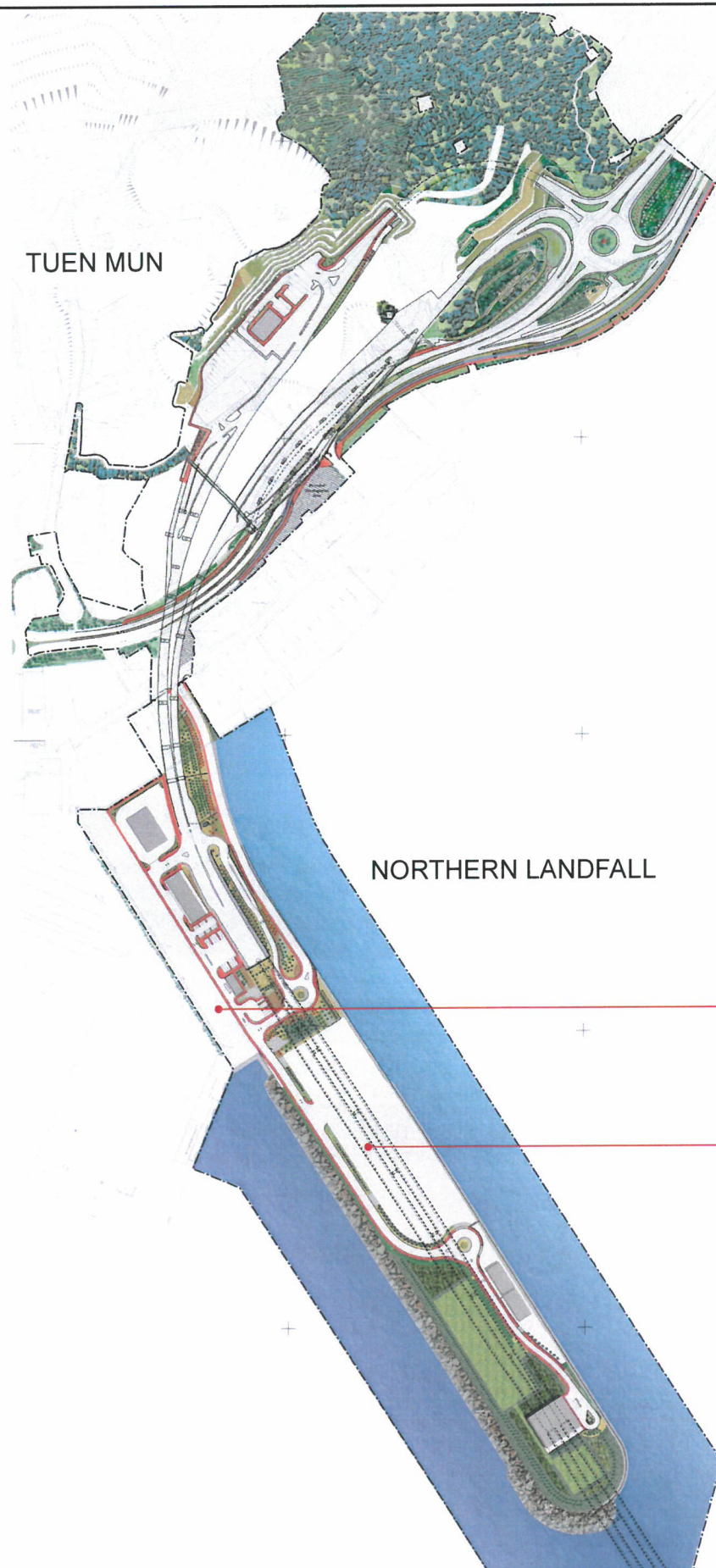


Lighting in the Southern Landfall was subject to the requirement on aviation aspects. Lights shall not form a source of glare or in any way affect pilots and air traffic controllers. All lights shall not project skyward.

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.



Control Runoff into Water Body (CM7) - Photo 03

Hydroseeding or Sheeting of Soil Stockpile (CM4) - Photo 01 , Photo 02

Hydroseeding or Sheeting of Soil Stockpile (CM4)



Photo 01



Photo 02

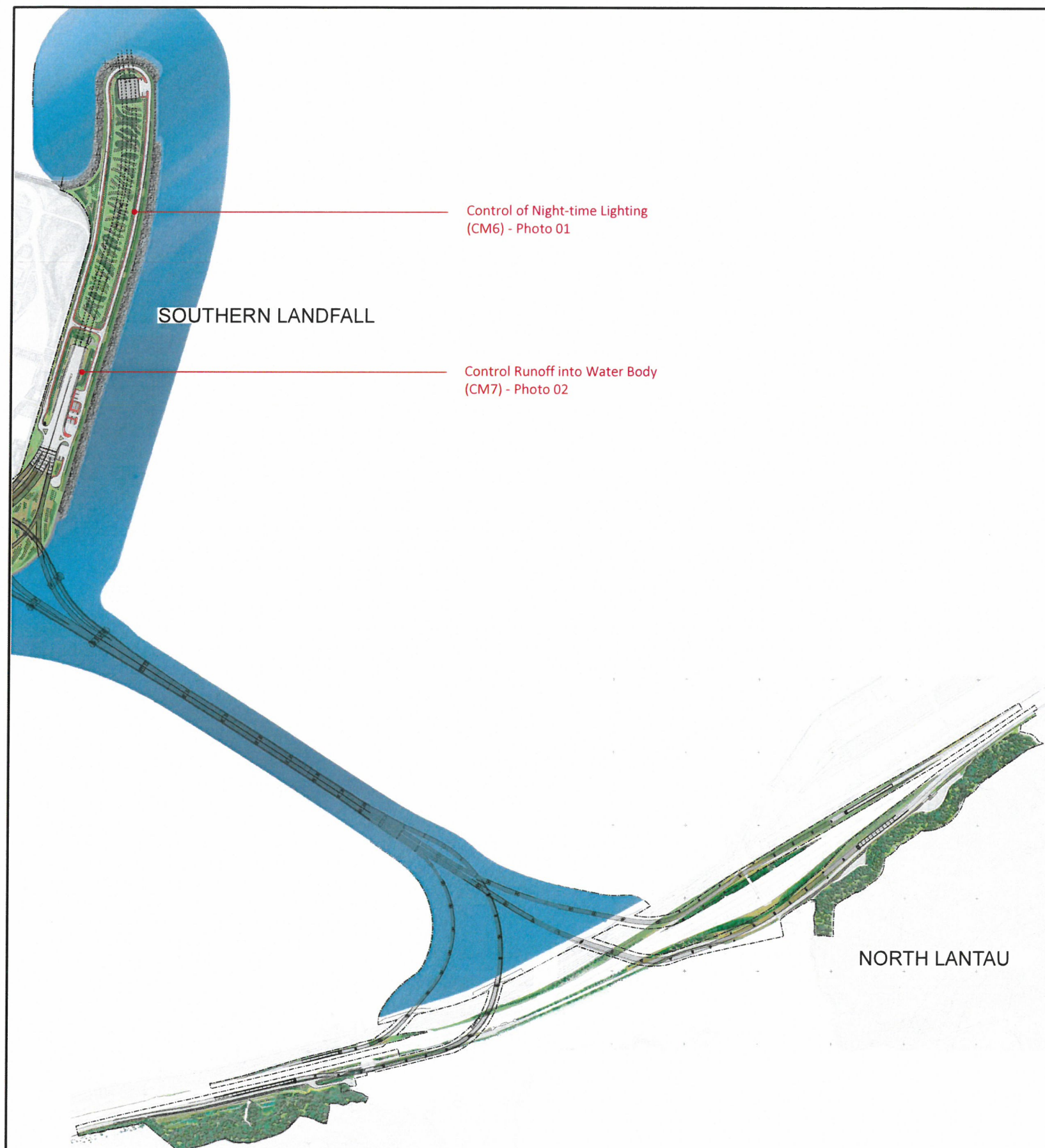
Sheeting of soil stockpiles to prevent erosion and dust generation with visually unobtrusive material

Control Runoff into Water Body (CM7)



Photo 03

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



Control of Night-time Lighting (CM6)

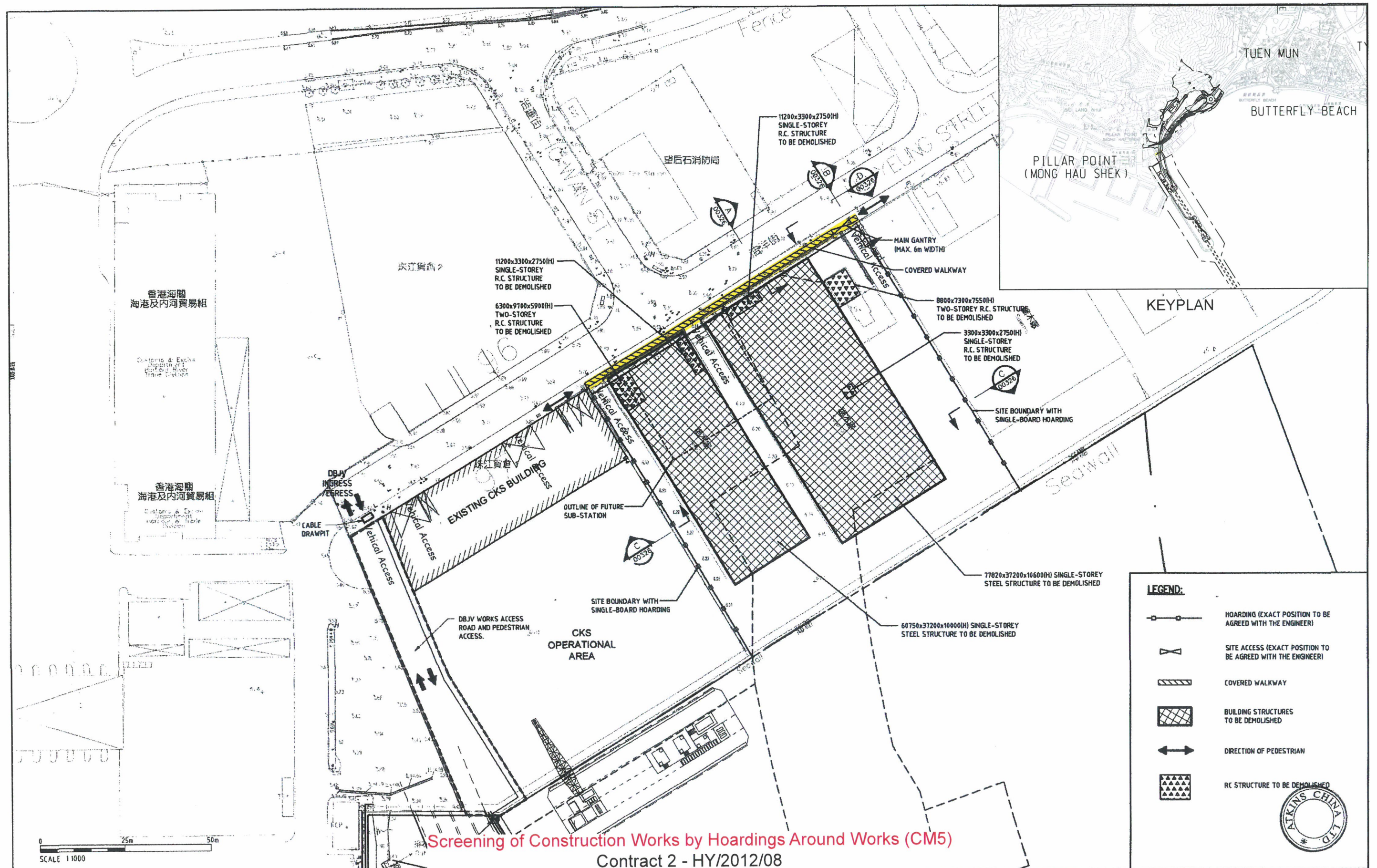










Lighting in the Southern Landfall is subject to the requirement on aviation aspects. Lights shall not form a source of glare or in any way affect pilots and air traffic controllers.

Control Runoff into Water Body (CM7)

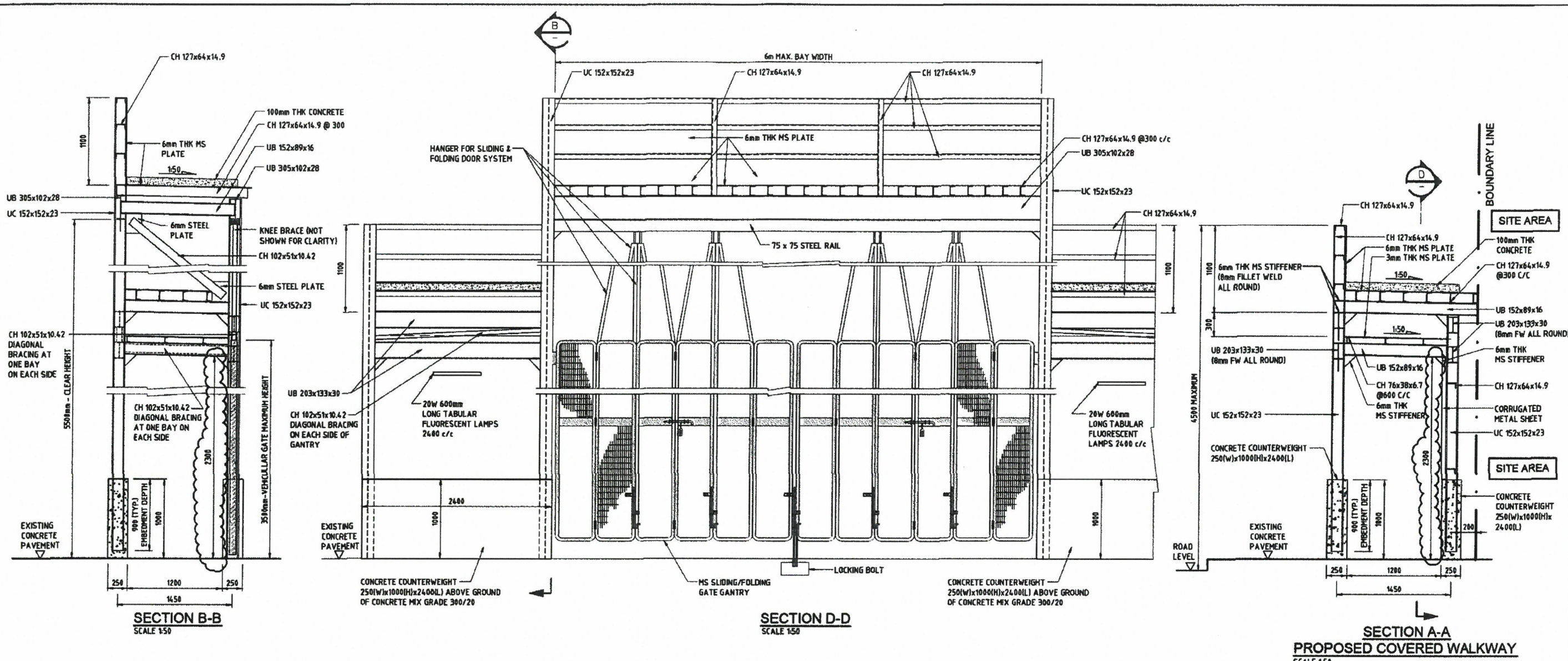


Site runoff was collected and treated in the waste water treatment facilities before discharged into the adjacent water bodies.

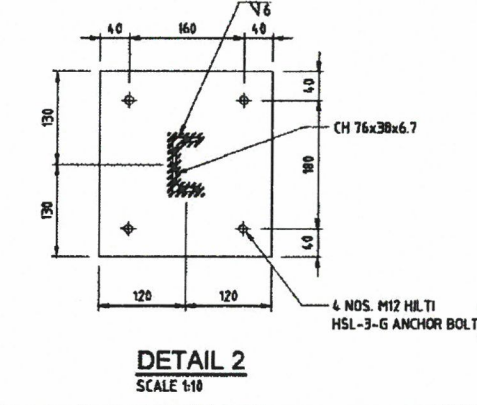
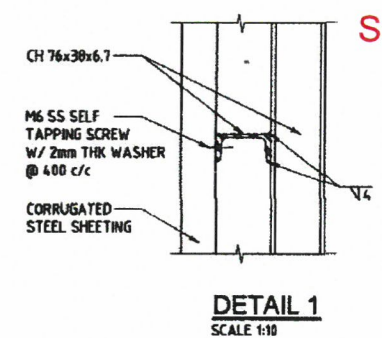
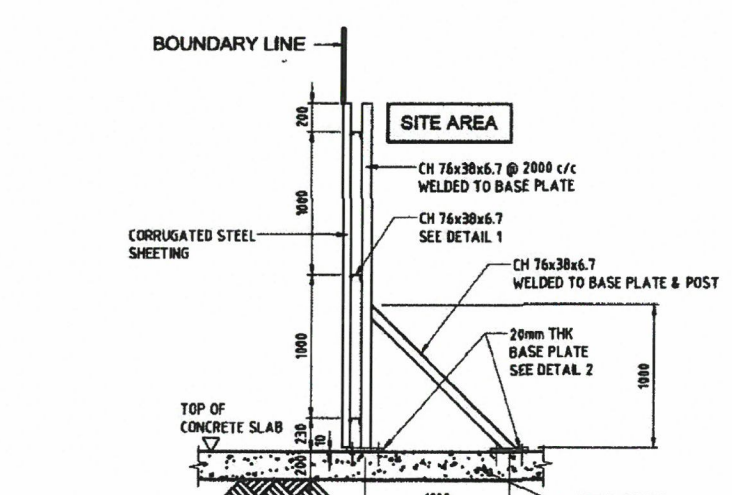
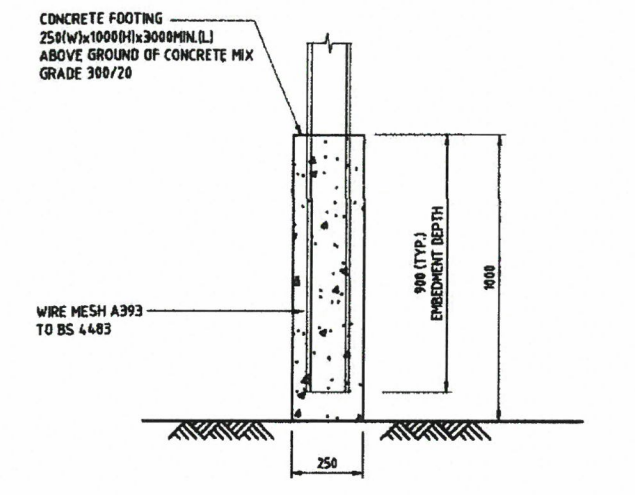


| | | | | | | | | | | | | | |
|------|--------------------------------|---------|--------------------|---------------------|--|--|--|--|---|---|--|--|-------------|
| | | | Designed By plv | | Main Contractor   | | Client  HIGHWAYS DEPARTMENT | | Contractor's Designer  Ove Arup & Partners Hong Kong Limited | | Project Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-Sea Tunnel Section | | Figure 8.6i |
| D | GATE & SECTION BB MOVED | 29NOV13 | BSh | Drawn By DAI/GAn |   |  HIGHWAYS DEPARTMENT |  | Ove Arup & Partners Hong Kong Limited | Project Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-Sea Tunnel Section | Drawing Title GENERAL-PORION 6 DEMOLITION WORKS SITE LAYOUT OF PROPOSED HOARDING AND DEMOLITION WORKS (SHEET 1 OF 2) | | | |
| C | RC STRUCTURE TO DEMOLISH SHOWN | 04NOV13 | plv | Approved By SPo | | | | | | | | | |
| B | SUB-STATION OUTLINE ADDED | 28OCT13 | plv | Date 19OCT2013 | | | | | | | | | |
| A | FIRST ISSUE | 19OCT13 | plv | | | | | | | | | | |
| Rev. | Description | Date | Checked | | Designs - Design Group Asia Venture 设计 - 中国铁建 | | | | | | | | |

THE OWNERSHIP OF THE COPYRIGHT IN THIS DRAWING IS RESERVED BY THE DESIGNER. NO REPRODUCTION OR USE OF THE DRAWING OR ANY PART THEREOF CAN BE MADE.



Screening of Construction Works by Hoardings Around Works (CM5)
Contract 2 - HY/2012/08



- DESIGN ASSUMPTIONS:**
- A) ALL STRUCTURAL STEELWORK SHALL BE GRADE 250 AND DESIGN COMPLIES WITH STRUCTURAL USE OF STEEL IN HONG KONG, 1987.
 - B) ALL CONNECTIONS BETWEEN STEEL MEMBERS SHALL BE 6mm FILLET WELD LEG LENGTH ALL AROUND.
 - C) WIND LOAD IS BASED ON 0.67kPa, i.e. 37% OF THE DESIGN WIND PRESSURE OF 1.82kPa.
 - D) SAFE BEARING PRESSURE OF SOIL UNDERNEATH PAVEMENT IS 100kPa (OR 125kPa WITH WIND CONDITION)
 - E) NO OVERHANG OF THE CATCH PLATFORM ON THE SIDE OF THE CARRIAGEWAY.

TYPICAL DETAIL OF CONCRETE COUNTERWEIGHT FOR COVERED WALKWAY
SCALE 1:25

SECTION C-C
PROPOSED SINGLE BOARD HOARDING (2440mm HIGH)
SCALE 1:50

DETAIL 1
SCALE 1:10

DETAIL 2
SCALE 1:10

| Rev. | Description | Date | Checked |
|------|------------------------------------|---------|---------|
| F | ICE COMMENTS ADDED | 28NOV13 | plv |
| E | DESIGN ASSUMPTIONS & BEAM HT ADDED | 28NOV13 | plv |
| D | DETAILS REVISED TO BD STANDARD | 28NOV13 | BSh |
| C | SECTIONS A-A, B-B & D-D REVISED | 04NOV13 | plv |
| B | REVISED HOARDING (SECTION C-C) | 31OCT13 | BSh/plv |
| A | FIRST ISSUE | 19OCT13 | plv |

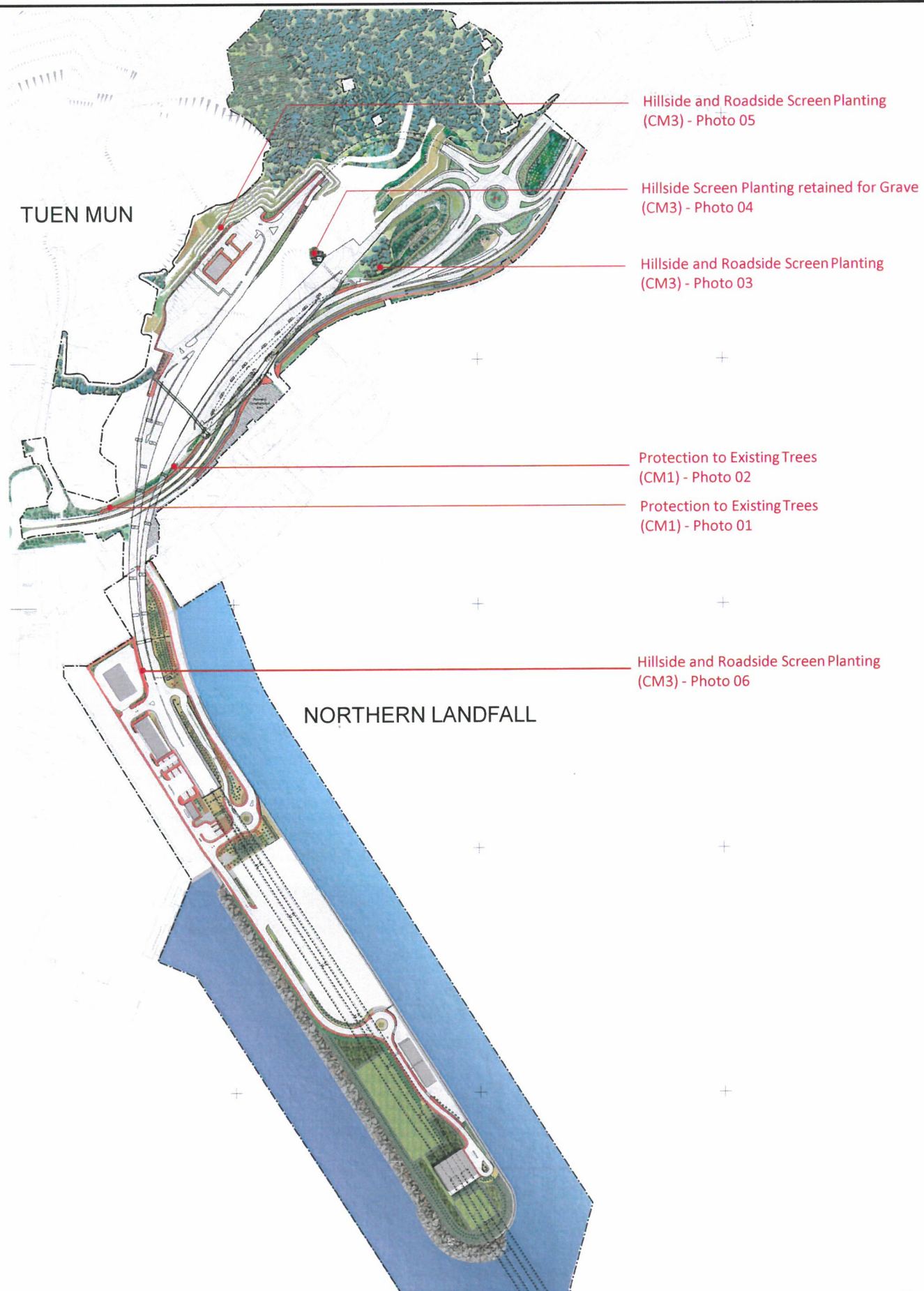
Designed By: plv
Drawn By: DA/GAN
Approved By: SPo
Date: 19OCT2013

Client: **HIGHWAYS DEPARTMENT**

Contractor's Designer: **ARUP** Ove Arup & Partners Hong Kong Limited

Project: Contract No. HY/2012/08
Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-Sea Tunnel Section
Drawing Title: GENERAL-PORTRION 6 DEMOLITION WORKS SITE LAYOUT OF PROPOSED HOARDING AND DEMOLITION WORKS (SHEET 2 OF 2)

Figure 8.6ii



Protection to Existing Trees (CM1)



Photo 01



Photo 02

Water barriers with panels for on-site tree protection

Hillside and Roadside Screen Planting (CM3)



Photo 03

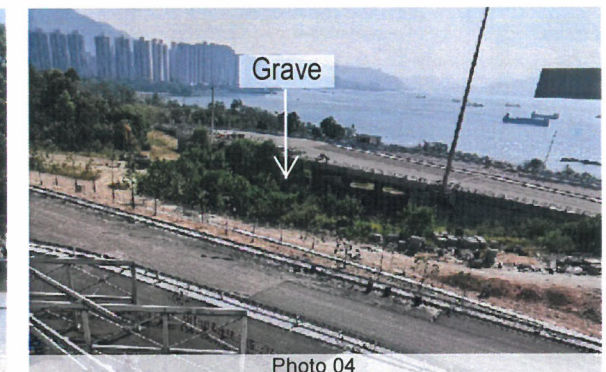


Photo 04

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



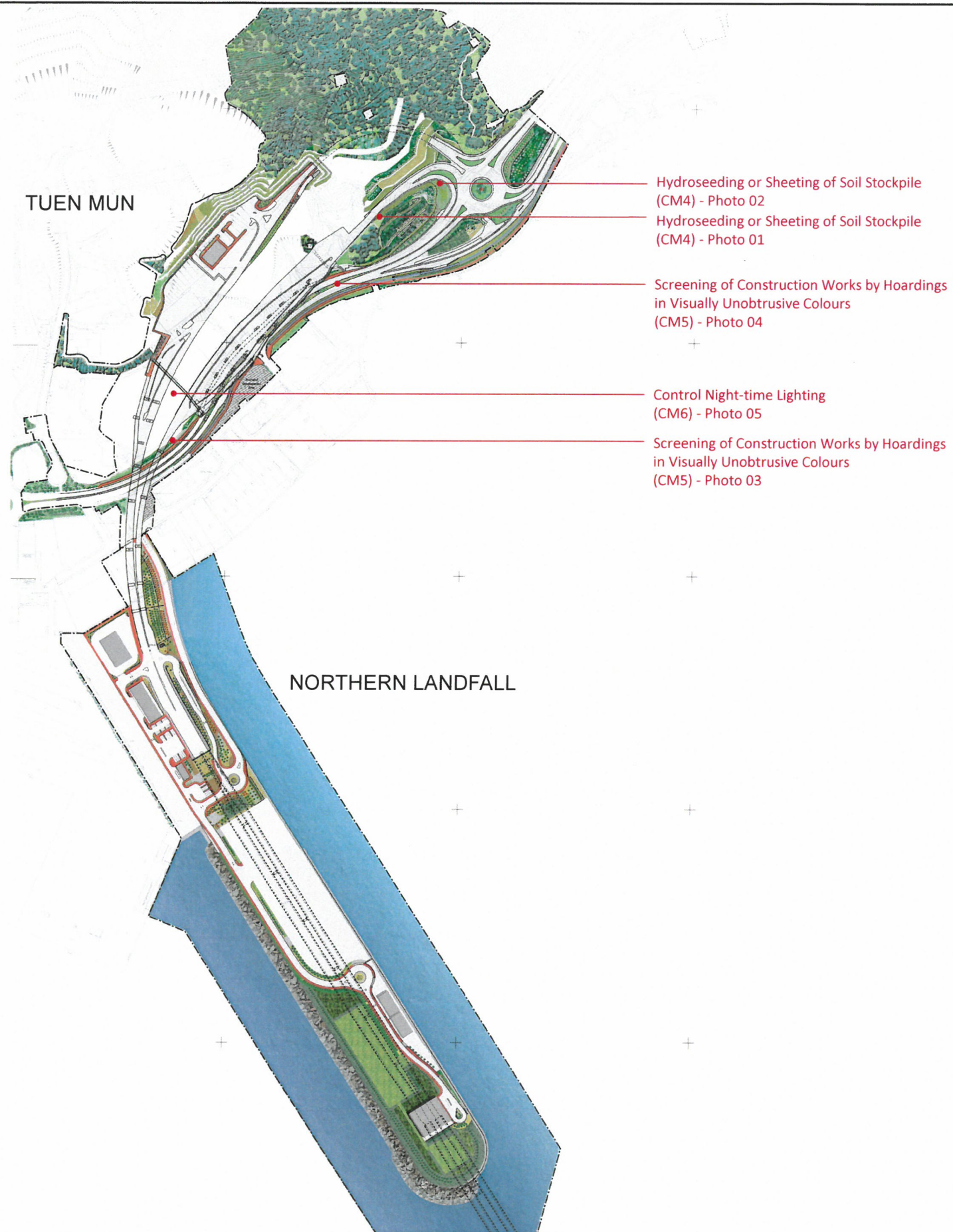
Photo 05

Screen planting on rock slope with berm planter



Photo 06

Screen planting to road associated structure



Hydroseeding or Sheeting of Soil Stockpile (CM4)

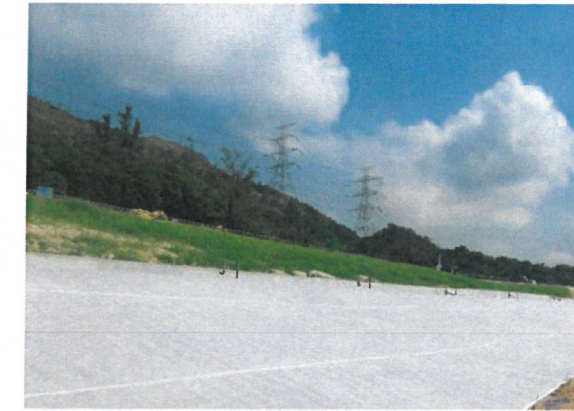


Photo 01



Photo 02

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

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



Photo 03



Photo 04

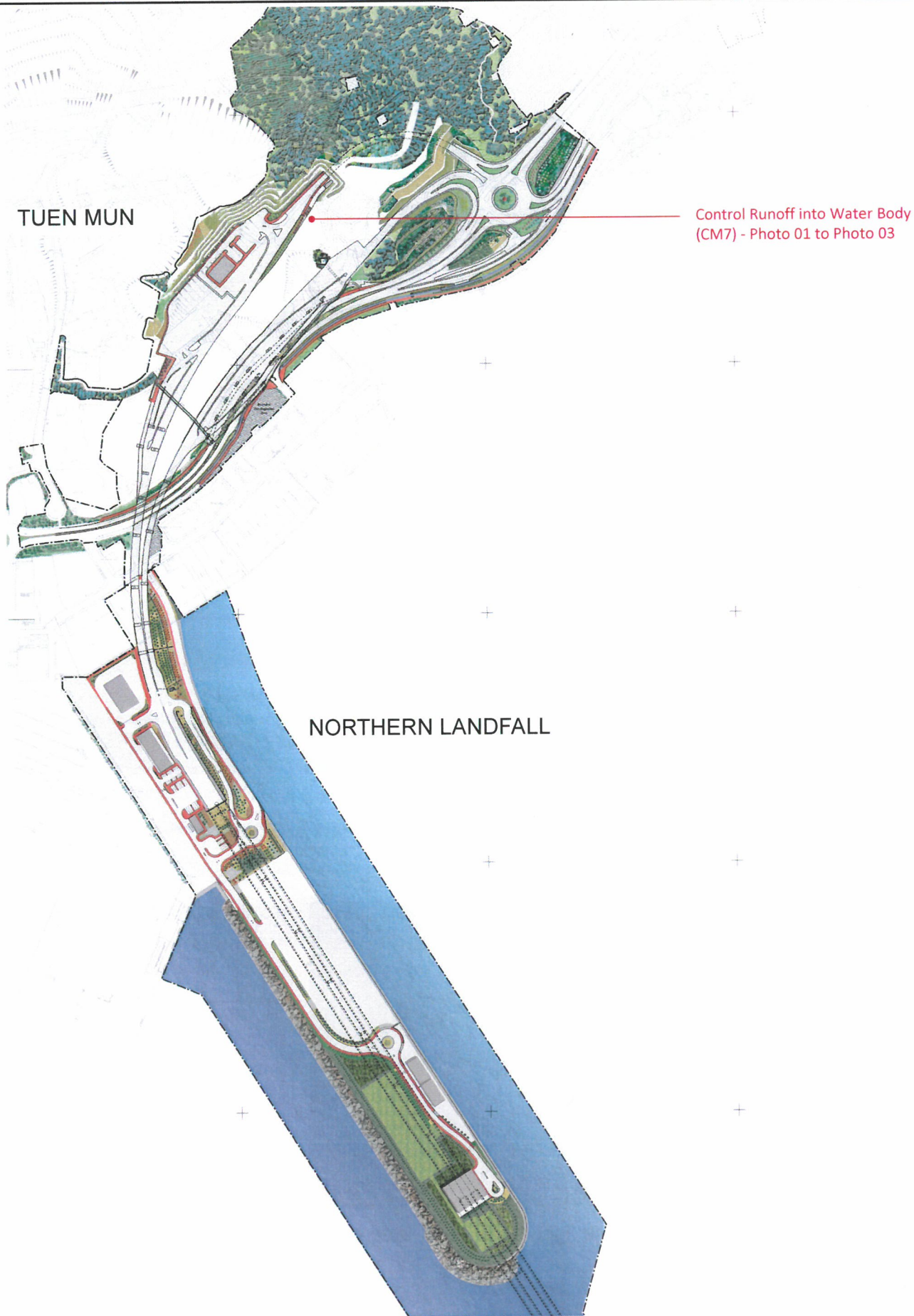
Barriers with visually unobtrusive colours to screen works.

Control of Night-time Lighting (CM6)



Photo 05

No excessive lighting for night-time operations



Control Runoff into Water Body (CM7)



Photo 01

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

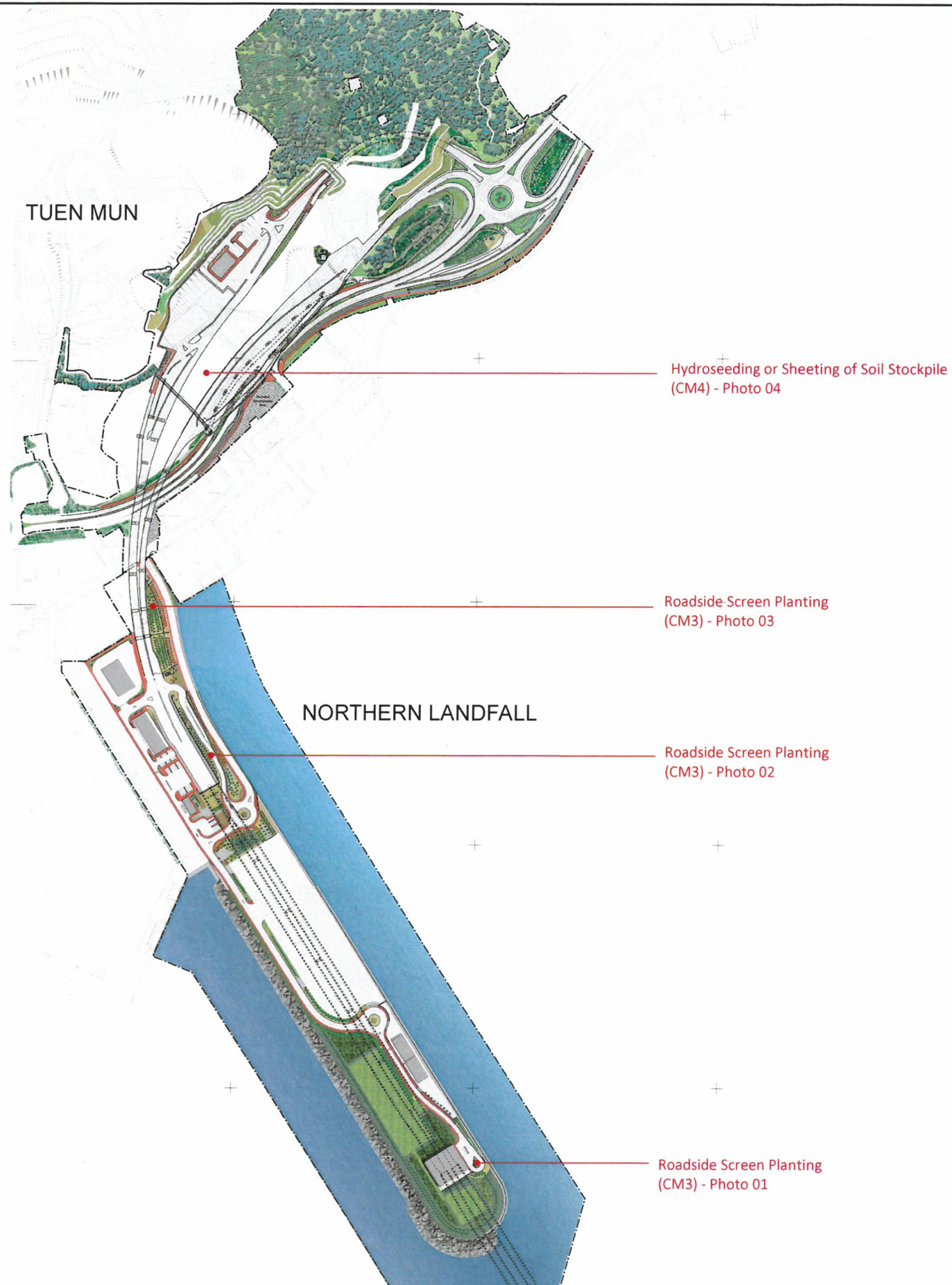


Photo 02



Photo 03

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.



Hillside and Roadside Screen Planting (CM3)



Photo 01

Roadside screen planting to building



Photo 02

Roadside screen planting to road associated structure



Photo 03

Roadside screen planting to road associated structure

Hydroseeding or Sheeting of Soil Stockpile (CM4)

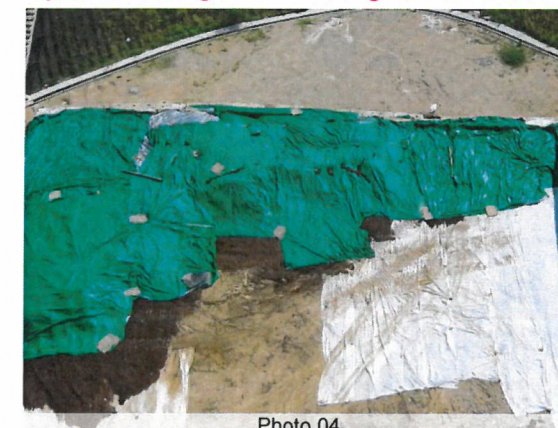
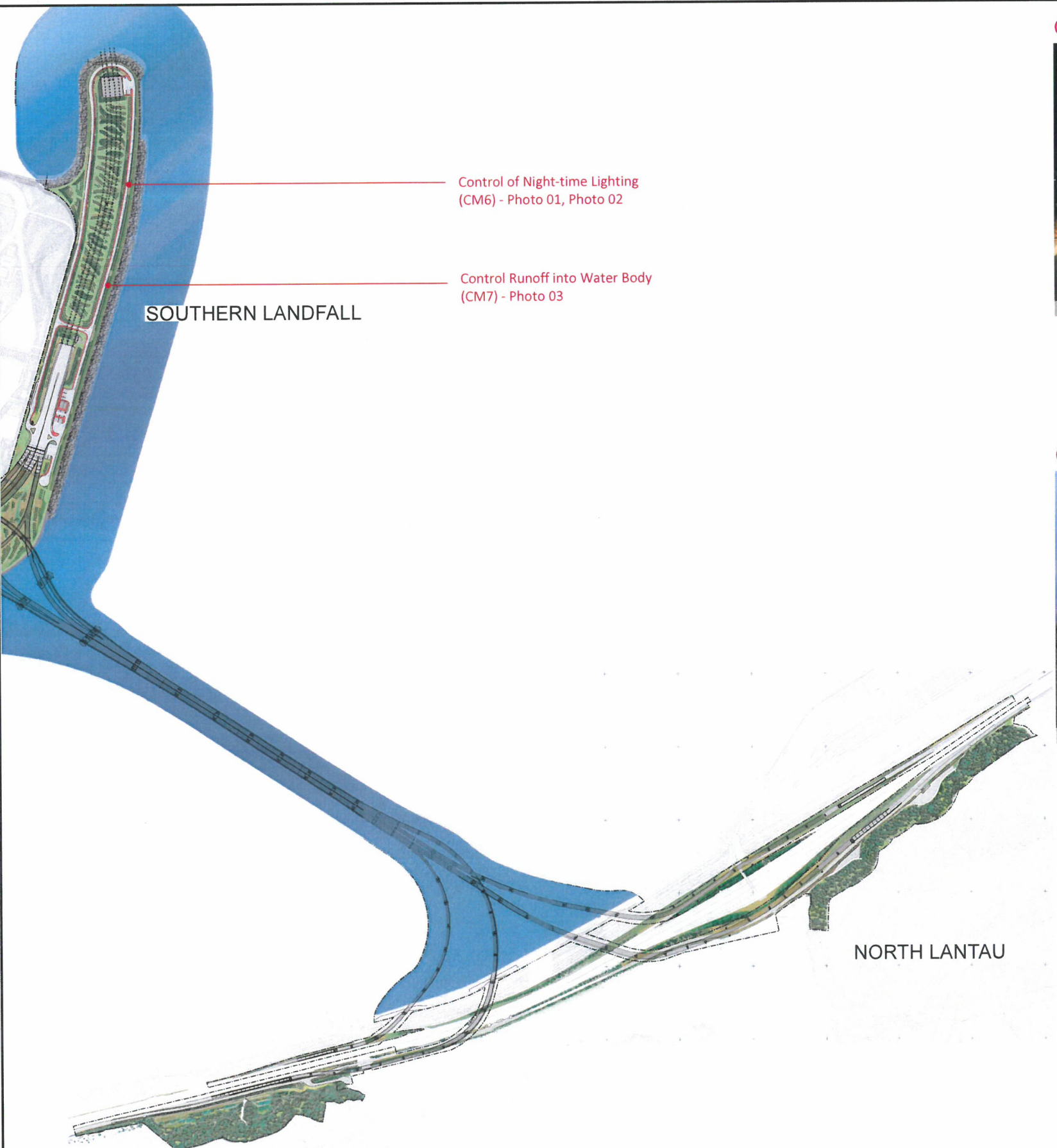
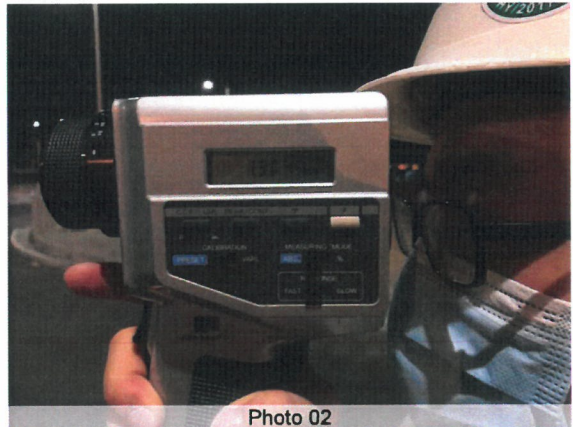
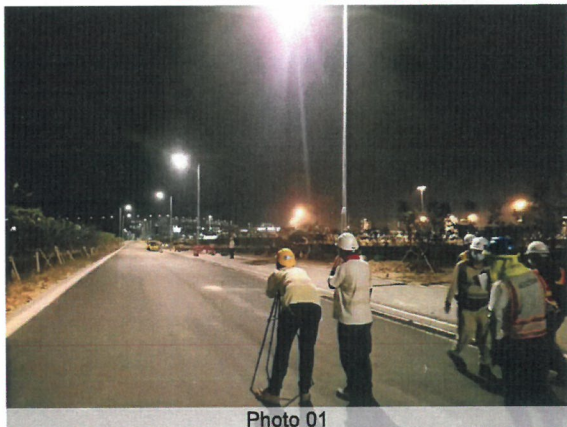


Photo 04

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



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.

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 & Visual (Design Measures) | | | | | | | |
| 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 October 2024) |
|---|----------------------------|---|---|--|---|---------------------------------|--|
| Landscape & Visual (Construction Phase Mitigation Measures) | | | | | | | |
| 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 | Fully implemented |
| | CM3 | 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 | Fully 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 |

| | | | | | | | |
|--|------|--|---------------------------|------------------------------|---|--------------------|-------------------|
| | CM10 | 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. | Minimise landscape impact | Contractors of C1, C3 and C4 | Tuen Mun, Southern Landfall (HKBCF), North Lantau | Construction 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 October 2024) |
|--|----------------------------|--|---|--|---|---------------------------------|--|
| Landscape & Visual (Operation Phase 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 | Fully 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 | Fully 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: fully implemented For compensatory tree planting outside the project boundary: fully implemented |
|-----------|---|--|---------------------------|---|---|-----------------|---|