



Our ref: ASCL-2018009

AECOM Asia Company Limited
8/F., Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, New Territories, Hong Kong

Attention: Mr. Conrad NG

2 November 2018

Dear Sir,

Contract No. NE/2017/07
Cross Bay Link, Tseung Kwan O – Main Bridge and Associated Works
Landscape Mitigation Plan

I refer to the your email dated 1 November 2018 concerning the updated Landscape Mitigation Plan dated October 2018. We have no further comment on it and verify the captioned according to section 1.9 of Environmental Permit with No.EP-459-2013.

Yours faithfully,

A handwritten signature in black ink, appearing to be "Li Wai Ming Kevin".

Li Wai Ming Kevin
Independent Environmental Checker

cc. Mr. Tam (ETL)
Simon Wong (CEDD)

Our Ref: TCS00975/18/300/L0050

AECOM Asia Company Limited
8/F, Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, New Territories, Hong Kong

Attn: Mr. Conrad Ng

2 November 2018

By e-mail

Dear Sirs,

Re: CEDD Contract NE/2017/07
Cross Bay Link, Tseng Kwan O, Main Bridge and Associated Works
Landscape Mitigation Plan

With reference to the emails of 24, 25, 31 October 2018 and 1 November 2018 attaching the Landscape Mitigation Plan prepared by AECOM, please note that we have no adverse comments on the captioned submission. We herewith certify the captioned submission pursuant to Specific Condition 2.6 of the Environmental Permit no. EP-459/2013.

Should you have any queries, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

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



T. W. Tam
Environmental Team Leader
TW/ml

cc AECOM (ER)
Acuity (IEC)

Mr. Jackie Chan
Mr. Kelvin Li

By-email
By-email

Contract No. NE/2017/07
Cross Bay Link, Tseung Kwan O – Main Bridge and Associated Works

Contract No. NE/2017/08
Cross Bay Link, Tseung Kwan O – Road D9 and Associated Works

Landscape Mitigation Plan

October 2018

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Appendices

Appendix A	Proposed Landscape and Visual Mitigation Measures
Appendix B	Restrictions for On-site Compensatory Planting
Appendix C	On-Site Compensatory Planting Plan
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1. INTRODUCTION

1.1. Background

1.1.1. This project, Cross Bay Link, Tseung Kwan O (CBL) is a “Designated Project” under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and Environmental Impact Assessment Report (AEIAR-172/2013) was prepared for the Project. The current Environmental Permit (EP) EP-459/2013 for CBL was issued on 15 August 2013.

1.1.2. According to Condition 2.6 of EP-459/2013 “The Permit Holder shall, no later than one month before commencement of construction of the Project, deposit with the Director three hard copies and two electronic copies of a Landscape Mitigation Plan.”

1.2. Scope of the Project

1.2.1. The scope of the project is to complete CBL and associated works to resolve the traffic congestions and associated problems in the Tseung Kwan O Tunnel, Wan Po Road and other roads in TKO town centre. The Project comprises the following:

(a) construction of a dual two-lane carriageway of approximately 1.8 kilometre (km) long with a cycle track and a footpath across Junk Bay mainly on viaduct, connecting Tseung Kwan O – Lam Tin Tunnel to Wan Po Road near Area 86 of TKO with the necessary slip roads;

(b) construction an approximate 210m long cycle track and footpath bridge to the waterfront promenade at the western side of Area 86 of TKO with associated lift and staircase, and junction improvements; and

(c) implementation of associated civil, structural, marine, electrical and mechanical, traffic control and surveillance system, landscaping, as well as environmental protection and mitigation work.

2. LANDSCAPE AND VISUAL MITIGATION PLANS

2.1. Objectives

2.1.1. To provide landscape design to mitigate the potential landscape and visual impact of the project during the construction and operation phase in accordance with the approved EIA Report of the project and ETWB TCW No. 3/2006 for tree preservation requirements.

2.1.2. To enhance the existing landscape and visual quality, making references to the proposed planting themes from Greening Master Plans (GMPs).

2.2. Summary of the Proposed Mitigation Measures

2.2.1. A summary of construction phase and operation phase mitigation measures according to the AEIAR are listed in Table 2.1 and Table 2.2.

2.2.2. The proposed Landscape and Visual Mitigation measures under the approved EIA are shown in Appendix A.

Table 2.1 – Construction Phase Mitigation Measures

ID No.	Construction Phase Mitigation Measures
CM01	The construction area and contractor’s temporary works area should be minimized to avoid impacts on adjacent landscape, and the reliance on off-site construction.
CM02	Reduction of construction period to practical minimum.
CM03	Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where the soil material meets acceptable criteria and where practical. The Contract Specification shall include storage and reuse of topsoil as appropriate.
CM04	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).
CM05	Trees unavoidably affected by the works shall be transplanted where practical. Trees should 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, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project program.
CM06	Advance screen planting to proposed roads and associated structures.
CM07	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone).
CM08	Screening of construction works by hoarding/noise barriers around works area in visually unobtrusive colours, to screen Works.
CM09	Control night-time lighting and glare by hooding all lights.
CM10	Ensure no run-off into water body adjacent to the Project Area.
CM11	Avoidance of excessive height and bulk of buildings and structures, namely use of longer span pier design to reduce the number of piers.

Table 2.2 – Operation Phase Mitigation Measures

OM1	Compensatory tree planting for all felled trees 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.
OM2	A continuous belt of screen planting along the roads. Planting of the belt of trees shall be carried out as advance works ahead of other site formation and building works.
OM3	Maximise soft landscape of the site, Where space permits, roadside berms /slope treatment works should be created.
OM4	During detailed design, refine structure layout to create a planting strips along the roads to enhance greenery.
OM5	Use appropriate (visually unobtrusive and non-reflective) building structural materials and colours, and aesthetic design in built structures.
OM6	Streetscape elements (e.g. paving, signage, street furniture, railing 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.
OM7	Avoidance of excessive height and bulk of buildings and structures.

2.3. Monitoring Details

2.3.1. The implementation of landscape construction works and subsequent maintenance operations during the 12-month Establishment Period must be supervised by qualified Landscape Resident Site Staff (Registered Landscape Architect or Professional Member of the Hong Kong Institute of Landscape Architects).

2.3.2. Measures to mitigate landscape and visual impacts during construction should be checked and monitored by a Registered Landscape Architect to ensure compliance with the intended aims of the mitigation measures.

2.3.3. The progress of the engineering works shall be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken.

2.3.4. The monitoring programme during construction phase and establishment as required under the EM&A Manual is listed in Table 2.3.

Table 2.3 – Monitoring Programme

Stage	Monitoring Task	Monitoring Period	Form of Approval	Frequency
Construction	Monitoring of the contractor's operations during the construction period.	Report on Contractor's compliance by ET.	Counter-signature of report by IEC.	Monthly
Establishment	Monitoring of the planting works during the 24-month Establishment Period after completion of the construction works.	Report on Contractor's compliance by ET.	Counter-signature of report by IEC	Bi-Monthly

2.3.5. The event and action plan as required under the EM&A Manual is listed in Table 2.4.

Table 2.4 – Event and Action Plan

Event	Action			
	ET	IEC	ER	Contractor
Exceedance	1. Identify Source; 2. Inform IEC and ER; 3. Discuss remedial actions with IEC, ER and Contractor; 4. Monitor remedial actions until rectification has been completed.	1. Check monitoring report; 2. Check Contractors working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise ER on effectiveness of proposed remedial measures; 5. Check implementation of remedial measures.	1. Notify Contractor; 2. Ensure remedial measures are properly implemented.	1. Amend working methods; 2. Rectify damage and undertake any necessary replacement.
Repeated Exceedance	1. Identify source; 2. Inform IEC and ER; 3. Increase monitoring frequency; 4. Discuss remedial actions with IEC, ER and Contractor; 5. Monitor remedial actions until rectification has been completed; 6. If exceedance stops, cease additional monitoring.	1. Check monitoring report; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise ER on effectiveness of proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Notify Contractor; 2. Ensure remedial measures are properly implemented.	1. Amend working methods; 2. Rectify damage and undertake any necessary replacement.

3. PROPOSED PLANTING AND TREE TREATMENTS FOR CROSS BAY LINK

3.1. Compensatory Planting Proposals

3.1.1. Due to the proposed construction works, 430 trees, (including 13 no. of dead trees) are proposed to be felled. None of them are affected by slope works. 430 heavy standard trees shall therefore be required to compensate the loss trees for the projects. A summary of the tree survey is listed in Table 3.1 below. An updated tree survey was conducted in August 2018 and the updated status is listed below.

Table 3.1 – Summary of Tree Survey and Tree Treatment Recommendations

Total Trees Surveyed within the Project Boundary	Trees to be Retained	Trees to be Transplanted	Living Trees to be Felled		Dead Trees to be Felled
			Affected by Proposed Works	Routine Arboriculture Maintenance for Undesirable Species	Within the Construction Works Area
610	70	16	417	94	13

3.1.2. Compensatory trees will be provided within the project boundary as far as possible. Available space for possible landscape planting had been explored within the project boundary, however owing to the constraints detailed below and as illustrated in Appendix B, the available landscape space within the project boundary is considered rather limited:

- Central Median of Road D9**
The central median of Road D9 is occupied by supporting columns for the noise enclosure, and its width is less than 2-metre width, which is considered unfavourable for heavy standard tree planting and future tree growth. Moreover, the central median is located between high speed planes where a safe maintenance access could not be provided. Therefore this location is considered not suitable for compensatory planting.
- Planting Area adjacent to Cycle Track and Footpath along CBL Marine Viaduct**
Based on the recently conducted wind tunnel test on the bridge deck section, trees planted along the viaduct would have a significantly adverse effect on the wind resistance of the bridge, and hence is considered infeasible.
- Planting Area along Existing Wan Po Road**
The planting area along Wan Po Road has been occupied by existing trees. As shown in the updated compensatory planting plan, 4 additional compensatory planting trees have been proposed to fill the gaps between existing trees. However, to ensure adequate space for future tree growth, no other compensatory planting trees would be proposed along Wan Po Road.
- Planting Area along the Waterfront of Area 86**
This area is located within Yellow Area of TKO Town Lot No. 70, in which the landscape works would be designed and developed by MTRCL. Design coordination is in progress to ensure overall greening quality. However, no compensatory planting under CBL would be located in this area.
- Planting Area to the North of Road D9**
The proposed Road D9 would be constructed immediately adjacent to the Yellow Hatched Black Area of TKOTL 70 which is a 3m strip abutting the lot boundary of TKOTL70. Proposed landscape works along the 3m strip Yellow-Hatched Black Area would be designed and developed by MTRCL. Design coordination is in progress to ensure overall greening quality. However, no compensatory planting under CBL would be located in this area.

- Planting Areas to the South of Road D9**
Apart from planters adjacent to the proposed Road D9, planting along the southern side of Road D9 is restricted by existing seawalls. The clearance between the edge of Road D9 structures and the existing seawall is approximately 2 metres, and the underground space would be occupied by geotextile and spall layers associated with the seawall. This soiling and underground condition is considered not suitable for compensatory tree planting.

3.1.3. An updated tree survey for Cross Bay Link Works Area A was conducted in August 2018. A summary of the trees surveyed and treated are summarized in Table 3.2 below and Appendix E.

Table 3.2 – Tree Survey for Works Area A

	Trees Felled	Dead	To Be Confirmed	Total
Approved treatment	41	1	15	57
Current status	41	1	15	57

3.1.4. Having explored possible planting area within the project boundary, it is anticipated that on site compensation to accommodate all affected trees would not be feasible. Off-site tree compensation within the boundary of TKO-LLT project is therefore recommended.

3.1.5. Based on the limited available landscape space for compensation within the project boundary, only 60 heavy standard trees can be compensated within the site boundary. The on-site Compensatory Planting Plan is illustrated in Appendix C. The remaining 389 will be compensated off-site and will take up the part of the surplus compensation quota within the project boundary of TKO-LTT as illustrated in Appendix D. The proposed tree species to be compensated are listed in Table 3.3.

Table 3.3 – List of Tree Species to be compensated

Species	Spacing (mm)	Size
Tree Planting along roadside planting areas in Road D9		
Pongamiapinnata 水黃皮*	5000	Heavy Standard
Livistonachinensis 浦葵	3000	Heavy Standard
Wodyetia bifurcate 狐尾椰子	3000	Heavy Standard
Tree Planting in reclaimed land at Road P2 of TKO-LTT		
Ficusmicrocarpa 細葉榕	10000	Heavy Standard
Bischofia javanica 秋楓	6000	Heavy Standard
Terminaliamantaly 細葉欖仁	6000	Heavy Standard
Liquidambar formosana 楓香*	6000	Heavy Standard
Litsea glutinosa 潺槁樹	6000	Heavy Standard
Terminaliacatappa 欖仁樹	6000	Heavy Standard
Michelia x abla 白蘭	5000	Heavy Standard
Bauhinia variegata var. candida 白花洋紫荊	5000	Heavy Standard
Tabebuia chrysantha 黃花風鈴木	5000	Heavy Standard
Thespesiapopulnea 恒春黃槿*	5000	Heavy Standard
Pongamiapinnata 水黃皮	5000	Heavy Standard

Bauhinia variegata 宮粉羊蹄甲	5000	Heavy Standard
Lagerstroemia speciosa 大花紫薇	5000	Heavy Standard
Washingtoniarobusta 華盛頓葵	5000	Heavy Standard
Neodypsisdecaryi 三角椰子	5000	Heavy Standard
Tabebuiaimpetiginosa 紅花風鈴木	5000	Heavy Standard
Callistemon rigidus 紅千層	5000	Heavy Standard
Wodyetia bifurcata 狐尾椰子	3000	Heavy Standard

* Native Species

3.2. Compensation by Other Greening Measures

3.2.1. Greening measures including amenity shrub, ground cover planting and climbers on retaining wall/facade of noise enclosure would be provided where possible within the project boundary to recover the loss of greenery in terms of quality, increasing overall site coverage of greenery, and maximizing green opportunities with reference to Para. I(c) of Appendix A of DEVB TCW No. 7/2015.

4. LANDSCAPE PROPOSALS

4.1. Landscape Design

4.1.1. Landscape master plan for the Project is shown in Figures 60329339/LM/002 to 60329339/LM/008.

4.1.2. The landscape design intention is to maximize greening within the project boundary and provide a pleasant landscaped environment for the enjoyment for the users of the project which include motorists, cyclists and pedestrians.

4.1.3. Landscape Proposals for Cross Bay Link include:

- Retention of existing trees and vegetation where possible;
- Provision of seamless hard landscape design treatments to the waterfront promenade and roadside landscape areas in TKO area;
- Provision of amenity planting with ground covers or small shrubs along the planters that separate the carriageway, cycle track and pavement on the bridge deck;
- Tree and Shrub Planting are proposed along the noise enclosures at the both sides of Road P9 where space is available; and
- Climbers are proposed to soften the retaining wall and facade of the noise enclosures where space for tree planting is not available.

4.2. Hard Landscape Materials

4.2.1. The following hard landscape materials are proposed for the Project:

- The paving pattern for the pavement at grade along Road D9 is proposed to match the existing paving pattern adopted in TKO District and the paving pattern on bridge deck is proposed to match the pattern adopted along the TKO waterfront at the eastern side of the channel;
- The cycle track will be surfaced with high friction coating to provide grip to cyclists. Green pigments will be added to give a thematic 'leaf green' colour common to the cycle tracks in Tseung Kwan O;
- All planters will be clad in natural granite. The planter on bridge deck shall be in fine bush hammered finish to echo with the modern style of the bridge and the planter at grade along Road P9 shall be in natural cleft finish to match to the existing planter finish adopted in TKO District; and
- Details of hard landscape treatments to the project are illustrated in Figures 60329339/LM/021 to 60329339/LM/023.

4.3. Soft Landscape Materials

4.3.1. Soft Landscape Material for Project is shown in Figures 60329339/LM/031. An indicative planting schedule for the landscape areas is shown in Table 4.1

Table 4.1 – Proposed Plant Species for Cross Bay Link

Species	Spacing	Size (mm)
Amenity Planting on Bridge Deck		
Shrub / Herbaceous Plant / Ground Cover Planting		
Catharanthus roseus 長春花	250	250(H) x 250(S)
Lantana camara 黃花馬櫻丹	250	250(H) x 250(S)
Lantana montevidensis 小葉馬櫻丹	250	250(H) x 250(S)
Cuphea hyssopifolia 細葉雪茄花	250	250(H) x 250(S)
Amenity Planting along Road P9		
Tree Planting		
Livistonachinensis 蒲葵	5000	Heavy Standard
Pongamiapinnata* 水黃皮	5000	Heavy Standard
Wodyetiabifurcata 狐尾椰子	5000	Heavy Standard
Shrub Planting		
Duranta repens 'Golden leaves' 金連翹	400	500(H) x 500(S)
Ixona williamsii 龍船花	400	500(H) x 500(S)
Rhaphiolep isindica* 車輪梅	400	500(H) x 500(S)
Scaevola sericea* 草海桐	400	500(H) x 500(S)
Climbers Planting		
Ficuspumila 薜荔	300	Min. 3 shoots per plant, 1000mm long
Bauhinia corymbosa 首冠藤	300	Min. 3 shoots per plant, 1000mm long
Podranea ricasoliana 紫雲藤	300	Min. 3 shoots per plant, 1000mm long

*Native Species

4.4. Proposed Implementation Schedule of Mitigation Measures

4.4.1. Programme of mitigation measures during construction and operation phase.

	Start from	End in
Construction Phase		
CM01	Late 2018	Early 2022
CM02	Late 2018	Early 2022
CM03	Late 2018	Early 2022
CM04	Late 2018	Early 2022
CM05	Late 2018	Early 2022
CM06	Late 2020	Early 2022
CM07	Late 2020	Early 2022
CM08	Late 2018	Early 2022
CM09	Late 2018	Early 2022
CM10	Late 2018	Early 2022
CM11	Late 2018	Early 2022
Operation Phase		
All OMs	Early 2022	-

5. MANAGEMENT AND MAINTENANCE OF LANDSCAPE WORKS

5.1. Responsibility of relevant parties on mitigation measures

ID No.	Construction Phase Mitigation Measures	Funding and Implementation Agency	Management and Maintenance Agency
CM01	The construction area and contractor's temporary works area should be minimized to avoid impacts on adjacent landscape, and the reliance on off-site construction.	CEDD (via Contractor)	CEDD
CM02	Reduction of construction period to practical minimum.	CEDD (via Contractor)	CEDD (via Contractor)
CM03	Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where the soil material meets acceptable criteria and where practical. The Contract Specification shall include storage and reuse of topsoil as appropriate.	CEDD (via Contractor)	CEDD (via Contractor)
CM04	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,	CEDD (via Contractor)	CEDD (via Contractor)

	including trees in contractor's works areas. Tree protection measures will be detailed at Tree Removal Application stage).		
CM05	Trees unavoidably affected by the works shall be transplanted where practical. Trees should 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, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project program.	CEDD (via Contractor)	CEDD (via Contractor)
CM06	Advance screen planting to proposed roads and associated structures.	CEDD (via Contractor)	CEDD (via Contractor)

ID No.	Construction Phase Mitigation Measures	Funding and Implementation Agency	Management and Maintenance Agency
CM07	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone).	CEDD (via Contractor)	CEDD (via Contractor)
CM08	Screening of construction works by hoarding/noise barriers around works area in visually unobtrusive colours, to screen Works.	CEDD (via Contractor)	CEDD (via Contractor)
CM09	Control night-time lighting and glare by hooding all lights.	CEDD (via Contractor)	CEDD (via Contractor)
CM10	Ensure no run-off into water body adjacent to the Project Area.	CEDD (via Contractor)	CEDD (via Contractor)
CM11	Avoidance of excessive height and bulk of buildings and structures, namely use of longer span pier design to reduce the number of piers.	CEDD (via Contractor)	CEDD (via Contractor)

ID No.	Operation Phase Mitigation Measures	Funding and Implementation Agency	Management and Maintenance Agency
OM1	Compensatory tree planting for all felled trees 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.	CEDD	CEDD/LCSD
OM2	A continuous belt of screen planting along the roads. Planting of the belt of trees shall be carried out as advance works ahead of other site formation and building works.	CEDD	CEDD/LCSD
OM3	Maximise soft landscape of the site, Where space permits, roadside berms /slope treatment works should be created.	CEDD	CEDD/LCSD
OM4	During detailed design, refine structure layout to create a planting strips along the roads to enhance greenery.	CEDD	CEDD/LCSD
OM5	Use appropriate (visually unobtrusive and non-reflective) building structural materials and colours, and aesthetic design in built structures.	CEDD	CEDD
OM6	Streetscape elements (e.g. paving, signage, street furniture, railing 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.	CEDD	CEDD
OM7	Avoidance of excessive height and bulk of buildings and structures.	CEDD	CEDD

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

LEGEND

- Pavement for Footpath at Grade to be maintained by HyD
- Pavement for Footpath on Bridge Deck to be maintained by HyD
- CycleTracks to be maintained by HyD
- Noise Barrier to be maintained by HyD
- Proposed Amenity Shrub and Ground Cover Planting to be maintained by LCSD
- Viewing Deck to be maintained by HyD
- Cycle Racks to be maintained by HyD
- Existing Vegetation to be Retained and Handed Over to MTRCL for Further Development
- Area under MTRCL Lease
- Proposed Climbers on Retaining Wall/ Facade of Noise Enclosure to be maintained by LCSD
- Trees to be retained and maintained by LCSD
- Final Location of Transplanted Tree to be maintained by LCSD
- Proposed Amenity Tree Planting to be maintained by LCSD
- Proposed Palm Tree to be maintained by LCSD

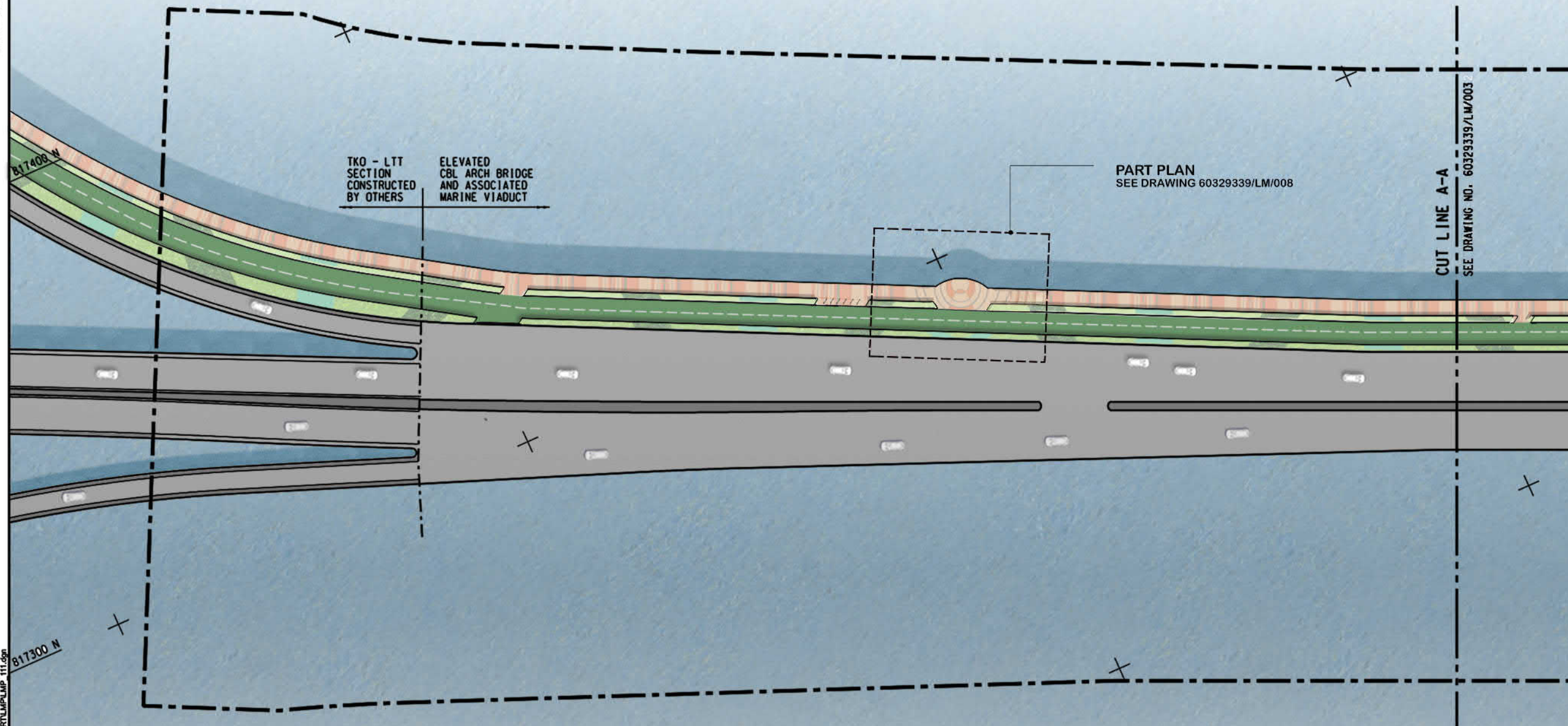
NOTE:

LEGEND:

SITE BOUNDARY



**JUNK BAY
(TSEUNG KWAN O)**



TKO - LTT SECTION CONSTRUCTED BY OTHERS
ELEVATED CBL ARCH BRIDGE AND ASSOCIATED MARINE VIADUCT

PART PLAN
SEE DRAWING 60329339/LM/008

CUT LINE A-A
SEE DRAWING NO. 60329339/LM/003

AECOM

PROJECT
CROSS BAY LINK,
TSEUNG KWAN O -
DESIGN AND
CONSTRUCTION

CLIENT
土木工程拓展署
CEDD
Civil Engineering and
Development Department

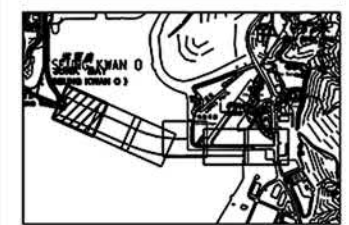
CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.

SCALE
A1 1:500
DIMENSION UNIT
METRES



PROJECT NO.
60329339
CONTRACT NO.
CE 6/2014 (HY)

SHEET TITLE
LANDSCAPE MASTER PLAN















SHEET NUMBER
60329339/LM/002



Pd4 File by: CHEWFI 20150520
PATH: P:\PROJECTS\60329339\DRAWING\REPORT\LMP_111.dgn

ISO A1 594mm x 841mm
 Approved:
 Checked:
 Designer:
 Project Management Initials:
 Pld File by: CHENFJ_2015/02/20
 PATH: P:\PROJECTS\60329339\DRAWING\REPORT\LMP\LMP_112.dgn

LEGEND

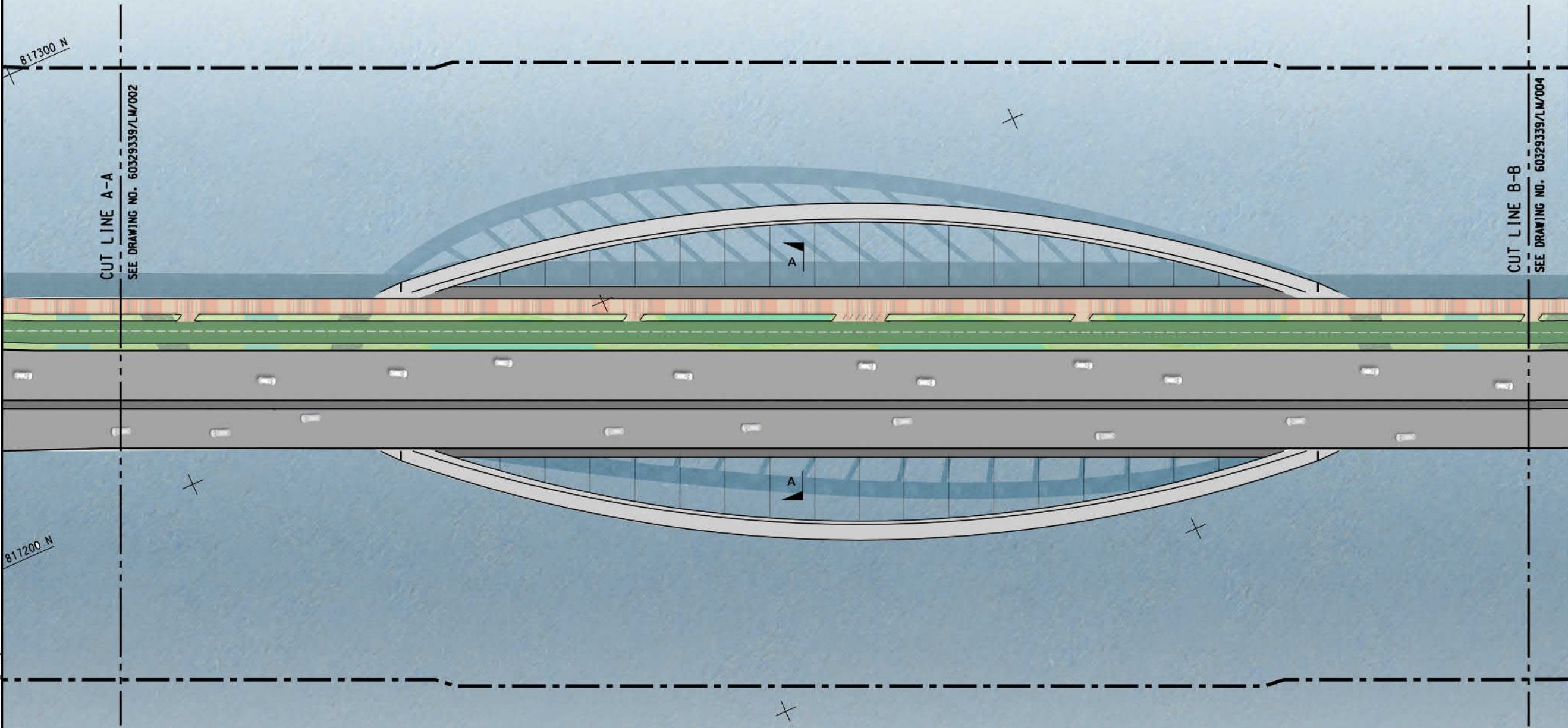
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-  Area under MTRCL Lease
-  Proposed Climbers on Retaining Wall/ Facade of Noise Enclosure to be maintained by LCSD
-  Trees to be retained and maintained by LCSD
-  Final Location of Transplanted Tree to be maintained by LCSD
-  Proposed Amenity Tree Planting to be maintained by LCSD
-  Proposed Palm Tree to be maintained by LCSD

NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/LM/002 TO 007.
2. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60329339/LM/002



**JUNK BAY
(TSEUNG KWAN O)**



PROJECT
 項目
**CROSS BAY LINK,
 TSEUNG KWAN O -
 DESIGN AND
 CONSTRUCTION**

CLIENT
 業主
 土木工程拓展署
 Civil Engineering and
 Development Department

CONSULTANT
 工程顧問公司
 AECOM Asia Company Ltd.
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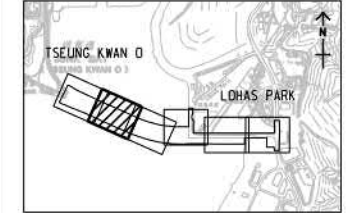
ISSUE/REVISION
 修訂

I/R	DATE	DESCRIPTION	CHK.
修訂	日期	內容摘要	核核

STATUS
 階段

SCALE
 比例
 A1 1 : 500
DIMENSION UNIT
 尺寸單位
 METRES

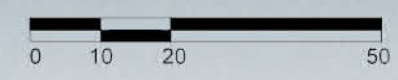
KEY PLAN A1 1 : 30000
 索引圖



PROJECT NO.
 項目編號
 60329339
CONTRACT NO.
 合約編號
 CE 6/2014 (HY)

SHEET TITLE
 圖紙名稱
 LANDSCAPE MASTER PLAN















SHEET NUMBER
 圖紙編號
 60329339/LM/003



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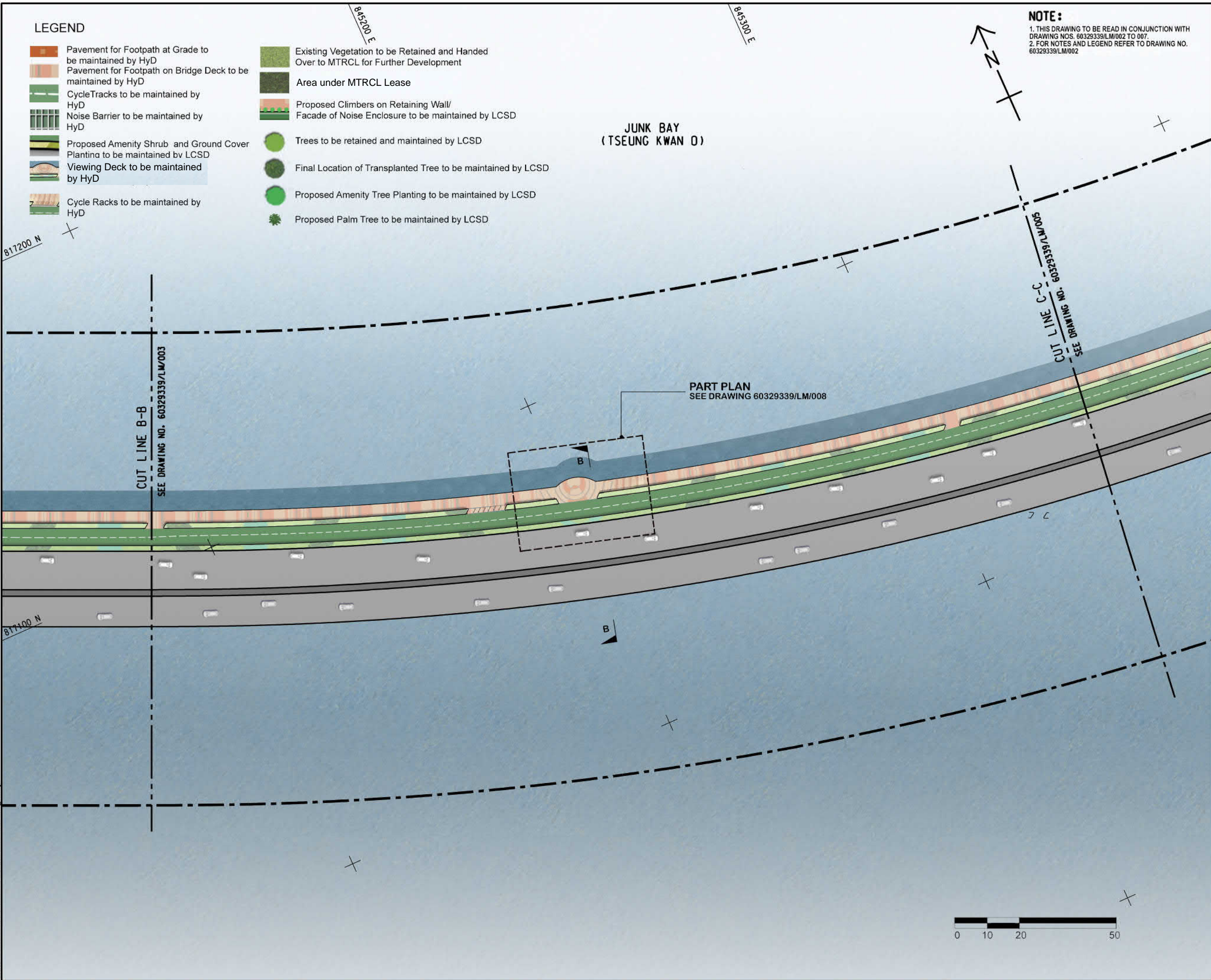
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Approved:
Checked:
Designer:
Project Management Initials:
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2015/05/20
Pkg File by: CHEWFL
P:\PROJECTS\60329339\DRAWING\REPORT\LMP\LMP_113.dgn

LEGEND

-  Pavement for Footpath at Grade to be maintained by HyD
-  Pavement for Footpath on Bridge Deck to be maintained by HyD
-  CycleTracks to be maintained by HyD
-  Noise Barrier to be maintained by HyD
-  Proposed Amenity Shrub and Ground Cover Planting to be maintained by LCSD
-  Viewing Deck to be maintained by HyD
-  Cycle Racks to be maintained by HyD
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NOTE:
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2. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60329339/LM/002

**JUNK BAY
(TSEUNG KWAN O)**



AECOM

PROJECT
項目

**CROSS BAY LINK,
TSEUNG KWAN O -
DESIGN AND
CONSTRUCTION**

CLIENT
業主

CEDD 土木工程拓展署
Civil Engineering and
Development Department

CONSULTANT
工程顧問公司

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SUB-CONSULTANTS
分門工程顧問公司

ISSUE/REVISION
修訂

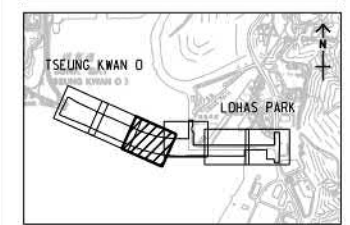
I/R	DATE	DESCRIPTION	CHK.
修訂	日期	內容摘要	核對

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 30000



PROJECT NO. 項目編號
60329339

CONTRACT NO. 合約編號
CE 6/2014 (HY)

SHEET TITLE 圖紙名稱
LANDSCAPE MASTER PLAN

SHEET NUMBER 圖紙編號
60329339/LM/004

SHEET 3 OF 6

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Approved:















Checked:

Designer:

Project Management Initials:

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PATH: P:\PROJECTS\60329339\DRAWING\REPORT\LMP\LMP_114.dwg

LEGEND

-  Pavement for Footpath at Grade to be maintained by HyD
-  Pavement for Footpath on Bridge Deck to be maintained by HyD
-  CycleTracks to be maintained by HyD
-  Noise Barrier to be maintained by HyD
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-  Viewing Deck to be maintained by HyD
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-  Proposed Palm Tree to be maintained by LCSD

NOTE:

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2. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60329339/LM/002



PROJECT

**CROSS BAY LINK,
TSEUNG KWAN O -
DESIGN AND
CONSTRUCTION**

CLIENT



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ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.

STATUS

SCALE

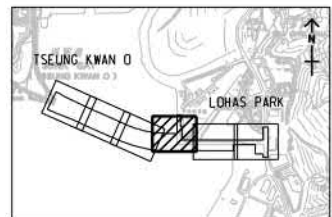
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DIMENSION UNIT

METRES

KEY PLAN

A1 1:30000



PROJECT NO.

60329339

CONTRACT NO.

CE 6/2014 (HY)

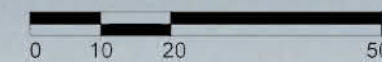
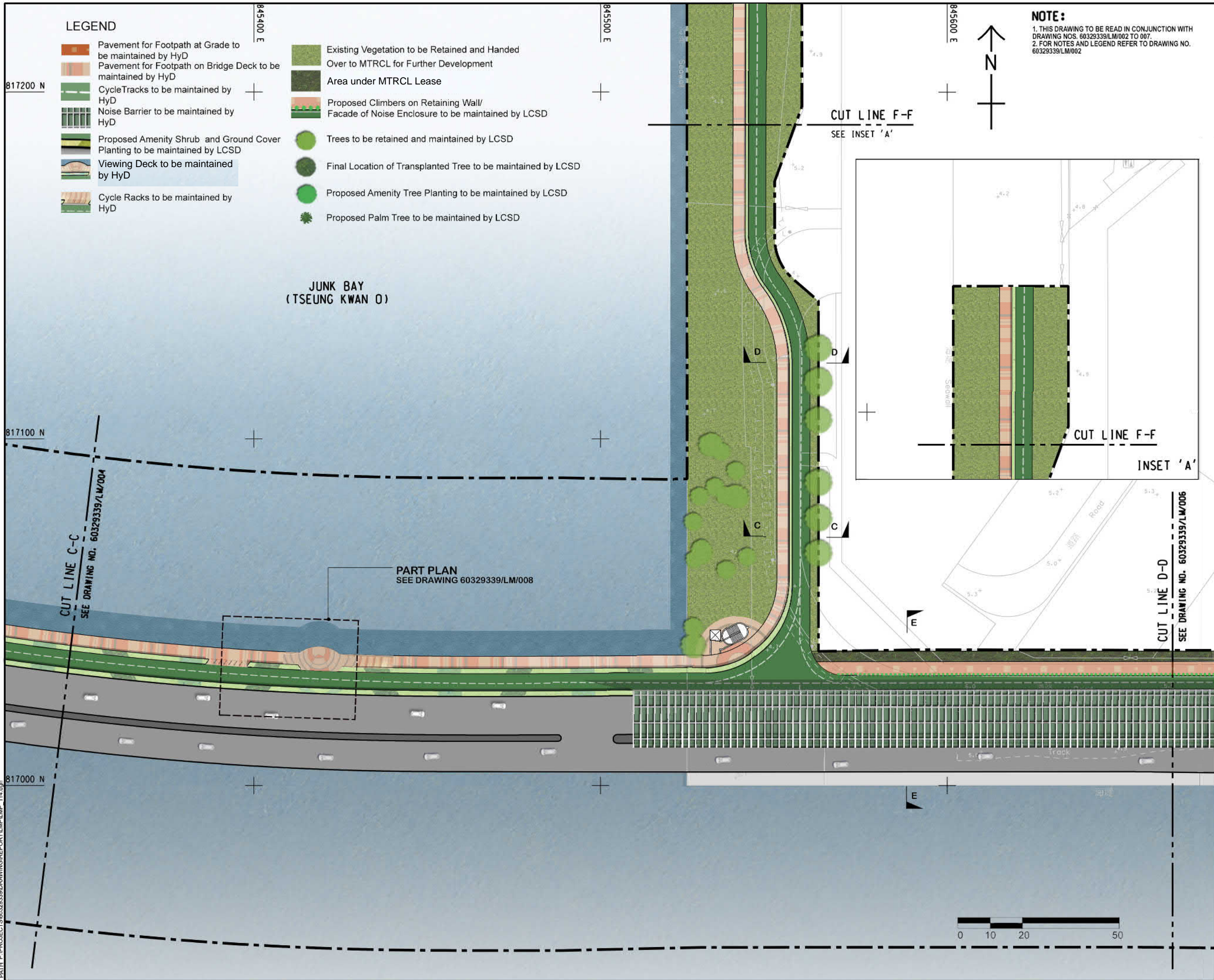
SHEET TITLE

LANDSCAPE MASTER PLAN

SHEET NUMBER

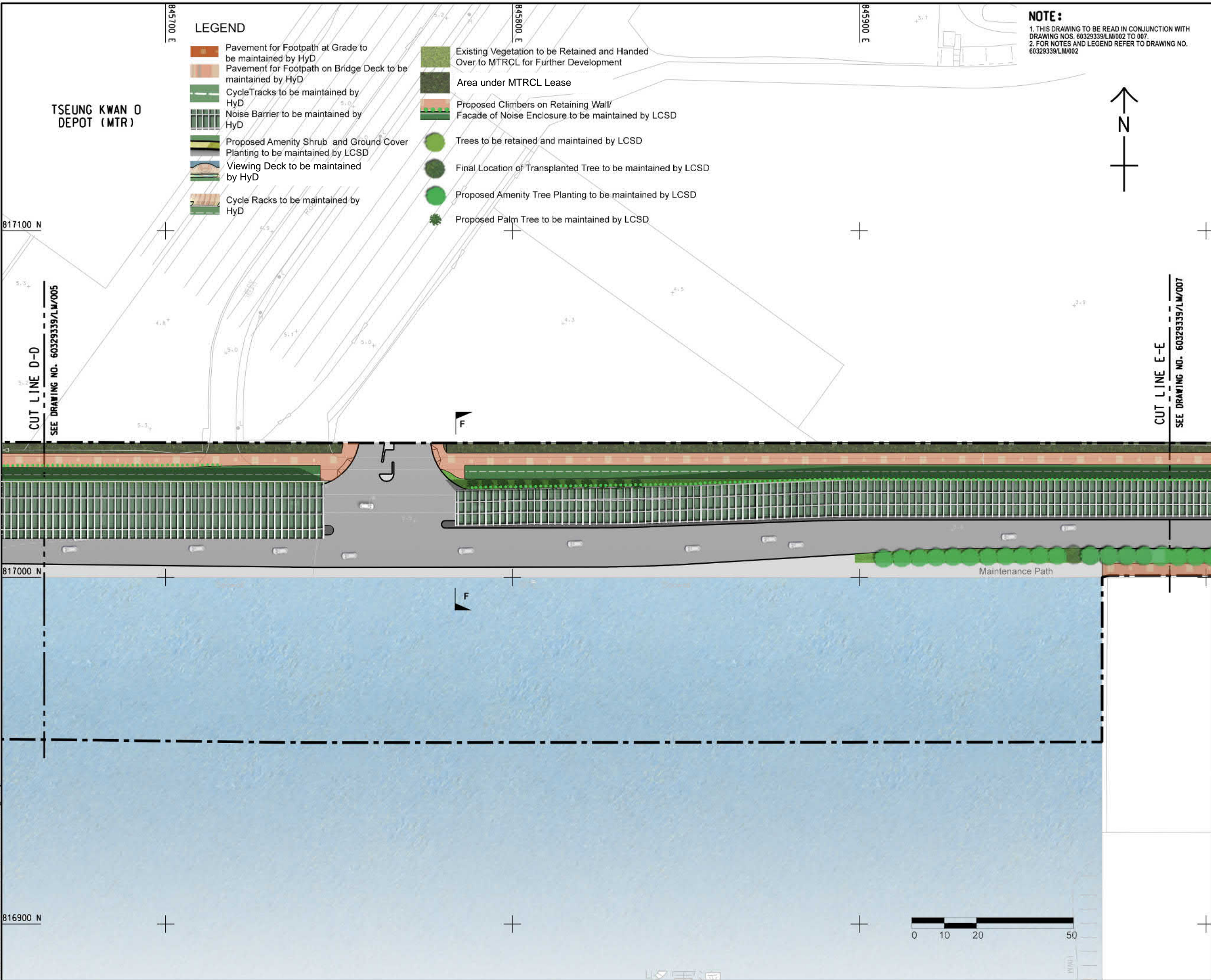
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SHEET 4 OF 6



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 Project Management Initials:
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NOTE:
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 2. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60329339/LM/002

AECOM

PROJECT
 項目
**CROSS BAY LINK,
 TSEUNG KWAN O -
 DESIGN AND
 CONSTRUCTION**

CLIENT
 業主
CEDD 土木工程拓展署
 Civil Engineering and
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CONSULTANT
 工程顧問公司
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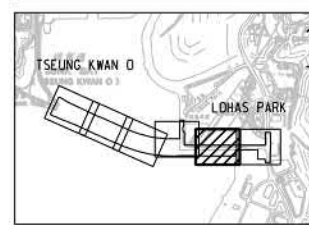
ISSUE/REVISION
 修訂

I/R	DATE	DESCRIPTION	CHK.
修訂	日期	內容摘要	核核

STATUS
 階段

SCALE **DIMENSION UNIT**
 比例 尺寸單位
 A1 1 : 500 METRES

KEY PLAN A1 1 : 30000
 索引圖



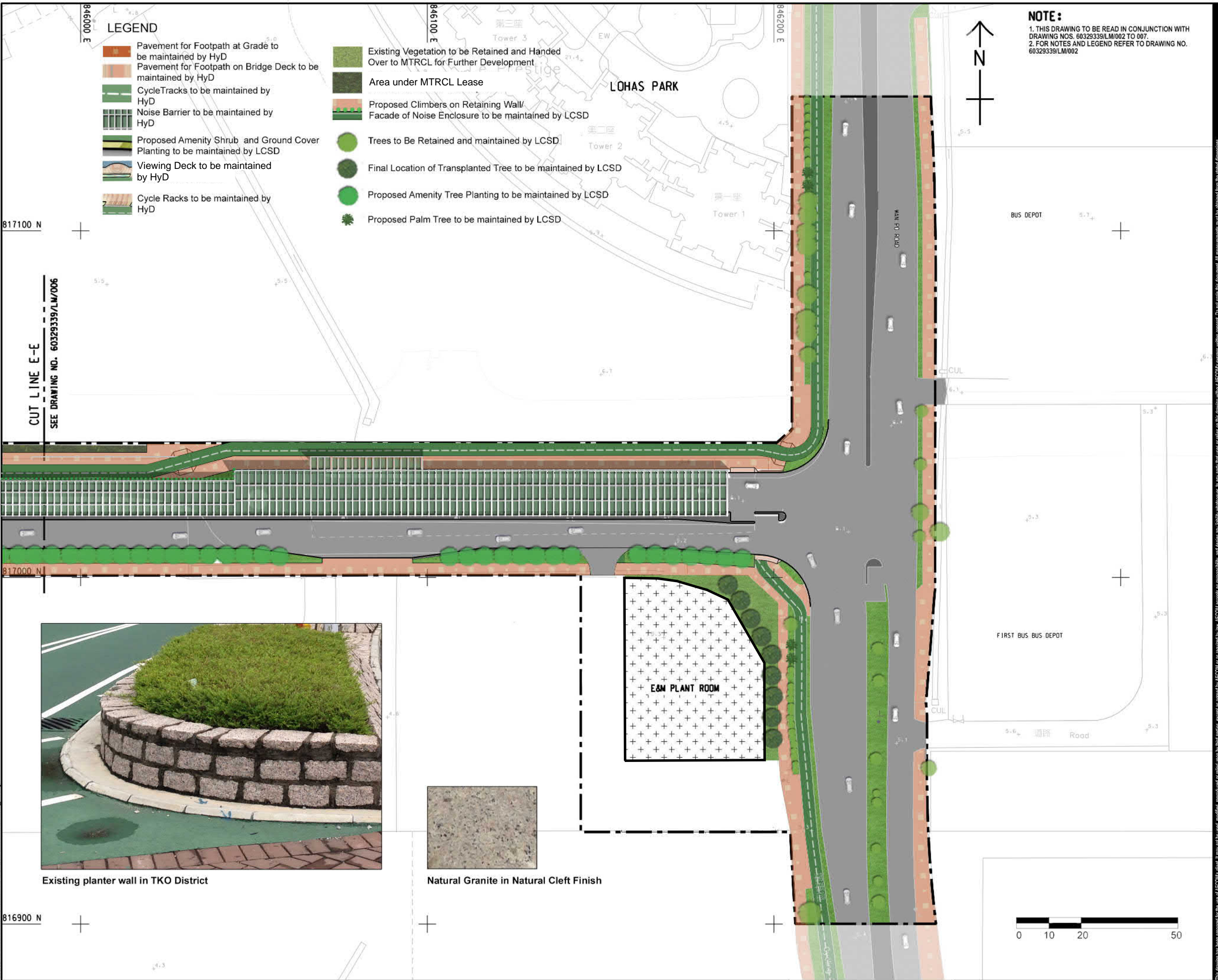
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 60329339 CE 6/2014 (HY)

SHEET TITLE
 圖紙名稱
 LANDSCAPE MASTER PLAN

SHEET NUMBER
 圖紙編號
 60329339/LM/006

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



LEGEND

- Pavement for Footpath at Grade to be maintained by HyD
- Pavement for Footpath on Bridge Deck to be maintained by HyD
- CycleTracks to be maintained by HyD
- Noise Barrier to be maintained by HyD
- Proposed Amenity Shrub and Ground Cover Planting to be maintained by LCSD
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AECOM

PROJECT
 項目
CROSS BAY LINK, TSEUNG KWAN O - DESIGN AND CONSTRUCTION

CLIENT
 業主
 土木工程拓展署
 Civil Engineering and Development Department

CONSULTANT
 工程顧問公司
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SUB-CONSULTANTS
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ISSUE/REVISION

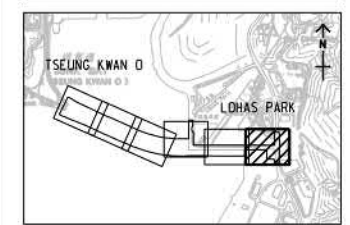
I/R	DATE	DESCRIPTION	CHK.

STATUS
 階段

SCALE
 比例
 A1 1 : 500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1 : 30000
 索引圖

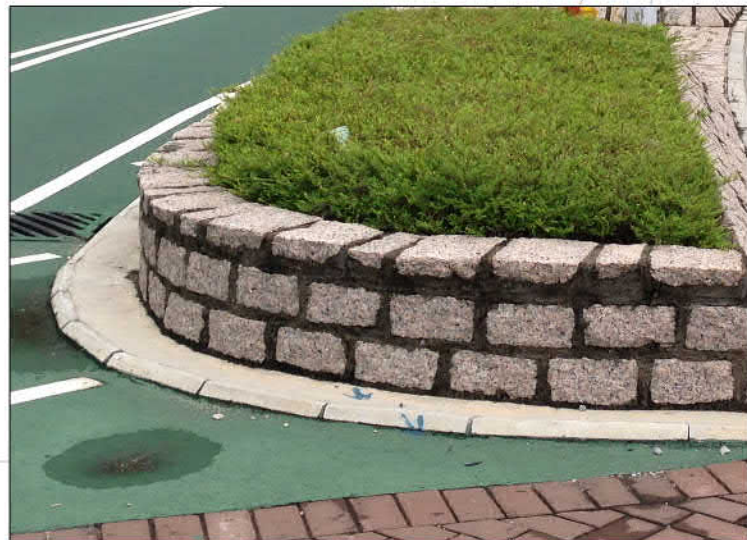


PROJECT NO.
 項目編號
 60329339

CONTRACT NO.
 合約編號
 CE 6/2014 (HY)

SHEET TITLE
 圖紙名稱
 LANDSCAPE MASTER PLAN

SHEET NUMBER
 圖紙編號
 60329339/LM/007



Existing planter wall in TKO District



Natural Granite in Natural Cleft Finish



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 Approved:
 Checked:
 Designer:
 Project Management Initials:

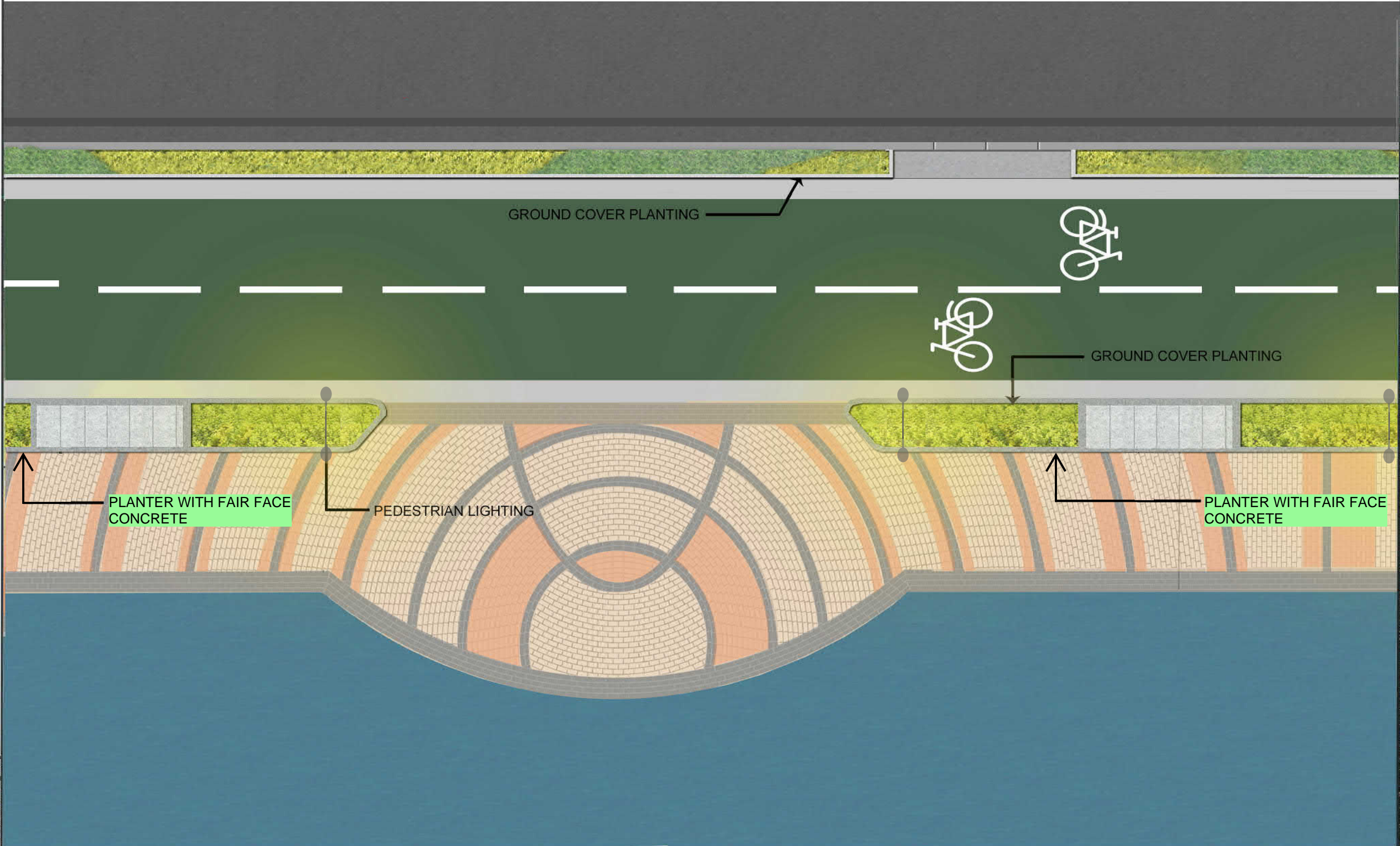
AECOM

PROJECT
 CROSS BAY LINK,
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STATUS

SCALE **DIMENSION UNIT**
 比例 尺寸單位
 A1 1: 1500 METRES

KEY PLAN

PROJECT NO. **CONTRACT NO.**
 項目編號 合約編號
 60329339 CE 6/2014 (HY)

SHEET TITLE
 圖名
 LANDSCAPE MASTER PLAN
 (PART PLAN)

SHEET 1 OF 1

SHEET NUMBER
 圖號
 60329339/LM/008

Plot File by: CHENFCJ 2015/05/20
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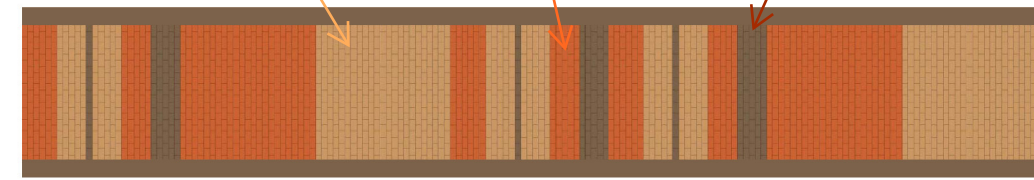
PAVING MASTER PLAN

NOTE:
Prior to commencement of construction works, the sample of proposed paving block should be submitted to Highways Department Landscape Unit for approval.

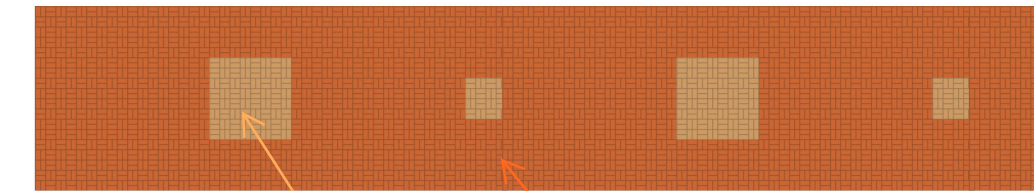
LEGEND

- Paving Type 1
- Paving Type 2
- Feature Paving Pattern for Viewing Deck
- 100X200X80mm THK. Paving Block Sand Color
- 100X200X80mm THK. Paving Block Red Color
- 100X200X80mm THK. Paving Block Brown Color

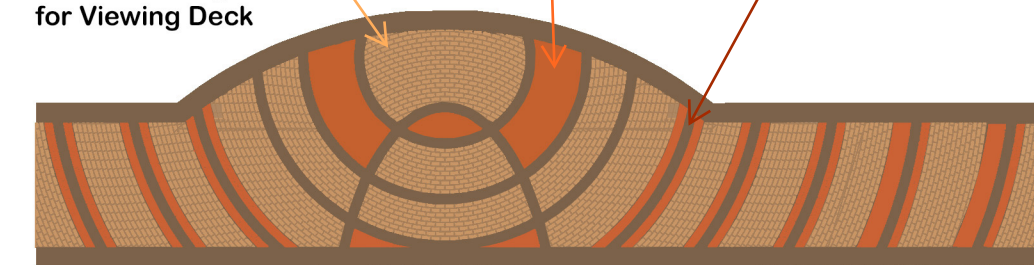
Paving Type 1



Paving Type 2

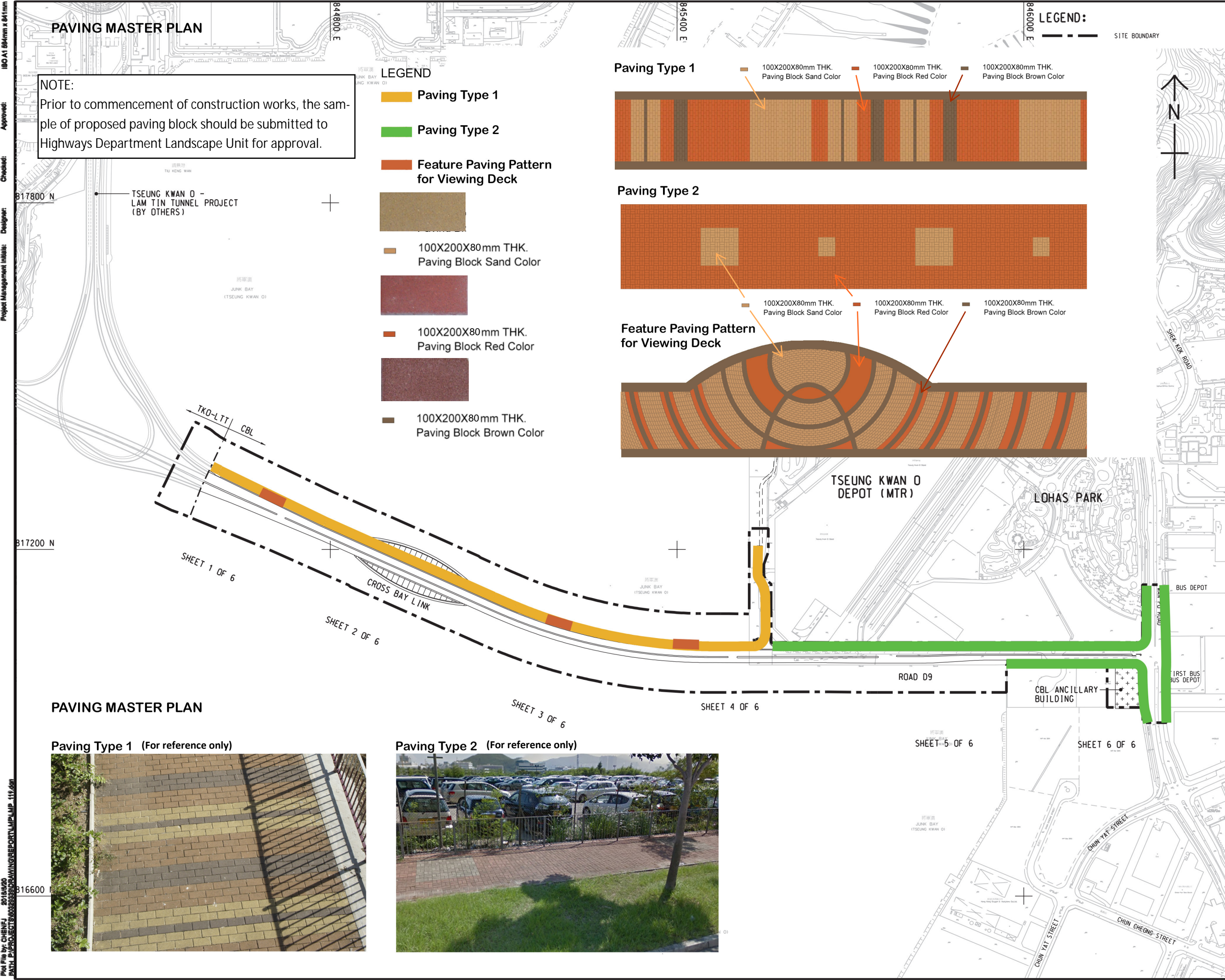


Feature Paving Pattern for Viewing Deck



LEGEND:

--- SITE BOUNDARY



PAVING MASTER PLAN

Paving Type 1 (For reference only)



Paving Type 2 (For reference only)



PROJECT
CROSS BAY LINK,
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NO.	DATE	DESCRIPTION	CHK.

STATUS

SCALE
NOT TO SCALE

DIMENSION UNIT
METRES

KEY PLAN

PROJECT NO.
60329339

CONTRACT NO.
CE 6/2014 (HY)

SHEET TITLE
HARD LANDSCAPE TREATMENT

SHEET NUMBER
60329339/LM/021

SHEET 1 OF 3

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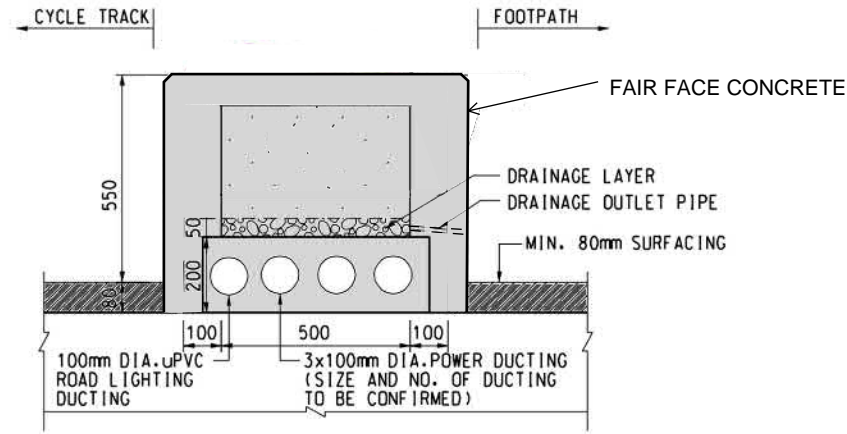
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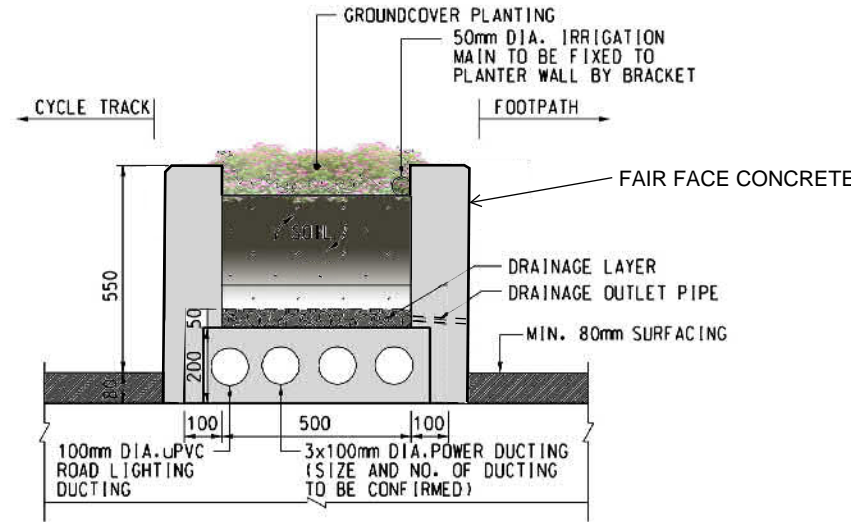
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Project Management Initials:

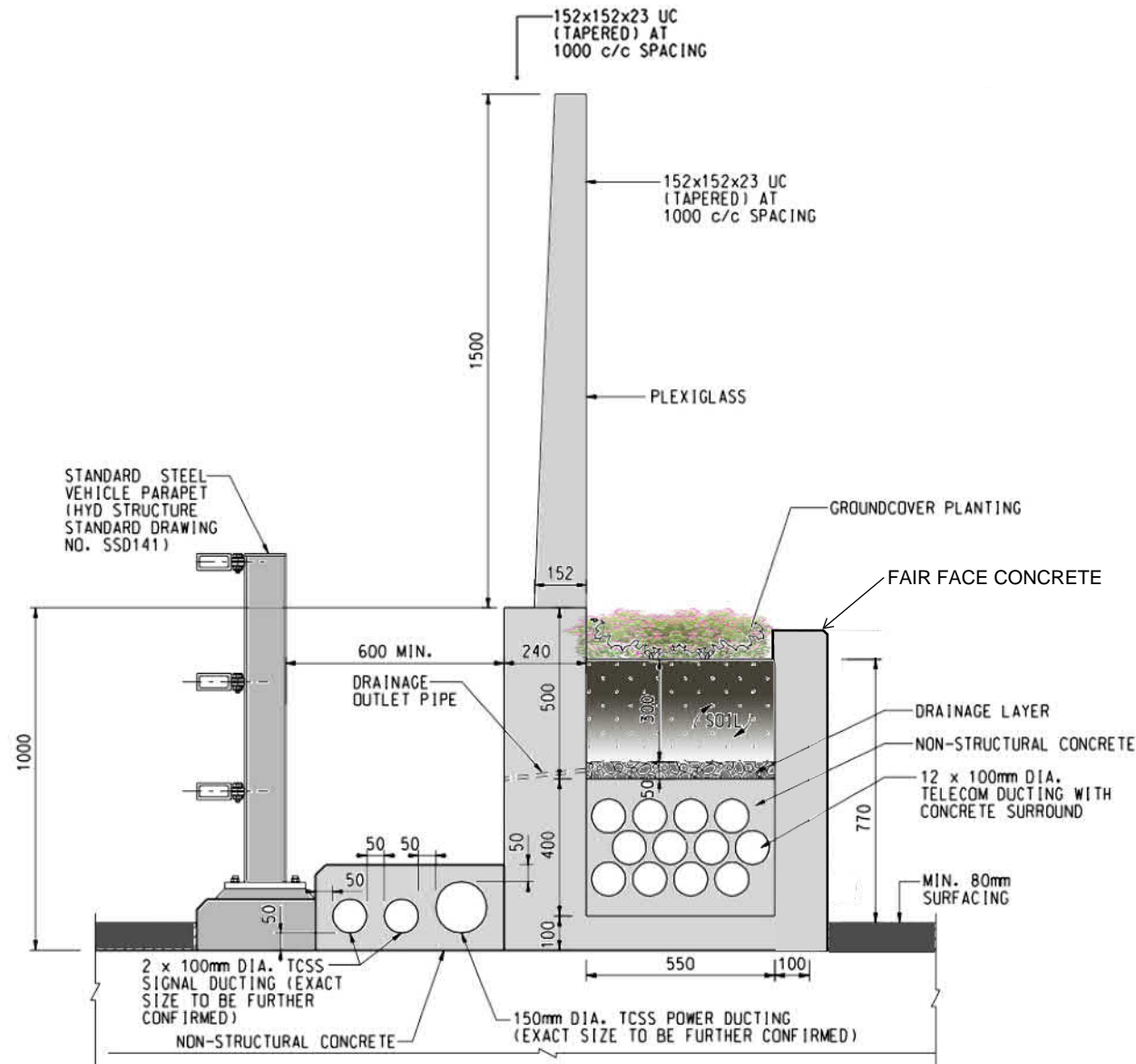
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PLANTER ARRANGEMENT 1 BETWEEN CYCLE TRACK AND FOOTPATH



PLANTER ARRANGEMENT 2 BETWEEN CYCLE TRACK AND FOOTPATH



PLANTER ARRANGEMENT BETWEEN CYCLE TRACK AND ROADWAYS

SCALE 1 : 10



PLANTER WALL ELEVATION
N.T.S.

ISSUE/REVISION			
NO.	DATE	DESCRIPTION	CHK.

SCALE
 A1 AS SHOWN

DIMENSION UNIT
 METRES

KEY PLAN

PROJECT NO.
 60329339

CONTRACT NO.
 CE 6/2014 (HY)

SHEET TITLE
 HARD LANDSCAPE TREATMENT

SHEET NUMBER
 60329339/LM/022

SHEET 2 OF 3

BICYCLE RACKS DESIGN (For reference only)



PEDESTRIAN LIGHTING (For reference only)



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IR	DATE	DESCRIPTION	CHK
01			

STATUS

SCALE

NOT TO SCALE

DIMENSION UNIT

METRES

KEY PLAN

PROJECT NO.

60329339

CONTRACT NO.

CE 6/2014 (HY)

SHEET TITLE

HARD LANDSCAPE TREATMENT

SHEET NUMBER

60329339/LM/023

Planting Schedule For Cross Bay Line

Amenity Planting on Bridge Deck Shrub / Herbaceous Plant / Ground Cover Planting



Cuphea hyssopifolia
細葉雪茄花



Lantana camara
黃花馬櫻丹



Lantana montevidensis Briq
小葉馬櫻丹



Catharanthus roseus
長春花

Amenity Planting along Road P9 Tree



Pongamia pinnata
水黃皮



Wodyetia bifurcata
狐尾椰子



Livistona chinensis
蒲葵



Duranta repens 'Golden leaves'
金連翹



Ixora williamsii sandw
矮橙龍船花



Scaevola sericea
草海桐



Raphiolepis indica
車輪梅

Shrub / Herbaceous Plant / Ground Cover Planting

Climber



Podranea ricasoliana
紫芸藤



Ficus pumila
薜荔



Bauhinia corymbosa
首冠藤

ISSUE/REVISION			
NO.	DATE	DESCRIPTION	CHK.

SCALE	DIMENSION UNIT
NOT TO SCALE	METRES

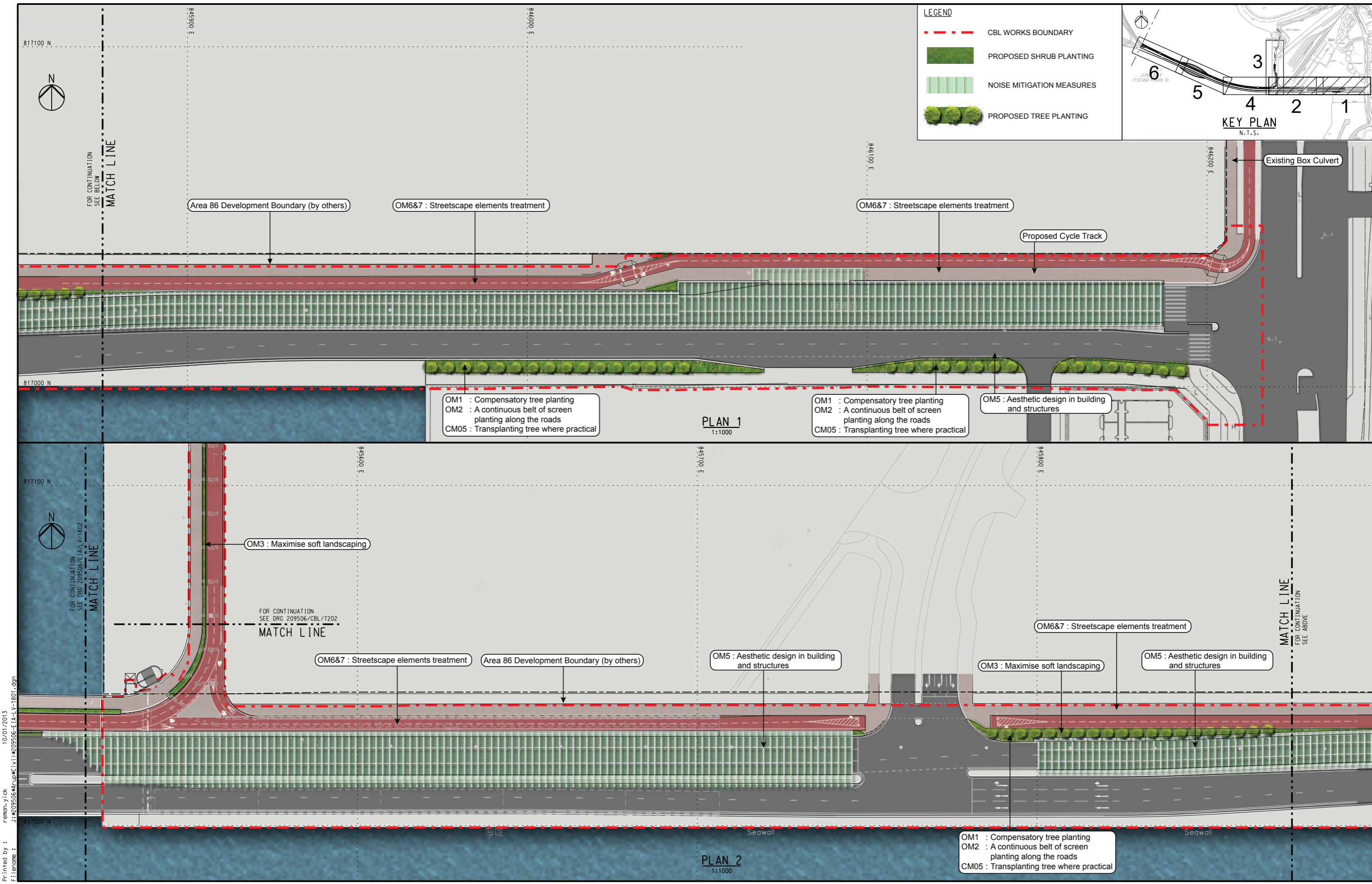
KEY PLAN

PROJECT NO.	CONTRACT NO.
60329339	CE 6/2014 (HY)

SHEET TITLE
PLANTING PALLETTE

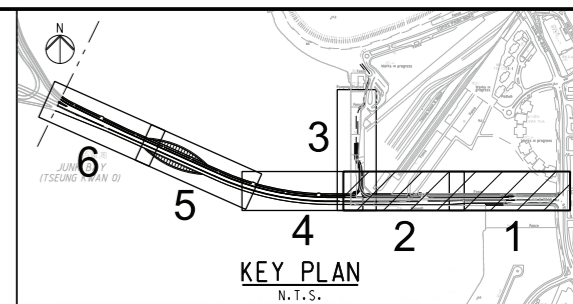
SHEET NUMBER
60329339/LMP/031

Proposed Landscape and Visual Mitigation Measures



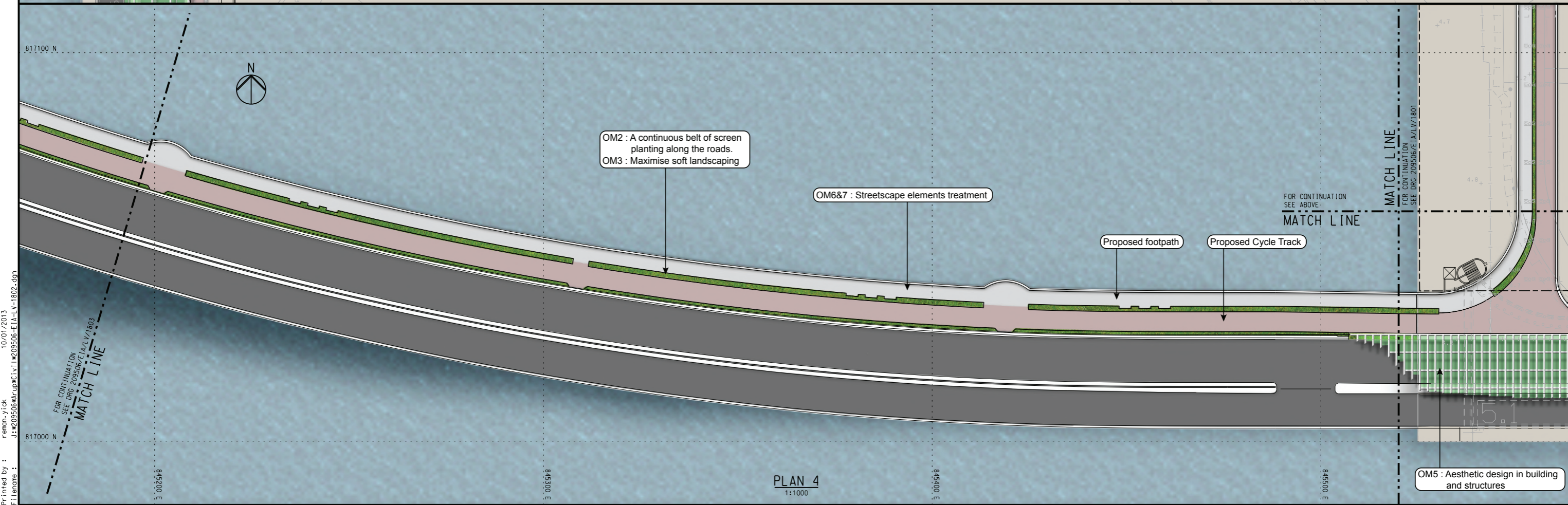
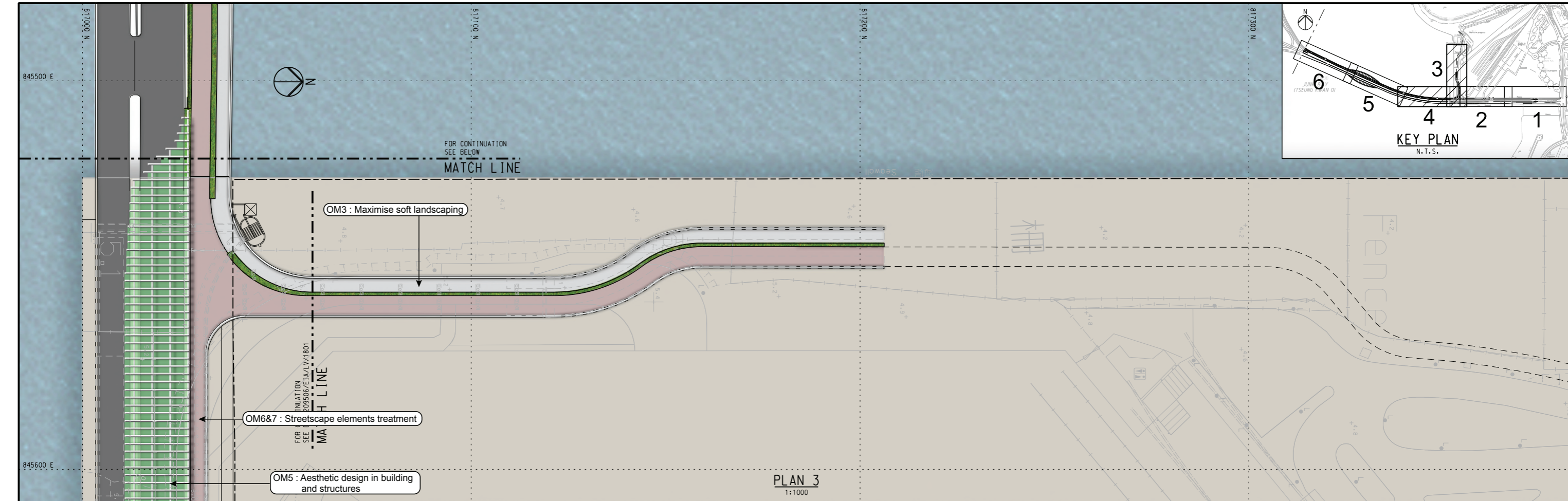
LEGEND

- - - CBL WORKS BOUNDARY
- PROPOSED SHRUB PLANTING
- NOISE MITIGATION MEASURES
- PROPOSED TREE PLANTING



10/01/2013
 reman-yick
 J:\209506\EIA\LV\1801.dgn

	土木工程拓展署 Civil Engineering and Development Department	Ove Arup & Partners Hong Kong Limited	Job Title Agreement No. CE 43/2008(HY) Cross Bay Link, Tseung Kwan O – Investigation	Drawing Title LANDSCAPE PLAN (SHEET 1 OF 3)	Drawn RY	Date 04/11	Drawing No. 209506/EIA/LV/1801									
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Rev.	Description	Date														
B	REVISED DRAFT	12/12														
A	DRAFT	04/11														



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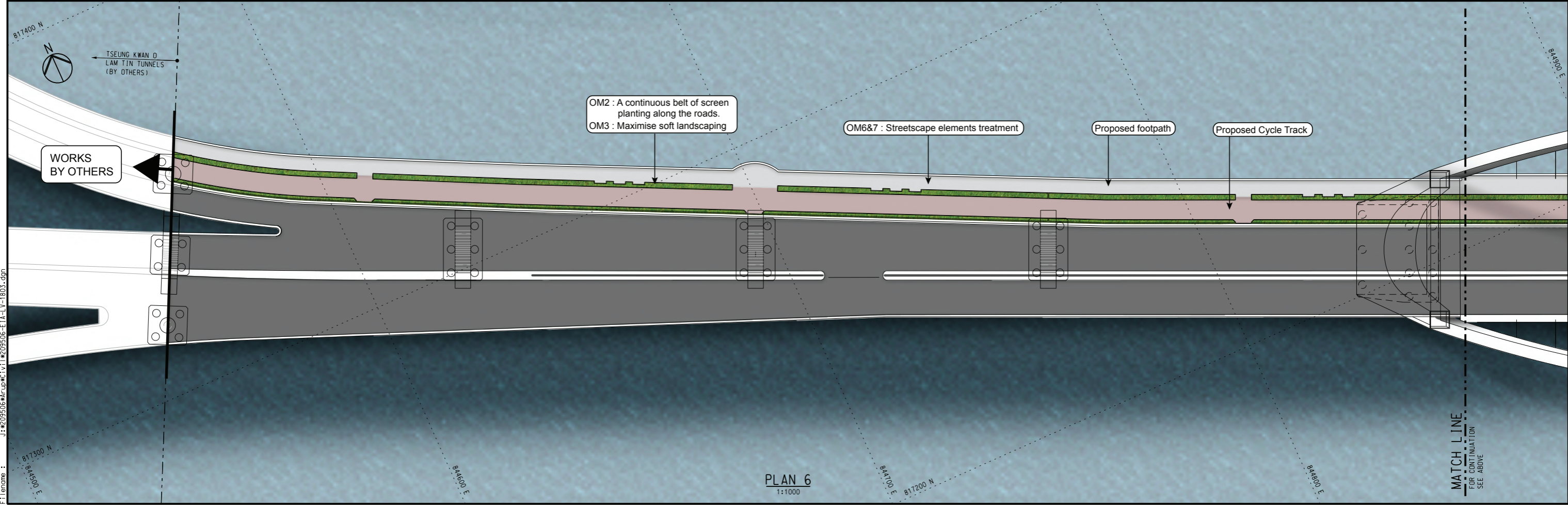
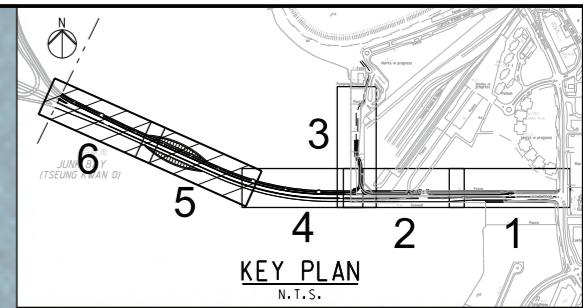
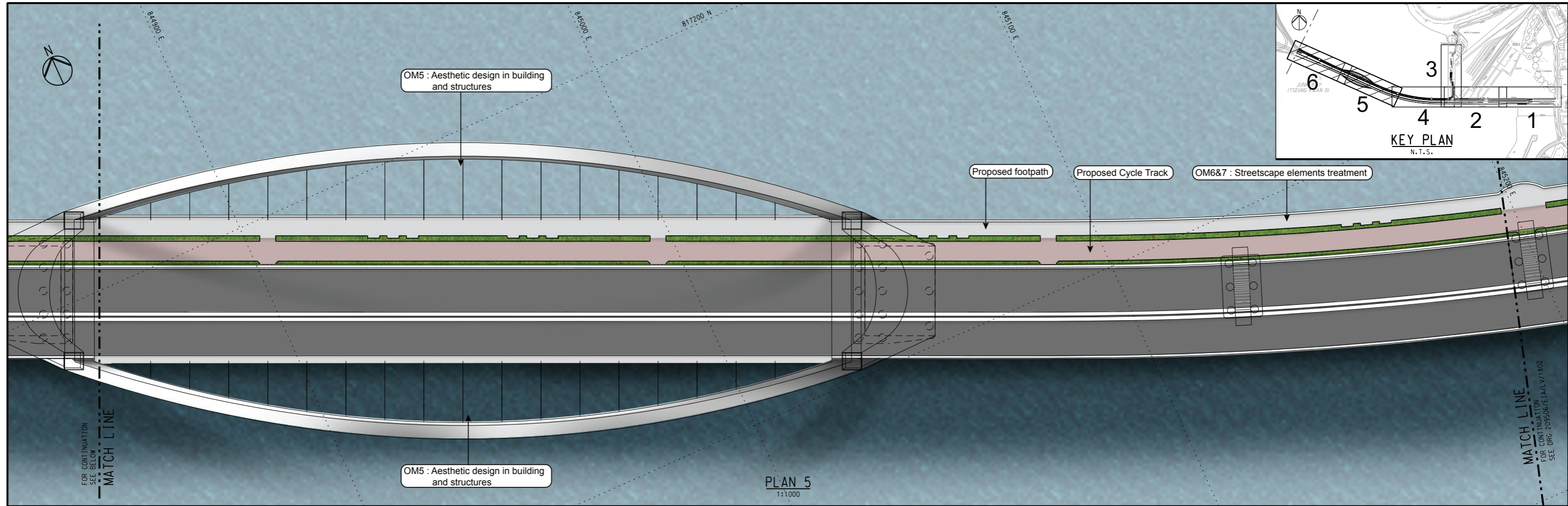
Job Title
**Agreement No. CE 43/2008(HY)
 Cross Bay Link, Tseung Kwan O – Investigation**

Drawing Title
**LANDSCAPE PLAN
 (SHEET 2 OF 3)**

Rev.	Description	Date
B	REVISED DRAFT	12/12
A	DRAFT	04/11

Drawn	RY	Date	04/11
Checked	RL	Approved	SYC
Scale	1:1000 on A3		

Drawing No.	209506/EIA/LV/1802	
Status	DRAFT	Rev. B



Printed by : reman-yick
 File name : J:\209506\209506-arup\Civil\209506-EIA-LV-1803.dgn
 10/01/2013

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Job Title
**Agreement No. CE 43/2008(HY)
 Cross Bay Link, Tseung Kwan O – Investigation**

Drawing Title
**LANDSCAPE PLAN
 (SHEET 3 OF 3)**

Rev.	Description	Date
B	REVISED DRAFT	12/12
A	DRAFT	04/11

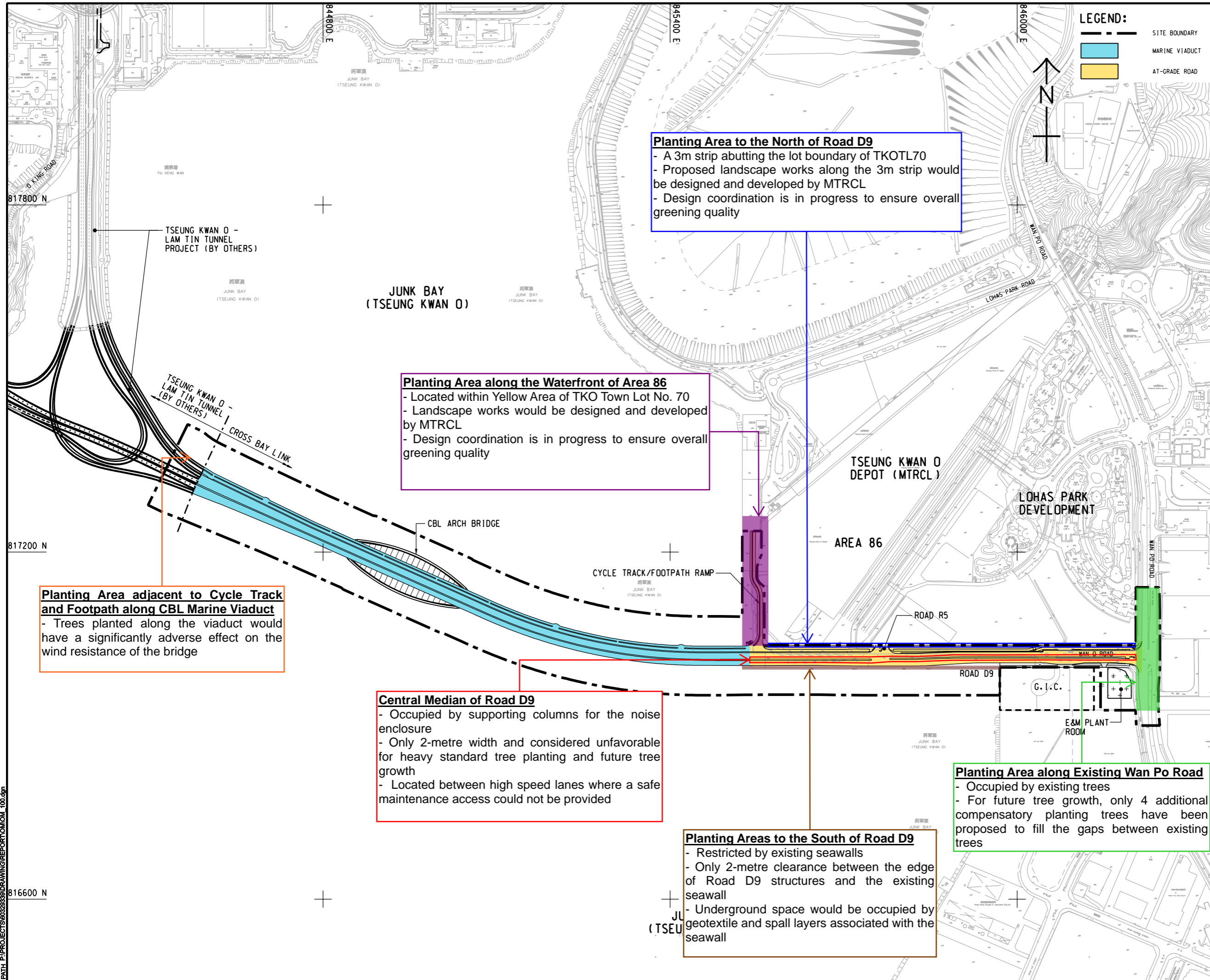
Drawn	RY	Date	04/11
Checked	RL	Approved	SYC
Scale	1:1000 on A3		

Drawing No.	209506/EIA/LV/1803	
Status	DRAFT	Rev. B

Restrictions for On-site Compensatory Planting

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

Pld File by: HUIPE
 PATH: P:\PROJECTS\60329339\DRAWING\REPORT\MCOM_100.dgn
 2016/11/10



Planting Area to the North of Road D9
 - A 3m strip abutting the lot boundary of TKOTL70
 - Proposed landscape works along the 3m strip would be designed and developed by MTRCL
 - Design coordination is in progress to ensure overall greening quality

Planting Area along the Waterfront of Area 86
 - Located within Yellow Area of TKO Town Lot No. 70
 - Landscape works would be designed and developed by MTRCL
 - Design coordination is in progress to ensure overall greening quality

Planting Area adjacent to Cycle Track and Footpath along CBL Marine Viaduct
 - Trees planted along the viaduct would have a significantly adverse effect on the wind resistance of the bridge

Central Median of Road D9
 - Occupied by supporting columns for the noise enclosure
 - Only 2-metre width and considered unfavorable for heavy standard tree planting and future tree growth
 - Located between high speed lanes where a safe maintenance access could not be provided

Planting Areas to the South of Road D9
 - Restricted by existing seawalls
 - Only 2-metre clearance between the edge of Road D9 structures and the existing seawall
 - Underground space would be occupied by geotextile and spall layers associated with the seawall

Planting Area along Existing Wan Po Road
 - Occupied by existing trees
 - For future tree growth, only 4 additional compensatory planting trees have been proposed to fill the gaps between existing trees

ISSUE/REVISION
 修訂

NO.	DATE	DESCRIPTION	CHK.

STATUS
 階段

SCALE
 比例
 A1 1 : 3000

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN
 索引圖

PROJECT NO.
 項目編號
 60329339

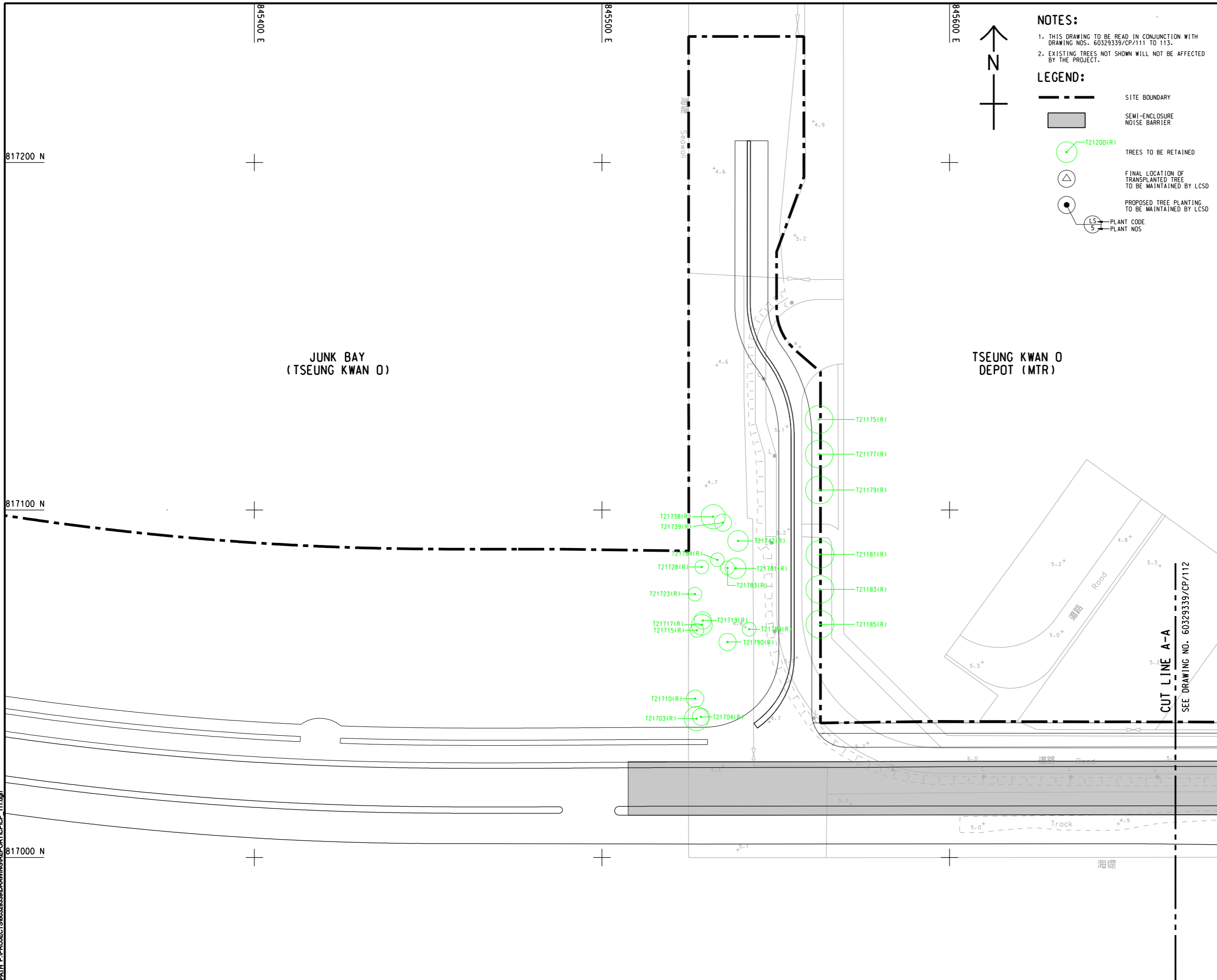
CONTRACT NO.
 合約編號
 CE 6/2014 (HY)

SHEET TITLE
 圖紙名稱
 RESTRICTIONS FOR ON-SITE
 COMPENSATORY PLANTING

SHEET NUMBER
 圖紙編號
 APPENDIX IX

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 Project Management Initials:
 2016/02/4
 PATH: P:\PROJECTS\60329339\DRAWING\REPORT\CP/CP-111.dgn



NOTES:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/CP/111 TO 113.
- EXISTING TREES NOT SHOWN WILL NOT BE AFFECTED BY THE PROJECT.

LEGEND:

- SITE BOUNDARY
- SEMI-ENCLOSURE NOISE BARRIER
- TREES TO BE RETAINED
- FINAL LOCATION OF TRANSPLANTED TREE TO BE MAINTAINED BY LCSD
- PROPOSED TREE PLANTING TO BE MAINTAINED BY LCSD
- PLANT CODE
- PLANT NOS



PROJECT
 項目
**CROSS BAY LINK,
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 DESIGN AND
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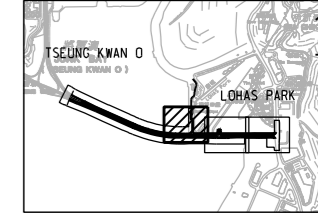
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修訂	日期	內容摘要	核實

STATUS
 階段

SCALE
 比例
 A1 1:500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1:30000
 索引圖



PROJECT NO.
 項目編號
 60329339

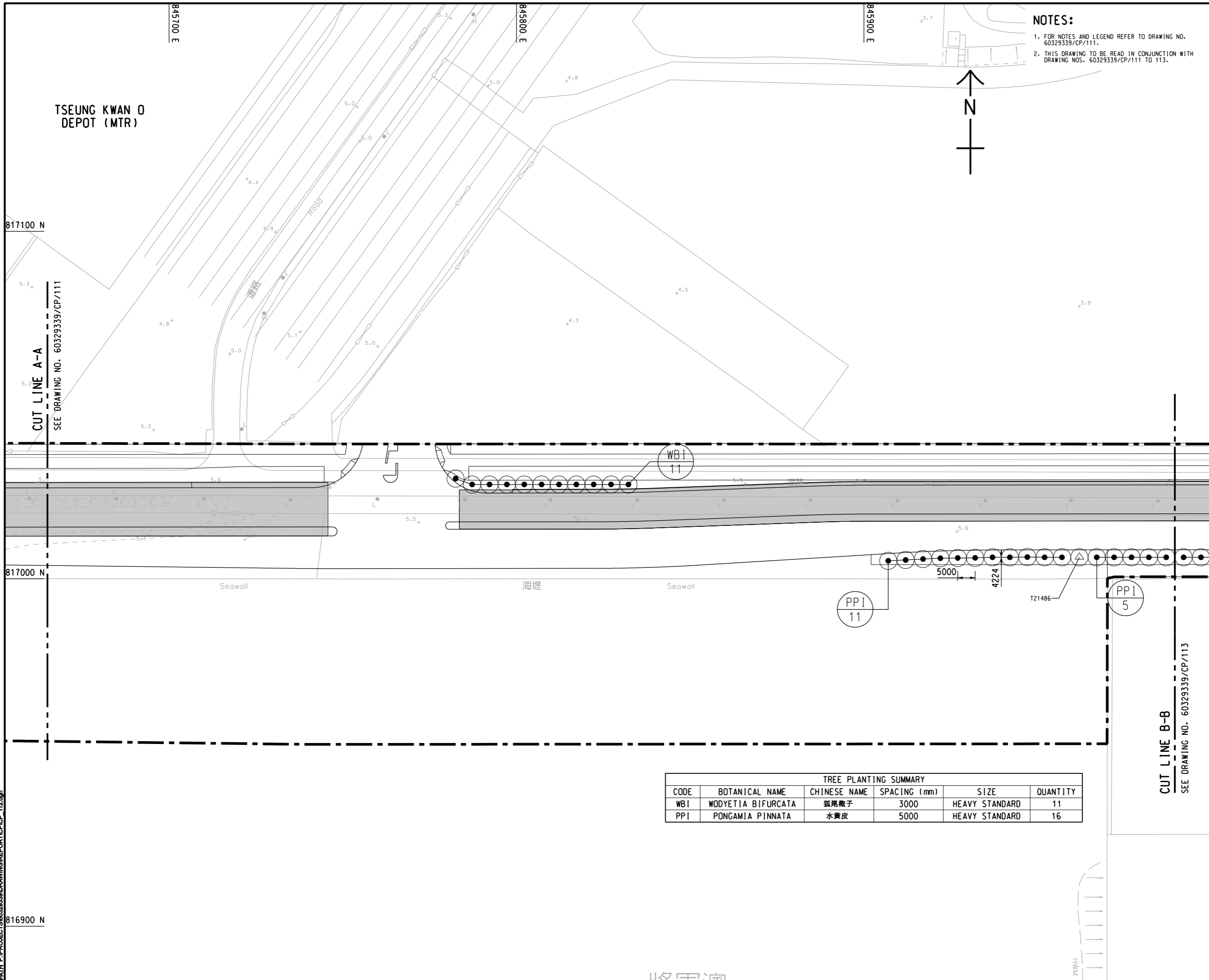
CONTRACT NO.
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 CE 6/2014 (HY)

SHEET TITLE
 圖紙名稱
 COMPENSATORY PLANTING PLAN

SHEET NUMBER
 圖紙編號
 60329339/CP/111

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 Pld File by: XUCM



NOTES:
 1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60329339/CP/111.
 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/CP/111 TO 113.



TREE PLANTING SUMMARY					
CODE	BOTANICAL NAME	CHINESE NAME	SPACING (mm)	SIZE	QUANTITY
WBI	WODYETIA BIFURCATA	狐尾椰子	3000	HEAVY STANDARD	11
PPI	PONGAMIA PINNATA	水黃皮	5000	HEAVY STANDARD	16



PROJECT
 項目
**CROSS BAY LINK,
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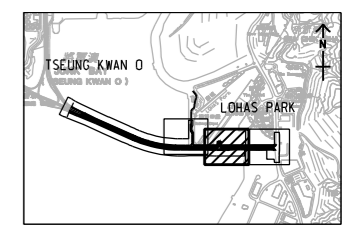
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修訂	日期	內容摘要	校核

STATUS
 階段

SCALE
 比例
 A1 1: 500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1: 30000
 索引圖



PROJECT NO.
 項目編號
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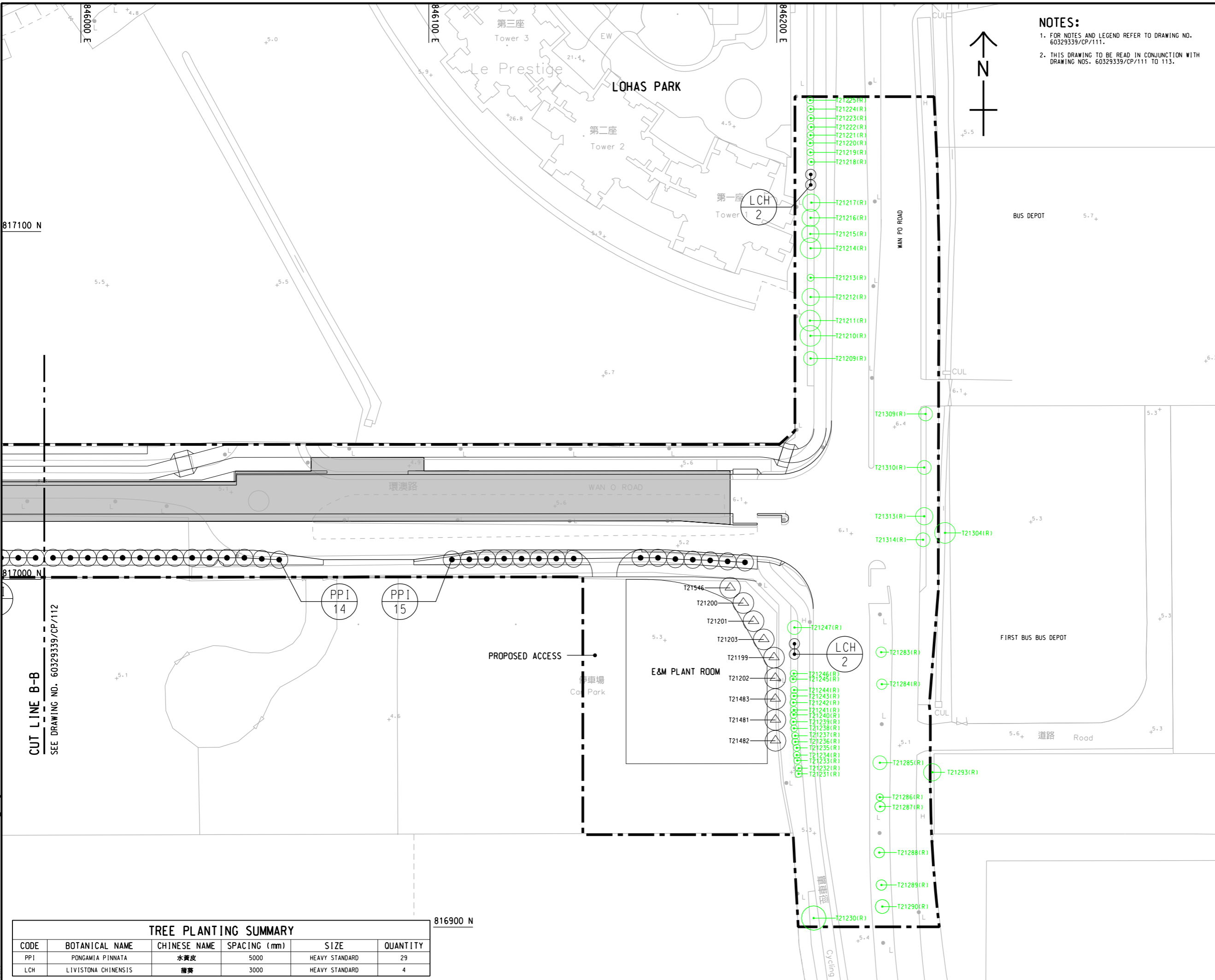
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 CE 6/2014 (HY)

SHEET TITLE
 圖紙名稱
 COMPENSATORY PLANTING PLAN

SHEET NUMBER
 圖紙編號
 60329339/CP/112

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 2016/02/28
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 修訂

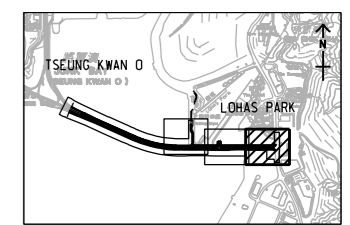
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修訂	日期	內容摘要	核實

STATUS
 階段

SCALE
 比例
 A1 1: 500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1: 30000
 索引圖



PROJECT NO.
 項目編號
 60329339

CONTRACT NO.
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 CE 6/2014 (HY)

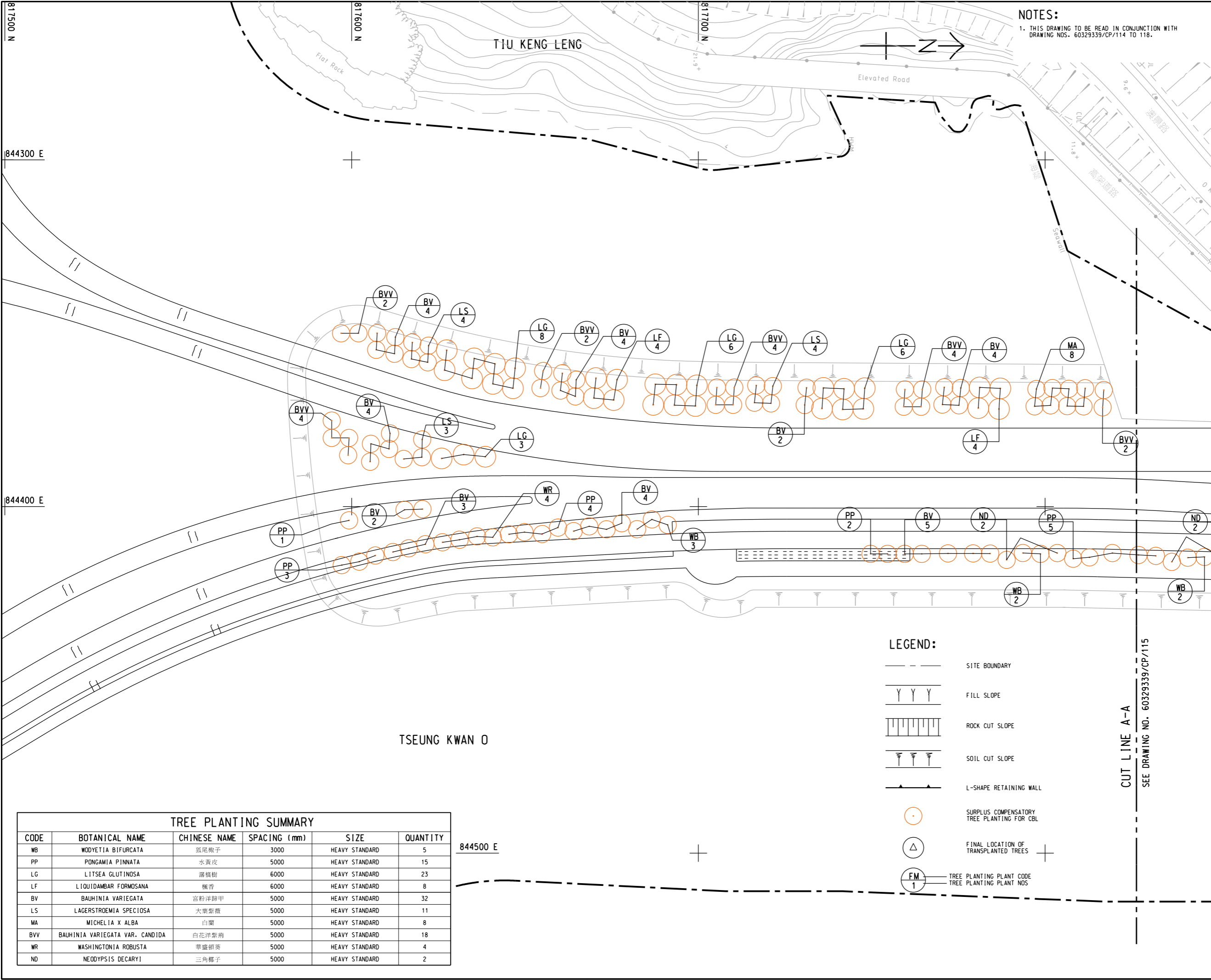
SHEET TITLE
 圖紙名稱
 COMPENSATORY PLANTING PLAN

SHEET NUMBER
 圖紙編號
 60329339/CP/113

TREE PLANTING SUMMARY

CODE	BOTANICAL NAME	CHINESE NAME	SPACING (mm)	SIZE	QUANTITY
PP1	PONGAMIA PINNATA	水黃皮	5000	HEAVY STANDARD	29
LCH	LIVISTONA CHINENSIS	蒲葵	3000	HEAVY STANDARD	4

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NOTES:
 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/CP/114 TO 118.

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PROJECT
 項目
CROSS BAY LINK, TSEUNG KWAN O

CONTRACT TITLE
 CROSS BAY LINK, TSEUNG KWAN O
 MAIN BRIDGE AND ASSOCIATED WORKS

CLIENT
 業主
CEDD 土木工程拓展署
 Civil Engineering and Development Department

CONSULTANT
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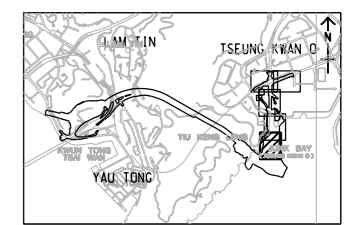
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STATUS
 階段

SCALE
 比例
 A1 1: 500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1: 50000
 索引圖



PROJECT NO.
 項目編號
 60329339

CONTRACT NO.
 合約編號
 NE/2017/07

SHEET TITLE
 圖紙名稱
COMPENSATORY PLANTING PLAN (TKO - LTT)

SHEET NUMBER
 圖紙編號
 60329339/CP/114

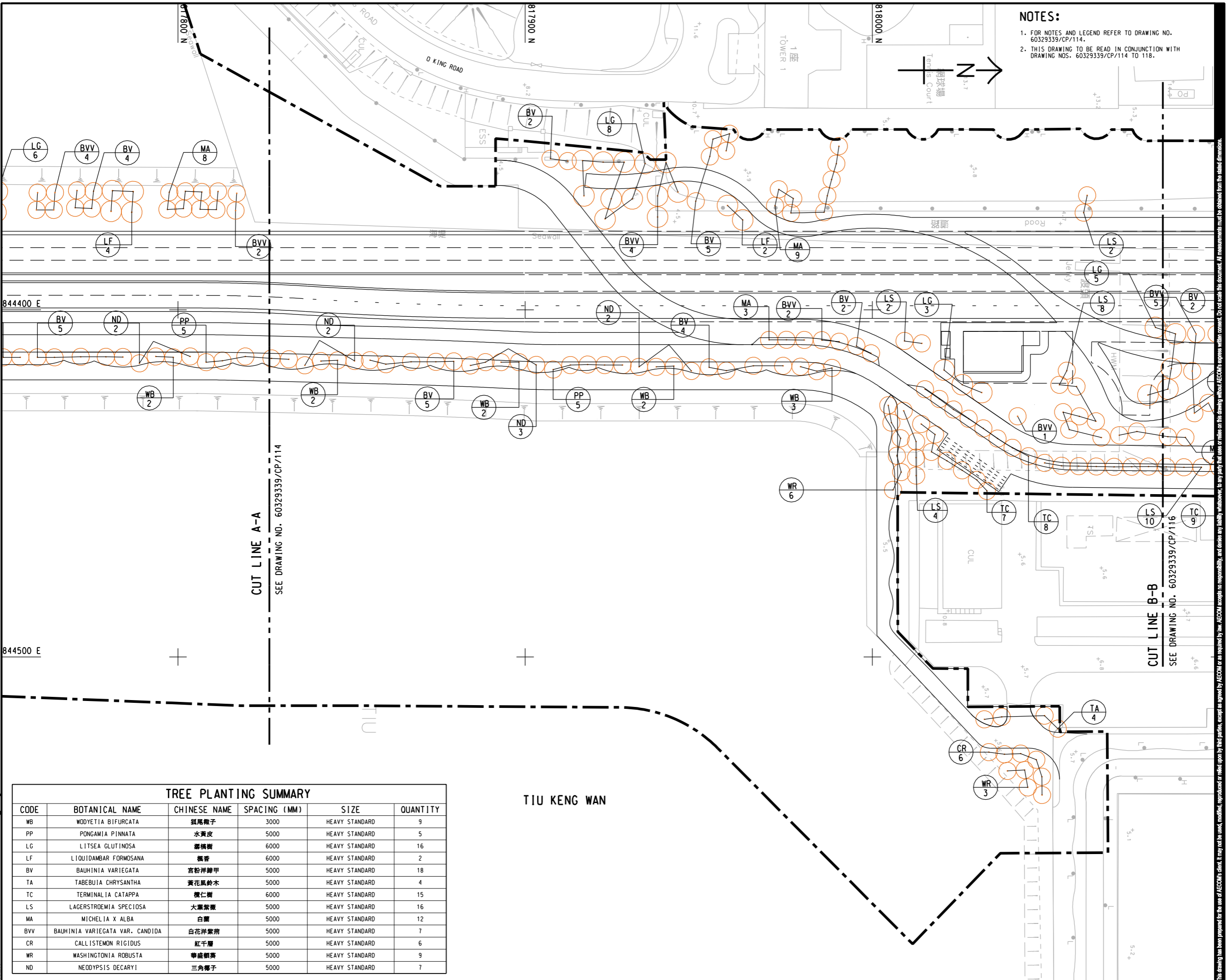
SHEET 1 OF 5

TREE PLANTING SUMMARY

CODE	BOTANICAL NAME	CHINESE NAME	SPACING (mm)	SIZE	QUANTITY
WB	WODYETIA BIFURCATA	狐尾椰子	3000	HEAVY STANDARD	5
PP	PONGAMIA PINNATA	水黃皮	5000	HEAVY STANDARD	15
LG	LITSEA GLUTINOSA	潺槁樹	6000	HEAVY STANDARD	23
LF	LIOUIDAMBAR FORMOSANA	楓香	6000	HEAVY STANDARD	8
BV	BAUHINIA VARIEGATA	宮粉洋蹄甲	5000	HEAVY STANDARD	32
LS	LAGERSTROEMIA SPECIOSA	大葉紫薇	5000	HEAVY STANDARD	11
MA	MICHELIA X ALBA	白蘭	5000	HEAVY STANDARD	8
BVV	BAUHINIA VARIEGATA VAR. CANDIDA	白花洋紫荊	5000	HEAVY STANDARD	18
WR	WASHINGTONIA ROBUSTA	華盛頓葵	5000	HEAVY STANDARD	4
ND	NEODYPSIS DECARYI	三角椰子	5000	HEAVY STANDARD	2

- LEGEND:**
- SITE BOUNDARY
 - FILL SLOPE
 - ROCK CUT SLOPE
 - SOIL CUT SLOPE
 - L-SHAPE RETAINING WALL
 - SURPLUS COMPENSATORY TREE PLANTING FOR CBL
 - FINAL LOCATION OF TRANSPLANTED TREES
 - TREE PLANTING PLANT CODE
TREE PLANTING PLANT NOS

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PROJECT
項目

**CROSS BAY LINK,
TSEUNG KWAN O -
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CONSTRUCTION**

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NO.	DATE	DESCRIPTION	CHK.

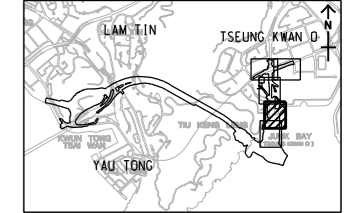
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SCALE
比例

DIMENSION UNIT
尺寸單位

A1 1: 500 METRES

KEY PLAN A1: 50000
索引圖



PROJECT NO.
項目編號

CONTRACT NO.
合約編號

60329339 CE 6/2014 (HY)

SHEET TITLE
圖紙名稱

COMPENSATORY PLANTING PLAN
(TKO - LTT)

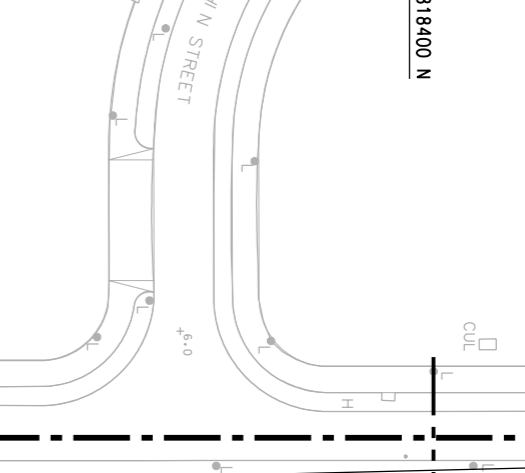
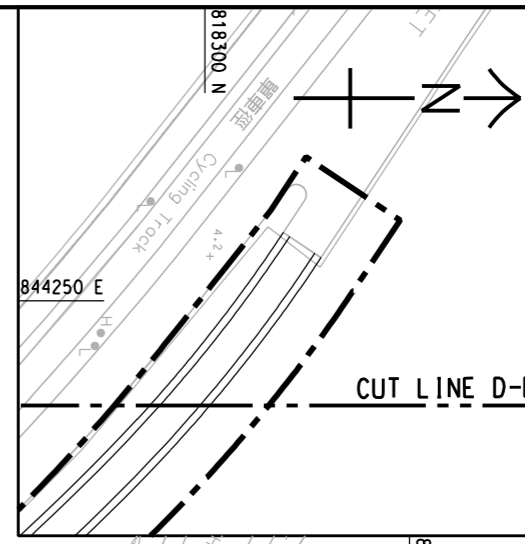
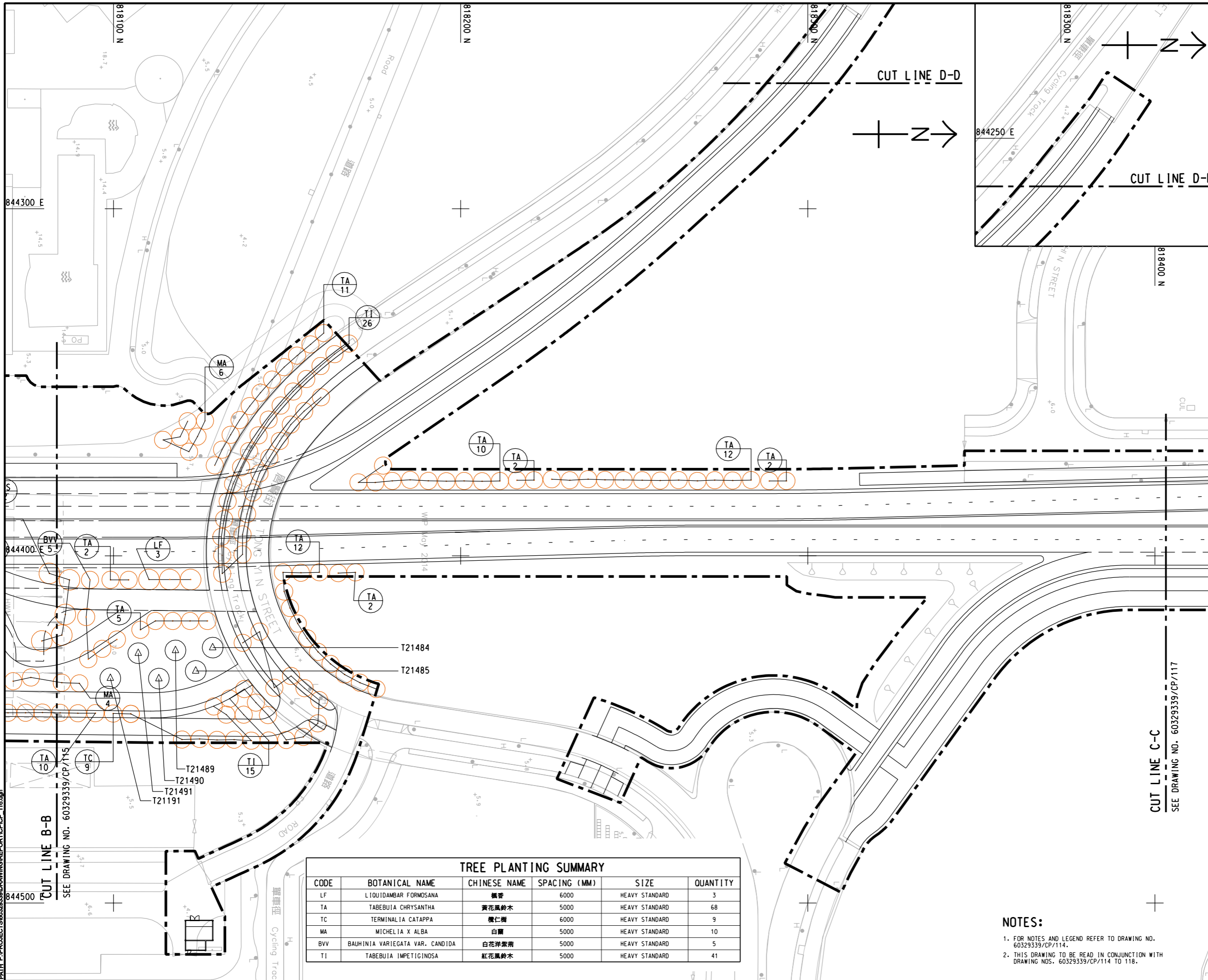
SHEET NUMBER
圖紙編號

60329339/CP/115

TREE PLANTING SUMMARY

CODE	BOTANICAL NAME	CHINESE NAME	SPACING (MM)	SIZE	QUANTITY
WB	WODYETIA BIFURCATA	狐尾椰子	3000	HEAVY STANDARD	9
PP	PONGAMIA PINNATA	水黃皮	5000	HEAVY STANDARD	5
LG	LITSEA GLUTINOSA	漆樹	6000	HEAVY STANDARD	16
LF	LIQUIDAMBAR FORMOSANA	楓香	6000	HEAVY STANDARD	2
BV	BAUHINIA VARIEGATA	宮粉洋紫荊	5000	HEAVY STANDARD	18
TA	TABEBUIA CHRYSANTHA	黃花風鈴木	5000	HEAVY STANDARD	4
TC	TERMINALIA CATAPPA	欖仁樹	6000	HEAVY STANDARD	15
LS	LAGERSTROEMIA SPECIOSA	大葉紫薇	5000	HEAVY STANDARD	16
MA	MICHELIA X ALBA	白蘭	5000	HEAVY STANDARD	12
BVV	BAUHINIA VARIEGATA VAR. CANDIDA	白花洋紫荊	5000	HEAVY STANDARD	7
CR	CALLISTEMON RIGIDUS	紅千層	5000	HEAVY STANDARD	6
WR	WASHINGTONIA ROBUSTA	華盛頓葵	5000	HEAVY STANDARD	9
ND	NEODYPsis DECARYI	三角椰子	5000	HEAVY STANDARD	7

TIU KENG WAN



CUT LINE C-C
 SEE DRAWING NO. 60329339/CP/117

TREE PLANTING SUMMARY					
CODE	BOTANICAL NAME	CHINESE NAME	SPACING (MM)	SIZE	QUANTITY
LF	LIQUIDAMBAR FORMOSANA	楓香	6000	HEAVY STANDARD	3
TA	TABEBUIA CHRYSANTHA	黃花風鈴木	5000	HEAVY STANDARD	68
TC	TERMINALIA CATAPPA	欖仁樹	6000	HEAVY STANDARD	9
MA	MICHELIA X ALBA	白蘭	5000	HEAVY STANDARD	10
BVV	BAUHINIA VARIEGATA VAR. CANDIDA	白花洋紫荊	5000	HEAVY STANDARD	5
TI	TABEBUIA IMPETIGINOSA	紅花風鈴木	5000	HEAVY STANDARD	41

- NOTES:**
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PROJECT
 項目
**CROSS BAY LINK,
 TSEUNG KWAN O -
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 CONSTRUCTION**

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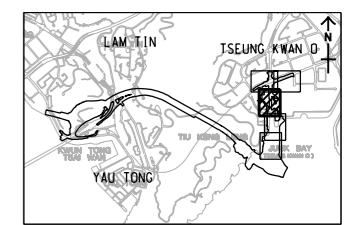
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STATUS
 階段

SCALE
 比例
 A1 1: 500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1: 50000
 索引圖



PROJECT NO.
 項目編號
 60329339

CONTRACT NO.
 合約編號
 CE 6/2014 (HY)

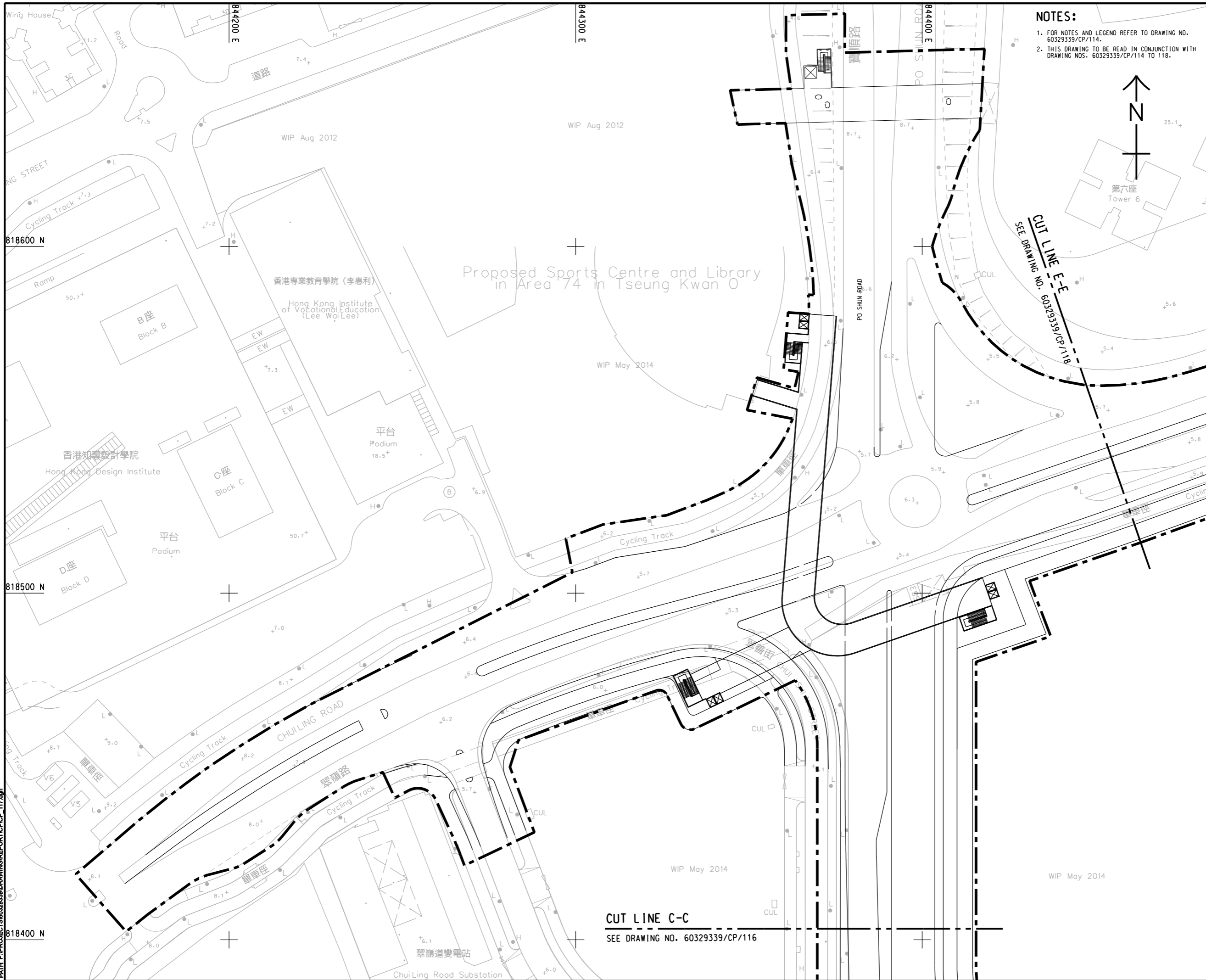
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 圖紙名稱
**COMPENSATORY PLANTING PLAN
 (TKO - LTT)**

SHEET NUMBER
 圖紙編號
 60329339/CP/116

SHEET 3 OF 5

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ISO A1 594mm x 841mm
 Approved:
 Checked:
 Designer:
 Project Management Initials:
 2016/02/25
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NOTES:

- FOR NOTES AND LEGEND REFER TO DRAWING NO. 60329339/CP/114.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/CP/114 TO 118.



CUT LINE E-E
SEE DRAWING NO. 60329339/CP/118

CUT LINE C-C
SEE DRAWING NO. 60329339/CP/116



PROJECT
項目
**CROSS BAY LINK,
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DESIGN AND
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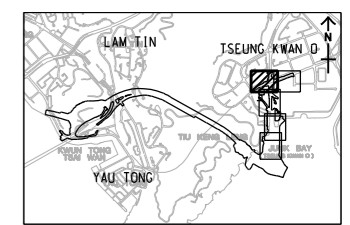
ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 校核

STATUS
階段

SCALE
比例
A1 1:500

DIMENSION UNIT
尺寸單位
METRES



PROJECT NO.
項目編號
60329339

CONTRACT NO.
合約編號
CE 6/2014 (HY)

SHEET TITLE
圖紙名稱
COMPENSATORY PLANTING PLAN
(TKO - LTT)

SHEET NUMBER
圖紙編號
60329339/CP/117

SHEET 4 OF 5

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ISO A1 594mm x 841mm

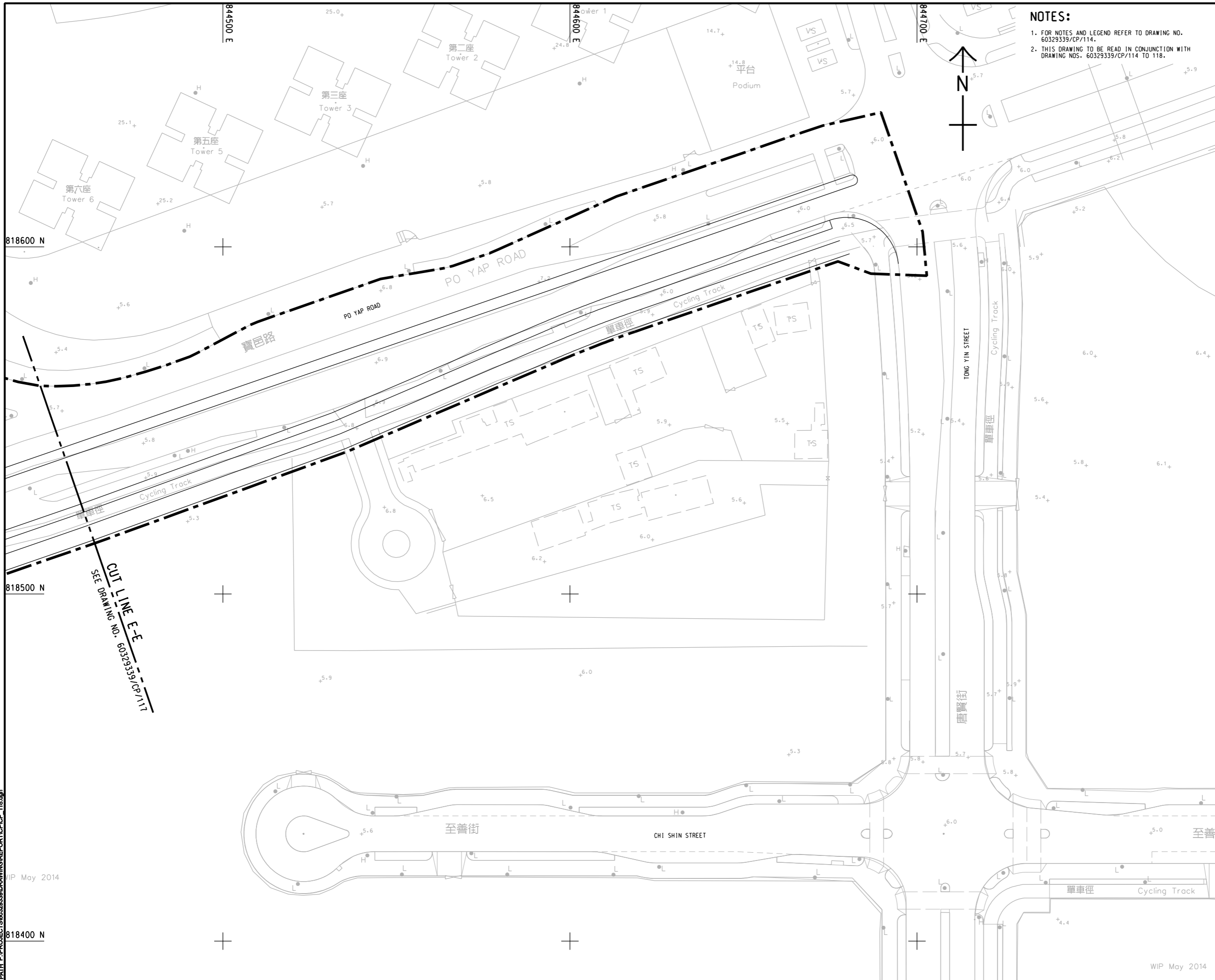
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Checked:

Designer:

Project Management Initials:

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2016/05/25
WIP May 2014



NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60329339/CP/114.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/CP/114 TO 118.



PROJECT

**CROSS BAY LINK,
TSEUNG KWAN O -
DESIGN AND
CONSTRUCTION**

CLIENT



CONSULTANT

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ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.

STATUS

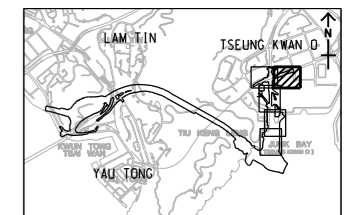
SCALE

A1 1: 500

DIMENSION UNIT

METRES

KEY PLAN A1: 50000



PROJECT NO.

60329339

CONTRACT NO.

CE 6/2014 (HY)

SHEET TITLE

COMPENSATORY PLANTING PLAN
(TKO - LTT)

SHEET NUMBER

60329339/CP/118

SHEET 5 OF 5

WIP May 2014

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Contract No. NE/2017/07

Project: Cross Bay Link, Tseung Kwan O - Main Bridge and Associated Works

Date of Survey: 16/08/2018

TREE SURVEY SCHEDULE

Drawing No.	Tree No.	Botanical Name	Chinese Common Name	SIZE (M)			Structural Condition (Good/ Fair/ Poor)	Form (Good/ Fair/ Poor)	Health (Good/ Fair/ Poor/ Dead)	Amenity Value (High/ Medium/ Low)	Existing Ground Level At The Trunk Base	Suitability for Transplanting		Conservation Status	Approved Treatment (Retain/ Transplant/ Fell/ Missing/ TBC)	In this survey (Retain/ Transplant/ Fell/ Missing/ TBC)	Additional Remarks
				Height (m)	Trunk DBH (mm)	Spread (m)						(High/ Medium/ Low)	Remarks				
60329339/TS/202	T22001	<i>Acacia confusa</i>	台灣相思	6	190	4	Poor	Poor	Fair	Low		Low	a, b, c, f	NIL	Fell	Fell	Leaning
60329339/TS/202	T22002	<i>Acacia confusa</i>	台灣相思	6	360	6	Poor	Poor	Fair	Low		Low	a, b, c, f	NIL	Fell	Fell	Multi-trunk, wound, diebacks
60329339/TS/202	T22003	Dead Tree	死樹	6	270	4	-	-	Dead	-		-	-	NIL	Fell	Fell	-
60329339/TS/202	T22004	<i>Acacia confusa</i>	台灣相思	6	250	6	Poor	Poor	Fair	Low		Low	a, b, c, f	NIL	Fell	Fell	Multi-trunk, closing wounds
60329339/TS/202	T22005	<i>Acacia confusa</i>	台灣相思	6	330	8	Poor	Poor	Fair	Low		Low	a, b, c, f	NIL	Fell	Fell	Leaning
60329339/TS/202	T22006	<i>Leucaena leucocephala</i>	銀合歡	5	280	3	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning, exposed roots
60329339/TS/202	T22007	<i>Leucaena leucocephala</i>	銀合歡	5	340	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning, multi-trunk, crossing trunks
60329339/TS/202	T22008	<i>Leucaena leucocephala</i>	銀合歡	5	110	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning
60329339/TS/202	T22009	<i>Leucaena leucocephala</i>	銀合歡	5	190	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning, embedded into fence
60329339/TS/202	T22010	<i>Leucaena leucocephala</i>	銀合歡	3	110	2	Poor	Poor	Poor	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Broken leader
60329339/TS/202	T22011	<i>Leucaena leucocephala</i>	銀合歡	5	170	3	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning, multi-trunk, exposed roots
60329339/TS/202	T22012	<i>Leucaena leucocephala</i>	銀合歡	6	150	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning
60329339/TS/202	T22013	<i>Leucaena leucocephala</i>	銀合歡	5	180	3	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Multi-trunk, broken main leader
60329339/TS/202	T22014	<i>Leucaena leucocephala</i>	銀合歡	4	160	3	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Multi-trunk with included bark
60329339/TS/202	T22015	<i>Leucaena leucocephala</i>	銀合歡	6	210	8	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning, multi-trunk
60329339/TS/202	T22016	<i>Leucaena leucocephala</i>	銀合歡	5	220	1	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning
60329339/TS/202	T22017	<i>Macaranga tanarius</i>	血桐	2	190	2	Fair	Poor	Fair	Low		Low	a, b, c, f	NIL	Fell	Fell	Multi-trunk, crossed with T20018
60329339/TS/202	T22018	<i>Leucaena leucocephala</i>	銀合歡	5	110	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Multi-trunk, crossed with T20017
60329339/TS/202	T22019	<i>Leucaena leucocephala</i>	銀合歡	7	330	6	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Codominant trunk with included bark, leaning
60329339/TS/202	T22020	<i>Leucaena leucocephala</i>	銀合歡	4	130	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning, wound
60329339/TS/202	T22021	<i>Leucaena leucocephala</i>	銀合歡	3	100	3	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Heavy leaning
60329339/TS/202	T22022	<i>Leucaena leucocephala</i>	銀合歡	4	160	3	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Codominant trunk, leaning
60329339/TS/202	T22023	<i>Leucaena leucocephala</i>	銀合歡	5	100	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Codominant trunk
60329339/TS/202	T22024	<i>Leucaena leucocephala</i>	銀合歡	5	150	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning, dieback
60329339/TS/202	T22025	<i>Leucaena leucocephala</i>	銀合歡	3	180	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning
60329339/TS/202	T22026	<i>Leucaena leucocephala</i>	銀合歡	6	120	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning, broken branch
60329339/TS/202	T22027	<i>Leucaena leucocephala</i>	銀合歡	5	120	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Codominant trunk
60329339/TS/202	T22028	<i>Leucaena leucocephala</i>	銀合歡	6	130	4	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	-
60329339/TS/202	T22029	<i>Leucaena leucocephala</i>	銀合歡	5	160	4	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Codominant trunk, leaning, cross trunks
60329339/TS/202	T22030	<i>Leucaena leucocephala</i>	銀合歡	5	110	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning
60329339/TS/202	T22031	<i>Leucaena leucocephala</i>	銀合歡	6	380	7	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Codominant trunk, leaning, broken branch
60329339/TS/202	T22032	<i>Leucaena leucocephala</i>	銀合歡	7	130	4	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	On slope
60329339/TS/202	T22033	<i>Leucaena leucocephala</i>	銀合歡	6	140	2	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning
60329339/TS/202	T22034	<i>Leucaena leucocephala</i>	銀合歡	6	180	4	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	On Slope, codominant trunk, broken branch

Contract No. NE/2017/07

Project: Cross Bay Link, Tseung Kwan O - Main Bridge and Associated Works

Date of Survey: 16/08/2018

TREE SURVEY SCHEDULE

Drawing No.	Tree No.	Botanical Name	Chinese Common Name	SIZE (M)			Structural Condition (Good/ Fair/ Poor)	Form (Good/ Fair/ Poor)	Health (Good/ Fair/ Poor/ Dead)	Amenity Value (High/ Medium/ Low)	Existing Ground Level At The Trunk Base	Suitability for Transplanting		Conservation Status	Approved Treatment (Retain/ Transplant/ Fell/ Missing/ TBC)	In this survey (Retain/ Transplant/ Fell/ Missing/ TBC)	Additional Remarks
				Height (m)	Trunk DBH (mm)	Spread (m)						(High/ Medium/ Low)	Remarks				
60329339/TS/202	T22035	<i>Leucaena leucocephala</i>	銀合歡	6	220	4	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	On Slope, codominant trunk, leaning
60329339/TS/202	T22036	<i>Leucaena leucocephala</i>	銀合歡	7	200	4	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	On Slope, codominant trunk
60329339/TS/202	T22037	<i>Leucaena leucocephala</i>	銀合歡	7	200	3	Poor	Poor	Poor	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Codominant trunk, sparse canopy
60329339/TS/202	T22038	<i>Leucaena leucocephala</i>	銀合歡	7	140	3	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning
60329339/TS/202	T22039	<i>Leucaena leucocephala</i>	銀合歡	6	140	3	Poor	Poor	Poor	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Broken leader
60329339/TS/202	T22040	<i>Leucaena leucocephala</i>	銀合歡	12	280	8	Poor	Poor	Poor	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Codominant trunk, leaning, sparse canopy
60329339/TS/202	T22041	<i>Leucaena leucocephala</i>	銀合歡	12	170	4	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Leaning
60329339/TS/202	T22042	<i>Leucaena leucocephala</i>	銀合歡	7	160	6	Poor	Poor	Fair	Low		Low	a, b, c, f, g	NIL	Fell	Fell	Heavy leaning, broken branch
60329339/TS/202	TA1	<i>Leucaena leucocephala</i>	銀合歡	6	110	3	Poor	Poor	Fair	Low	5.16	Low	a, b, c, f, g	NIL	TBC	TBC	Restricted roots
60329339/TS/202	TA2	<i>Leucaena leucocephala</i>	銀合歡	4	95	4	Poor	Poor	Fair	Low	5.15	Low	a, b, c, f, g	NIL	TBC	TBC	restricted roots
60329339/TS/202	TA3	<i>Leucaena leucocephala</i>	銀合歡	5	200	4	Poor	Poor	Fair	Low	5.22	Low	a, b, c, f, g	NIL	TBC	TBC	Broken branch, restricted roots
60329339/TS/202	TA4	<i>Leucaena leucocephala</i>	銀合歡	6	100	3	Poor	Poor	Fair	Low	6.34	Low	a, b, c, f, g	NIL	TBC	TBC	Restricted roots
60329339/TS/202	TA5	<i>Leucaena leucocephala</i>	銀合歡	5	95	2	Poor	Poor	Fair	Low	6.35	Low	a, b, c, f, g	NIL	TBC	TBC	Restricted roots
60329339/TS/202	TA6	<i>Leucaena leucocephala</i>	銀合歡	6	140	4	Poor	Poor	Fair	Low	6.35	Low	a, b, c, f, g	NIL	TBC	TBC	Restricted roots
60329339/TS/202	TA7	<i>Ficus microcarpa</i>	細葉榕	6	180	4	Fair	Fair	Fair	Low	6.36	Low	a, b, c, f	NIL	TBC	TBC	Restricted roots
60329339/TS/202	TA8	<i>Sapium sebiferum</i>	烏桕	7	160	5	Poor	Poor	Fair	Low	6.51	Low	a, b, c, f	NIL	TBC	TBC	
60329339/TS/202	TA9	<i>Leucaena leucocephala</i>	銀合歡	9	180	6	Poor	Poor	Fair	Low	6.64	Low	a, b, c, f, g	NIL	TBC	TBC	Broken branch
60329339/TS/202	TA10	<i>Leucaena leucocephala</i>	銀合歡	3	95	1	Poor	Poor	Poor	Low	6.76	Low	a, b, c, f, g	NIL	TBC	TBC	
60329339/TS/202	TA11	<i>Leucaena leucocephala</i>	銀合歡	7	180	4	Poor	Poor	Poor	Low	6.62	Low	a, b, c, f, g	NIL	TBC	TBC	Embedded into fence
60329339/TS/202	TA12	<i>Leucaena leucocephala</i>	銀合歡	5	120	6	Poor	Poor	Poor	Low	6.64	Low	a, b, c, f, g	NIL	TBC	TBC	Collapsed
60329339/TS/202	TA13	<i>Leucaena leucocephala</i>	銀合歡	5	95	1	Poor	Poor	Poor	Low	6.82	Low	a, b, c, f, g	NIL	TBC	TBC	Collapsed
60329339/TS/202	TA14	<i>Leucaena leucocephala</i>	銀合歡	6	95	1	Poor	Poor	Poor	Low	6.80	Low	a, b, c, f, g	NIL	TBC	TBC	Collapsed
60329339/TS/202	TA15	<i>Acacia confusa</i>	台灣相思	7	325	6	Poor	Fair	Fair	Low	6.82	Low	a, b, c, f	NIL	TBC	TBC	

Remarks for Suitability for Transplanting

- (a) Low amenity value;
- (b) Irrecoverable form after transplanting (e.g. if substantial crown and root pruning are necessary to facilitate the transplanting);
- (c) Low survival rate after transplanting;
- (d) Very large size (unless the feasibility to transplant has been considered financially reasonable and technically feasible during the feasibility stage);
- (e) With evidence of over-maturity and onset of senescence;
- (f) With poor health, structure or form (e.g. imbalanced form, leaning, with major cavity/cracks/splits); or cavity/cracks/splits); or
- (g) Undesirable species (e.g. *Leucaena leucocephala* which is an invasive exotic tree).
- (h) On steep slope.

