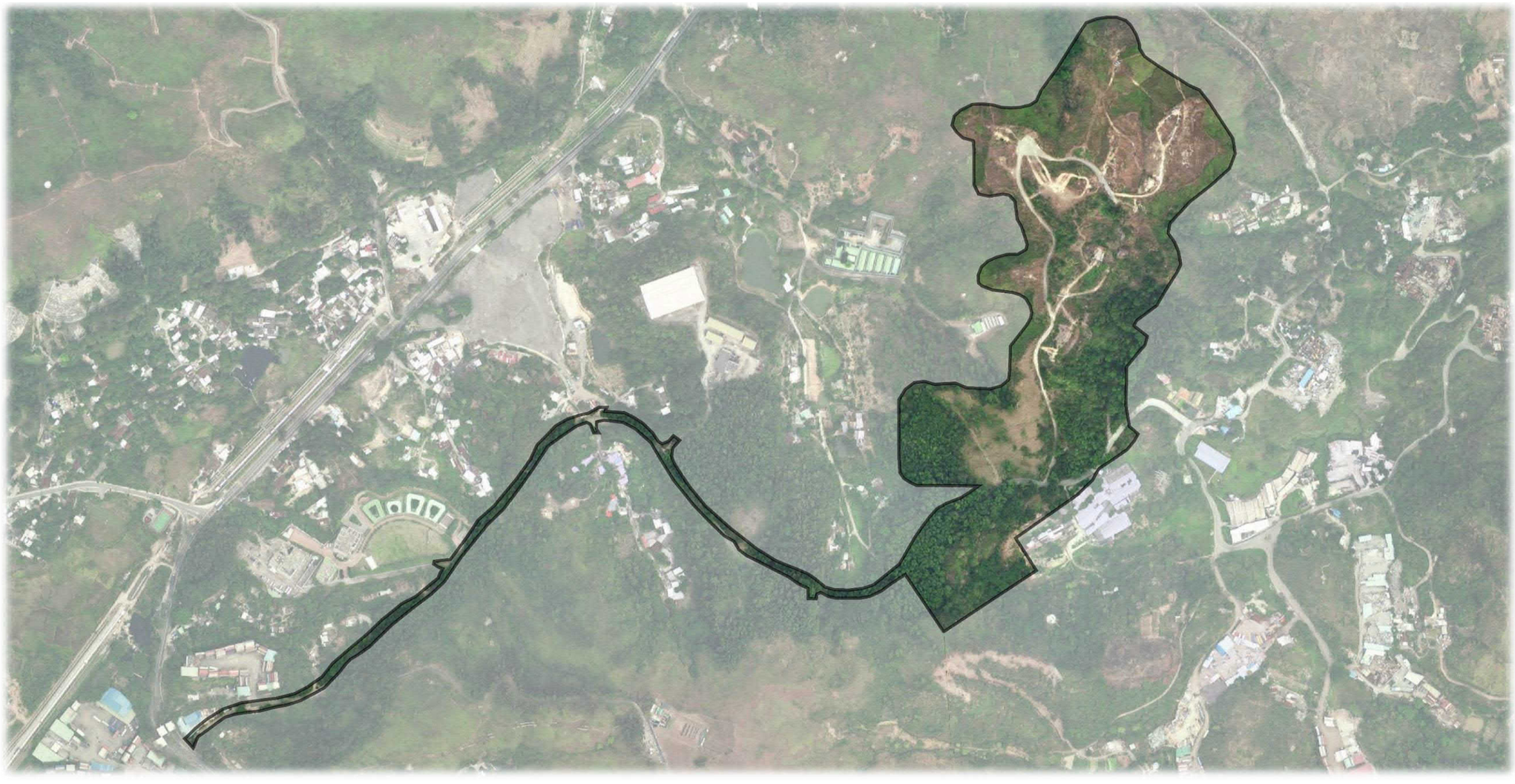
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINSTRATIVE REGION

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Agreement No. CE 60/2016 (CE)

Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po - Design and Construction



Environmental Permit No. EP-510/2016

Landscape and Visual Mitigation Plan

ET Certification Letter

WELLAB 匯力
consulting . testing . research

Our ref.: WL/WMA20001/Corres/Out/CEDD/it250925

Civil Engineering and Development Department
North Development Office
North Division (2)
Unit 1218, Level 12, Tower I,
Metroplaza, 223 Hing Fong Road,
Kwai Fong, N.T.

By E-Mail
25th September 2025

Attn.: Mr. AU Sheung Ho, Kelvin

Dear Mr. Au,

Environmental Permits No. EP-510/2016
Service Contract No. NDO 07/2019
Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
- **Revised Landscape and Visual Mitigation Plan**

I refer to the Revised Landscape and Visual Mitigation Plan (July 2025) submitted by AECOM via email dated 25th September 2025 for the captioned project.

I am pleased to inform you that I have no further comment on the Plan and agree to certify the above document in accordance with the EP (No. EP-510/2016), Condition 2.18.

Should you have any further information, please feel free to contact the undersigned at 2151 2090.

Yours faithfully,
Wellab Limited

Ms. Ivy Tam
Environmental Team Leader

c.c. AECOM (Attn: Steven Leung) By e-mail
IEC (Attn.: Mr. Kevin Li) By e-mail

WELLAB 匯力
consulting . testing . research

Our ref.: WL/WMA20001/Corres/Out/CEDD/LA250929

Civil Engineering and Development Department
North Development Office
North Division (2)
Unit 1218, Level 12, Tower I,
Metroplaza, 223 Hing Fong Road,
Kwai Fong, N.T.

By E-Mail
29th September 2025

Attn.: Mr. AU Sheung Ho, Kelvin

Dear Mr. Au,

Environmental Permits No. EP-510/2016
Service Contract No. NDO 07/2019
Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
- **Revised Landscape and Visual Mitigation Plan**

I refer to the Revised Landscape and Visual Mitigation Plan (July 2025) submitted by AECOM via email dated 25th September 2025 for the captioned project.

I am pleased to inform you that I have no further comment on the Plan and agree to certify the above document in accordance with the EP (No. EP-510/2016), Condition 2.18.

Should you have any further information, please feel free to contact our Ms. Ivy Tam (Environmental Team Leader) at 2151 2090 or the undersigned at 2868 0980.

Yours faithfully,
Wellab Limited

Mr. Ted Lam
Registered Landscape Architect

c.c. AECOM (Attn: Steven Leung) By e-mail
IEC (Attn.: Mr. Kevin Li) By e-mail

IEC Verification Letter

Member of the Aurecon Group

Our Ref.: PL-202510016

Civil Engineering and Development Department
North Development Office
Unit 2320, Level 23, Tower 1, Metroplaza
223 Hing Fong Road,
Kwai Fong, New Territories,
Hong Kong

Attention: Mr. Au Sheung Ho, Kelvin

2nd October 2025

Dear Mr. Au,

Environmental Permits No. EP-510/2016
Contract No.: NDO/07/2019
Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Verification of Revised Landscape and Visual Mitigation Plan

I refer to the email from the AECOM dated 30th September 2025 concerning the captioned. I have no adverse comment on the revised landscape and visual mitigation plan and verify the plan according to Conditions 2.18 of the Environmental Permit with permit number EP-510/2016.

Yours faithfully,



Kevin Li
Independent Environmental Checker

cc. AECOM – Mr. Steven Leung
ET Leader – Ivy Tam

RtoC Table

Agreement CE 60/2016(CE)
Site Formation and Infrastructural Works for Police Facilities at Kong Nga Po – Design and Construction

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Comment	**Response**
1. Our previous comments for items 2 to 4 remain valid:	
a) Although Appendix IX contains the approved Landscape and Visual Mitigation Measures Plan (LVMP) for reference, a latest LVMP with clear annotations and legends aligned with latest Landscape Master Plan should be provided to demonstrate the implementation of all mitigation measures during both construction and operation stage.	Noted. The latest LVMP has been supplemented in **Appendix IX**
b) With reference to paragraphs 1.3.2 to 1.3.5 and RtC items 2 to 4, some of the proposed mitigation measures in the approved EIA cannot be implemented due to site-specific constraints and limitations, including climbers for greening at the retaining wall/abutment (OM10), some portions of retaining walls/slopes to be treated with soft landscape works (OM04), some locations of landscape buffer tree planting (OM06) at Kong Nga Po Road, and some roadside and amenity planting (OM07).	(see below responses)
i) Please illustrate the extent of reduction for each of these affected mitigation measures on the latest LVMP.	The extent of reduction of landscaping works (OM4, OM6) with respect to the LVMP in the approved EIA has been indicated to **Annex B of this RtC**. Please note that according to Appendix V, OM07 applies to KNP Police Facilities Site only and OM10 is considered fulfilled by applying random stone pattern to retaining

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Comment	Response
	walls as an alternative.
ii) Besides, no single alternative has been proposed in response to the reduction of the above-mentioned mitigation measures. Please explore every possible opportunities to provide alternatives for the reduction of mitigation measures.	Thank you for your further comment regarding the recurring concern on reduction in proposed mitigation measures from the approved EIA and the request to explore alternative opportunities. We wish to provide our response, consolidating the responses provided so far with further elaboration, for your consideration. Firstly, we acknowledge that certain mitigation measures outlined in the approved EIA, including climbers for greening retaining walls/abutments (OM10), soft landscape works on portions of retaining walls/slopes (OM04), landscape buffer tree planting (OM06) along Kong Nga Po Road, and roadside/amenity planting (OM07), cannot be fully implemented due to site-specific constraints and limitations during construction stage. For instance, some portions of slopes are constructed using no-fine concrete due to actual ground condition i.e. in-situ soil parameter cannot support proposed geometry of slope works under conforming design, which is designed and optimized to minimize impact to existing slopes, existing trees and greenings, land status, etc. We acknowledge that no-fine concrete slope may lack planting zones required for establishing climbers or soft landscape works. Besides, roadside areas along Kong Nga Po Road are also constrained by narrow widths, underground utilities, and safety requirements, which limit space for further tree planting or amenity planting. However, we wish to point out that these adjustments

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Comment	Response
	were necessary to cope with actual site conditions and constraints. Although certain mitigation measures cannot be implemented as originally proposed, we wish to emphasize that our commitment to vegetation and landscape restoration remains unchanged. The project team has taken a comprehensive and proactive approach to maximize greening opportunities within the constraints of the site. For example, detailed site assessments and surveys have been conducted to identify feasible planting zones. All available planting spaces within the project boundary have been fully utilized for greening restoration. Woodland mix planting, shrubs mix planting, and preservation of existing trees and vegetation have been integrated to achieve a balanced and effective greening effect. Also, mature trees and vegetation within the project boundary have been preserved wherever possible. These existing landscape elements provide significant landscape and visual benefits, contributing to the continuity of green cover and enhancing the screening of hard structures. The compensatory woodland and shrubs planting areas have been implemented to achieve effective greening and visual mitigation. Although the total woodland mix planting area has been revised to reflect the actual site conditions and constraints, the quality and functionality of the planting measures have been optimized to align with the landscape mitigation objective in the approved EIA. Current site conditions with landscape mitigation measures

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Comment	Response
	being implemented are enclosed at **Annex C of this RtC** for your reference. We acknowledge the feedback regarding alternatives for the reduction of specific mitigation measures. While site constraints limit the feasibility of implementing certain measures, we have explored and implemented alternative strategies to mitigate landscape and visual impacts to the greatest extent practicable. These include maximizing shrubs and woodland planting viz. woodland mix and shrubs mix planting have been strategically placed to soften the hard edges of retaining walls and slopes, ensuring effective integration of the structures into the surrounding landscape; hydroseeding and groundcover planting viz. where tree or shrub planting is not feasible, hydroseeding and groundcover planting have been implemented to stabilize slopes and provide greening effects. To conclude, in response to the reduction of the originally proposed landscape mitigation measures, a range of alternative and practical measures have been implemented to maximize greening opportunities and mitigate landscape and visual impacts. These include the preservation and enhancement of existing mature trees and vegetation, which provide significant landscape and visual benefits, as well as the strategic placement of woodland mix and shrubs mix planting to soften hard edges of retaining walls and slopes as far as practical.

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Comment	Response
	Additionally, hydroseeding and groundcover planting have been applied where tree and shrub planting is not feasible, ensuring effective greening within the site's constraints. Despite these efforts, the ability to implement further landscape provisions or alternative measures is limited by site-specific constraints, such as narrow planting spaces, no-fine concrete surfaces unsuitable for vegetation, and underground utilities. However, it is important to emphasize that the updated mitigation measures reflect a practical and realistic approach to on-site conditions while adhering to the greening objectives of the approved EIA report. The updated planting arrangements continue to align with the intent of the EIA by achieving effective greening and visual mitigation and preserving the overall landscape quality. The preservation of existing trees, combined with new planting measures, ensures that the project delivers comprehensive greening and screening effects. We hope the above explanations sufficiently address the concerns raised and demonstrate our commitment to maximizing greening opportunities and fulfilling the landscape mitigation measures as required. While site-specific constraints limit the feasibility of certain measures, the proposed mitigation strategy represents a balanced and practical approach to achieving the intended landscape and visual mitigation effects.
c) RtC item 3: With reference to Figure C3 and C5 in Appendix	Noted. The annotations have been updated.

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Comment	Response
II, the blue-clouded areas are annotated as "no-fines concrete slope" while the graphics depict hydroseeding/grass areas. For clarity, please revise the photomontages as appropriate.	
2. Appendix II – Preliminary Landscape Master Plan:	
a) Some landscape-related mitigation measures are not demonstrated on the Landscape Master Plan, including tree protection and preservation (CM01), tree transplantation (CM02), the design of retaining walls and slopes (OM04) and compensatory planting proposal (OM05), etc. Please demonstrate these on the plan with clear legends.	Noted. The Landscape Master Plan is updated accordingly. Please be advised that the three transplanted tree (CM02) had died eventually and therefore they are not indicated in the plan.
b) The blue-clouded areas were annotated with legends in Annex A of last submission, while this is missing in current submission. Please provide the annotation.	Noted. **Annex A** with annotation has been provided.
3. Appendix V – Detailed Summary Table for Visual Enhancement and Landscape Mitigation Measures: With reference to Para 1.3.3 to 1.3.5, climbers for greening at the retaining wall/abutment cannot be implemented. Thus, please review the proposed mitigation measures and the implementation department for vertical greening (OM10) and revise as	Noted and revised.

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Comment	Response
appropriate.	
4. Section 1.1.10: Suggest amending to read as "...The EIA Report was approved under the EIAO on 20 October 2016 and the Environmental Permit No. EP-510/2016 was issued to CEDD on 1 November 2016 for construction and operation of the designated project."	Noted and revised.
5. Section 1.2.1: Suggest amending to read as "...Agreement No. CE 60/2016 (CE) - Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po - Design and Construction (the Project)".	Noted and revised.
6. Section 1.2.5: I am unable to locate Figure 01.	Noted. Figure 01 has been provided.
7. Section 1.2.6:	
a) Suggest amending to read as "This assignment do not cover the building works, which shall be the responsibility of ArchSD covered under the Environmental Permit No. FEP-01/510/2016." I understand there are some landscaping works under the FEP, please check whether this sentence is factually correct.	Noted and revised.
b) Suggest including a plan / table showing the demarcation of	Plan and table showing the demarcation of works as identified and coordinated

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Comment	Response
works between the EP and the FEP.	under Design Stage are attached for your reference.
8. Sections 1.2.4 and 1.2.7: Please update the information.	Noted and updated.

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Revised Annex A of Last Submission

Annex A

LEGEND:

- PROPOSED KONG NGA PO DEVELOPMENT AREA
- PROPOSED KONG NGA PO ROAD IMPROVEMENT WORKS
- NEW CUT SLOPES
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING (OM 06)
- PROPOSED SHRUB–GRASSLAND (OM 08)
- PROPOSED AMENITY TREE AND SHRUB PLANTING (OM 07)
- PROPOSED LAWN AREA
- Building associated landscape works within platforms to be implemented by ARCHSD under building contract which includes:
  1. Pavement
  2. Lawn
  3. OM01: Detailed Design Considerations;
     OM02: Aesthetically Pleasing Design and Responsive Design of Buildings and Structures;
     OM07: Roadside and Amenity Planting;
     OM08: Grassland (Ecological Mitigation);
     OM09: Green Roof;
     OM10: Vertical Greening;
     OM11: Green Paving
- Landscape works including buffer planting are designed by CEDD and to be constructed by ArchSD under building contract

SITE BOUNDARY FOR PROJECT MAIN SITE
(All tree planting within project main site to be implemented under ARCHSD building works contract)

Change filling material to no-fines concrete at slope adjacent to Kong Nga Po Road and trees are unable be planted on slope. Hydroseeding is applied on slope face.

Climber at the retaining wall omitted

ITE BOUNDARY FOR IMPROVEMENT WORKS AT KONG NGA PO ROAD

The ground materail at slope surface adjacent to Kong Nga Po Road is rock and trees are unable be planted on rock slope.

Change filling material to no-fines concrete at part of slope and trees are unable be planted at slope portion with no-fines concrete. Hydroseeding is applied on slope face.

Boundary line of Proposed Kong Nga Po Road Improvement Works

Climber at the retaining wall omitted

Boundary line of Proposed Kong Nga Po Road Improvement Works

Climber at the bridge abutment omitted

VIADUCT

Change filling material to no-fines concrete at slope adjacent to Kong Nga Po Road and trees are unable be planted on slope. Hydroseeding is applied on slope face

Change filling material to no-fines concrete at slope adjacent to Kong Nga Po Road and trees are unable be planted on slope. Hydroseeding is applied on slope face

HEIGHT OF RETAINING STRUCTURE: (OUTSIDE THE DEVELOPMENT AREA AND ALONG KONG NGA PO ROAD)

RETAINING WALL

© Mott MacDonald Hong Kong Limited

AECOM

PROJECT
項目
SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - 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.
www.aecom.com

SUB-CONSULTANTS
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ISSUE/REVISION
修訂

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

STATUS
狀況

SCALE
比例
1 : 2000

DIMENSION UNIT
尺寸單位
METERS

KEY PLAN
索引圖

PROJECT NO.
項目編號
60534575

CONTRACT NO.
合約編號
CE 60/2016 (CE)

SHEET TITLE
圖紙名稱
PRELIMINARY LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號
60534575/PDR/L002

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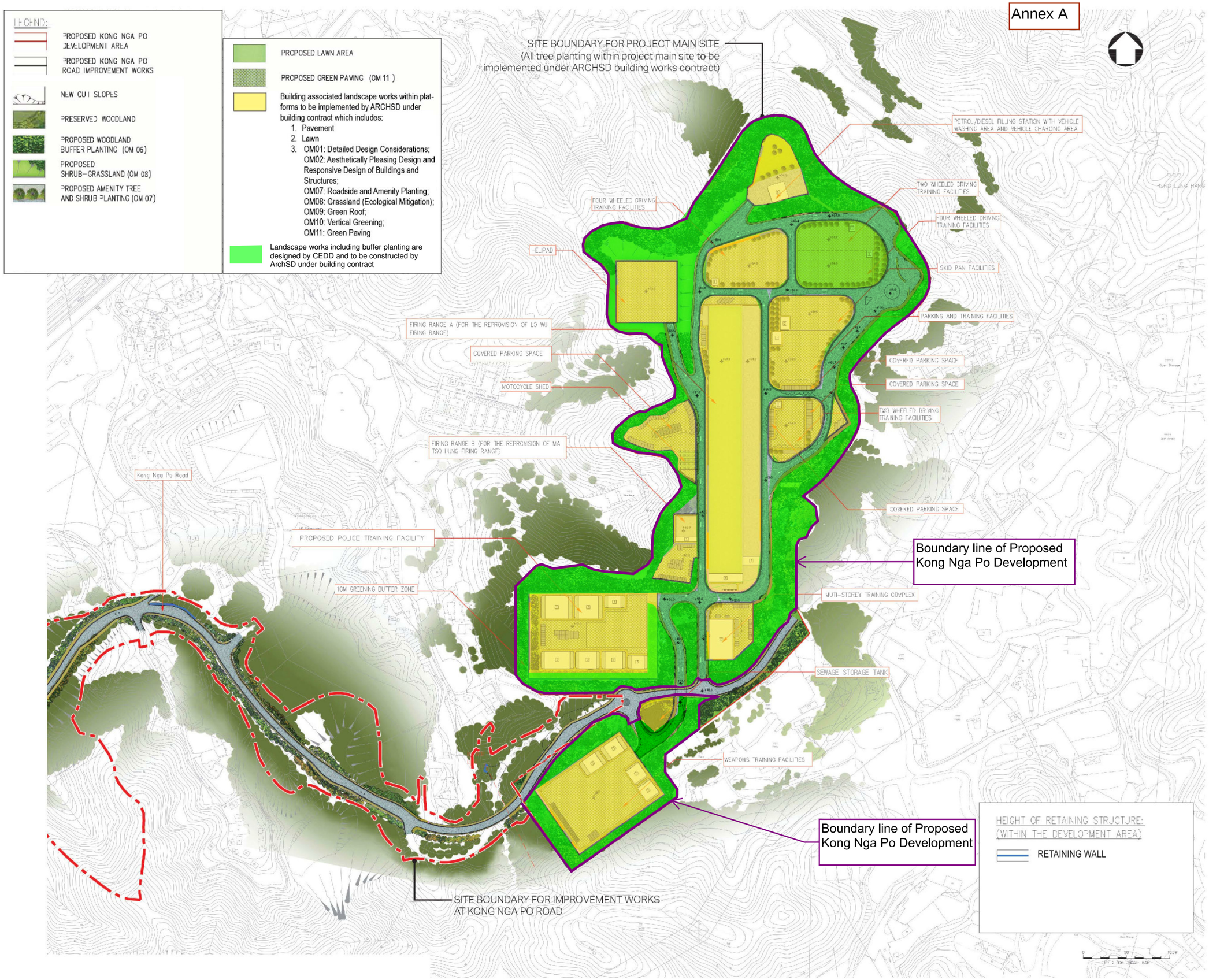
Annex A



AECOM

PROJECT
項目

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - 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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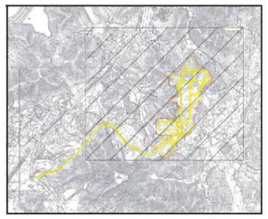
STATUS
階段

SCALE 比例: 1 : 2000

DIMENSION UNIT 尺寸單位: METERS

KEY PLAN
索引圖



PROJECT NO. 項目編號: 60534575

CONTRACT NO. 合約編號: CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

PRELIMINARY LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號

60534575/PDR/L001

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Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025

Annex B of Response-to-Comments

ANNEX B

ID No.	Mitigation Measure
CM01	Tree Protection and Preservation
CM02	Tree Transplantation
CM03	Work Area and Temporary Works Area
CM04	Advance Implementation of Mitigation Planting
CM05	Decorative Screen Hoarding*
OM01	Detailed Design Considerations
OM02	Aesthetically Pleasing Design and Responsive Design of Buildings and Structures
OM03	Design of Engineering Structures
OM04	Design of Retaining Walls and Slopes
OM05	Compensatory Planting Proposals
OM06	Landscape Buffer Tree Planting
OM07	Roadside and Amenity Planting
OM08	Grassland (Ecological Mitigation)
OM09	Green Roof**
OM10	Vertical Greening**
OM11	Green Paving**
OM12	Light Control (Operation)

*Decorative screen hoarding will be constructed along the construction works close to visually sensitive receivers during the construction phase of the works to screen undesirable views of the construction site. The actual hoarding location will be subject to detailed design.

**The greening of structures is indicative only. The actual planting areas will be subject to detailed design.

CUT SLOPE AT HIGHTLY DECOMPOSED ROCK MATERIAL
CM03,OM08

Remark:
Reduction of concerned mitigation measures due to (i) limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

OM06

MATCH LINE

Remark:
Reduction of concerned mitigation measures due to (i) design refinement during Design Stage; and (ii) limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

OM04
OM06

EXISTING PLANTATION WOODLAND
CM01

Remark:
Reduction of concerned mitigation measures due to (i) limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

OM06

Remark:
Reduction of concerned mitigation measures due to (i) design refinement during Design Stage; and (ii) limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

OM06

Remark:
Reduction of concerned mitigation measures due to (i) limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

EXISTING PLANTATION WOODLAND
CM01

EXISTING PLANTATION WOODLAND
CM01

PROPOSED LANDSCAPE BUFFER PLANTING
CM03,CM04,OM05,OM06

OM06

Remark:
Reduction of concerned mitigation measures due to limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

RETAINING WALL(<3M IN HEIGHT)
OM04,OM08

RETAINING WALL(3-6M IN HEIGHT)
OM04,OM07

RETAINING WALL(<3M IN HFIGHT)
OM04,OM08

Remark:
Reduction of concerned mitigation measures due to (i) design refinement during Design Stage; and (ii) limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

OM04, OM06

EXISTING PLANTATION WOODLAND
CM01

OM06

EXISTING PLANTATION WOODLAND
CM01

SOIL CUT SLOPE
CM01,CM03,OM08

Remark:
Reduction of concerned mitigation measures due to (i) design refinement during Design Stage; and (ii) limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

OM04
OM06

EXISTING PLANTATION WOODLAND
CM01

Remark:
Reduction of concerned mitigation measures due to (i) design refinement during Design Stage; and (ii) limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

OM04
OM06

OM06

Remark:
Reduction of concerned mitigation measures due to limitation on tree planting opportunity as verified and agreed during Design Stage and TPRP.

EXISTING PLANTATION WOODLAND
CM01,CM03

PROPOSFD LANDSCAPF BUFFFR PLANTING
CM03,CM04,OM05,OM06

PROPOSFD LANDSCAPF BUFFFR PLANTING
CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

HEIGHT OF RETAINING STRUCTURE:
(OUTSIDE THE DEVELOPMENT AREA AND ALONG IMPROVED KONG NGA PO ROAD)

	LENGTH:
< 3M	655M
3 TO 6M	318M

0 10 20 30 40 50m
1 : 1 000 SCALE BAR

LEGEND:

- PROPOSED KONG NGA PO DEVELOPMENT AREA
- PROPOSED KONG NGA PO ROAD IMPROVEMENT WORKS
- PROPOSED BUILDINGS AND STRUCTURES
- HEIGHT OF PROPOSED BUILDINGS (NUMBER OF STOREYS)
- INTERNAL CIRCULATION ROADS
- PARKING PROVISION
- PROPOSED ROCK CUT SLOPE
- PROPOSED CUTTING SLOPE
- PROPOSED FILLING SLOPE
- EXISTING PLANTATION AND SECONDARY WOODLAND WITHIN THE PROJECT BOUNDARY
- EXISTING PLANTATION AND SECONDARY WOODLAND OUTSIDE THE PROJECT BOUNDARY
- PROPOSED LANDSCAPE BUFFER PLANTING
- PROPOSED SHRUB-GRASSLAND PLANTING
- PROPOSED LAWN
- PROPOSED ROADSIDE AND AMENITY PLANTING
- PROPOSED BUILDING AND STRUCTURES
- PROPOSED GREEN PAVING
- OM01 REDUCTION OF MITIGATION MEASURE

Client

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE 60/2016 (CE) SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

Title

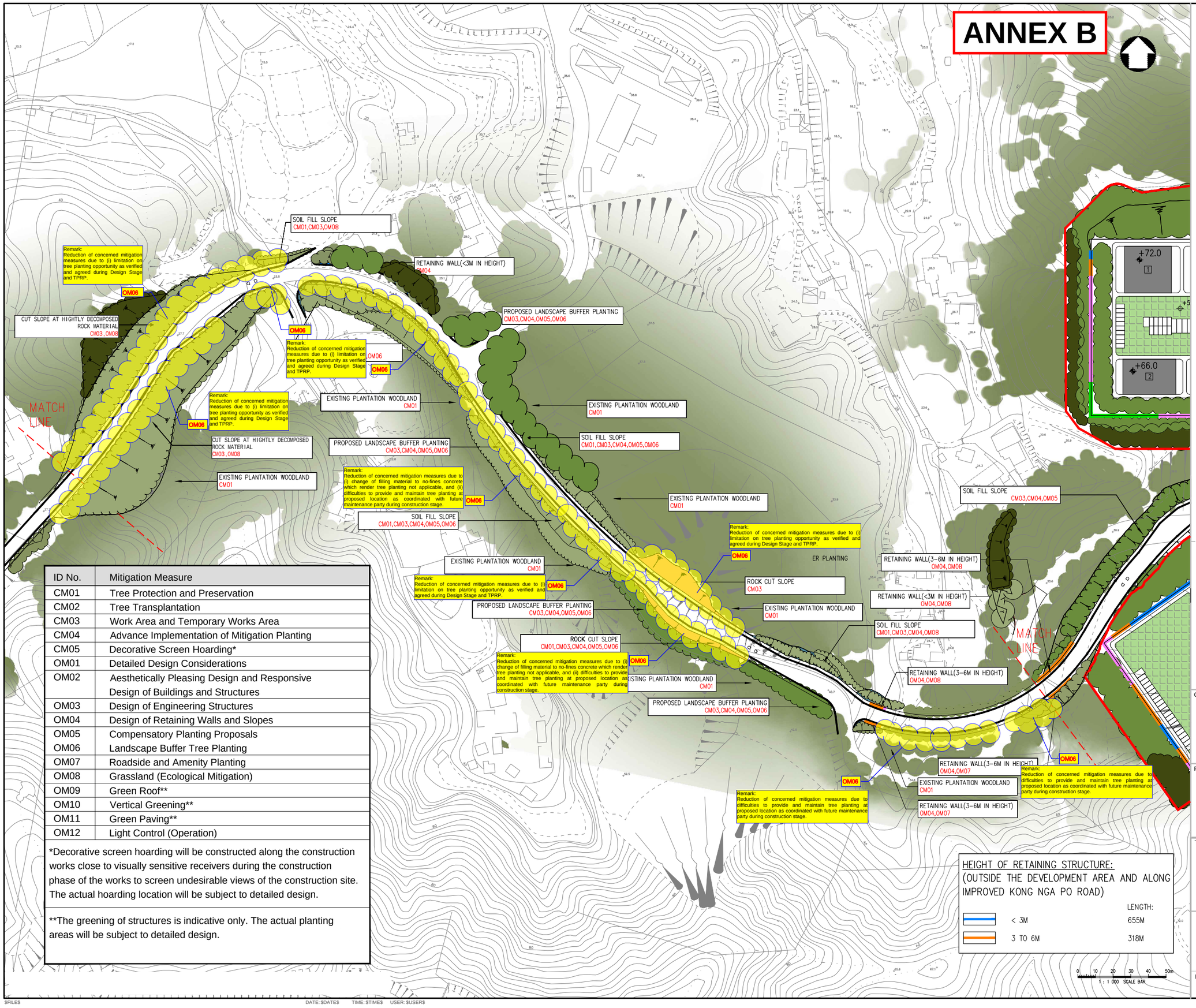
LANDSCAPE AND VISUAL MITIGATION MEASURES - PLAN

Drawing Number

APPENDIX XI

$FILE$ DATE: $DATE$ TIME: $TIME$ USER: $USER$

ANNEX B



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HEIGHT OF RETAINING STRUCTURE:
(OUTSIDE THE DEVELOPMENT AREA AND ALONG IMPROVED KONG NGA PO ROAD)

	LENGTH:
< 3M	655M
3 TO 6M	318M

LEGEND:

- PROPOSED KONG NGA PO DEVELOPMENT AREA
- PROPOSED KONG NGA PO ROAD IMPROVEMENT WORKS
- PROPOSED BUILDINGS AND STRUCTURES
- HEIGHT OF PROPOSED BUILDINGS (NUMBER OF STOREYS)
- INTERNAL CIRCULATION ROADS
- PARKING PROVISION
- PROPOSED ROCK CUT SLOPE
- PROPOSED CUTTING SLOPE
- PROPOSED FILLING SLOPE
- EXISTING PLANTATION AND SECONDARY WOODLAND WITHIN THE PROJECT BOUNDARY
- EXISTING PLANTATION AND SECONDARY WOODLAND OUTSIDE THE PROJECT BOUNDARY
- PROPOSED LANDSCAPE BUFFER PLANTING
- PROPOSED SHRUB-GRASSLAND PLANTING
- PROPOSED LAWN
- PROPOSED ROADSIDE AND AMENITY PLANTING
- PROPOSED BUILDING AND STRUCTURES
- PROPOSED GREEN PAVING
- OM06 REDUCTION OF MITIGATION MEASURE

REMARK:
THE LAYOUT AND MITIGATION MEASURES SHOWN IN THE KNP DEVELOPMENT AREA ARE INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN AND IMPLEMENTATION BY OTHERS.

Client

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE 60/2016 (CE) SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

Title

LANDSCAPE AND VISUAL MITIGATION MEASURES - PLAN

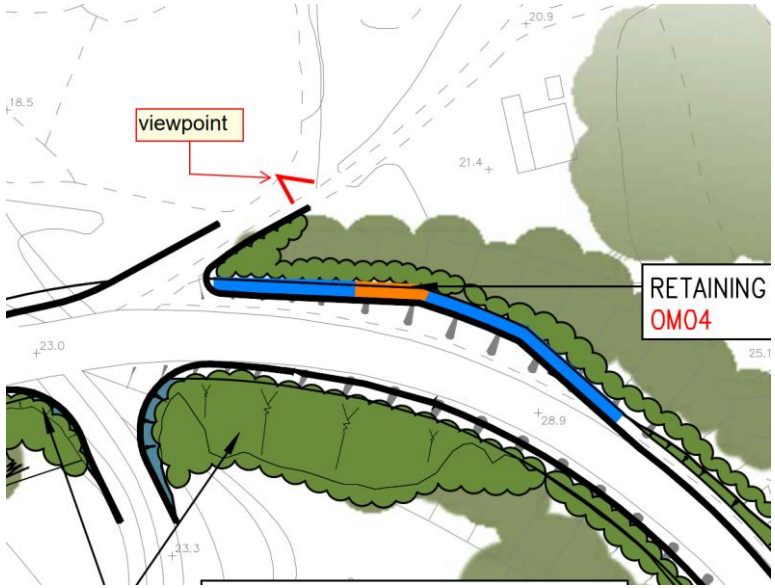
Drawing Number

APPENDIX XI

Landscape and Visual Mitigation Plan

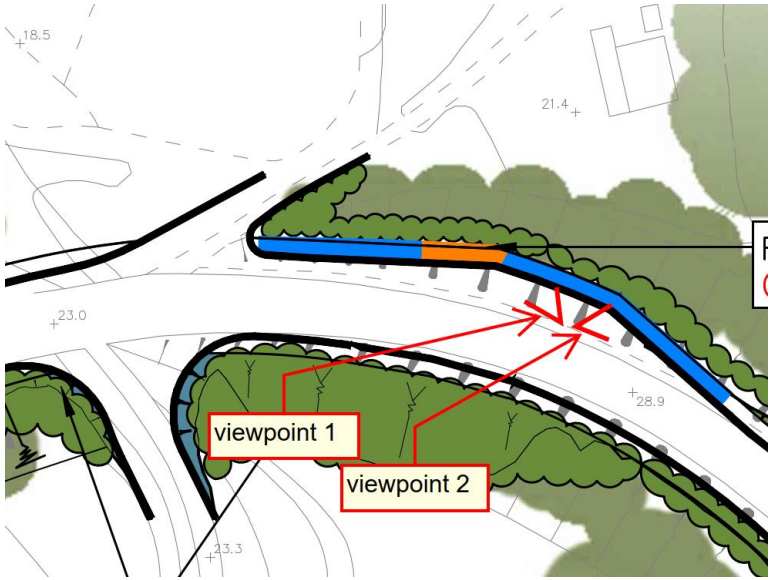
Responses to Comments in Email Dated 26 May 2025

Annex C of Response-to-Comments

Location	Photo
	

Landscape and Visual Mitigation Plan

Responses to Comments in Email Dated 26 May 2025



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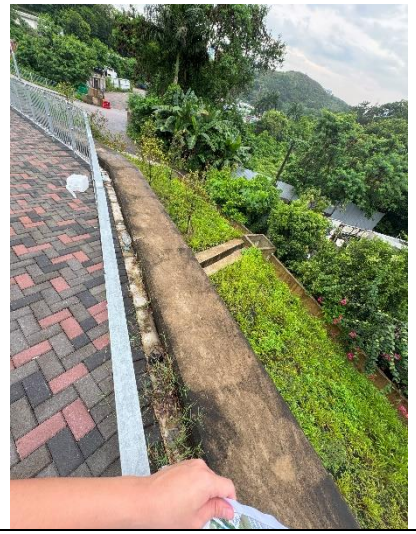

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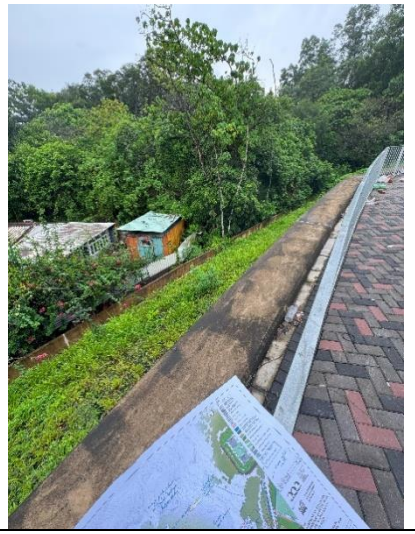

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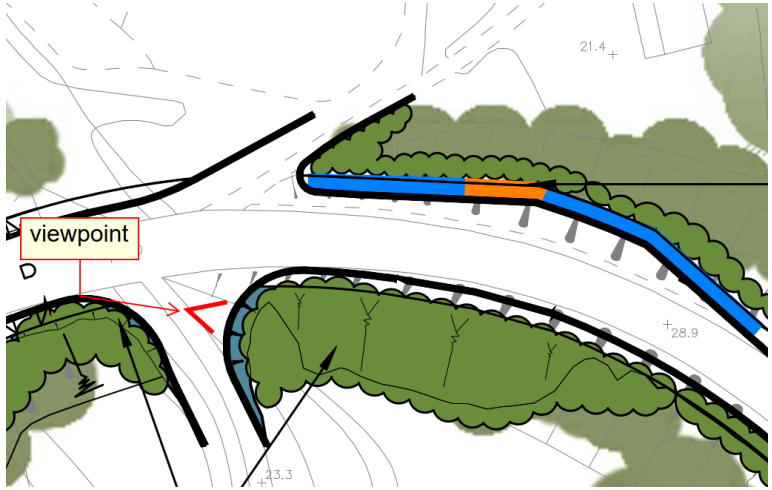	

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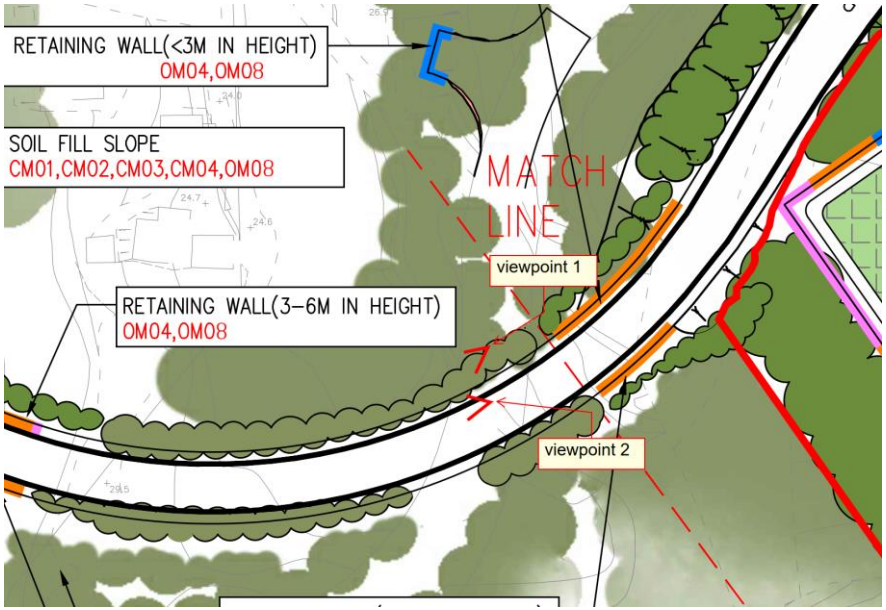

Viewpoint 1



Viewpoint 2



Landscape and Visual Mitigation Plan

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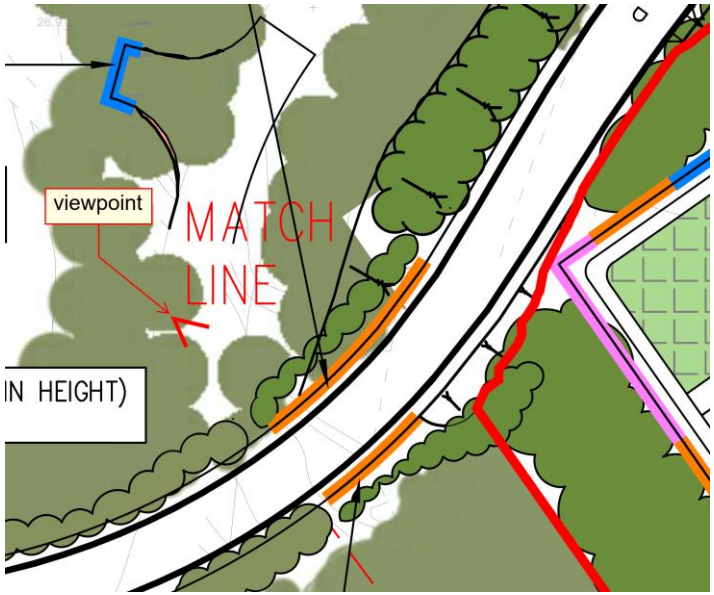	

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LEGEND:

- PROPOSED KONG NGA PO DEVELOPMENT AREA
- PROPOSED KONG NGA PO ROAD IMPROVEMENT WORKS
- NEW CUT SLOPES
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING (OM 06)
- PROPOSED SHRUB-GRASSLAND (OM 08)
- PROPOSED AMENITY TREE AND SHRUB PLANTING (OM 07)
- PROPOSED LAWN AREA
- Building associated landscape works within platforms to be implemented by ARCHSD under building contract which includes:
  1. Pavement
  2. Lawn
  3. OM01: Detailed Design Considerations;
     OM02: Aesthetically Pleasing Design and Responsive Design of Buildings and Structures;
     OM07: Roadside and Amenity Planting;
     OM08: Grassland (Ecological Mitigation);
     OM09: Green Roof;
     OM10: Vertical Greening;
     OM11: Green Paving
- Landscape works including buffer planting are designed by CEDD and to be constructed by ArchSD under building contract

SITE BOUNDARY FOR PROJECT MAIN SITE
(All tree planting within project main site to be implemented under ARCHSD building works contract)

SITE BOUNDARY FOR IMPROVEMENT WORKS AT KONG NGA PO ROAD

VIADUCT

HEIGHT OF RETAINING STRUCTURE:
(OUTSIDE THE DEVELOPMENT AREA AND ALONG KONG NGA PO ROAD)

- RETAINING WALL

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ned.

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AECOM

PROJECT
項目

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - 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

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 作修訂部	CHK. 核核

STATUS
狀態

SCALE 比例: 1 : 2000

DIMENSION UNIT 尺寸單位: METERS

KEY PLAN
索引圖



PROJECT NO. 項目編號: 60534575

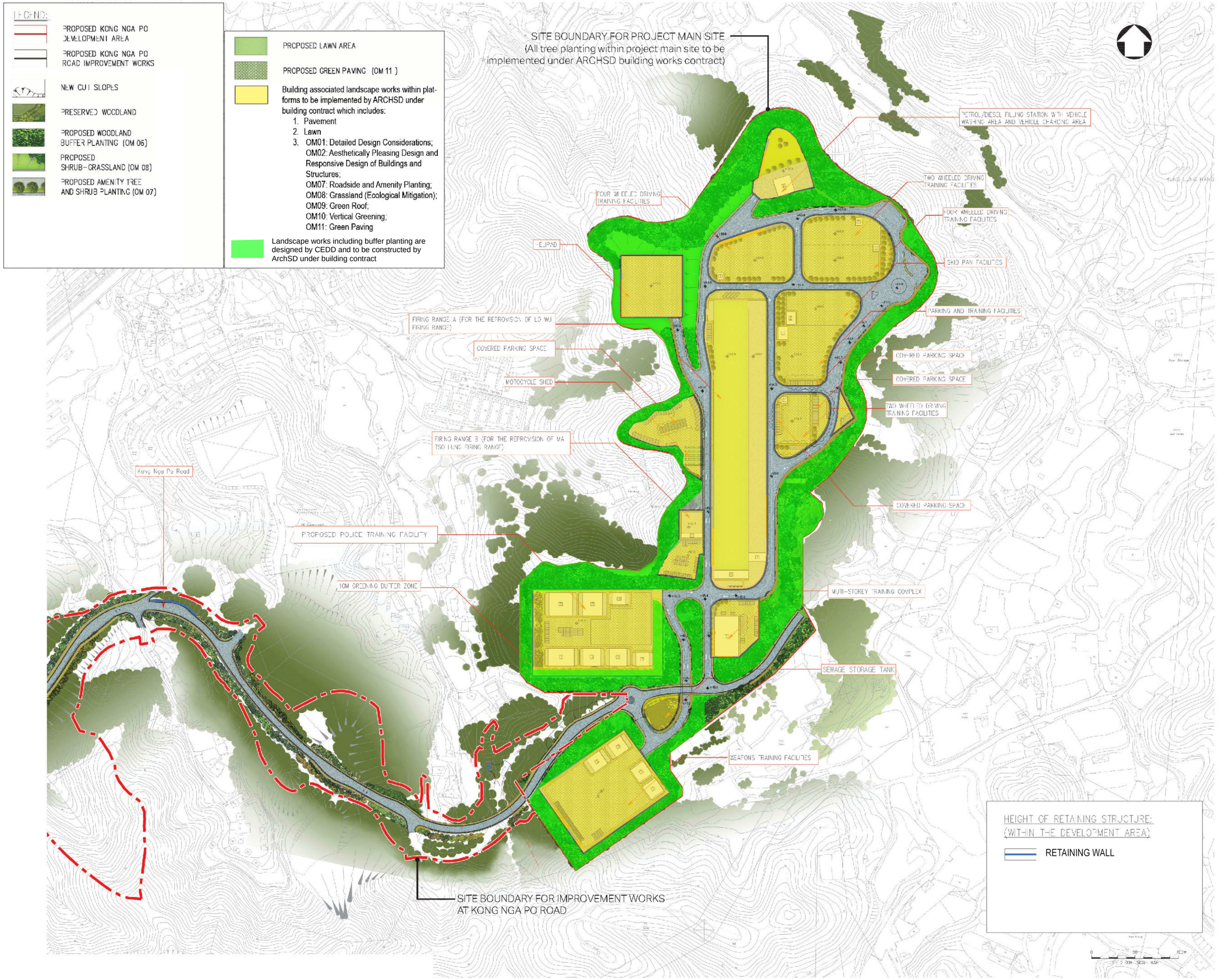
CONTRACT NO. 合約編號: CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

PRELIMINARY LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號

60534575/PDR/L002



AECOM

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DIMENSION UNIT
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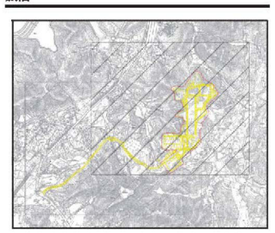

PROJECT NO.
項目編號
60534575

CONTRACT NO.
合約編號
CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

PRELIMINARY LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號

60534575/PDR/L001

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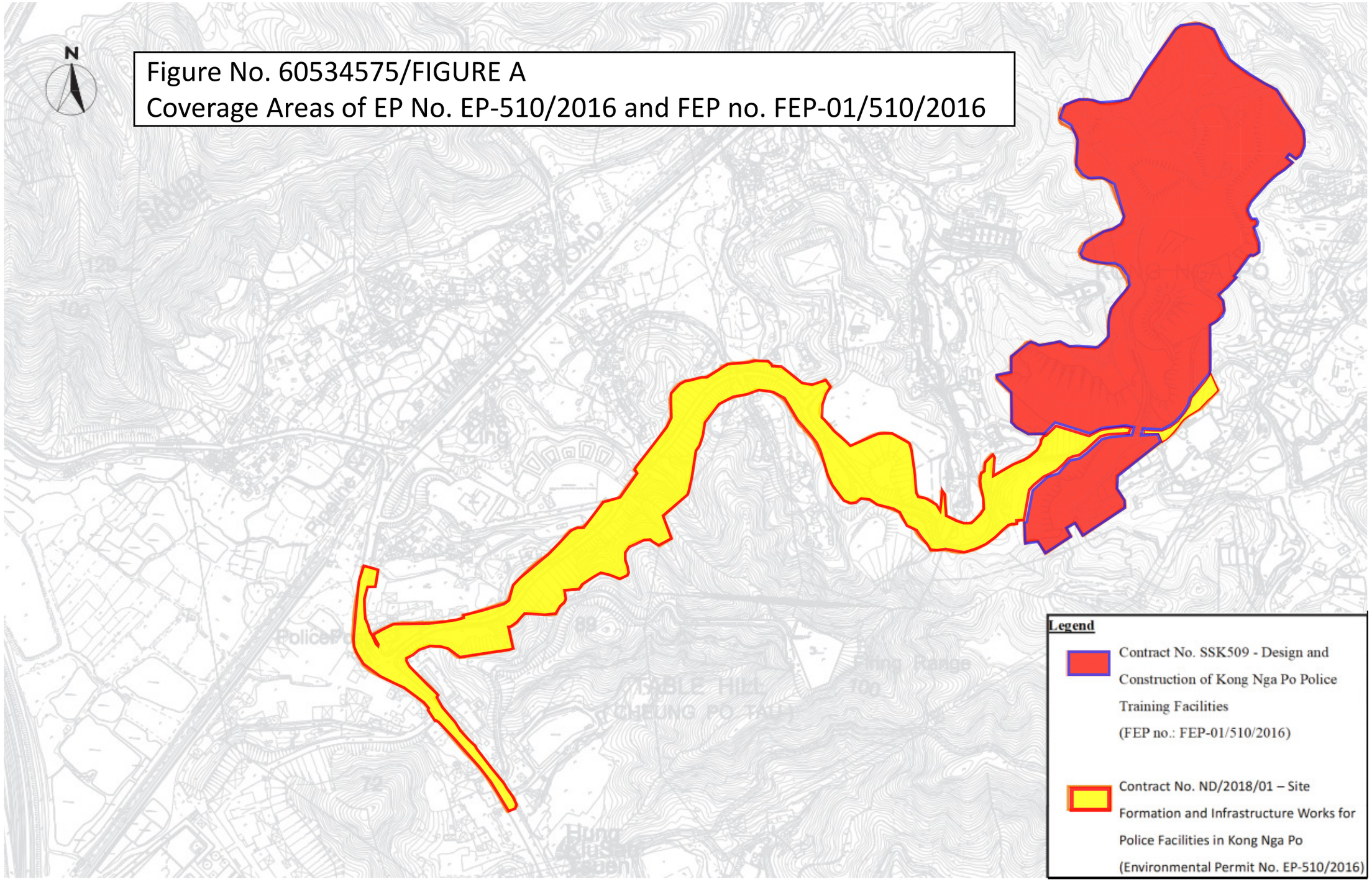
3/28/2017

1.9 All submissions or any variation of the submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC)

Clauses	Submissions	Responsible Party	Schedule	Remark
Submissions and/or Measures before Commencement of Construction of the Project				
2.1-2.3	Employment of Environmental Team (ET)	CEDD / ArchSD*	no later than 3 months before the commencement of construction of the Project	-
2.4	Employment of Qualified Ecologist(s)		no later than 3 months before the commencement of the construction of the Project	part of the ET; qualification and experience to be certified by the ET Leader and verified by the IEC
2.5	Employment of Registered Landscape Architect		no later than 1 month before the commencement of the construction of the Project	
2.6-2.9	Employment of IEC	CEDD / ArchSD*	no later than 3 months before the commencement of construction of the Project	-
2.10	Community Liaison Hotline	CEDD / ArchSD*	at least 2 weeks before the commencement of construction of the Project	via the dedicated website to be set up by the Permit Holder (clause 4.2)
2.11	Submission of Management Organizations	CEDD / ArchSD*	no later than 1 month before the commencement of construction of the Project	-
2.12	Submission of Construction Works Schedule and Location Plans	CEDD / ArchSD*	no later than 1 month before the commencement of construction of the Project	-
2.13-2.14	Submission of Detailed Vegetation Survey Report	CEDD	no later than 3 months before start of site clearance	prepared by the Qualified Ecologist(s) under the ET
	Transplantation Proposal	CEDD	no later than 1 month before commencement of plant transplantation	
2.15	Submission of Baseline Survey Report for Golden-headed Cisticola	CEDD	no later than 1 month before start of site clearance	prepared by the Qualified Ecologist(s) under the ET
2.16	Submission of Revised Layout Plan of Kong Nga Po Road	CEDD	no later than 1 month before the commencement of the construction works for KNP Road	-
2.17	Submission of Layout Plan for Permeable Pavings	CEDD / ArchSD*	no later than 1 month before the commencement of the construction works of the Project	-
2.18-2.19	Submission of Landscape and Visual Mitigation Plan(s)	CEDD / ArchSD*	no later than 1 month before the commencement of construction of relevant part(s) of the Project	certified by the Registered Landscape Architect under the ET
2.20	Submission of Plan for Perimeter Walls/ Boundary Walls at Project Site and Side Walls of Firing Ranges	ArchSD	no later than 1 month before the commencement of construction of relevant part(s) of the Project	-
3.4	relevant Baseline Monitoring Reports	CEDD / ArchSD*	at least 1 month before the commencement of construction of the Project	-
4.2	set up a dedicated Internet website	CEDD / ArchSD*	at least 2 weeks before the commencement of construction of the Project	-
Submissions and/ or Measures to be Implemented before Commencement of Operation of the Project				
2.21	Measures to Mitigate Ecological Impacts on Butterfly Species of Conservation Interest	CEDD / ArchSD*	*no separate submission under EP is required*	-
2.22	Measures to Mitigate Noise Impacts during Operation of Helipad	ArchSD / HKPF / GFS	*no separate submission under EP is required*	-
2.23	Submission of Helicopter Flight Plan	ArchSD / HKPF / GFS	no later than 1 month before the commencement of operation of the Helipad	-
Construction Stage				
3.5	Monthly EM&A Report	CEDD / ArchSD*	monthly for construction stage	-

* CEDD for site formation and infrastructural works contract, ArchSD for building works contract

Figure No. 60534575/FIGURE A
Coverage Areas of EP No. EP-510/2016 and FEP no. FEP-01/510/2016



Landscape and Visual Mitigation Plan

Agreement CE 60/2016 (CE)
Site Formation and Infrastructural Works for
Police Facilities at Kong Nga Po
- Design and Construction

Revised Landscape and Visual Mitigation Plan

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1 INTRODUCTION

1.1 Project Background

1.1.1 Kong Nga Po in the North District is a rural area with very limited existing developments. Part of the Development Area fell within the then Frontier Closed Area, which was released in 2016. There are villages lying at the far north and east. The major vehicular access to the Development Area is a sub-standard rural track namely Kong Nga Po road leading from Man Kam To Road. The Development Area can also be accessed from the east through a local access road from Ping Che Road.

1.1.2 In 2010, a "Study on the Land Use Planning for the Closed Area" was completed and an area in Kong Nga Po with approximately 19ha in size was identified as a potential housing site for low density residential development upon its release from the Frontier Closed Area.

1.1.3 Subsequently, CEDD has commissioned a study under Agreement No. CE 16/2012 (CE) – "Engineering Feasibility Study for Kong Nga Po – Feasibility Study" to confirm the feasibility of the proposed residential development. The study was originally scheduled for completion in April 2014, but was decided not to proceed further in January 2014 because of reasons stated in paragraph 1.1.4 below.

1.1.4 One of the constraints to the proposed residential development is SULFR, which needs to be relocated because of its possible adverse environmental impacts on the development. However, owning to the difficulties encountered in identifying a suitable relocation site for SULFR, it is considered that instead of having residential development at the KNP site, an alternative option of having the SULFR retained in-situ and using the KNP site for co-locating various existing police facilities including LWFR, MTLFR, PD&TTF, WTF and a helipad, and a proposed PTF ("the alternative option") could be explored. The proposed layout satisfies the major site requirements provided by HKPF and GFS.

1.1.5 Preliminary feasibility assessments based on the preliminary layout have been conducted by CEDD taking into account the site constraints and the operation requirements of the various police facilities and the helipad. The findings of the preliminary feasibility assessments indicate that there should be no insurmountable technical issues on the alternative option, subject to the provision of necessary infrastructure, such as improvement of KNP Road to the standard of Transport Planning and Design Manual (TPDM), provision of drainage and sewerage facilities, and utility services, etc.

1.1.6 In the third quarter of 2014, the Ta Kwu Ling District Rural Committee (TKLDRC), the Sheung Shui District Rural Committee (SSDRC) and District Minor Works and Environmental Improvement Committee (DMW&EIC) of the North District Council (NDC) were consulted regarding the proposed co-location of police facilities in Kong Nga Po.

1.1.7 In December 2014, CEDD commissioned consultants to carry out the engineering feasibility study for the police facilities in KNP under Agreement no. CE 31/2014(CE). The objectives of the study were (i) to determine the environmental acceptability of co-locating police facilities in KNP site; (ii) to determine the scope of the necessary infrastructure to support the co-locating police facilities; and (iii) to study the geotechnical engineering aspects before the proposed co-location of existing police facilities in Kong Nga Po could proceed. The study has confirmed, among others, that the co-location of the police facilities at the KNP Site is environmentally acceptable and technically feasible with no insurmountable problems on the surrounding areas. Besides, the study has also recommended an indicative layout plan for various police facilities with a total gross floor area of about 35,000m2, a plot ratio of about 0.18 (based on gross site area) and a maximum building height of 5 storeys. The development parameters for the KNP development would be reviewed and subject to change at the detailed design stage.

1.1.8 The police facilities for co-location in the Development Area at Kong Nga Po mainly include:

a) Lo Wu Firing Range (LWFR) to be relocated from Lo Wu;

b) Ma Tso Lung Firing Range (MTLFR) to be relocated from Ma Tso Lung;

c) Weapons Training Facilities (WTF) to be relocated from Fan Garden;

d) Police Driving and Traffic Training Facilities (PD&TTF), including a multi-storey training complex, to be relocated from Fan garden;

e) Helipad to be relocated from Lo Wu; and

f) A Proposed Police Training Facility (PTF)

1.1.9 Assessments of various technical issues have been completed including the environmental impact assessment (EIA). The EIA and technical assessments on various aspects and including traffic, geotechnical, site formation, drainage, sewerage, water supply, and utilities carried out under the engineering feasibility study have demonstrated that the proposed co-location of police facilities in Kong Nga Po is environmentally acceptable and technically feasible with no insurmountable problem.

1.1.10 The Project consists of two Designated Project (DPs) under Part I, Schedule 2 of the EIAO namely (a) a helipad within 300m of existing or planned residential development (Item B.2, Part I, Schedule 2); and (b) an open firing range (Item O.5, Part I, Schedule 2). The EIA Report was approved under EIAO on 20 October 2016 and the Environmental Permit No. EP-510/2016 was issued to CEDD on 1 November 2016 for construction and operation of the designated project .

1.1.11 The SSDRC, TKLDRC and the DMW&EIC of the NDC were consulted on 14, 17 and 21 November 2016 respectively on the key findings of the engineering feasibility study.

1.2 The Project

1.2.1 On 26 January 2017, the Civil Engineering and Development Department (CEDD) commissioned AECOM Asia Co. Ltd. (AECOM) to undertake the Assignment of this Agreement No. CE 60/2016 (CE) – Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po –Design and Construction (the Project).

1.2.2 The Project generally consists of site formation & infrastructure works for the co-location of various police facilities at Kong Nga Po as well as upgrading works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road.

1.2.3 The scope of the Project mainly includes:

a. Earthworks, slopes works and retaining structures;

b. Underground stormwater storage tank and stormwater drainage system;

c. Temporary underground sewage storage tank and sewerage system;

d. Water supply system;

e. An internal access road network with underpass within the Development Area;

f. Other utilities and services;

g. Upgrading works to the section of existing Kong Nga Po Road between the Development Areas and Man Kam To Road including roadworks, viaduct, and associated works such as slopeworks, retaining walls and drainage works;

h. Landscaping works;

i. Environmental mitigation measures and monitoring & auditing; and

j. Other associated works

1.2.4 Upon completion of the site formation and infrastructure works by CEDD, the Development Area and the relevant completed works have been handover to ArchSD whom will be responsible for the building works and they will apply a Further Environmental Permit for their works. HKPF will be the end user of the police facilities and both HKPF and GFS will be the end users of the Helipad. The coverage of CEDD's Environmental Permit (no. EP-510/2016) and ArchSD's Further Environmental Permit (No. FEP-01/510/2016) is shown in **Figure No. 60534575/Figure A**.

1.2.5 The schematic layout of the major works elements is shown in **Figure No. 60534575/FIGURE 01**. The final scope of infrastructural works shall be ascertained under this Assignment in order to fully address the main objective of the Assignment, which is to enable the site formation works, the infrastructure works, the Kong Nga Po Road upgrading works and road / junction improvement works of the Project to be satisfactorily designed, constructed and commissioned in a cost-effective manner, on time and within budget and handover the relevant works, in phases, if necessary, to ArchSD for subsequent building works and the other works to relevant department / agents for maintenance and operation.

1.2.6 The assignment do not cover the building works, which shall be the responsibility of ArchSD covered under the Environmental Permit No. FEP-01/510/2016.

1.2.7 (Not Used)

1.3 Purpose of the Report

1.3.1 The scope of this Report provides landscaping and greening design for the Project. The landscape designs include planting proposal and hard landscape proposal.

1.3.2 The previous version of this Report (Revised Final Rev. 4) was approved by EPD on 27 October 2020. During the construction stage, it was found that some of the planting locations at Kong Nga Po Road were not suitable or unable to plant trees due to the following reasons:

- The soil consists of rocky material on which trees are not suitable to be planted;
- A portion of land, which was a planting area under this project, was allocated to DSD for their project and no planting works can be carried out; and
- Design review of fill slopes as required by GEO/CEDD that the filling material was changed from compacted fill into no-fines concrete to improve the slope stability

The updated information is shown in Appendix II – Landscape Design Plans and Section, Appendix III – Tree Planting Plan and Appendix IV – Shrubs Planting Plan. The update to the latest approved report is highlighted in green in the following sections and appendices.

1.3.3 On the other hand, the proposed climber was also found not suitable or unable for planting at the retaining wall/abutment. The originally proposed climbers for greening the retaining wall/abutment cannot be implemented due to site-specific constraints and limitations, including access conditions that do not support the establishment and maintenance of climbers, and implementation challenges as the surfaces of the retaining walls/abutments, combined with inadequate planting zones and irrigation systems, make it impractical to sustain vegetative growth. While alternative measures such as applying suitable colours or patterns to the wall facades and abutments have been explored, these options have been deemed unacceptable by the maintenance department due to concerns about long-term upkeep and compatibility with maintenance standards, further restricting feasible alternatives.

1.3.4 However, a review of the site context confirms that the existing landscape elements, including trees and vegetation, already contribute significantly to the overall greening effect and ensure effective visual screening of the retaining walls and abutments from nearby sensitive receivers. These existing trees and vegetation provide natural coverage, minimizing the visibility of the retaining walls/abutments, and their adequacy aligns with the objectives of mitigating visual impacts and maintaining the area's aesthetic quality. Based on these considerations, the resultant landscape and visual impacts are assessed as acceptable, and the retention and enhancement of existing trees and vegetation ensure that the overall greening objectives are met without requiring additional mitigation measures.

1.3.5 Given the site constraints, limitations, and the unsuitability of alternative measures, it is concluded that no additional greening measures can be reasonably implemented at the retaining wall/abutment. Nevertheless, the existing landscape features are adequate to achieve the required greening effect and effectively mitigate visual impacts, ensuring that the resultant effect meets the intent of the mitigation measures outlined in the approved EIA report.

1.3.6 Following this introductory section, the remainder of the Report is arranged as follows:

- Section 2 describes environmental legislations, standards and guidelines related to Landscaping and Greening Design;
- Section 3 presents the Landscape Design Objectives and Guidelines;
- Section 4 presents the Tree Preservation, Transplanting, Felling and Compensation Proposals;
- Section 5 presents the Landscape and Greening Design Proposals
- Section 6 proposes the Management and Maintenance Authorities for Landscape Works; and
- Section 7 summarizes the Findings and recommends the Way Forwards of the Project.

2 LEGISLATIONS, STANDARDS AND GUIDLEINES

2.1 Government Publications, Guidelines and Reports

2.1.1 Government Publications, Guidelines and Reports related to Landscape Design include:

- Agriculture, Fisheries and Conservation Department – AFCD Nature Conservation Practice Note No. 1 – Clearing Mikania.
- Agriculture, Fisheries and Conservation Department – AFCD Nature Conservation Practice Note No. 2 – Measurement of Diameter at Breast Height (DBH).
- Agriculture, Fisheries and Conservation Department – AFCD Nature Conservation Practice Note No. 3 – The Use of Plant Names.
- Civil Engineering and Development Department (2006) – General Specifications for Civil Engineering Works, Sections 3 and 26.
- Civil Engineering and Development Department (2008) – Chapter 1 and 4 of Project Administration Handbook for Civil Engineering Works, 2016 Edition (PAH) of the Government of the Hong Kong Special Administrative Region.
- Development Bureau – Latest Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis.
- GEO Publication (2000) – Highway Slope Manual, Chapters 6 and 8.
- GEO Publication No. 1/2011 – Technical Guidelines on Landscape Treatment for Slopes
- GEO Technical Guidance Note No. 20 – Updating of GEO Publication No. 1/2000.
- GEO Report No. 56 (1999) – Application of Prescriptive Measures to Slopes and Retaining Walls, 2nd Edition.
- GEO Report No. 116 (2001) – Review of Effective Methods of Integrating Man made Slopes and Retaining Walls (Particularly for Roadside Slopes) into Their Surroundings.
- GEO Report No. 136 (2003) – Guidelines on Safe Access for Slope Maintenance.
- GEO Report No. 183 (2006) – Performance Assessment of Greening Techniques on Slopes.
- GEO Report No. 248 (2009) – Planting Trial at Yuen Tun and Performance Assessment of Vegetation Species on 44 Man-Made Slopes.
- GEO Special Project Report No. SPR 7/2004 (2004) – Identification of Suitable Vegetation Species for Use on Man-made Slopes.
- Highways Department (2006) – Structures Design Manual for Highways and Railways, Third Edition, Chapter 17 – Aesthetics.
- Input Guideline – HyD Slope Vegetation (SVI) Records.
- HyD Standard Drawings, Sections 5 and 6.
- HyD TC No. 10/2001 – Visibility of Directional Signs.
- HyD TC No. 2/2010 – Control in the Use of Shotcrete (Sprayed Concrete) in Slope Works.
- HyD HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit.
- HyD HQ/GN/15 – Guidelines for Greening Works along Highways.
- HyD Requirements for Handover of Vegetation to Highways Department.
- Lands Department, Lands Administration Office Instructions (LAOI) Section D-12 – Tree Preservation.
- Planning Department – Hong Kong Planning Standard and Guideline.
- Transport Department – Transport Planning & Design Manual (TPDM).
- General Standards and Maintenance Requirements for Roadside Landscape Works to be Handed Over to LCSD for Maintenance.

2.2 Technical Circulars

2.2.1 Technical Circulars related to Landscape Design include:

- DEVB TCW No. 5/2017– Community Involvement in Planting Works.
- ETWB TCW No. 6/2015 – Maintenance of Vegetation and Hard Landscape Features.
- DEVB TCW No. 05/2020 – Registration of Old and Valuable Trees, and Guidelines for their Preservation.
- ETWB TCW No. 36/2004 – The Advisory Committee on the Appearance of Bridges and Associated Structures (ACABAS).
- DEVB TCW No. 1/2018 – Soft Landscape Provisions for Highway Structures.
- WBTC No. 25/93 – Control of Visual Impact of Slopes.
- WBTC No. 17/2000 – Improvement to the Appearance of Slopes in connection with WBTC 23/93.
- DEVB TCW No. 3/2012 - Site Coverage of Greenery for Government Building Projects.
- DEVB TCW No. 3/2024 - Allocation of Space for Quality Greening on Roads.
- DEVB TC (W) No. 4/2020 – Tree Preservation.
- Guidelines on Tree Transplanting issued by GLTM Section of DevB.
- Proper Planting Practices and other relevant guidelines issued by GLTM Section of DevB.
- RD/GN/044C – Guidance Notes on Design and Construction of Pavements with Paving Units.

2.3 Ordinances and Regulations

2.3.1 Ordinances and Regulations related to Landscape Design include:

- Forests and Countryside Ordinance (Cap. 96) and its subsidiary legislations
- Plant Varieties Protection Ordinance (Cap. 490)
- Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586)
- Environmental Impact Assessment Ordinance (Cap. 499)
- Town Planning Ordinance (Cap. 131)

3 LANDSCAPE DESIGN OBJECTIVES AND GUIDELINES

3.1 Landscape Design Objectives

3.1.1 Landscaping and Greening Design Objectives for Site Formation and Infrastructure Works for the Police Facilities in Kong Nga Po include the following:

- To provide measures to mitigate the potential landscape and visual impact of the project during the construction and operation phase of the project (Please refer to Appendix IX for the approved plans extracted from EIA Report preparing in 2016 showing the below relevant mitigation measures) :-

- **Table 3.1 Construction Phase Mitigation Measures (For details, please refer to Table 3.1a under Appendix V)**

ID No.	Construction Phase Mitigation Measures	Implementation Department
CM01	Tree protection and preservation	CEDD/ArchSD
CM02	Tree transplantation	CEDD
CM03	Work area and temporary works area	CEDD/ArchSD
CM04	Advance implementation of mitigation planting	CEDD/ArchSD
CM05	Decorative screen hoarding	CEDD/ArchSD

- **Table 3.2 Operation Phase Mitigation Measures (For details, please refer to Table 3.2a under Appendix V)**

ID No.	Operation Phase Mitigation Measures	Implementation Department
OM01	Detail design considerations	CEDD (along KNP Road where applicable and slopes within KNP Police Facilitate Site) / ArchSD (within KNP Police Facilitate Site)
OM02	Aesthetically pleasing design and responsive design of buildings and structures	ArchSD
OM03	Design of engineering structure	CEDD
OM04	Design of retaining walls and slopes	CEDD
OM05	Compensatory planting proposal	CEDD
OM06	Landscape buffer tree planting	CEDD (along KNP Road where applicable and slopes within KNP Police Facilitate Site) / ArchSD (within KNP Police Facilitate Site)
OM07	Roadside and amenity planting (within KNP Police Facilitate Site)	ArchSD
OM08	Grassland (ecological mitigation)	CEDD (along KNP Road where applicable and slopes within KNP Police Facilitate Site) / ArchSD (within KNP Police Facilitate Site)
OM09	Green roof (within KNP Police Facilitate Site)	ArchSD
OM10	Vertical greening	CEDD (along KNP Road where applicable) / ArchSD (within KNP Police Facilitate Site)
OM11	Green paving (within KNP Police Facilitate Site)	ArchSD
OM12	Light control (operation)	HKPF (within Project Site) / HyD (along KNP Road)

- To beautify the proposed site formation and infrastructure works and to integrate the proposed works with the adjacent hard and soft landscape settings within the project boundary; and

- To minimize the impact on existing trees and provide tree transplanting and compensatory planting proposals in accordance with DEVB TC(W) No. 7/2015.

3.2 Design Guidelines for Hard and Soft landscape Works

3.2.1 Proposed Hard Landscape Works shall be selected using the following guidelines:

- Durable – utilizing long lasting or permanent materials and finishes.

- Low maintenance – easy to clean and repair.

- Reasonable Cost – reasonable cost range providing the greatest value for expense.

- Visual compatibility with existing developments and blend with existing development.

- Recyclable and Environmental Friendly Materials – utilizing recyclable and environmental friendly materials where possible.

3.2.2 Proposed Soft Landscape Works shall be selected using the following guidelines:

- Adaptive – able to relatively quickly provide the desired landscape design intent as appropriate to the area.

- Wind tolerance – able to withstand windy conditions at exposed areas.

- Seasonal interest – providing seasonal variety or seasonal flowers, fruit or foliage colour.

- Low maintenance and self-sustainability – easy to grow without special treatments or maintenance operations.

- Non-toxic – relatively safe and non-poisonous materials and/or biodegradable.

- Poisonous plants should not be planted at areas accessible to public.

4 TREE SURVEY RESULTS

4.1 Summary

4.1.1 The engineering layout has been designed to minimize the impact on existing trees based on the tree survey conducted in early 2017. Any trees surveyed which are in conflict with the proposed works are proposed to be transplanted or felled. Detailed tree survey result, tree treatment and justification have been detailed under separated submission of Tree Removal and Preservation Proposal.

4.1.2 No registered OVT is identified within the Project Boundary. All the species identified are exotic species commonly used for engineering scheme and common Hong Kong native species. They are generally in poor to fair form, poor to fair health and low to medium amenity value. Dominant species include *Acacia auriculiformis*, *Acacia confusa*, *Acacia mangium, Bauhinia purpurea, Celtis sinensis, Cinnamomum camphora, Casuarina equisetifolia, Ficus benjamina, Ficus hispida, Leucaena leucocephala, Macaranga tanarius* var *tomentosa, Rhus succedanea, Pinus elliottii, Senna siamea, Tetradium glabrifolium, Lophostemon confertus.*

4.1.3 Two species of conservation concern, namely *Aquilaria Sinensis* and *Keteleeria fortunei* have been surveyed. The road layout had been revised as required in Environmental Permit No. EP-510/2016 and accepted by relevant authorities to avoid affecting the trees mentioned above and therefore the species with conservation concern will be retained.

4.1.4 Tree compensatory planting is proposed under separated Tree Removal and Preservation Proposal with detailed information available from the Tree Survey in accordance with DEVB TC/W No. 7/2015.

4.1.5 Retained Trees that are not affected by proposed works will be preserved in-situ. During construction period, retained trees will be protected from impact from construction activity as per General Specification for Civil Engineering Works (2006 Edition), Section 26 – Preservation and Protection of Trees and Guidelines on Tree Preservation during Development.

4.1.6 Among the trees affected by proposed works, 3 *Aquilaria sinensis* are required to be transplanted to avoid being affected by proposed Kong Nga Po road upgrading works and site formation works. Tree Transplanting Works shall be carried out in accordance with Guidelines on Tree Transplanting issued by GLTM Section of DevB.

4.1.7 Summary of tree survey and treatment are summarized in the table below:-

Table 4.1 Summary of Tree Survey and Treatment Recommendation

Trees surveyed	Trees to be retained	Trees to be transplanted	Living Trees to be felled	Dead Trees to be felled
6,856	2,418	3	4,069	366
		Total Tree to be Felled	4,435 (under which approx. 2,544 due to slope works)	

4.1.8 It is affirmed that a large number of existing trees within site will be affected by the Project. Implementation of compensatory planting in a ratio not less than 1:1 in terms of quality and quantity within the site, i.e. the number of compensatory tree not lower

than that the number of trees felled, including dead tree and trees of undesirable species have been provided in accordance with DEVB TCW No. 4/2020 – Tree Preservation.

4.1.9 Compensatory tree planting are generally be of heavy standard size with trunk diameter at breast height (DBH) of a minimum 75mm, and whips planting along slope area.

4.1.10 Sufficient space have been provided for the planting of compensatory trees taking into the account the adequate space required to cater for the establishment and healthy growth of the trees up to maturity.

4.1.11 Summary of on-site compensatory and tree transplanting proposed for the Project is summarized in below:-

Summary of Compensatory Trees

	No. of Tree
Light/Heavy Standard trees	217
Whips planting	7,345
TOTAL	7,562

Summary of Transplanted Trees

	No. of Tree
Tree Transplanting	3

5 LANDSCAPE DESIGN

5.1 Introduction

5.1.1 Based on the available space for the provision of landscape works, landscape design has been proposed for 1) the proposed Kong Nga Po Road improvement works, 2) the site formation and infrastructure works within the Kong Nga Po Development Area and 3) the building works within the Kong Nga Po Development Area (to be implemented by ArchSD). The landscape design is illustrated in Appendix II – Landscape Design Plans and Section, Appendix III – Tree Planting Plan (Heavy/Light Standard Trees and Transplanted Trees) and Appendix IV – Shrubs Planting Plan (with Existing and Proposed Slope Boundary Overlaid). The implementation programme for the landscape works is also illustrated in Appendix VI - Implementation Programme of the proposed landscaping works.

5.2 Greening Design Proposal for the Proposed Kong Nga Po Road Improvement Works

5.2.1 Roadside and Amenity Planting

Having considered various factors including environmental impact and cost effectiveness, allocation of greening zones on roads with reference to DEVB TC(W) No. 3/2024 is not proposed on the improved Kong Nga Po Road for the following reasons:-

(a) Reserving such greening zones as planting space will increase total width of the future road which will lead to a substantial amount of site formation works on the existing roadside slopes where density of tree is high. The construction will unavoidably induce additional earthworks, waste, more massive retaining structures and tree felling works which are undesirable from environmental impact point of view;

(b) Having reviewed the approved EIA report, minimizing total width of the future Kong Nga Po Road was also one of the key requirements/considerations to minimize the adverse environmental impact. Taking this into consideration, allocation of at-grade planting strip at the future footpath is not recommended in order not to increase the total road width;

(c) Having reviewed the site context, the existing landscape elements, including trees and vegetation, already contribute significantly to the overall greening effect and ensure effective visual screening of the retaining walls and abutments from nearby sensitive receivers. These existing trees and vegetation provide natural coverage, minimizing the visibility of the retaining walls/abutments, and their adequacy aligns with the objectives of mitigating visual impacts and maintaining the area's aesthetic quality. In addition, tree/shurb planting is proposed at the reinstated area behind the retaining walls/abutment which, coupled with the existing trees, can provide a greening effect adjacent to the improved Kong Nga Po Road. Hence, the guideline in DEVB TC (W) No. 3/2024 on “Allocation of Space for Quality Greening on Roads” is observed with the current design.

In accordance with DEVB TC (W) no 2/2013, greening on new footbridges and flyovers is only required for built-up areas such as metro areas and new town areas in Hong Kong. Since the proposed viaduct in the Project is not located within the built-up areas, therefore, greening on the viaduct is not mandatory. Besides, addition of planters along the viaduct would limits the space for the woodland compensatory planting under the viaducts and produce no significant beneficial greening effect for the area, therefore, greening on the viaduct is not recommended (refer to Figure Nos. 10-57 at the approved EIA report).

Above discussions and recommendations had been incorporated in relevant submissions and working paper (e.g. ACABAS submission and Application for Exemption of Allocation of Space for Quality Greening on Roads) and submitted to relevant parties with no objection received (to be updated). The record of no objection for the above submissions can refer to Appendix VII – Record of No Comments from the Authorities on Relevant Submissions.

5.2.2 Compensatory Planting and Landscape Buffer Tree Planting

Woodland compensation is proposed for the Project. Approximate 105 nos. of light/heavy standard trees and 600 nos. of whips sized trees will be planted on man-made slopes and natural terrain along the improved Kong Nga Po Road. The planting proposal will utilize native species in accordance with GLTM/DEVB Guiding Principles on Use Native Plant Species in Public Works Projects. Shrubs and ground cover planting will also be provided within the compensatory woodland area to create a more structurally diverse woodland. Planting species shall refer to Indicative Planting Schedule at **Table 5.1**.

5.3 Greening Design Proposal for Site Formation and Infrastructure Works within the Kong Nga Po Development Area

5.3.1 Compensatory Tree Planting and Landscape Buffer Tree Planting

Woodland compensation is proposed within the Kong Nga Po Development Area. Approximate 112 nos. of light/heavy standard trees and 6,745 nos. of whips sized trees will be planted on man-made slopes and natural terrain within the site. The planting proposal will utilize native species in accordance with GLTM/DEVB Guiding Principles on Use Native Plant Species in Public Works Projects. Shrubs and ground cover planting will also be provided within the compensatory woodland area to create a more structurally diverse woodland. Planting species shall refer to Indicative Planting Schedule at **Table 5.1**.

For woodland area where requires screening effect, a combination of large sized trees (include heavy standard trees) and whips sized trees will be adopted to create a more naturalistic effect and screen views of the proposed structures and associate facilities.

Subject to further liaison with ArchSD, the above tree planting within the Kong Nga Po Development Area is designed by CEDD and incorporated this report and may be carried out in the Building Works Contract in order not to form a physical constraints on site during the construction of the building works.

5.4 Other Greening Design to be designed and constructed in the Building Works Contract by ArchSD

5.4.1 Compensatory Tree Planting and Landscape Buffer Tree Planting

Beyond compensation of tree felling, trees shall be planted as landscape buffer planting and roadside and amenity trees within the KNP Police Facilitate Site. Native species shall be selected.

5.4.2 Grassland

New grassland areas will be created at north-most platform area of the Police Facilities Site. Common grass species *Ischaemum barbatum* and *Tetradium glabrifolium* will be planted as larval food plants for butterfly species. The detailed design and plantation of above mentioned grassland area within the Police Facilities Site shall be designed and constructed by ArchSD.

5.4.3 Vertical Greening

Vertical greening will be designed and provided under the ArchSD's building works contract to soften the hard and vertical surface of the proposed engineering structure such as retaining walls and buildings. Native species will be adopted.

5.4.4 Other Greening Measures

Green roof and green paving shall be provided under building works contract where technically feasible to maximize the area for green coverage and to reduce the hard concrete surface. The green paving approach such as green-crete or grass-grid may be adopted subject to building works contract design. Should the grass-crete/grass-grid is not practicable, the use of permeable paving should be considered.

In addition, others greening design such as landscape buffer tree planting, creation of grassland (on platform at the North of the Project Site) and vertical greening will also be provided within the areas demarcated for Building Works Contract. Detailed design for these greening measures will be provided under the Building Works Contract, implemented by ArchSD.

5.5 Hard Landscape Materials

5.5.1 Block paving will be proposed for the pavement along Kong Nga Po Road and the associate junctions as appropriated. Paving design should be cost effective and low-maintenance and the paving pattern design shall be aligned with HyD Standard Drawings Section 5: Landscape Hard Works and HyD Guidance Notes RD/GN/044C.

5.5.2 Textured formwork liner will be proposed to create a random stone pattern for the proposed retaining walls besides being covered by climbers and screened landscape buffer tree planting. A warm earth tone colour will also be proposed for the retaining walls. GMS hand railing shall be provided at the top of the retaining wall where is accessible by pedestrians. Detailed landscape treatment of the retaining wall please refer to **Appendix II**.

5.5.3 Textured formwork liner will be proposed to create a random stone pattern for the abutment of the proposed viaduct at Kong Nga Po Road whilst the viaduct will be screened by the adjacent woodland planting and compensatory tree planting under the viaduct.

5.5.4 Since the available space at the both sides of the Kong Nga Po Roads for greening and streetscape design is limited, no street furniture will be proposed, except those which are necessary for traffic and safety purposes, such as signage, lamp post and railing, which relevant standard details will be adopted and further developed in the detailed design stage.

5.5.5 Irrigation points will be provided along the Kong Nga Po Road. However, no irrigation point will be provided in the non-platform area within the Project Main Site, where woodland planting is anticipated to be self-sustainable in long run. Irrigation points within the platform area will be implemented under the Building Works Contract (by ArchSD).

5.5.6 The design of street lighting shall comply with the Public Lighting Design Manual 3rd Edition issued by HyD, which will be further designed in the detailed design phase and will be covered in the detailed design report under separate submission.

5.6 Soft Landscape Materials

5.6.1 Detailed landscape plan of trees and shrubs please refer to **Appendix III** and **Appendix IV**.

5.6.2 An indicative planting schedule for the landscape and greening design is shown in **Table 5.1**.

Table 5.1 Indicative Planting Schedule

Species	Chinese Name	Spacing	Size
Trees			
Koelreuteria bipinnata	複羽葉欒樹	5000	Heavy Standard
*Celtis sinensis**	朴樹	5000	Heavy Standard
Bauhinia variegata	宮粉洋蹄甲	5000	Heavy Standard
Crateva unilocularis	樹頭菜	5000	Heavy Standard
*Cinnamomum burmannii**	陰香	5000	Heavy Standard
Lagerstroemia speciosa	大葉紫薇	5000	Heavy Standard
*Liquidambar formosana**	楓香	5000	Heavy Standard
Michelia x alba	白蘭	5000	Heavy Standard
*Viburnum odoratissimum**	珊瑚樹	3000	Light Standard
Woodland Mix Planting Tree Whips			
Woodland Mix Planting WMP1			
*Bridelia tomentosa**	土密樹	2000	whip tree
*Phyllanthus emblica **	餘甘子	2000	whip tree
*Ficus hispida**	對葉榕	2000	whip tree
*Polyspora axillaris**	大頭茶	2000	whip tree
*Rhus succedanea**	野漆	2000	whip tree
*Rhododendron simsii**	紅杜鵑	500	400 height x 400 spread
*Melastoma sanguineum**	毛菝	500	400 height x 400 spread
*Rhodomyrtus tomentosa**	桃金娘/崗棯	500	400 height x 400 spread
*Psychotria asiatica**	九節	500	400 height x 400 spread
Woodland Mix Planting WMP2			
*Machilus breviflora**	短序潤楠	2000	whip tree
*Polyspora axillaris**	大頭茶	2000	whip tree
*Reevesia thyrsoidea**	梭羅樹	2000	whip tree
*Viburnum odoratissimum**	珊瑚樹	2000	whip tree
*Cratoxylum cochinchinense**	黃牛木	2000	whip tree
*Polyspora axillaris**	大頭茶	500	400 height x 400 spread
Ligustrum sinense	山指甲	500	400 height x 400 spread
*Gardenia jasminoides**	梔子	500	400 height x 400 spread
*Rhaphiolepis indica**	石班木	500	400 height x 400 spread
Shrubs Mix Planting			
Shrubs Mix Planting SMP1#			
*Rhododendron simsii**	紅杜鵑	500	400 height x 400 spread
*Melastoma sanguineum**	毛菝	500	400 height x 400 spread
*Rhodomyrtus tomentosa**	桃金娘/崗棯	500	400 height x 400 spread
*Psychotria asiatica**	九節	500	400 height x 400 spread
Shrubs Mix Planting SMP2#			
*Polyspora axillaris**	大頭茶	500	400 height x 400 spread
Ligustrum sinense	山指甲	500	400 height x 400 spread
*Gardenia jasminoides**	梔子	500	400 height x 400 spread
*Rhaphiolepis indica**	石班木	500	400 height x 400 spread
Shrubs Mix Planting SMP3#			
*Ixora chinensis**	龍船花	500	450 height x 300 spread
*Rhododendron simsii**	紅杜鵑	500	250 height x 200 spread
*Native species #plant each species in groups of 10-20 in random. Plant all species in staggered pattern.			

6 MANAGEMENT AND MAINTENANCE OF LANDSCAPE WORKS

6.1 Maintenance Authorities of Landscape Works

The landscape design proposals has been carefully considered and taken into the requirements from stipulated from relevant Management and Maintenance Authorities. Landscape Management and Maintenance Authorities for landscape works are identified in accordance with ETWB TCW No. 6/2015 - Maintenance of Vegetation and Hard Landscape Features and tabled in **Table 6.1**. **Table 6.2** summarized demarcation of the responsibility of design stage, construction stage and maintenance period. The record of no objection from Management and Maintenance Authorities can refer to Appendix VIII – Record of No Comments from the Management and Maintenance Authorities

Table 6.1 Management and Maintenance Authorities of Landscape Works

Landscape Areas	Management Department	Maintenance Department
Landscape Works along the Improvement Works along improved Kong Nga Po Road		
Hard Landscape Works		
Paving	NTE/HyD	NTE/HyD
Slopes	NTE/HyD	NTE/HyD
Retaining Walls	NTE/HyD	NTE/HyD
Soft Landscape Works		
SIMAR slopes	respective SIMAR slope owner	
Roadside Amenity Planting	LCSD	LCSD
Landscape Works within the Kong Nga Po Development Area		
Hard Landscape Works		
Paving	HKPF	HKPF's Agent
Slopes	HKPF	HKPF's Agent
Retaining Walls	HKPF	HKPF's Agent
Soft Landscape Works		
SIMAR slopes	HKPF	HKPF's Agent
Roadside Amenity Planting	HKPF	HKPF's Agent
Within platform area (within allocated government land)	HKPF	HKPF's Agent
Within undisturbed area (within allocated government land)	HKPF	HKPF's Agent
Retaining wall and associated soft landscape (within allocated government land)	HKPF	HKPF's Agent

Table 6.2 Responsible Authorities of Soft Landscape Works

Location	Landscape Features	(1) Responsible for Design and relevant Submission	(2) Responsible for Planting in Construction Stage	(3) Responsible for Maintenance
KNP Road	Tree	CEDD	CEDD	HyD/LCSD/SIMIAR SLOPE OWNER
	Shrub			
	Hydroseeding			
KNP Police Facilities (Slope and adjacent bare ground)	Tree	CEDD	ArchSD	HKPF's Agent
	Shrub	CEDD	ArchSD	HKPF's Agent
	Hydroseeding	CEDD	CEDD	HKPF's Agent
KNP Police Facilities (training ground)	Tree	ArchSD	ArchSD	HKPF's Agent
	Shrub			
	Hydroseeding			

SUMMARY AND WAY FORWARD

7.1 Conclusion

7.1.1 According to the conducted tree survey and latest engineering design, there are approximately 4,435 nos. of trees is recommended to be fell due to the project, under which approximately 366 nos. of dead trees recommended to be removed. Compensatory tree planting of whip size trees and light/heavy standard size trees have been proposed within the Project Boundary along upgraded KNP Road, including proposed slopes, and around the police facilities site as woodland compensatory tree planting as well as buffer landscape planting with whip size trees and heavy/light standard size trees according to the approved EIA Report and in accordance with DEVB TC/W no. 7/2015 and the compensatory ratio has fulfilled the ratio of 1:1.

7.1.2 Tree compensatory planting is proposed separately in accordance with the approved EIA Report and DEVB TC/W no. 4/2020. There are 7,562 nos. of compensatory whip size trees and light/heavy standard size trees proposed on proposed landscaping areas i.e. flat landscape area along upgraded Kong Nga Po Road and proposed slopes equal or less than 35 degree.

Table 7.1 Compensatory Tree Summary

Location	**Along Upgraded KNP Road (approx.)**			**Within KNP Police Facilities (approx.)**
Department responsible for the maintenance of vegetation	**HyD**	**LCSD**	**LandsD**	**HKPF**
No. of Heavy Standard Trees to be compensated	0	98	0	112
No. of Light Standard Trees to be compensated	7	0	0	0
No. of Whip Trees to be planted within Woodland Mix Planting Area	600 (~2,000m^2 Woodland Mix Planting Area)	0	0	6,745 (~22,500 m^2 Woodland Mix Planting Area)
Sub-total	705			6,857
Total	**7,562**			

Table 7.2 Compensatory Tree Summary Maintained by LCSD

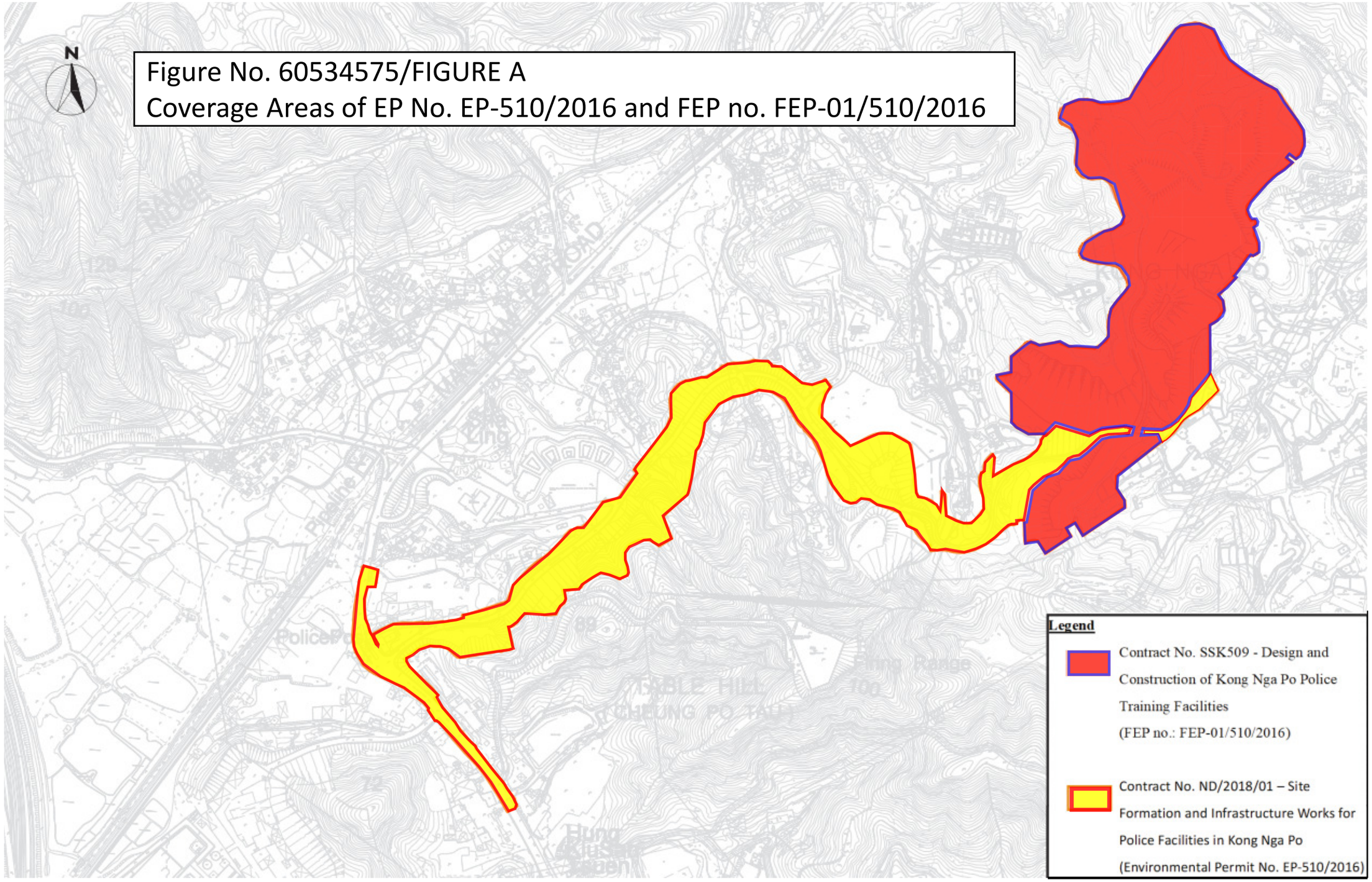
Code	Botanical Name	Chinese Name	Size (mm)	Spacing (mm)	Quantity
Trees					
KOBI	Koelreuteria bipinnata	複羽葉欒樹	Heavy Standard	5000	8
CESI	Celtis sinensis*	朴樹	Heavy Standard	5000	5
BAVA	Bauhinia variegata	宮粉洋蹄甲	Heavy Standard	5000	24
CRAT	Crateva unilocularis	樹頭菜	Heavy Standard	5000	3
CIBU	Cinnamomum burmannii*	陰香	Heavy Standard	5000	2
LASP	Lagerstroemia speciosa	大葉紫薇	Heavy Standard	5000	37
LIFO	Liquidambar formosana*	楓香	Heavy Standard	5000	14
MICH	Michelia x alba	白蘭	Heavy Standard	5000	5
TOTAL					98

7.1.3 According to the proposal as presented above, there is **7,562** nos. of compensatory heavy standard, light standard and whip trees to be planted within the project boundary. The above proposal has incorporated the latest site formation layout for the purpose of retention of 2 existing graves in close proximity to the future KNP Police Facilities site.

7.1.4 Other than tree compensatory planting, shrubs and ground cover planting will also be provided within the compensatory woodland area along KNP Road, including proposed slopes, and police facilities site in accordance with the approved EIA Report. Native species will be adopted.

7.1.5 The designed landscaping works presented in this Report along KNP road and around police facilities site will be implemented separately under CEDD's site formation works project and ArchSD's building works project respectively. On the other hand, landscaping works within the platform of police facilities will be designed and implemented under ArchSD's building works project.

Figure No. 60534575/FIGURE A
Coverage Areas of EP No. EP-510/2016 and FEP no. FEP-01/510/2016



LEGEND:

KONG NGA PO SITE BOUNDARY

831000 E

831400 E

831800 E

843400 N

843000 N

842600 N

N

KONG NGA PO

HUNG LUNG HANG

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

Plot File by: VWngSan.Chan@aecom.com 02-July-2019

PATH: pw:\\aecom-asia-pw.bentley.com:AECOM_DS02_AS\Documents\60534575 KNPPF - F&I WORKS\CAD PRODUCTION\DRAWING\CONTRACT\C1\1000\C1_1000.dgn

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PROJECT 項目

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - 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

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

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

STATUS 階段

SCALE 比例 A1 1 : 2500

DIMENSION UNIT 尺寸單位

KEY PLAN 索引圖

PROJECT NO. 項目編號 60534575

CONTRACT NO. 合約編號 CE 60/2016 (CE)

SHEET TITLE 圖紙名稱

GENERAL LAYOUT OF THE SITE

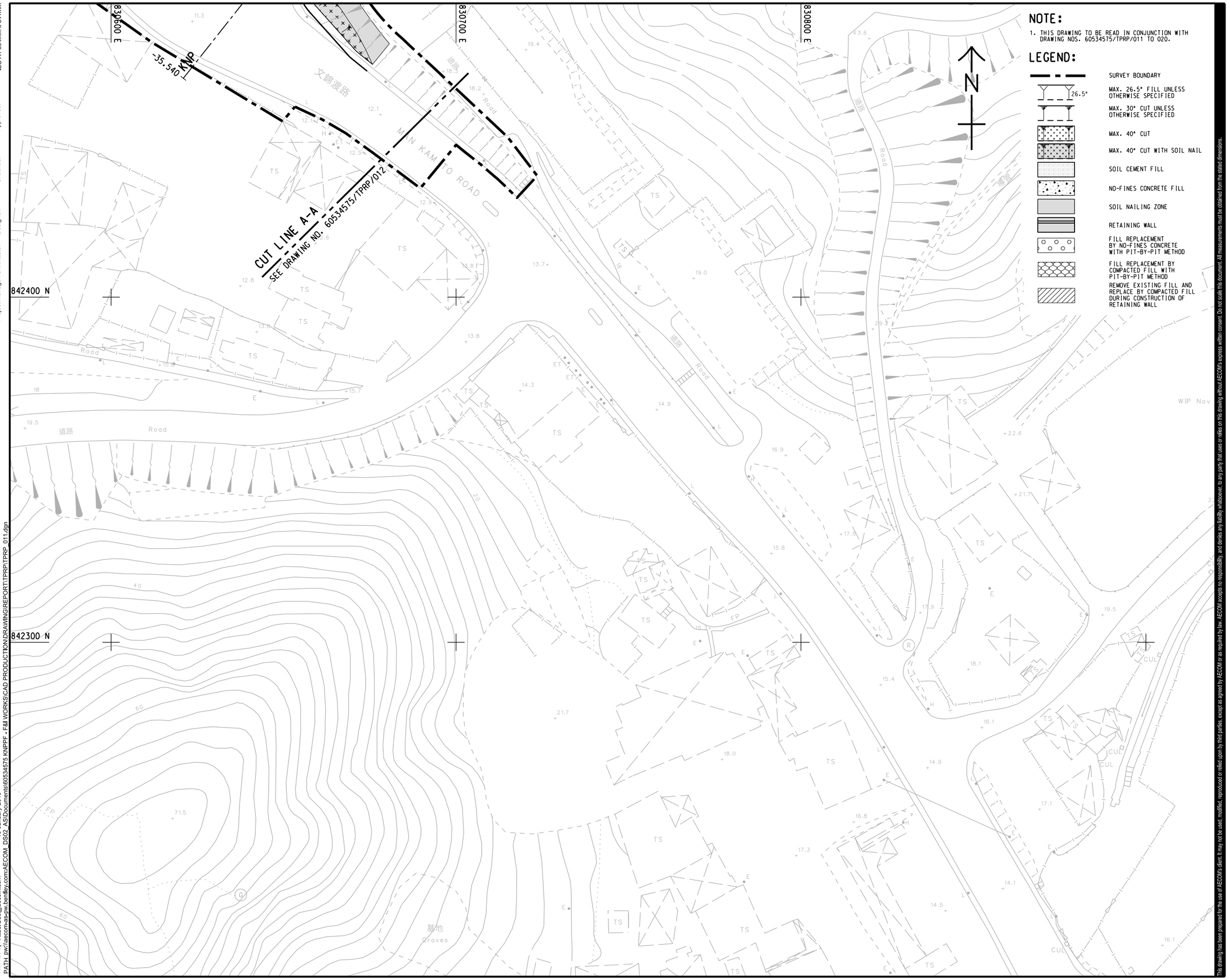
SHEET NUMBER 圖紙編號

60534575/FIGURE01

Appendix I

General Layout of the Project

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



NOTE:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/011 TO 020.

LEGEND:

- SURVEY BOUNDARY
- MAX. 26.5° FILL UNLESS OTHERWISE SPECIFIED
- MAX. 30° CUT UNLESS OTHERWISE SPECIFIED
- MAX. 40° CUT
- MAX. 40° CUT WITH SOIL NAIL
- SOIL CEMENT FILL
- NO-FINES CONCRETE FILL
- SOIL NAILING ZONE
- RETAINING WALL
- FILL REPLACEMENT BY NO-FINES CONCRETE WITH PIT-BY-PIT METHOD
- FILL REPLACEMENT BY COMPACTED FILL WITH PIT-BY-PIT METHOD
- REMOVE EXISTING FILL AND REPLACE BY COMPACTED FILL DURING CONSTRUCTION OF RETAINING WALL

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PROJECT 項目

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

CLIENT 業主

土木工程拓展署
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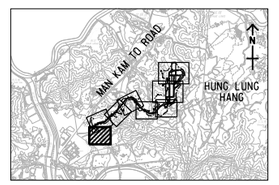
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS 階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
GENERAL LAYOUT

SHEET 1 OF 10

SHEET NUMBER 圖紙編號
60534575/TPRP/011

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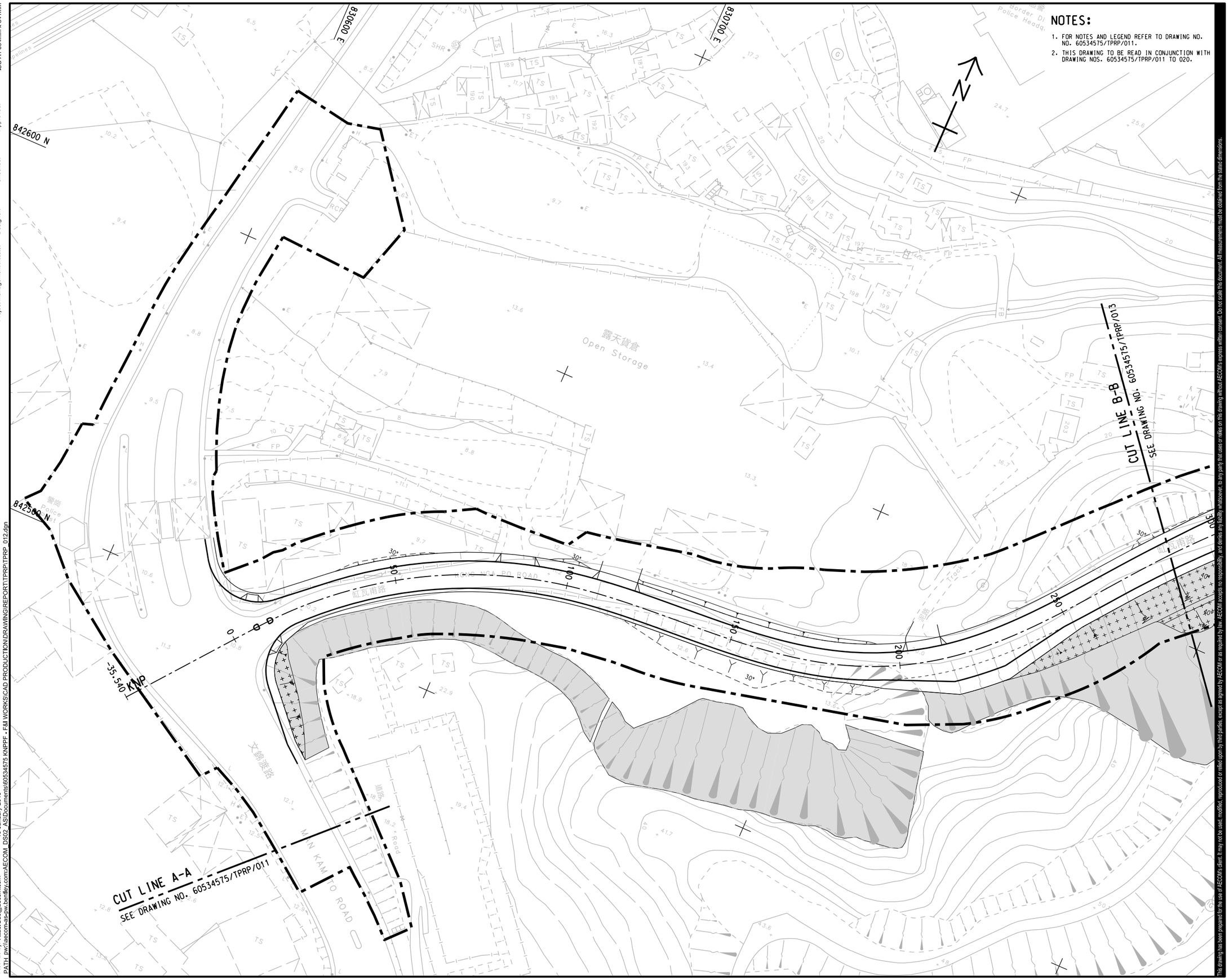

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PROJECT 項目

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

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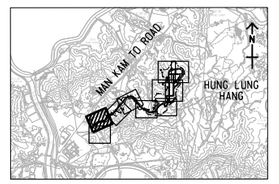
SCALE 比例 A1 1 : 500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號 60534575

CONTRACT NO. 合約編號 CE 60/2016 (CE)

SHEET TITLE 圖紙名稱

GENERAL LAYOUT

SHEET 2 OF 10

SHEET NUMBER 圖紙編號

60534575/TPRP/012

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

NOTES:

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CUT LINE B-B SEE DRAWING NO. 60534575/TPRP/012

CUT LINE C-C SEE DRAWING NO. 60534575/TPRP/014

839000 E

831000 E

842600 N

Police Dog Unit And Force Search Unit Training School 警犬隊總部暨警察搜查隊訓練學校

KONG NGA PO ROAD 缸瓦甫路

B-B

C-C

300 350 400 450 500 550 600

30° 26.5°

N

ESS

TS FP CUL

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PROJECT 項目

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SCALE 比例
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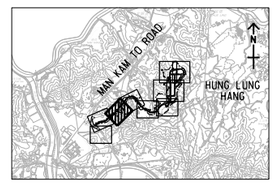
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
GENERAL LAYOUT

SHEET 3 OF 10

SHEET NUMBER 圖紙編號
60534575/TPRP/013

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

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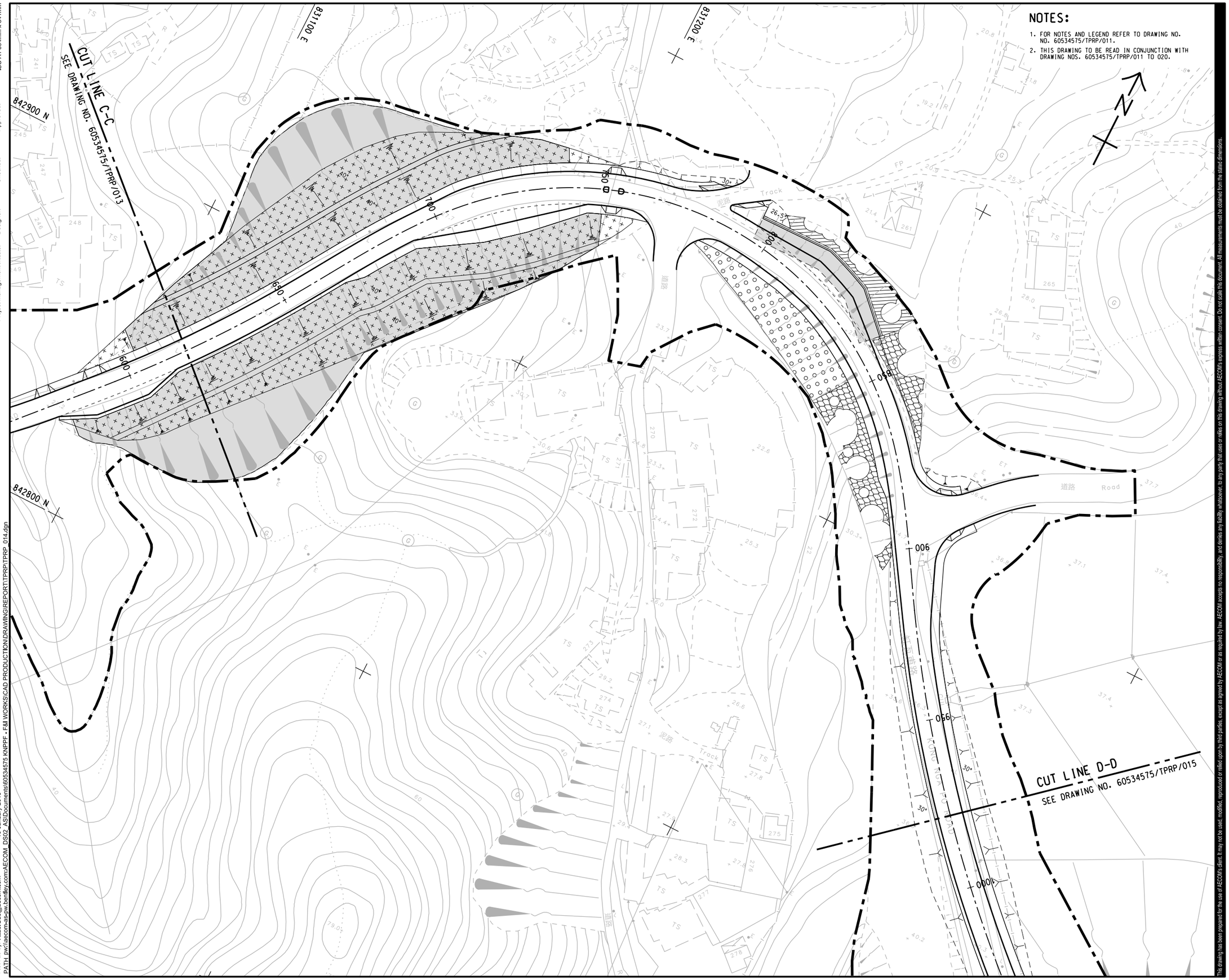

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SCALE 比例
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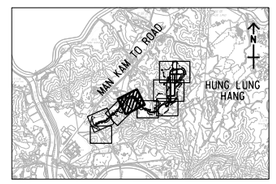
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
GENERAL LAYOUT

SHEET 4 OF 10

SHEET NUMBER 圖紙編號
60534575/TPRP/014

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Project Management Initials: Designer: Checked: Approved:
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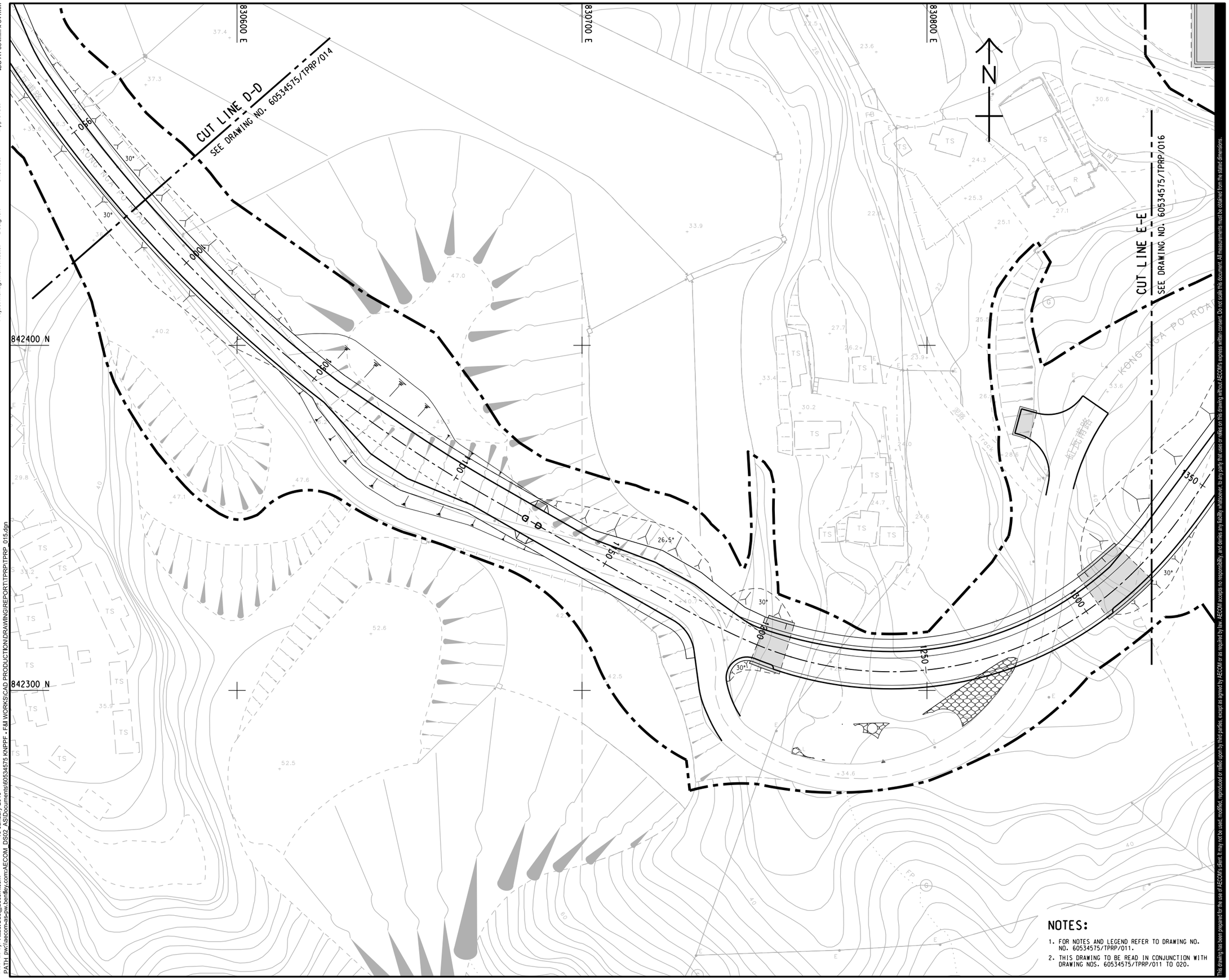

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SCALE 比例
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DIMENSION UNIT 尺寸單位
METRES

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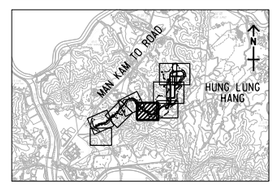


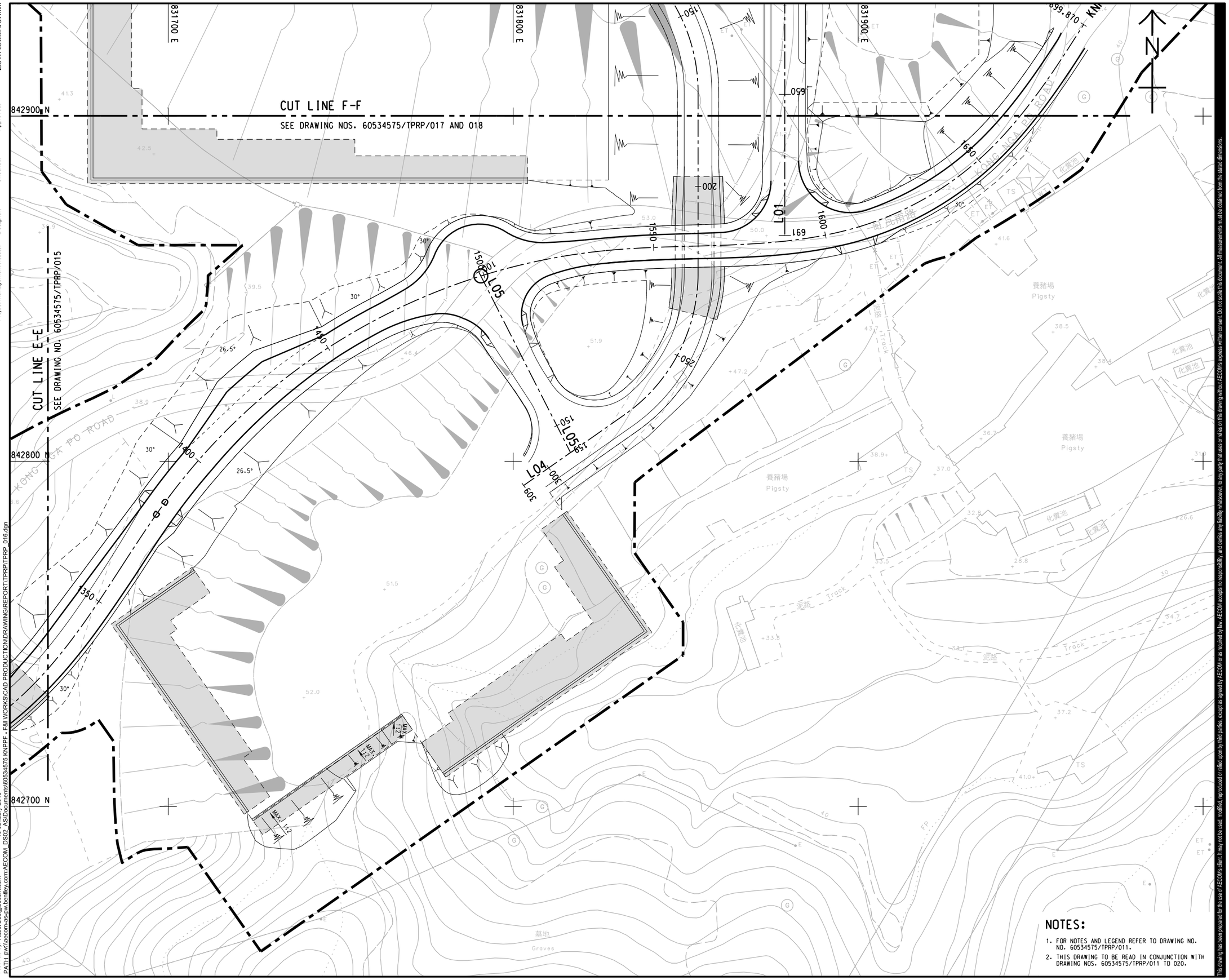
PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
GENERAL LAYOUT

SHEET 5 OF 10

SHEET NUMBER 圖紙編號
60534575/TPRP/015



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1. FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/TPRP/011.
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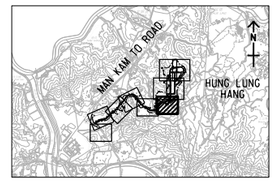
STATUS 階段

SCALE 比例: A1 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號: 60534575

CONTRACT NO. 合約編號: CE 60/2016 (CE)

SHEET TITLE 圖紙名稱

GENERAL LAYOUT

SHEET 6 OF 10

SHEET NUMBER 圖紙編號

60534575/TPRP/016

ISO A1 594mm x 841mm
Approved:
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Designer:
Project Management Initials:
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16-January-2019

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

843000 E

843100 E

831700 N

831800 N

CUT LINE F-F
SEE DRAWING NO. 60534575/TPRP/016

CUT LINE G-G
SEE DRAWING NO. 60534575/TPRP/109

CUT LINE H-H
SEE DRAWING NO. 60534575/TPRP/018

L03

L04

L17

163

150

518
100

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/TPRP/011.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/011 TO 020.

Kong Nga Po 仙乃雅

Rifle Range 練靶場

Cut

Fill

Hung Hing Centre

Man Kam To Road

Hung Lung Hang

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PROJECT
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SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

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STATUS
階段

SCALE
比例

A1 1 : 500

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖 A1 1 : 50000

PROJECT NO.
項目編號

60534575

CONTRACT NO.
合約編號

CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

GENERAL LAYOUT

SHEET 7 OF 10

SHEET NUMBER
圖紙編號

60534575/TPRP/017

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

CUT LINE H-H
SEE DRAWING NO. 60534575/TPRP/017

CUT LINE F-F
SEE DRAWING NO. 60534575/TPRP/016

CUT LINE G-G
SEE DRAWING NOS. 60534575/TPRP/019 AND 020

843000 E
843100 E
843200 E
831900 N
832000 N
1699.870
KNP
L01
L02
L03
L04
L07
L08
L17
518
100
362
172
KWAN TO ROAD
HUNG LUNG HANG

NOTES:

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PROJECT 項目

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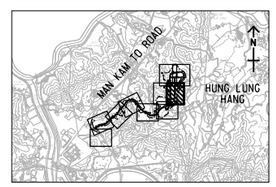
STATUS 階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



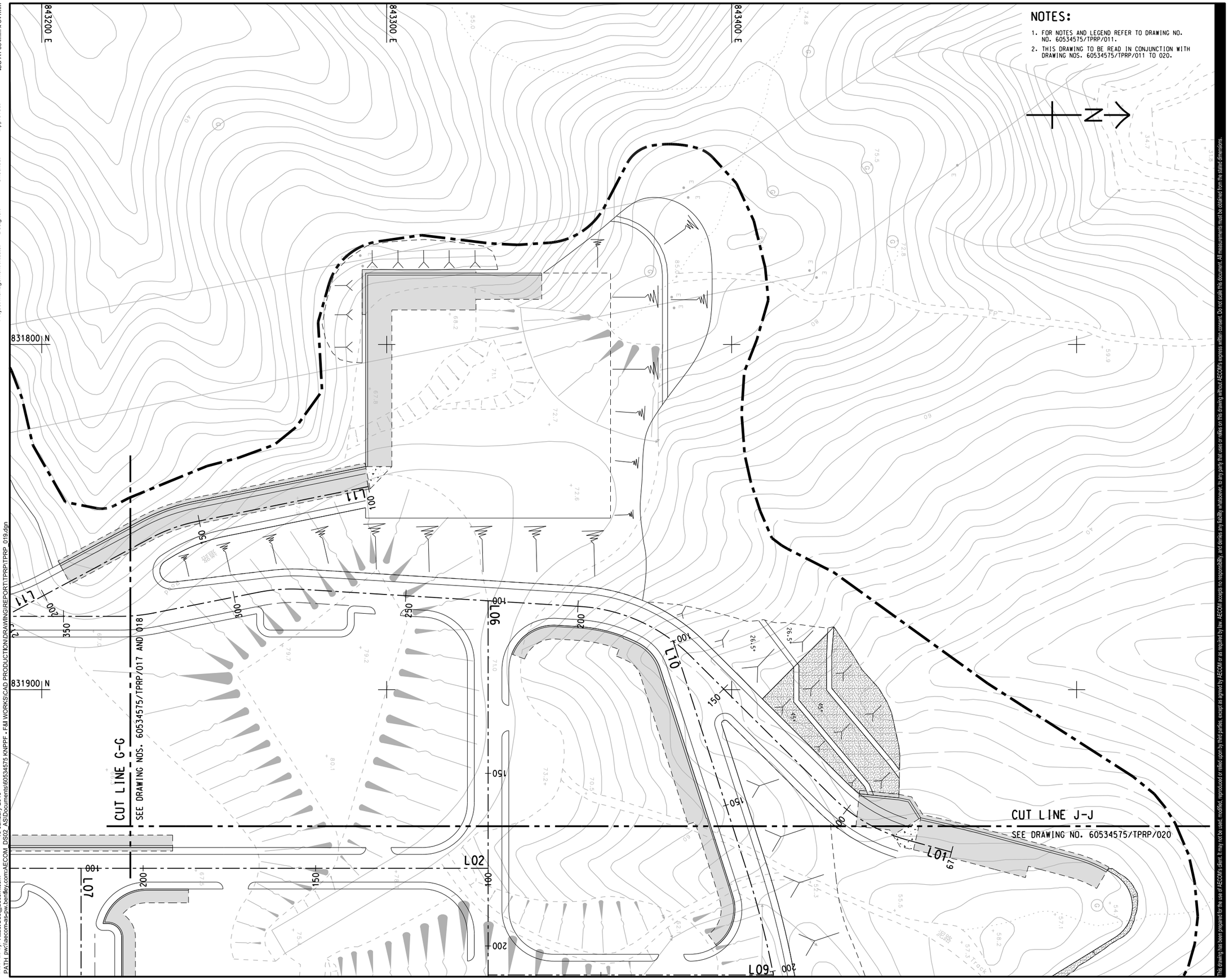
PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
GENERAL LAYOUT

SHEET 8 OF 10

SHEET NUMBER 圖紙編號
60534575/TPRP/018



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2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/011 TO 020.

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PROJECT
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SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

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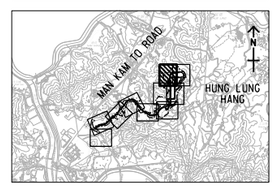
階段

SCALE 比例: A1 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號: 60534575

CONTRACT NO. 合約編號: CE 60/2016 (CE)

SHEET TITLE 圖紙名稱

GENERAL LAYOUT

SHEET 9 OF 10

SHEET NUMBER 圖紙編號

60534575/TPRP/019

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Approved:
Checked:
Designer:
Project Management Initials:
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16-January-2019

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

843200 E

843300 E

843400 E

843500 E

832000 N

832100 N

CUT LINE J-J
SEE DRAWING NO. 60534575/TPRP/019

CUT LINE G-G
SEE DRAWING NO. 60534575/TPRP/018

L01

L02

L06

L07

L08

L09

L10

L12

NOTES:

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STATUS
階段

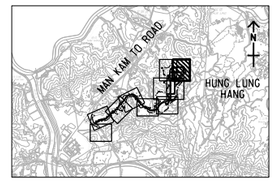
SCALE
比例

A1 1 : 500

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖 A1 1 : 50000



PROJECT NO.
項目編號

60534575

CONTRACT NO.
合約編號

CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

GENERAL LAYOUT

SHEET 10 OF 10

SHEET NUMBER
圖紙編號

60534575/TPRP/020

Appendix II

Landscape Design Plans and Section

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: huiwaw
3/28/2017
PATH: pw:\\HKSHT1VAP096.aecomonline.local\AECOM_DS02_AS\Documents\60534575 KNPFF - F&I WORKS\CAD PRODUCTION\DRAWING\REPORT\PDR\PDR_171.dgn

LEGEND:

- PROPOSED KONG NGA PO DEVELOPMENT AREA
- PROPOSED KONG NGA PO ROAD IMPROVEMENT WORKS
- PROPOSED CUT SLOPE (OM 04)
- PRESERVED WOODLAND(CM 01)
- PROPOSED WOODLAND BUFFER PLANTING (CM 06)
- PROPOSED SHRUB-GRASSLAND (OM 08)
- PROPOSED FILL SLOPE (OM 04)
- COMPENSATORY PLANTING (OM 05)

- PROPOSED AMENITY TREE AND SHRUB PLANTING (OM 07)
- PROPOSED LAWN AREA
- Building associated landscape works within platforms to be implemented by ARCHSD under building contract which includes:
  1. Pavement
  2. Lawn
  3. OM01: Detailed Design Considerations; OM02: Aesthetically Pleasing Design and Responsive Design of Buildings and Structures; OM07: Roadside and Amenity Planting; OM08: Grassland (Ecological Mitigation); OM09: Green Roof; OM10: Vertical Greening; OM11: Green Paving
- Landscape works including buffer planting are designed by CEDD and to be constructed by ArchSD under building contract

ID No.	Mitigation Measure
CM01	Tree Protection and Preservation
CM02	Tree Transplantation
CM03	Work Area and Temporary Works Area
CM04	Advance Implementation of Mitigation Planting
CM05	Decorative Screen Hoarding*
OM01	Detailed Design Considerations
OM02	Aesthetically Pleasing Design and Responsive Design of Buildings and Structures
OM03	Design of Engineering Structures
OM04	Design of Retaining Walls and Slopes
OM05	Compensatory Planting Proposals
OM06	Landscape Buffer Tree Planting
OM07	Roadside and Amenity Planting
OM08	Grassland (Ecological Mitigation)
OM09	Green Roof**
OM10	Vertical Greening**
OM11	Green Paving**
OM12	Light Control (Operation)

*Decorative screen hoarding will be constructed along the construction works close to visually sensitive receivers during the construction phase of the works to screen undesirable views of the construction site. The actual hoarding location will be subject to detailed design.

SITE BOUNDARY FOR PROJECT MAIN SITE
(All tree planting within project main site to be implemented under ARCHSD building works contract)

SITE BOUNDARY FOR IMPROVEMENT WORKS AT KONG NGA PO ROAD

CM01 OM04 · OM04 OM08 · CM01 OM05 OM06 · OM04 OM06 · CM01 OM05 · OM04 OM08 · CM01 OM04 OM08 · CM01 · OM04 OM08 · CM01 OM05 · CM01 OM08 · CM01 OM04 · OM04 OM05 OM08 · OM08 OM04 · CM01 OM05 OM06 · CM01 OM08 OM04 · OM04 · CM01 OM04 · OM04 OM06 · OM04 OM08 · CM01 OM05 · OM04 OM08 · VIADUCT

HEIGHT OF RETAINING STRUCTURE:
(OUTSIDE THE DEVELOPMENT AREA AND ALONG KONG NGA PO ROAD)

RETAINING WALL (OM 04)

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PROJECT
項目

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - 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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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核核

STATUS
階段

SCALE 比例: 1 : 2000
DIMENSION UNIT 尺寸單位: METERS

KEY PLAN
索引圖



PROJECT NO. 項目編號: 60534575
CONTRACT NO. 合約編號: CE 60/2016 (CE)

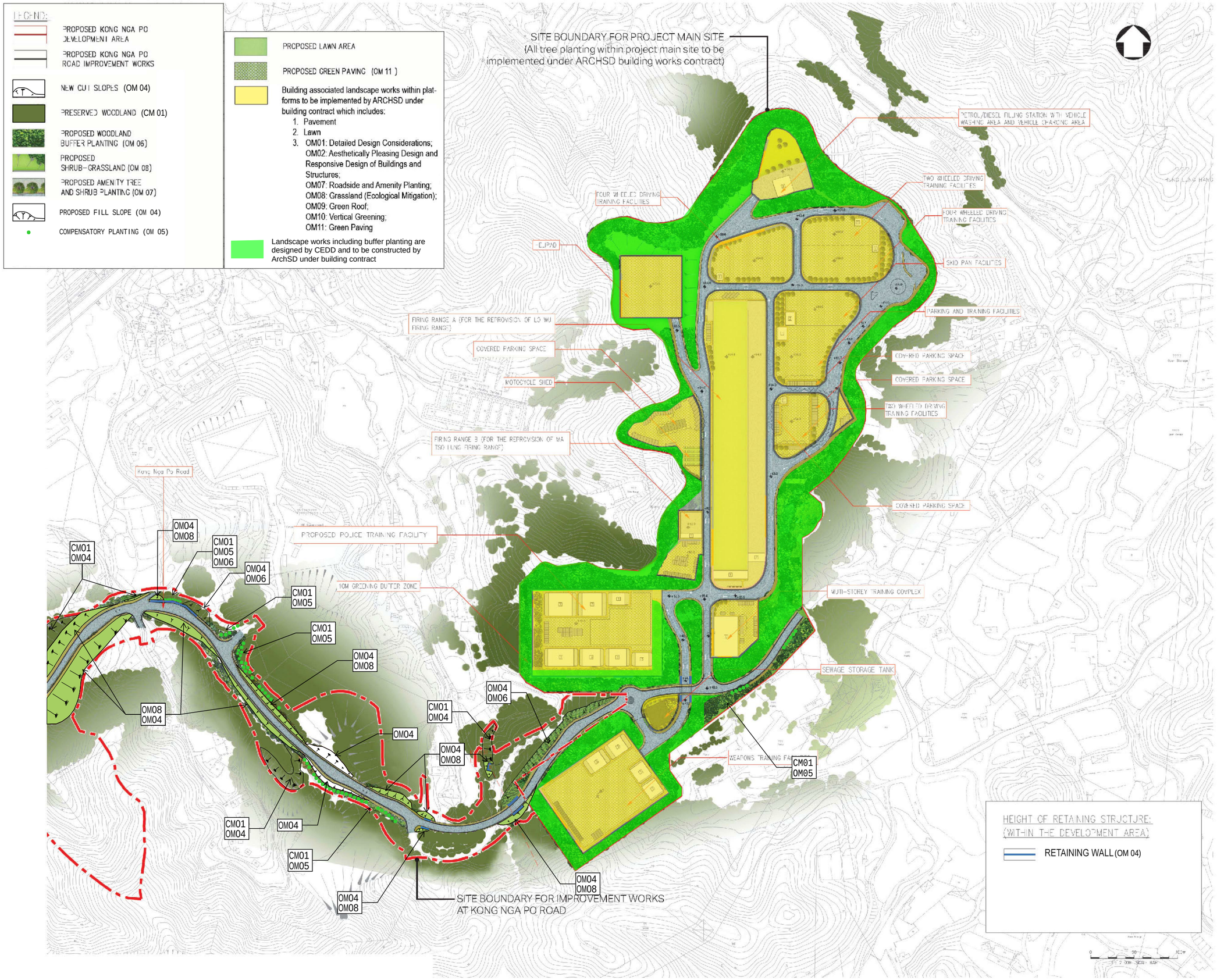
SHEET TITLE
圖紙名稱

LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號

60534575/PDR/L002

PARKING



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PROJECT
項目

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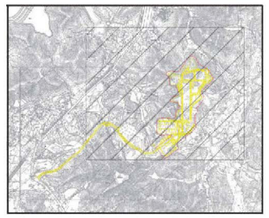
STATUS
階段

SCALE
比例
1 : 2000

DIMENSION UNIT
尺寸單位
METERS

KEY PLAN
索引圖



PROJECT NO.
項目編號
60534575

CONTRACT NO.
合約編號
CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

LANDSCAPE MASTER PLAN

SHEET NUMBER
圖紙編號

60534575/PDR/L001

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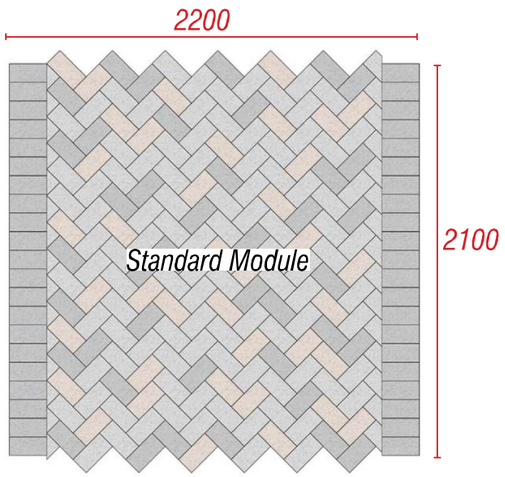
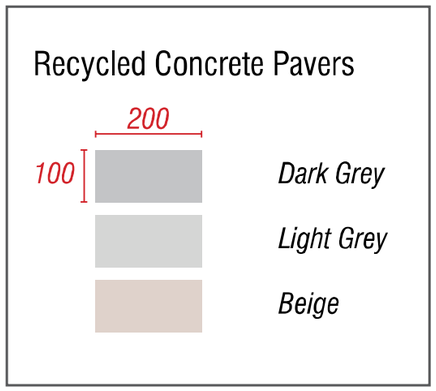
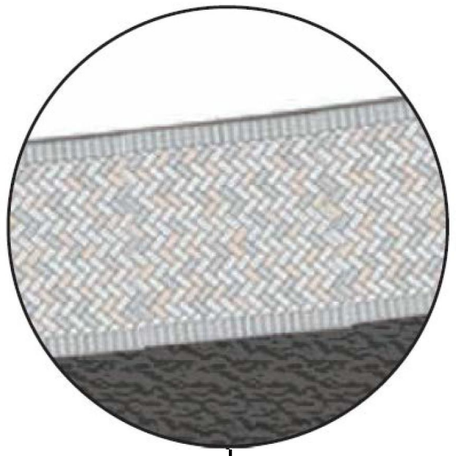
Project Management Initials: Designer: Checked: Approved: ISO A1 594mm x 841mm

PAVING PATTERN - TYPICAL





Blow up Paving Details

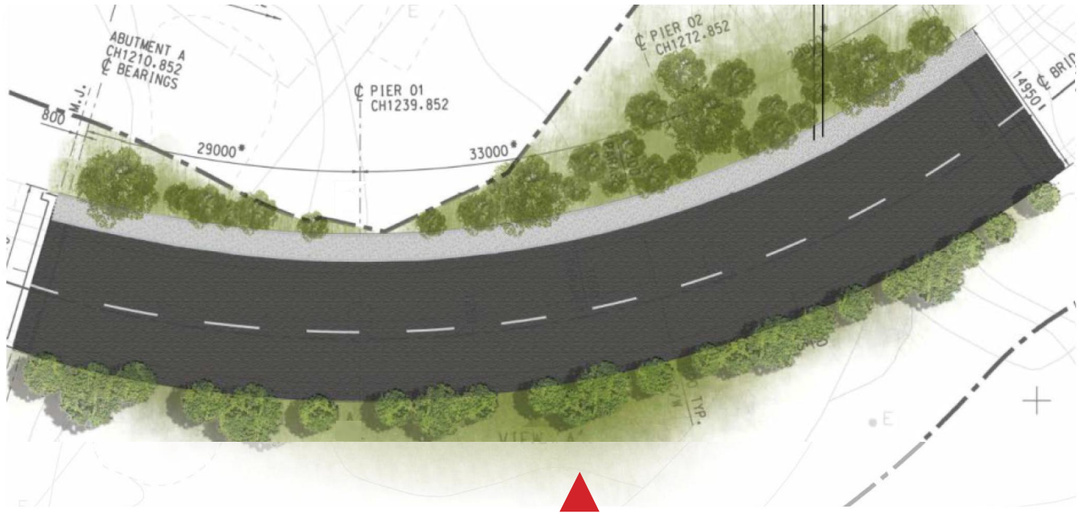




Drawing No.: 60534575/ACABAS/014

Paving Plan 1:250

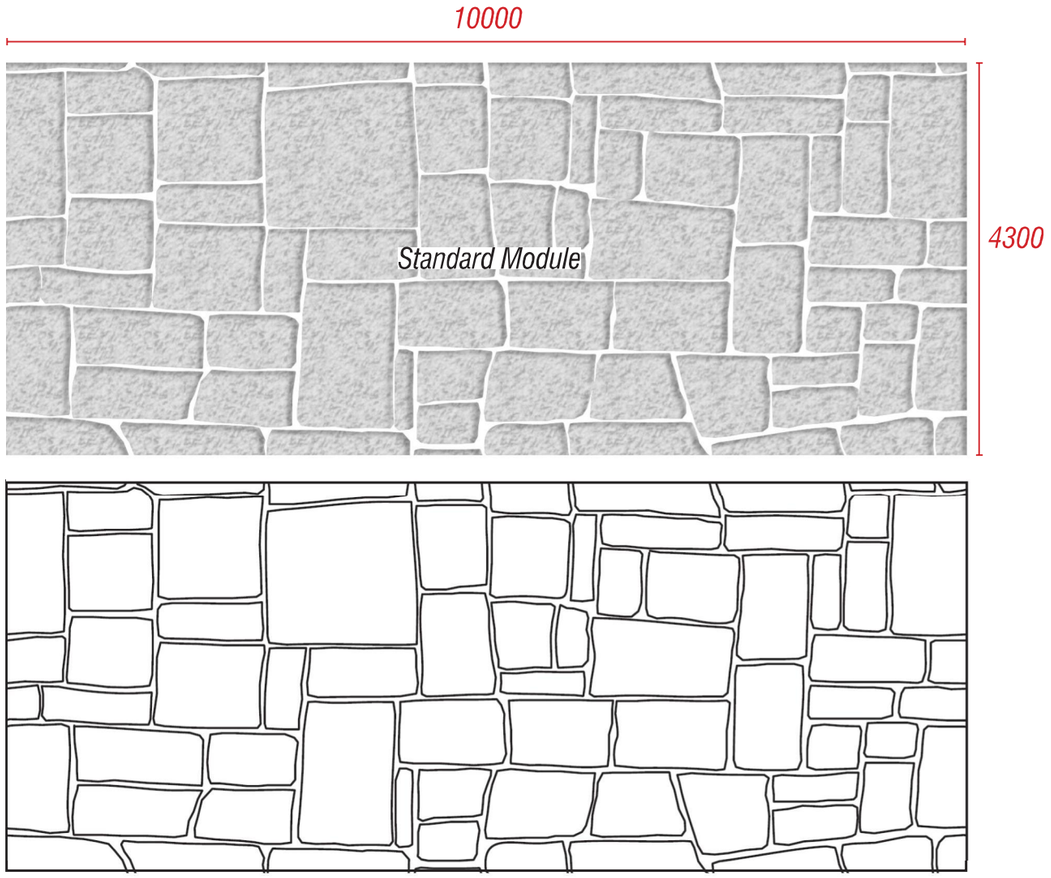
BRIDGE - ABUTMENT WALL



View A

Elevation - View A | 1:300

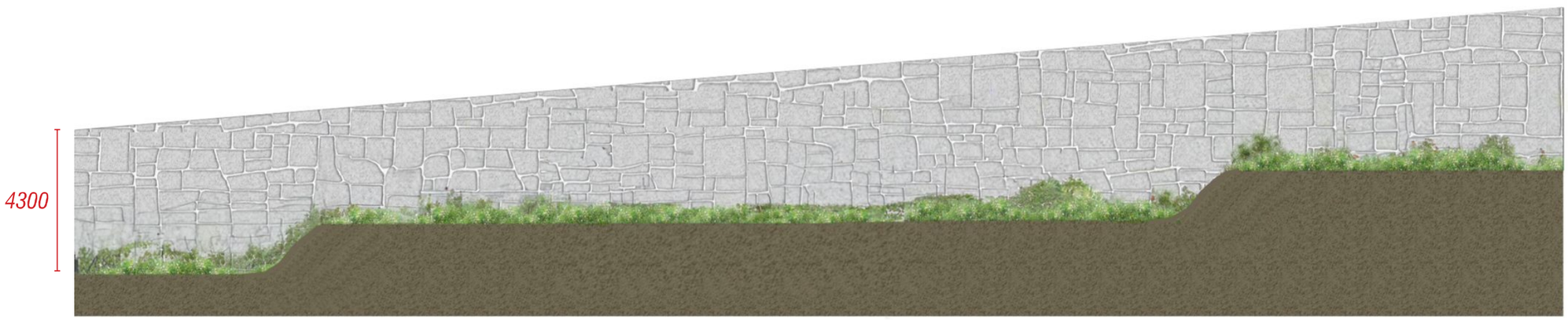
RETAINING WALL - WALL PATTERN



Textured Formwork Liner (Concrete) - Drystack Random Stone Pattern
Profile Depth: 20mm



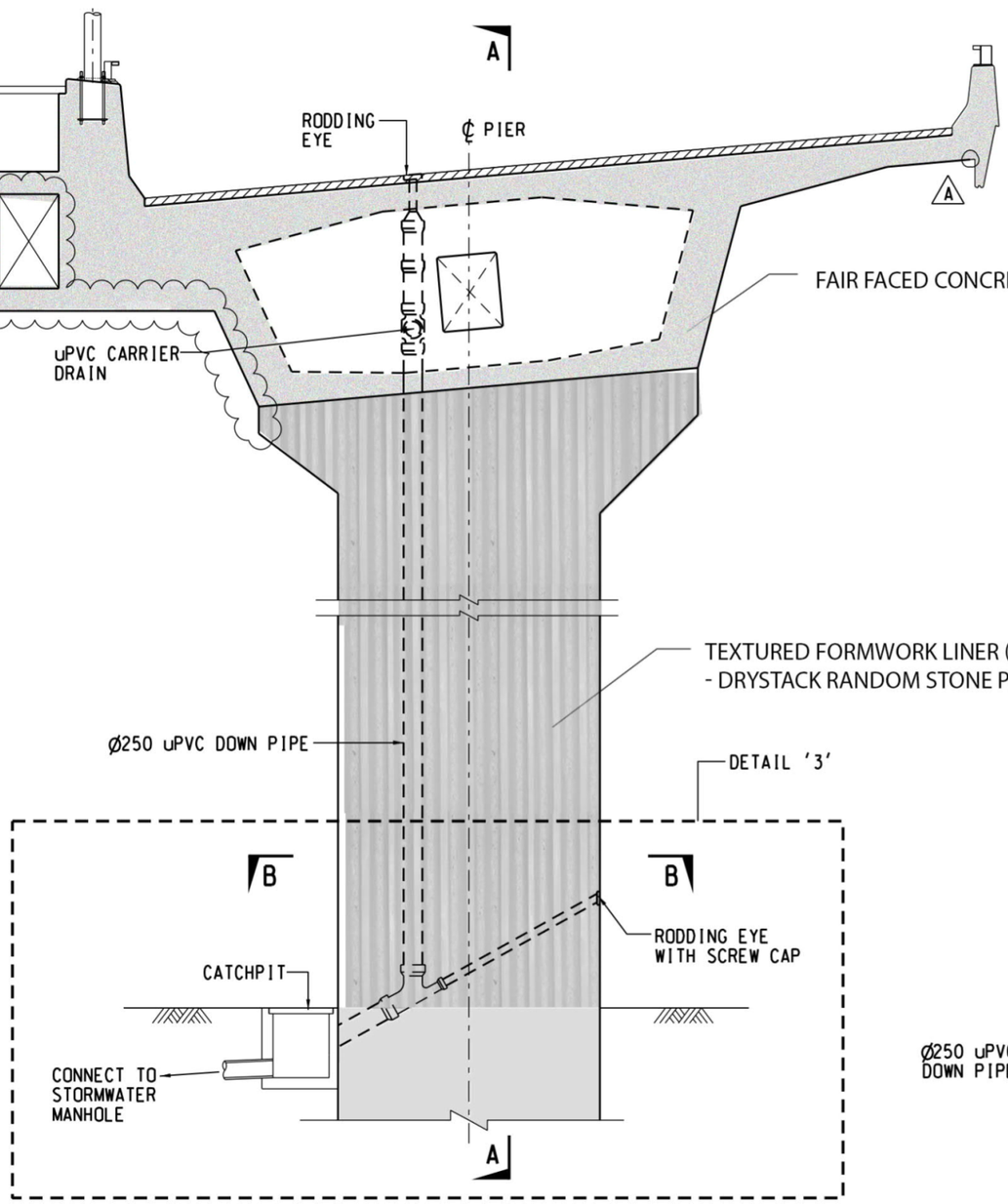
Retaining Wall Section - 1:100



Retaining Wall Pattern Section (with Climber) - 1:150

Drawing No.: 60534575/ACABAS/017

PIER - WALL PATTERN



DRAINAGE DETAILS AT PIER
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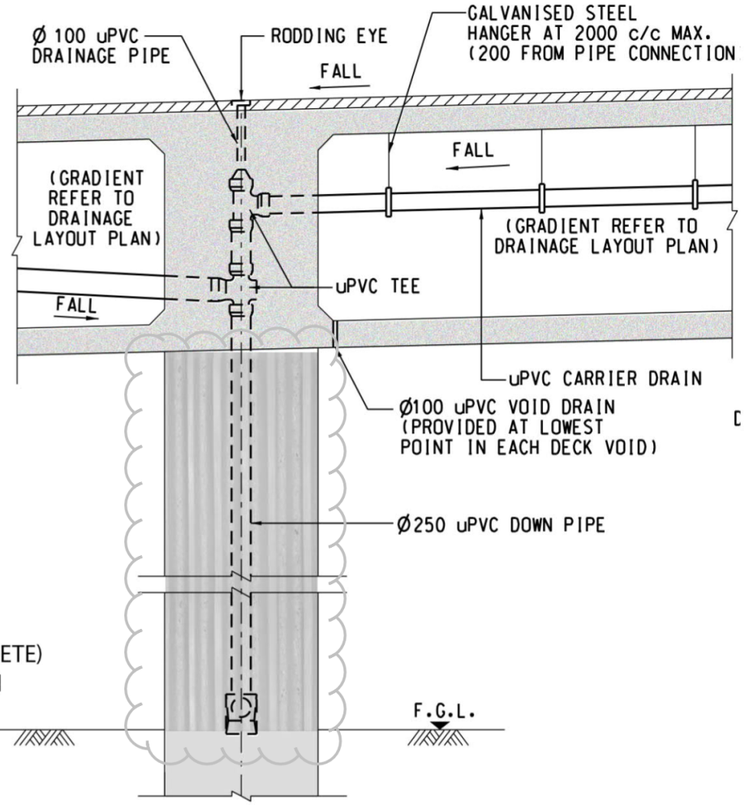

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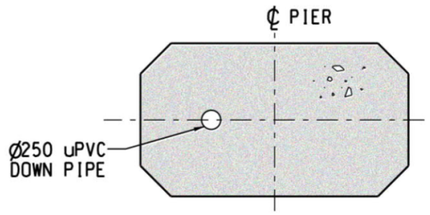

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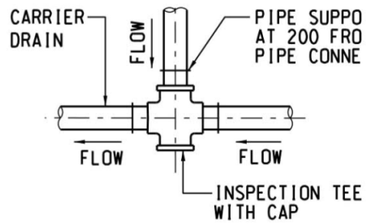


DETAIL '1'
SCALE 1 : 10



SAMPLE PHOTO

PLANTING PALETTE

Planting Schedule							
No.	Botanical Name	Chinese Name	Size(mm)		Spacing (mm)	Native	Location
			Height	Spread			
Shrub							
1	*Dichroa febrifuga*	常山	400	350	300	Native	Next to the viaduct section and retaining wall
2	*Ixora chinensis (Red)*	龍船花（紅花）	450	300	250	Native	
3	*Rhaphiolepis indica*	石斑木，車輪梅，春花	400	350	300	Native	
4	*Rhododendron simsii*	紅杜鵑	250	200	150	Native	
5	*Rhodomyrtus tomentosa*	桃金娘，崗棯	300	250	200	Native	

B. Shrubs



Dichroa febrifug | 常山



Ixora chinensis (Red) | 龍船花 (紅花)



Rhaphiolepis indica | 石斑木, 車輪梅, 春花



Rhododendron simsii | 紅杜鵑



Rhodomyrtus tomentosa | 桃金娘, 崗棯

PLANTING PALETTE

C. Trees



Machilus breviflora | 短序潤楠



Gordonia axillaris |大頭茶



Reevesia thyrsoidea| 梭羅樹



Viburnum odoratissimum | 珊瑚樹



Melia azedarach| 苦楝

Species	Chinese Name	Spacing (mm)	Size	Location
Woodland and Landscape Buffer Planting				
Tree Planting				
*Machilus breviflora**	短序潤楠	2000 / 5000	Whips / Heavy Standard	Next to the retaining wall and viaduct sections
*Polyspora axillaris**	大頭茶	2000 / 5000	Whips / Heavy Standard	
*Reevesia thyrsoidea**	梭羅樹	2000 / 5000	Whips / Heavy Standard	
*Viburnum odoratissimum**	珊瑚樹	2000 / 5000	Whips / Heavy Standard	
Melia azedarach	苦楝	2000 / 5000	Whips / Heavy Standard	



Location Plan



Figure C1: Kong Nga Po Road – Retaining Wall No.2 (Before Construction Works)



Location Plan



Figure C2: Photomontage of Proposed Retaining Wall No.2 (Without Mitigation Measures)



Location Plan

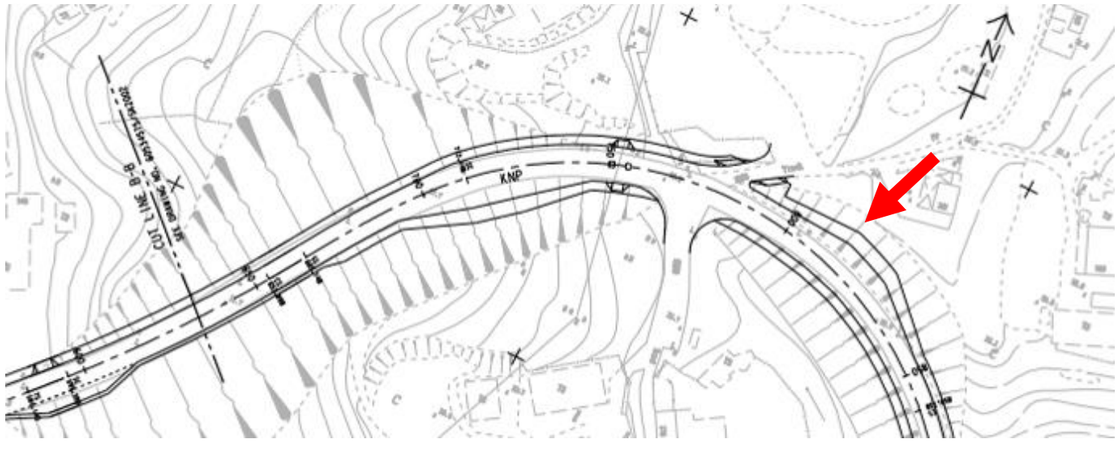


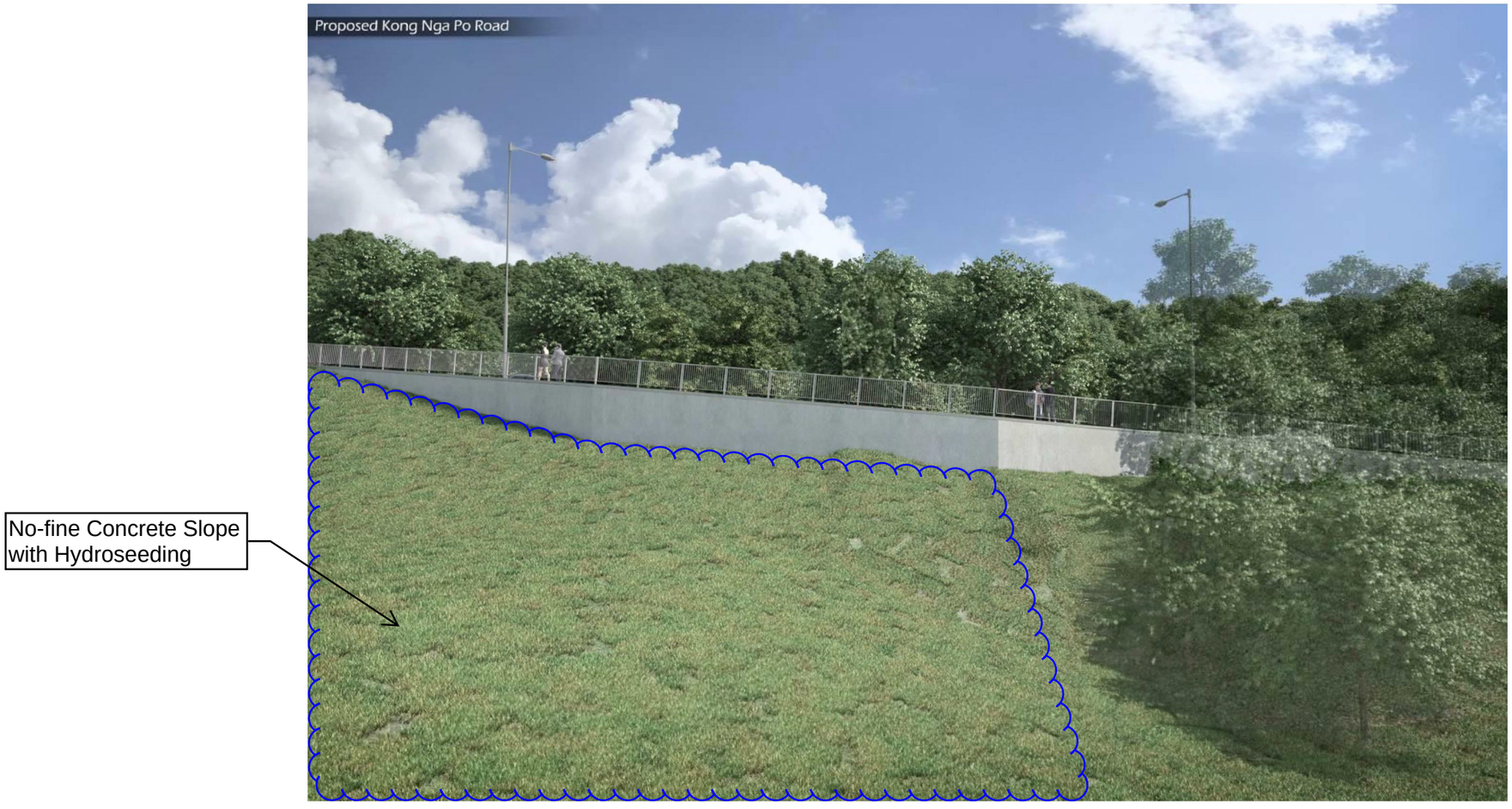
Figure C3: Photomontage of Proposed Retaining Wall No.2 (With Mitigation Measures)



Location Plan



Figure C4: Photomontage of Proposed Retaining Wall No.2 (Without Mitigation Measures)



Location Plan

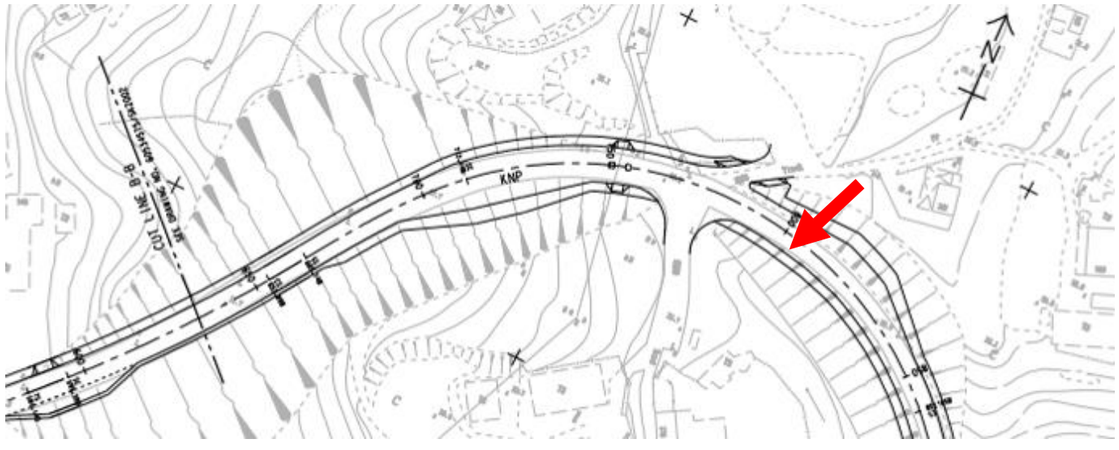


Figure C5: Photomontage of Proposed Retaining Wall No.2 (With Mitigation Measures)



Location Plan



Figure C6: Photomontage of Proposed Retaining Wall No.2 (Pedestrian's View)



Location Plan

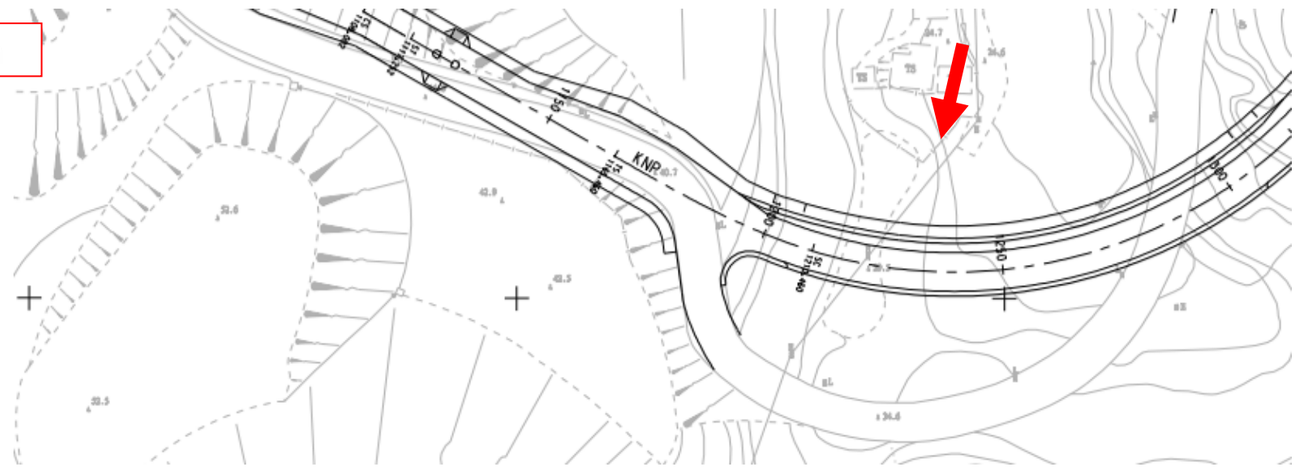


Figure C7: Kong Nga Po Road – Viaduct Section (Before Construction Works)



Location Plan

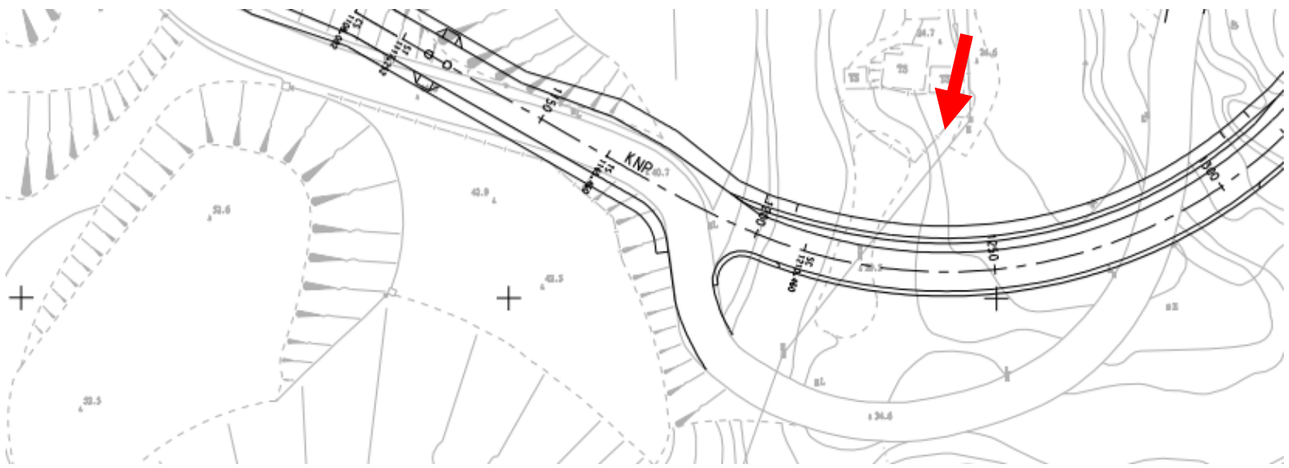


Figure C8: Photomontage of Proposed Viaduct Section (Without Mitigation Measures)



Location Plan

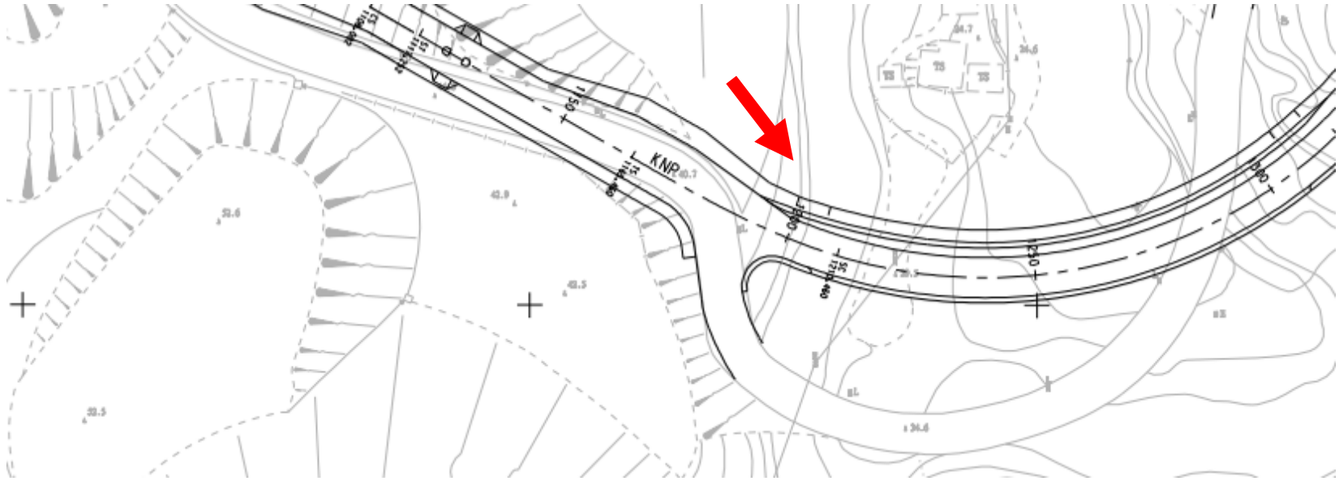


Figure C10: Photomontage of Proposed Viaduct Section (Without Mitigation Measures)



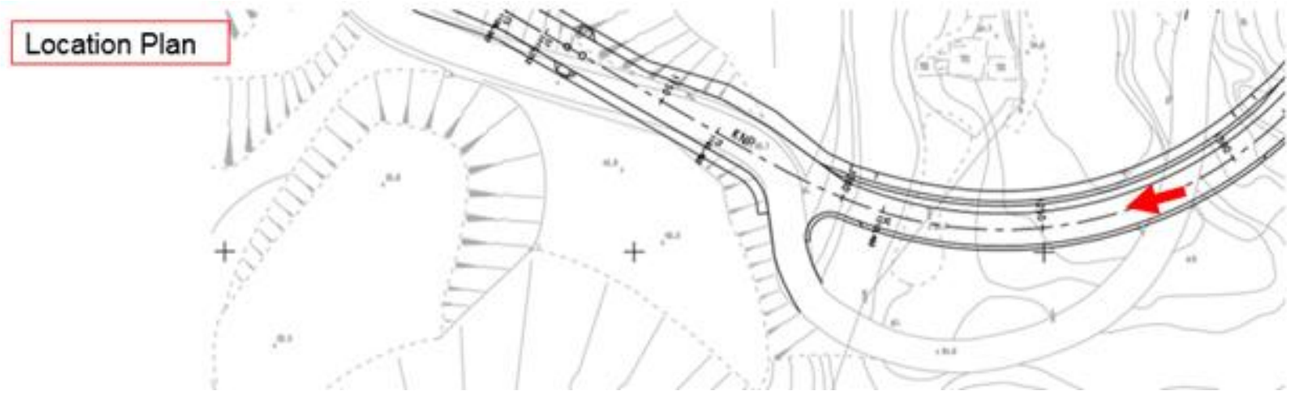


Figure C12: Photomontage of Proposed Viaduct Section (Driver's View)

Appendix III

Tree Planting Plan (Heavy/Light Standard Trees and Transplanted Trees)

Combined Tree Treatment and Planting Plan for both CEDD and ArchSD Contract

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

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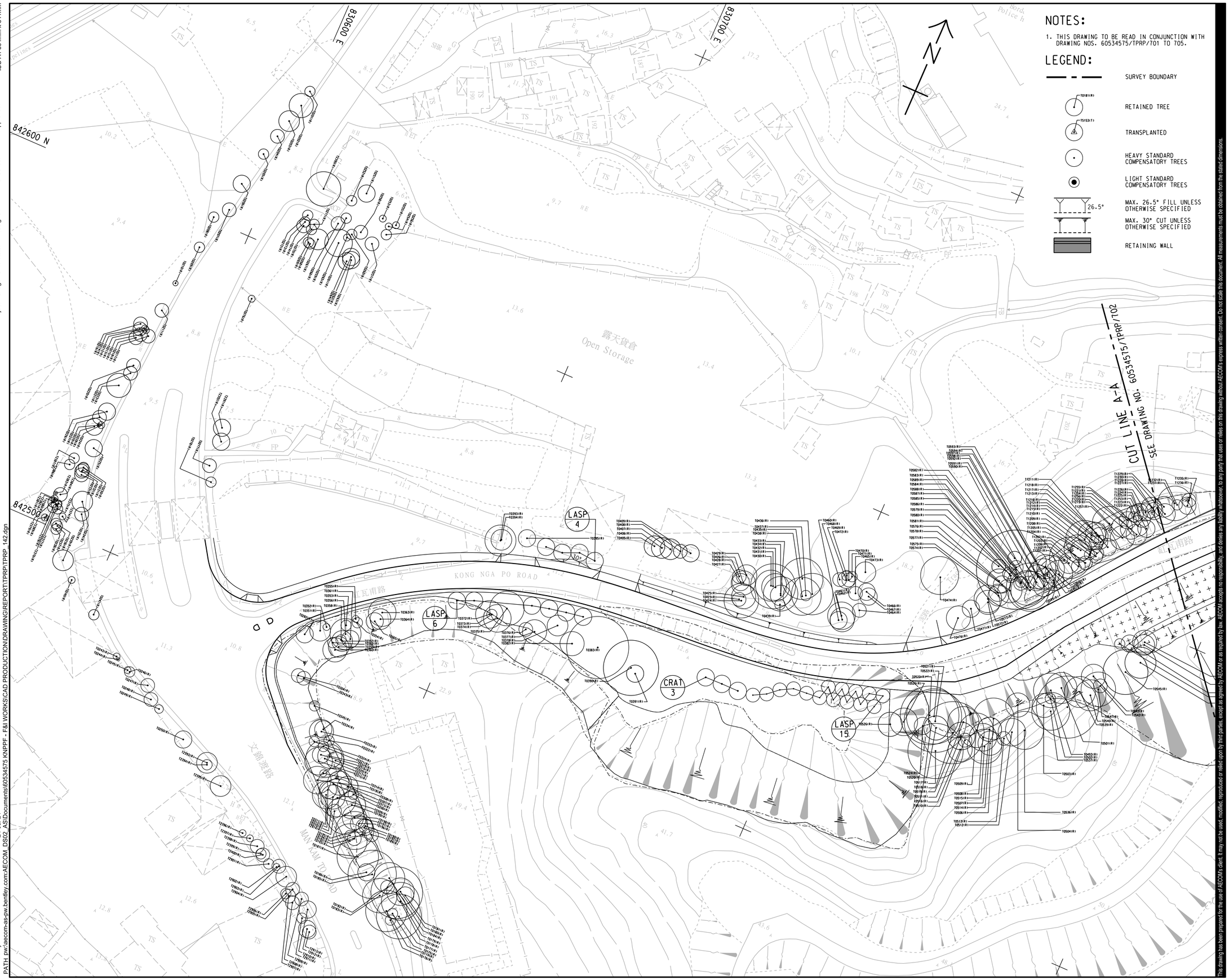
24-Jul-24



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A	JUL. 24	GENERAL REVISION	

STATUS
階段

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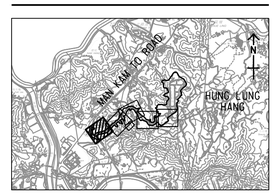
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN A1 1 : 50000
索引圖



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

TREE PLANTING PLAN

SHEET 1 OF 5

SHEET NUMBER
圖紙編號

60534575/TPRP/701A

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

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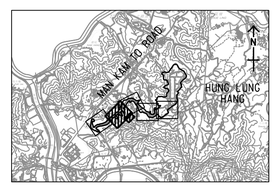

PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
TREE PLANTING PLAN

SHEET 2 OF 5

SHEET NUMBER 圖紙編號
60534575/TPRP/702A

ISO A1 594mm x 841mm

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Checked:

Designer:

Project Management Initials:

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/TPRP/701.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/701 TO 705.

CUT LINE B-B
SEE DRAWING NO. 60534575/TPRP/702

CUT LINE C-C
SEE DRAWING NO. 60534575/TPRP/704

831100 E

831200 E

842900 N

842800 N

KONG NGA PO ROAD

CIBU 2

LIFO 1

BAVA 2

LIFO 7

BAVA 7

BAVA 6

V100 7

24-Jul-24

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SCALE 比例
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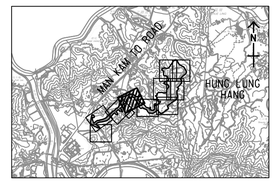
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
TREE PLANTING PLAN

SHEET 3 OF 5

SHEET NUMBER 圖紙編號
60534575/TPRP/703A

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

Plot File by:
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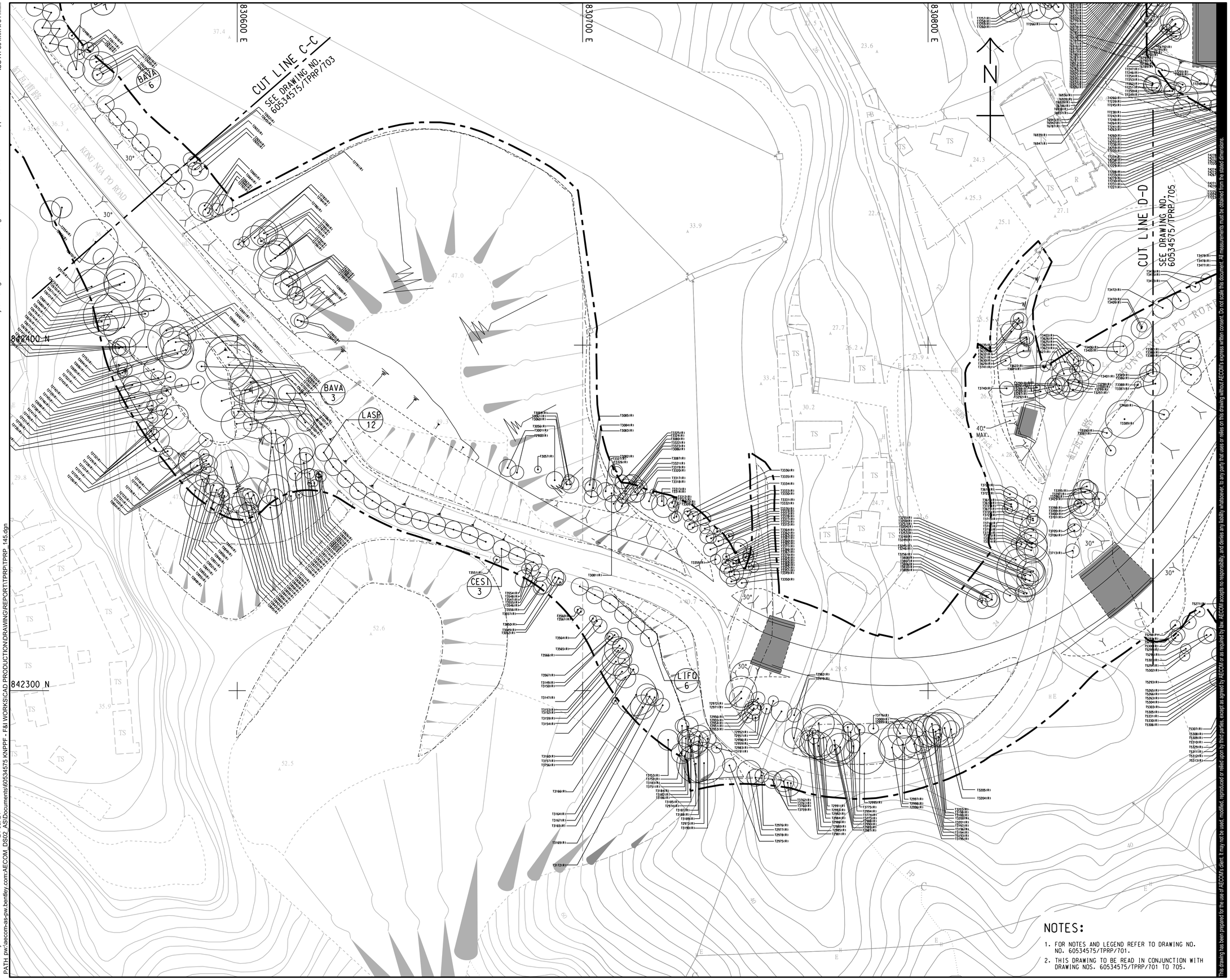
24-Jul-24



NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/TPRP/701.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/701 TO 705.

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PROJECT
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SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

CLIENT
業主

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

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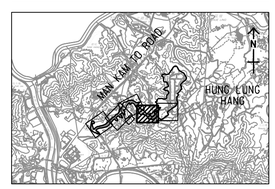
A	JUL. 24	GENERAL REVISION	

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
TREE PLANTING PLAN

SHEET 4 OF 5

SHEET NUMBER 圖紙編號
60534575/TPRP/704A

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

Plot File by:
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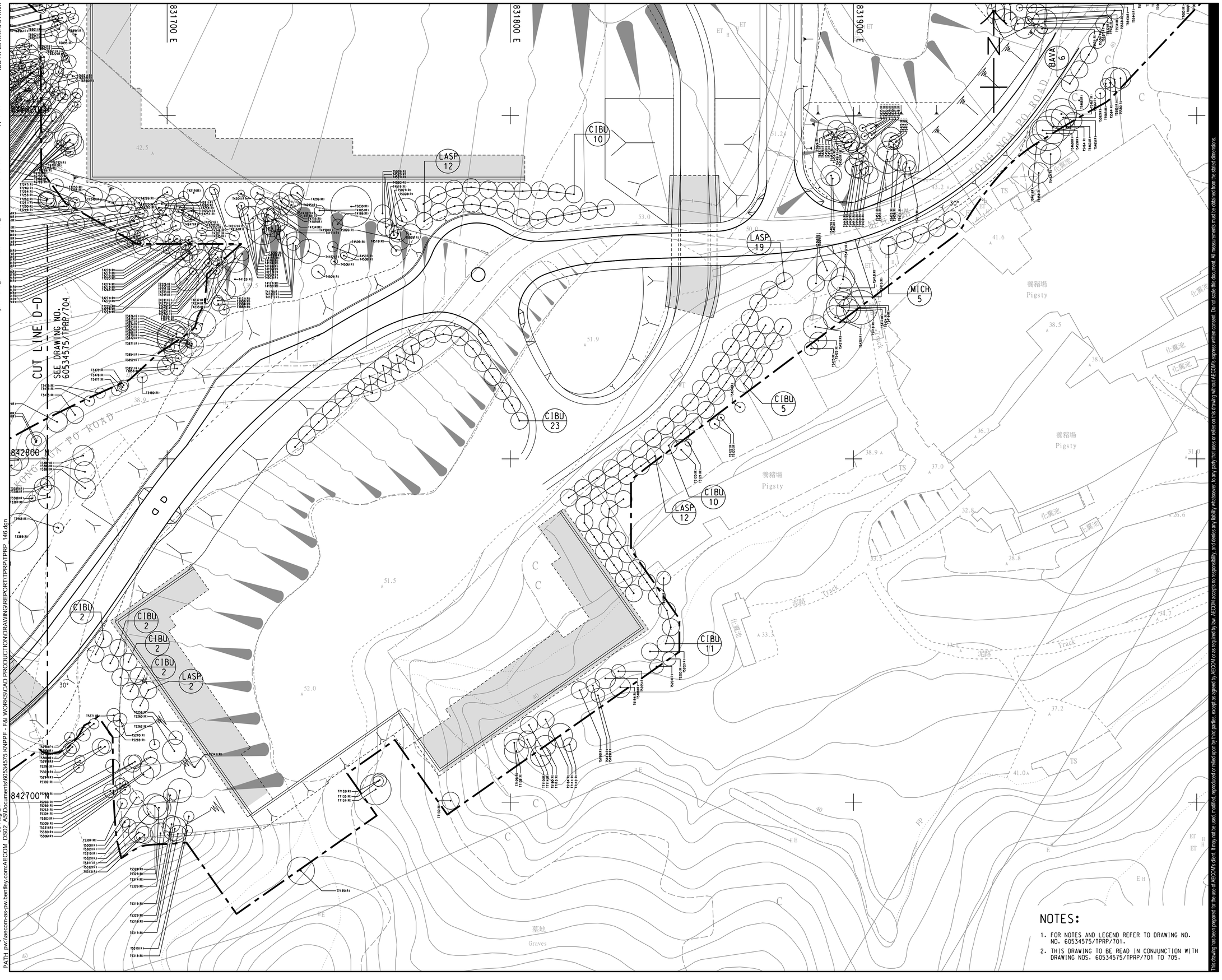
30-Aug-24



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SCALE 比例
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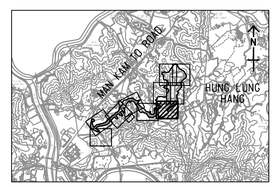
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



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CONTRACT NO. 合約編號
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SHEET TITLE 圖紙名稱
TREE PLANTING PLAN

SHEET 5 OF 5

SHEET NUMBER 圖紙編號
60534575/TPRP/705A

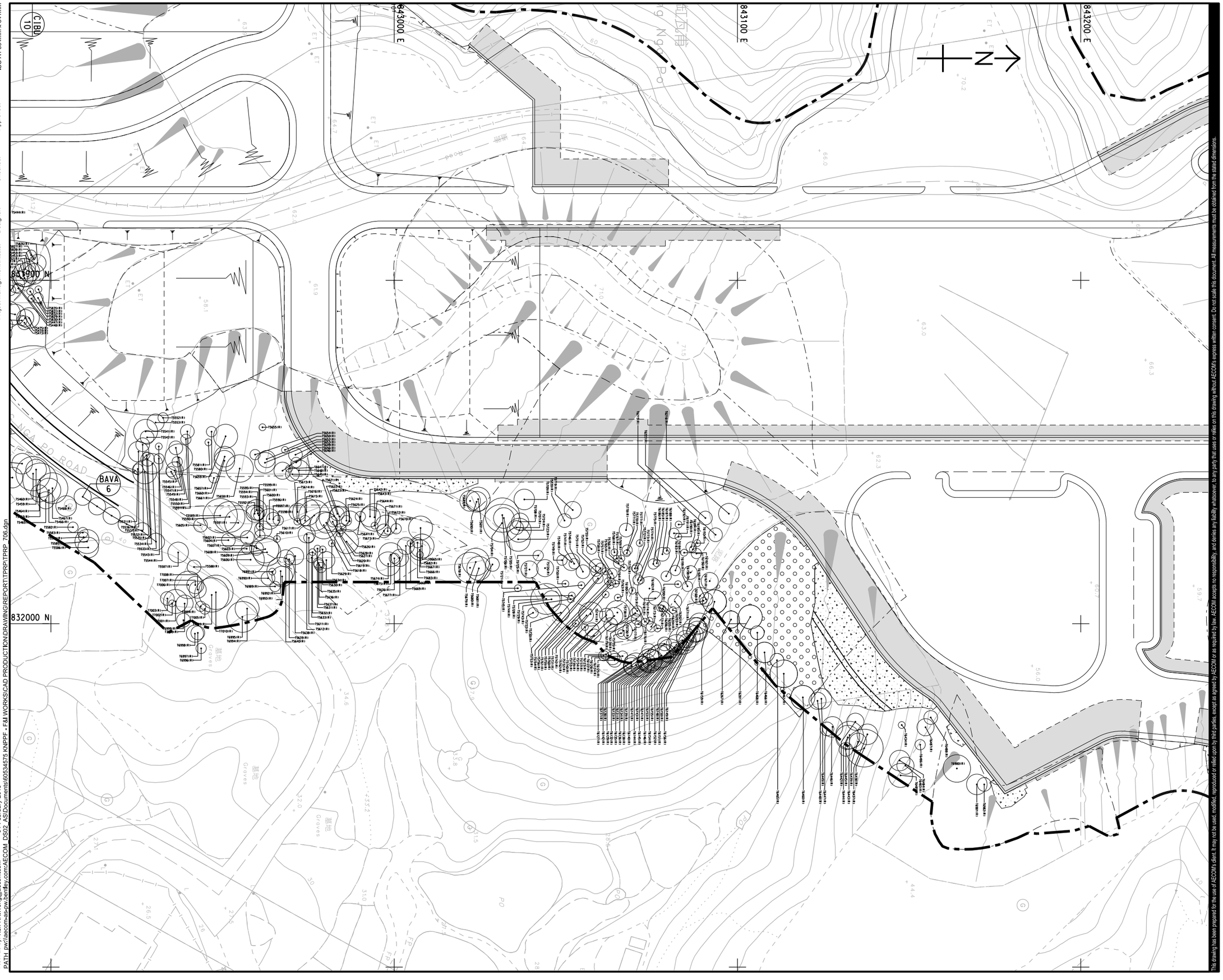
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:


843000 E
843100 E
843200 E
832100 N
832000 N
BAVA 6
KONG NGA PO ROAD
Grass
Road
Grass
Grass
Grass

Code	Botanical Name	Chinese Name	Size Height(H) x Spread (S)	Spacing (mm)	Quantity
Trees					
KOBI	*Koelreuteria bipinnata*	複羽葉欒樹	Heavy Standard	5000	8
CESI	*Celtis sinensis**	朴樹	Heavy Standard	5000	5
BAVA	*Bauhinia variegata*	宮粉洋蹄甲	Heavy Standard	5000	24
CRAT	*Crateva unilocularis*	樹頭菜	Heavy Standard	5000	3
CIBU	*Cinnamomum burmannii**	陰香	Heavy Standard	5000	69
LASP	*Lagerstroemia speciosa*	大葉紫薇	Heavy Standard	5000	82
LIFO	*Liquidambar formosana**	楓香	Heavy Standard	5000	14
MICH	*Michelia x alba*	白蘭	Heavy Standard	5000	5
VIOD	*Viburnum odoratissimum**	珊瑚樹	Light Standard	3000	7

*native species

Woodland Mix Planting							
WMP1							
Key	Code	Botanical Name	Chinese Name	Size Height(H) x Spread (S)	Spacing (mm)	% mix	Quantity
•	BRI	*Bridelia tomentosa**	土密樹	whip tree	2000	20	849
•	PHY	*Phyllanthus emblica**	餘甘子	whip tree	2000	20	849
•	FIC	*Ficus hispida**	對葉榕	whip tree	2000	20	849
•	POL	*Polyspora axillaris**	大頭茶	whip tree	2000	20	849
•	RHU	*Rhus succedanea**	野漆	whip tree	2000	20	849
x	RHS	*Rhododendron simsii*	紅杜鵑	400(H) x 400(S)	500	25	10655
x	MEL	*Melastoma sanguineum*	毛菴	400(H) x 400(S)	500	25	10655
x	RHT	*Rhodomyrtus tomentosa*	桃金娘/崗棯	400(H) x 400(S)	500	25	10655
x	PSY	*Psychotria asiatica*	九節	400(H) x 400(S)	500	25	10655
WMP2							
Key	Code	Botanical Name	Chinese Name	Size Height(H) x Spread (S)	Spacing (mm)	% mix	Quantity
•	MAC	*Machilus breviflora*	短序潤楠	whip tree	2000	20	620
•	POL	*Polyspora axillaris**	大頭茶	whip tree	2000	20	620
•	REE	*Reevesia thyrsoidea**	梭羅樹	whip tree	2000	20	732
•	VIB	*Viburnum odoratissimum**	珊瑚樹	whip tree	2000	20	620
•	CRA	*Cratoxylum cochinchinense**	黃牛木	whip tree	2000	20	508
x	POA	*Polyspora axillaris*	大頭茶	400(H) x 400(S)	500	25	7794
x	LIG	*Ligustrum sinense*	山指甲	400(H) x 400(S)	500	25	7794
x	GAR	*Gardenia jasminoides*	梔子	400(H) x 400(S)	500	25	7794
x	RHA	*Rhaphiolepis indica*	石斑木	400(H) x 400(S)	500	25	7794

* native species

Project Management Initials: Designer: JLSL Checked: JTCY Approved: RCYK ISO A1 594mm x 841mm
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STATUS
階段

SCALE 比例: A1 AS SHOWN
DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60534575
CONTRACT NO. 合約編號: CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

COMPENSATORY PLANTING SCHEDULE

SHEET NUMBER
圖紙編號

60534575/TPRP/707

Tree Planting Plan for CEDD Contract Only

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

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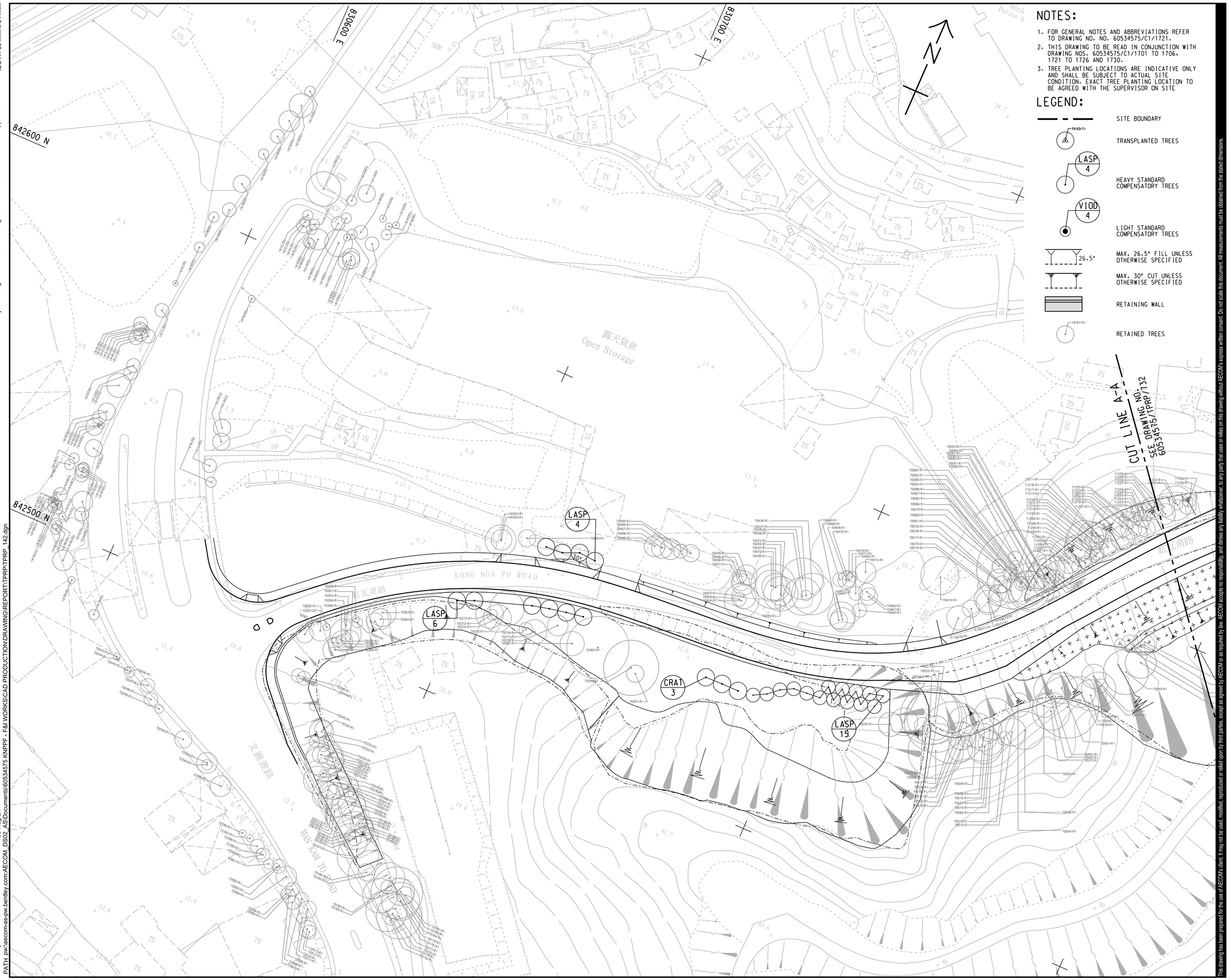

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS REFER TO DRAWING NO. NO. 60534575/C1/1721.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/C1/1701 TO 1706, 1721 TO 1726 AND 1730.
3. TREE PLANTING LOCATIONS ARE INDICATIVE ONLY AND SHALL BE SUBJECT TO ACTUAL SITE CONDITION. EXACT TREE PLANTING LOCATION TO BE AGREED WITH THE SUPERVISOR ON SITE

LEGEND:

- SITE BOUNDARY
- TRANSPLANTED TREES
- HEAVY STANDARD COMPENSATORY TREES (LASP 4)
- LIGHT STANDARD COMPENSATORY TREES (VIOD 4)
- MAX. 26.5° FILL UNLESS OTHERWISE SPECIFIED (26.5°)
- MAX. 30° CUT UNLESS OTHERWISE SPECIFIED
- RETAINING WALL
- RETAINED TREES

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階段

SCALE 比例
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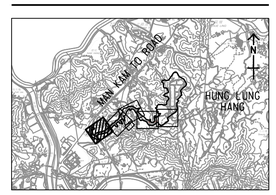
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
TREE PLANTING PLAN

SHEET 1 OF 5

SHEET NUMBER 圖紙編號
60534575/TPRP/731

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

30-Aug-24

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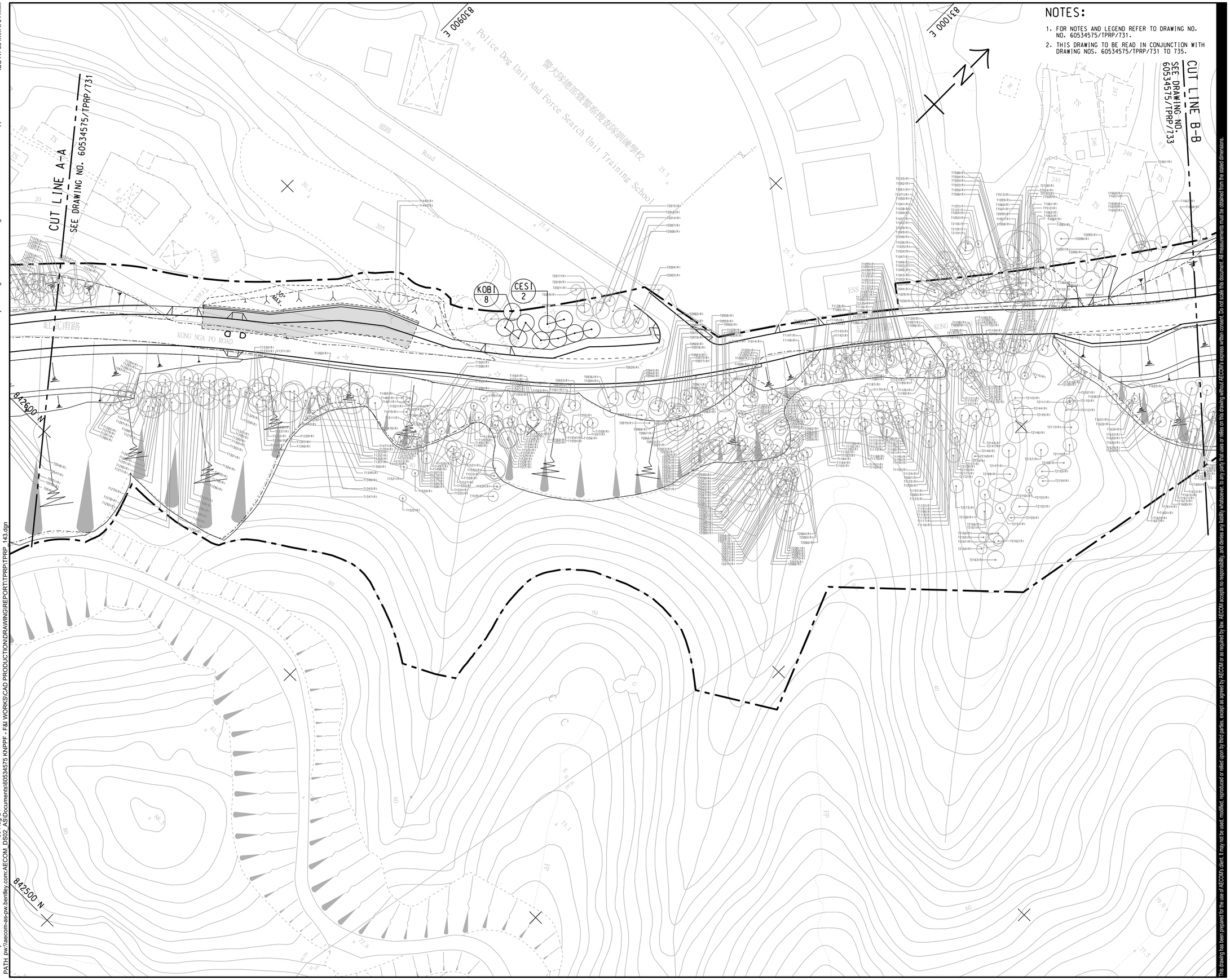

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SCALE 比例
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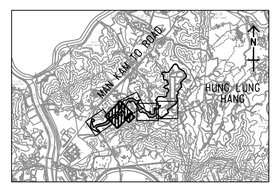
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



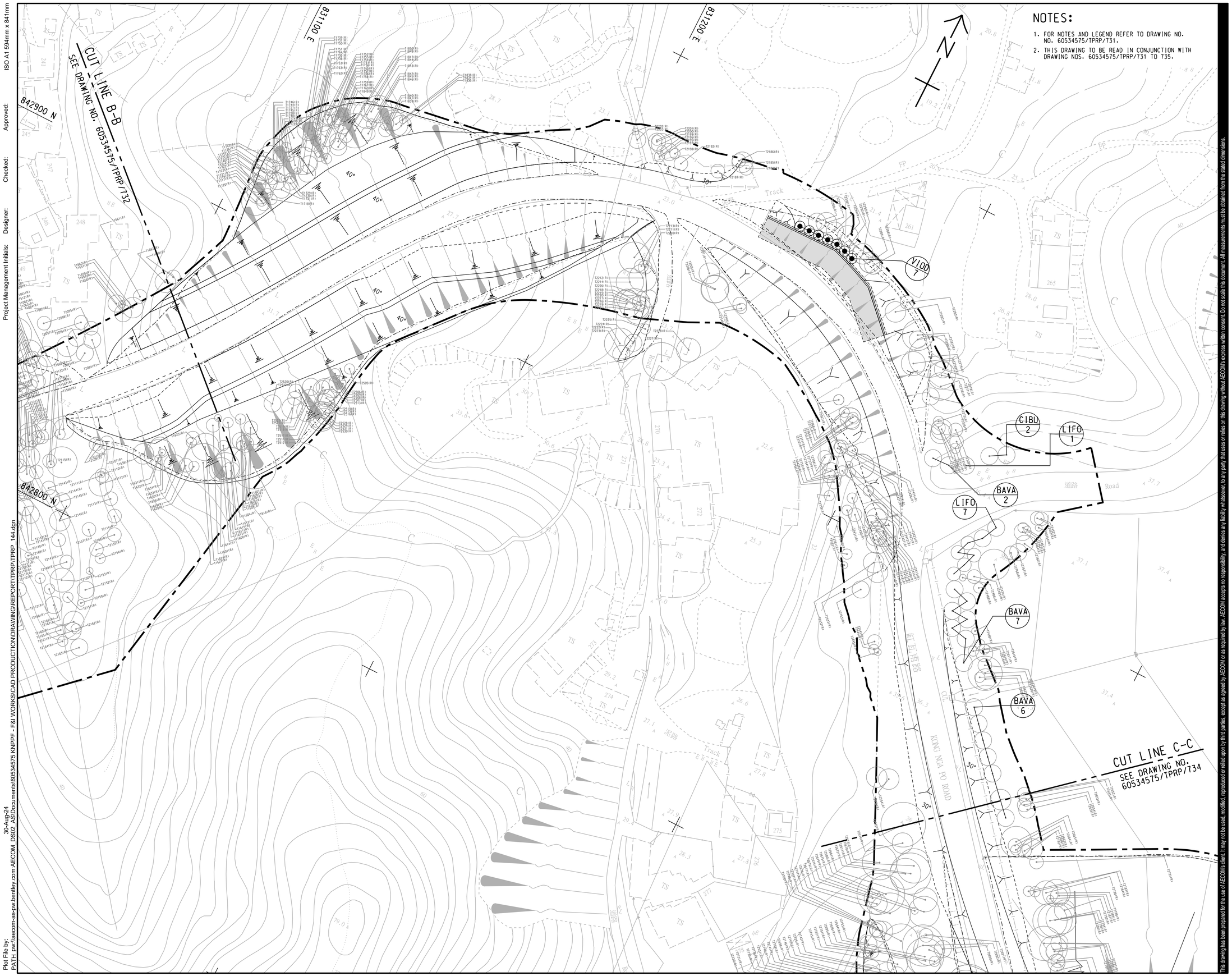
PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
TREE PLANTING PLAN

SHEET 2 OF 5

SHEET NUMBER 圖紙編號
60534575/TPRP/732



NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/TPRP/731.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/731 TO 735.

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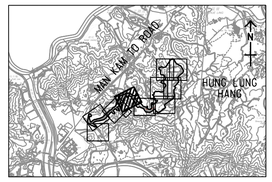
階段

SCALE 比例: A1 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號: 60534575

CONTRACT NO. 合約編號: CE 60/2016 (CE)

SHEET TITLE
圖紙名稱

TREE PLANTING PLAN

SHEET 3 OF 5

SHEET NUMBER
圖紙編號

60534575/TPRP/733

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30-Aug-24

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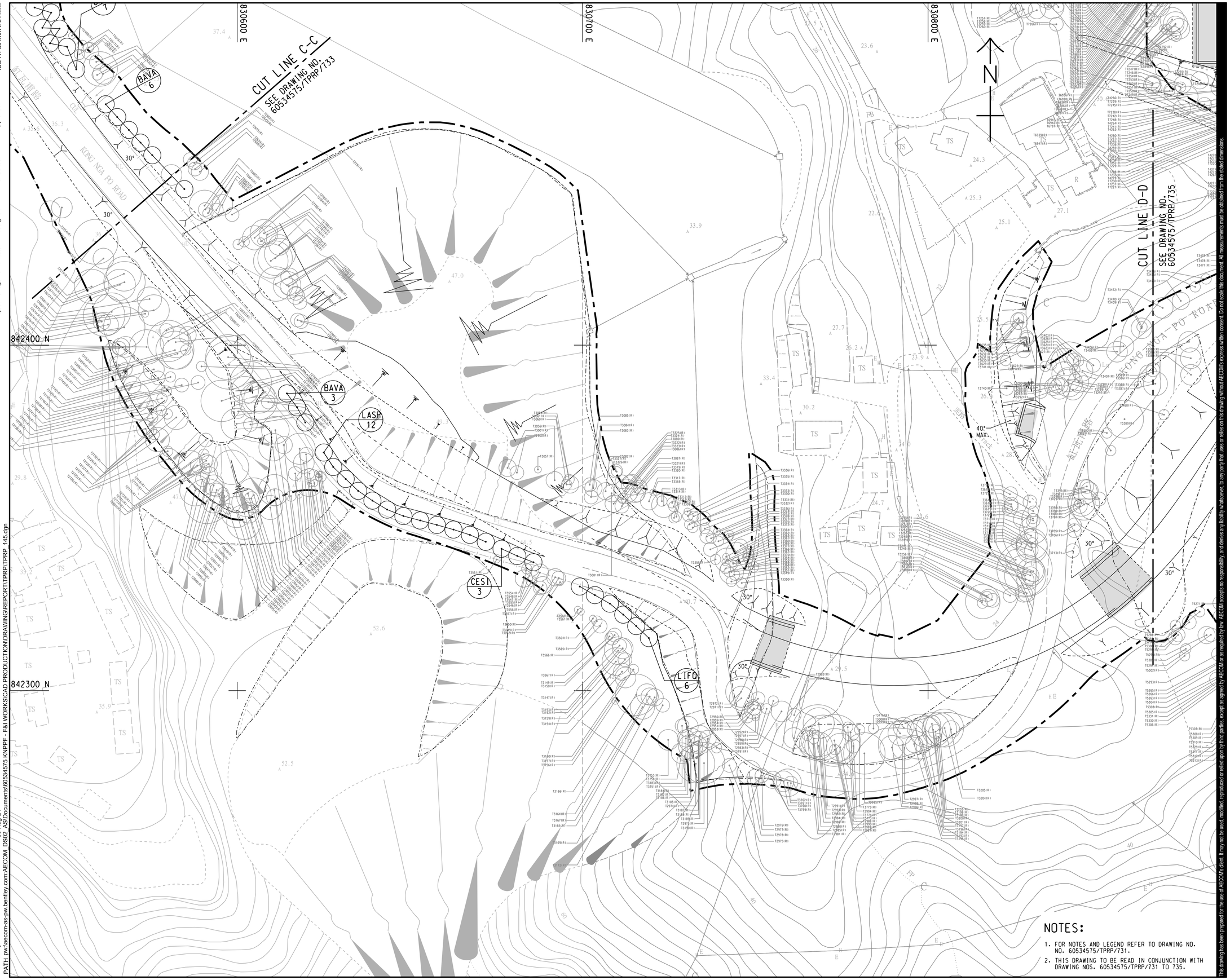

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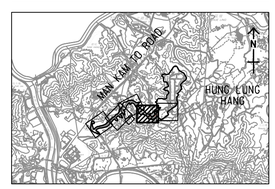
SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



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CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
TREE PLANTING PLAN

SHEET 4 OF 5

SHEET NUMBER 圖紙編號
60534575/TPRP/734

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Approved:

Checked:

Designer:

Project Management Initials:

831700 E

831800 E

831900 E

842900 N

842800 N

842700 N

CUT LINE D-D

SEE DRAWING NO. 60534575/TPRP/734

KONG NGA PO ROAD

BAVA 6

MICH 5

30°

養豬場
Pigsty

化糞池

泥路
Track

墓地
Graves

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/TPRP/731.
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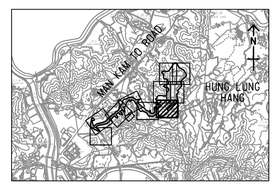
SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
TREE PLANTING PLAN

SHEET 5 OF 5

SHEET NUMBER 圖紙編號
60534575/TPRP/735

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

HEAVY & LIGHT STANDARD TREE PLANTING SCHEDULE

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm)	SPACING (mm)	QUANTITY
TREES					
BAVA	*Bauhinia variegata*	宮粉洋蹄甲	HEAVY STANDARD	5000	24
CESI	*Celtis sinensis*	朴樹	HEAVY STANDARD	5000	5
CIBU	*Cinnamomum burmannii*	陰香	HEAVY STANDARD	5000	2
CRAT	*Crateva unilocularis*	樹頭菜	HEAVY STANDARD	5000	3
KOBI	*Koelreuteria bipinnata*	複羽葉欒樹	HEAVY STANDARD	5000	8
LASP	*Lagerstroemia speciosa*	大葉紫薇	HEAVY STANDARD	5000	37
LIFO	*Liquidambar formosana*	楓香	HEAVY STANDARD	5000	14
MICH	*Michelia x alba*	白蘭	HEAVY STANDARD	5000	5
VIOD	*Viburnum odoratissimum*	珊瑚樹	LIGHT STANDARD	3000	7

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SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

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STATUS 階段

SCALE 比例
A1 AS SHOWN

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN 索引圖

PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
HEAVY & LIGHT STANDARD TREE PLANTING SCHEDULE

SHEET NUMBER 圖紙編號
60534575/TPRP/741

Appendix IV

Shrubs Planting Plan (with Existing and Proposed Slope Boundary Overlaid)

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

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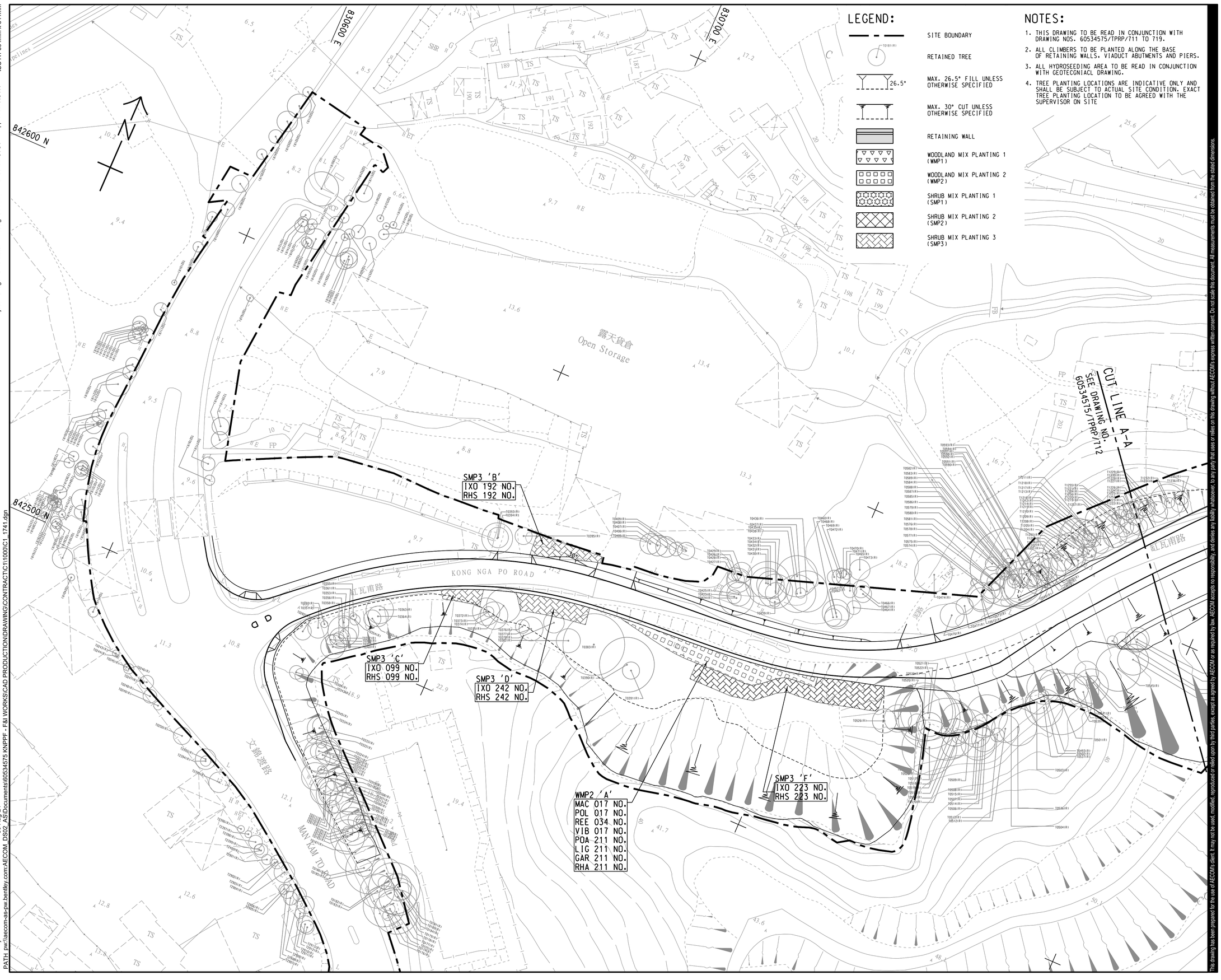

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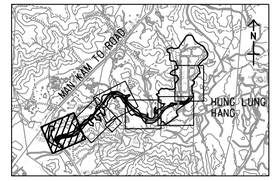
STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 30000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
SHRUB PLANTING PLAN

SHEET 1 OF 6

SHEET NUMBER 圖紙編號
60534575/TPRP/711A

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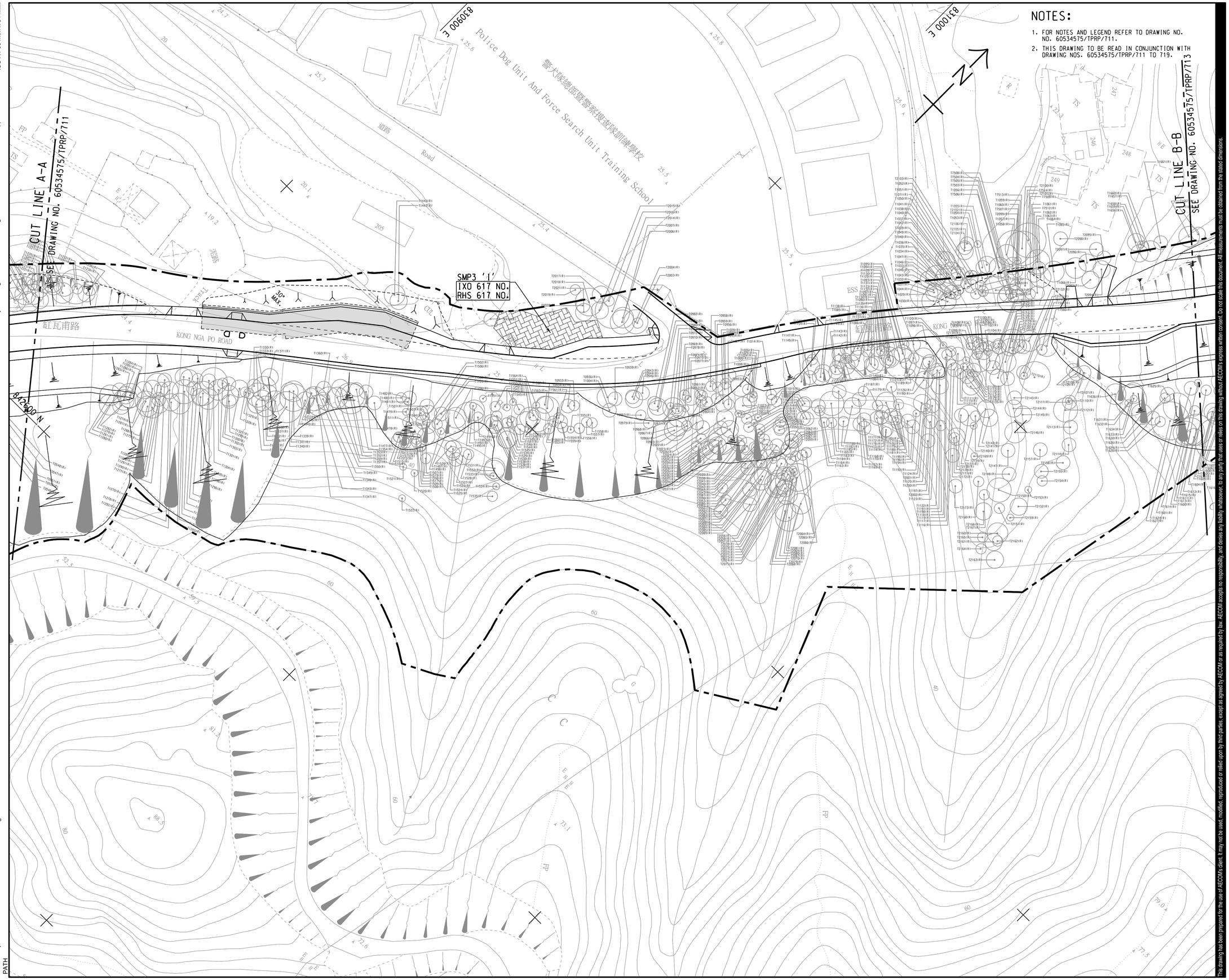

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SCALE 比例
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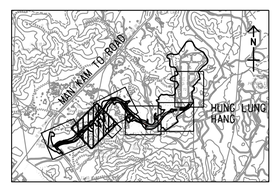
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 30000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱

SHRUB PLANTING PLAN

SHEET 2 OF 6

SHEET NUMBER 圖紙編號

60534575/TPRP/712A

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

NOTES:

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2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/711 TO 719.

831100 E

831200 E

842900 N

842800 N

CUT LINE B-B
SEE DRAWING NO. 60534575/TPRP/712

WMP2 'H'
MAC 005 NO.
POL 005 NO.
REE 010 NO.
VIB 005 NO.
POA 062 NO.
LIG 062 NO.
GAR 062 NO.
RHA 062 NO.

SMP3 'J'
IXO 180 NO.
RHS 180 NO.

SMP2 'E'
POA 355 NO.
LIG 355 NO.
GAR 355 NO.
RHA 355 NO.

SMP3 'L'
IXO 200 NO.
RHS 200 NO.

SMP3 'N'
IXO 634 NO.
RHS 634 NO.

SMP3 'O'
IXO 275 NO.
RHS 275 NO.

CUT LINE C-C
SEE DRAWING NO. 60534575/TPRP/714

KONG NGA PO ROAD

道路 Road

泥路 Track

30-Aug-24
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STATUS 階段

SCALE 比例
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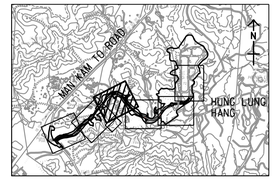
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 30000



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60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
SHRUB PLANTING PLAN

SHEET 3 OF 6

SHEET NUMBER 圖紙編號
60534575/TPRP/713A

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

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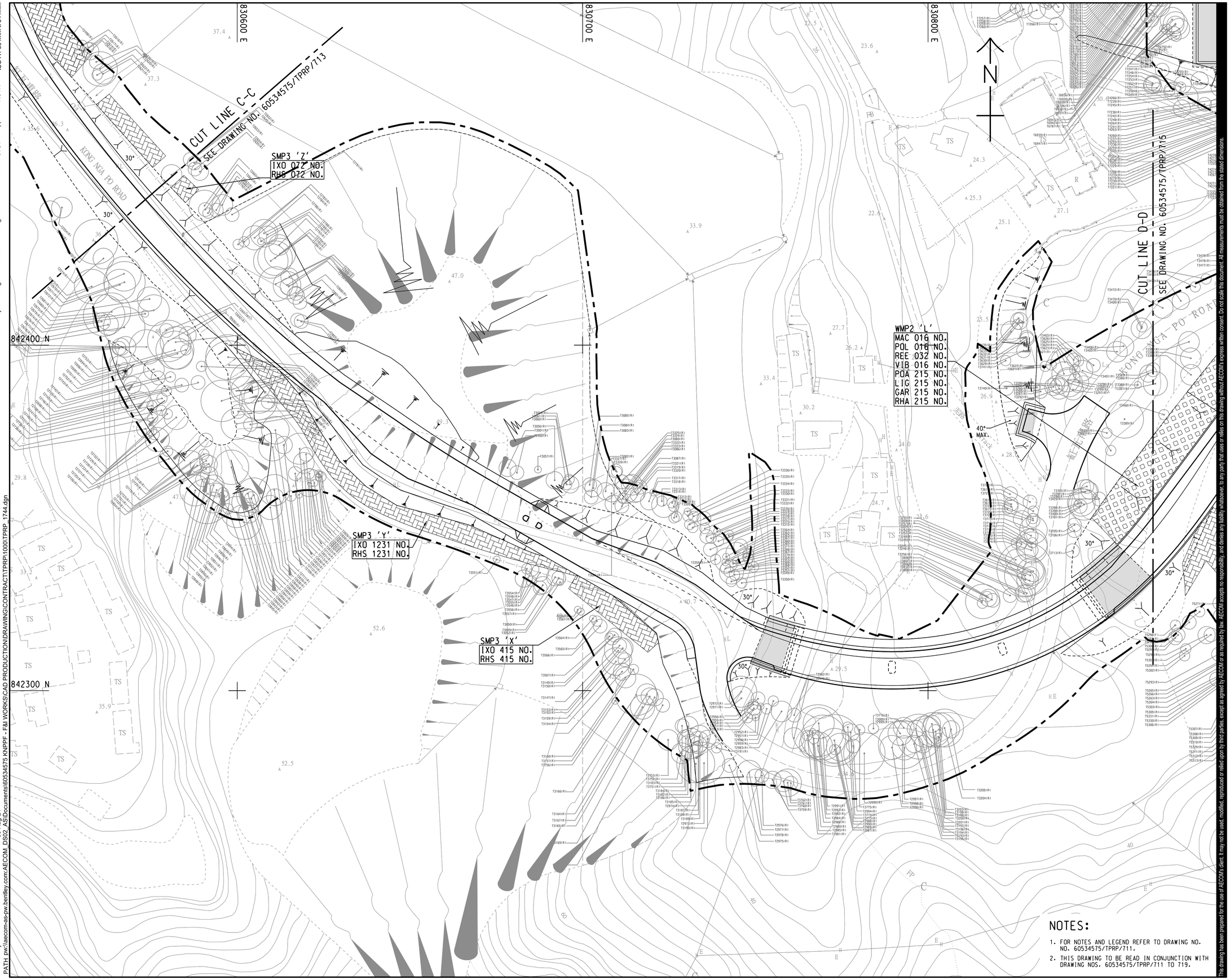

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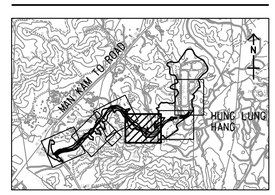
DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 30000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
SHRUB PLANTING PLAN

SHEET 4 OF 6

SHEET NUMBER 圖紙編號
60534575/TPRP/714A

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

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831700 E

831800 E

831900 E

842900 N

842800 N

842700 N

WMP2 'P'
MAC 074 NO.
POL 074 NO.
REE 148 NO.
VIB 074 NO.
POA 928 NO.
LIG 928 NO.
CAR 928 NO.
RHA 928 NO.

CUT LINE E-E
SEE DRAWING NOS. 60534575/TPRP/716 AND 717

CUT LINE D-D
SEE DRAWING NO. 60534575/TPRP/714

SMP3 'AC'
IXO 396 NO.
RHS 396 NO.

WMP1 'D'
BRI 008 NO.
PHY 008 NO.
FIC 008 NO.
POL 008 NO.
RHU 008 NO.
RHS 105 NO.
MEL 105 NO.
RHT 105 NO.
PSY 105 NO.

KONG NGA PO ROAD

養豬場
Pigsty

化糞池

泥路 Track

墓地
Graves

30°

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/TPRP/711.
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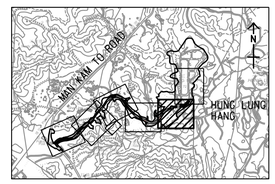
階段

SCALE
比例

DIMENSION UNIT
尺寸單位

KEY PLAN
索引圖



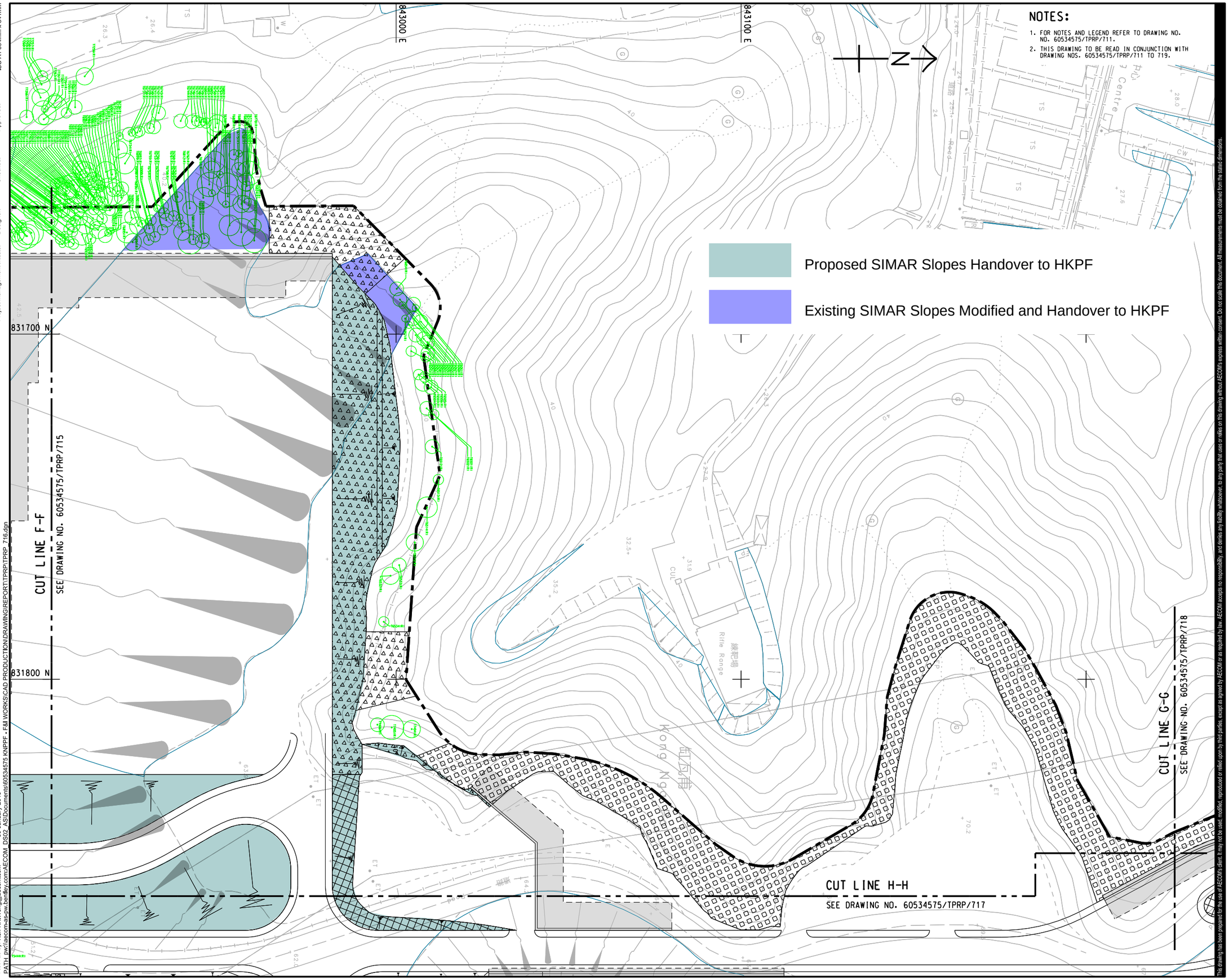
PROJECT NO.
項目編號
60534575

CONTRACT NO.
合約編號
CE 60/2016 (CE)

SHEET TITLE
圖紙名稱
SHRUBS PLANTING PLAN

SHEET NUMBER
圖紙編號
60534575/TPRP/715A

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



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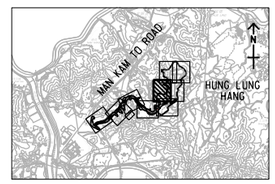
STATUS 階段

SCALE 比例 A1 1 : 500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 50000



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CONTRACT NO. 合約編號 CE 60/2016 (CE)

SHEET TITLE 圖紙名稱

SHRUBS PLANTING PLAN

SHEET 6 OF 9

SHEET NUMBER 圖紙編號

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ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

CUT LINE H-H
SEE DRAWING NO. 60534575/TPRP/716

CUT LINE G-G
SEE DRAWING NOS. 60534575/TPRP/718 AND 719

CUT LINE F-F
SEE DRAWING NO. 60534575/TPRP/715

833000 E

843100 E

843200 E

831900 N

832000 N

Proposed SIMAR Slopes Handover to HKPF

Existing SIMAR Slopes Modified and Handover to HKPF

Temporary Slopes

Existing SIMAR Slopes Modified and Handover to HyD

NOTES:

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2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/711 TO 719.

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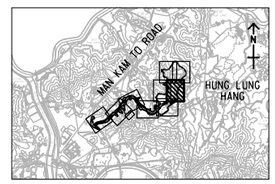
STATUS 階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



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60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
SHRUBS PLANTING PLAN

SHEET 7 OF 9

SHEET NUMBER 圖紙編號
60534575/TPRP/717

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

Proposed SIMAR Slopes Handover to HKPF

Existing SIMAR Slopes Modified and Handover to HKPF

843200 E

843300 E

843400 E

831800 N

831900 N

CUT LINE G-G
SEE DRAWING NOS. 60534575/TPRP/716 AND 717

CUT LINE J-J
SEE DRAWING NO. 60534575/TPRP/719

NOTES:

1. FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/TPRP/711.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/TPRP/711 TO 719.

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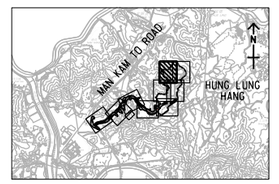
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS
階段

SCALE 比例
A1 1 : 500

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
SHRUBS PLANTING PLAN

SHEET 8 OF 9

SHEET NUMBER 圖紙編號
60534575/TPRP/718

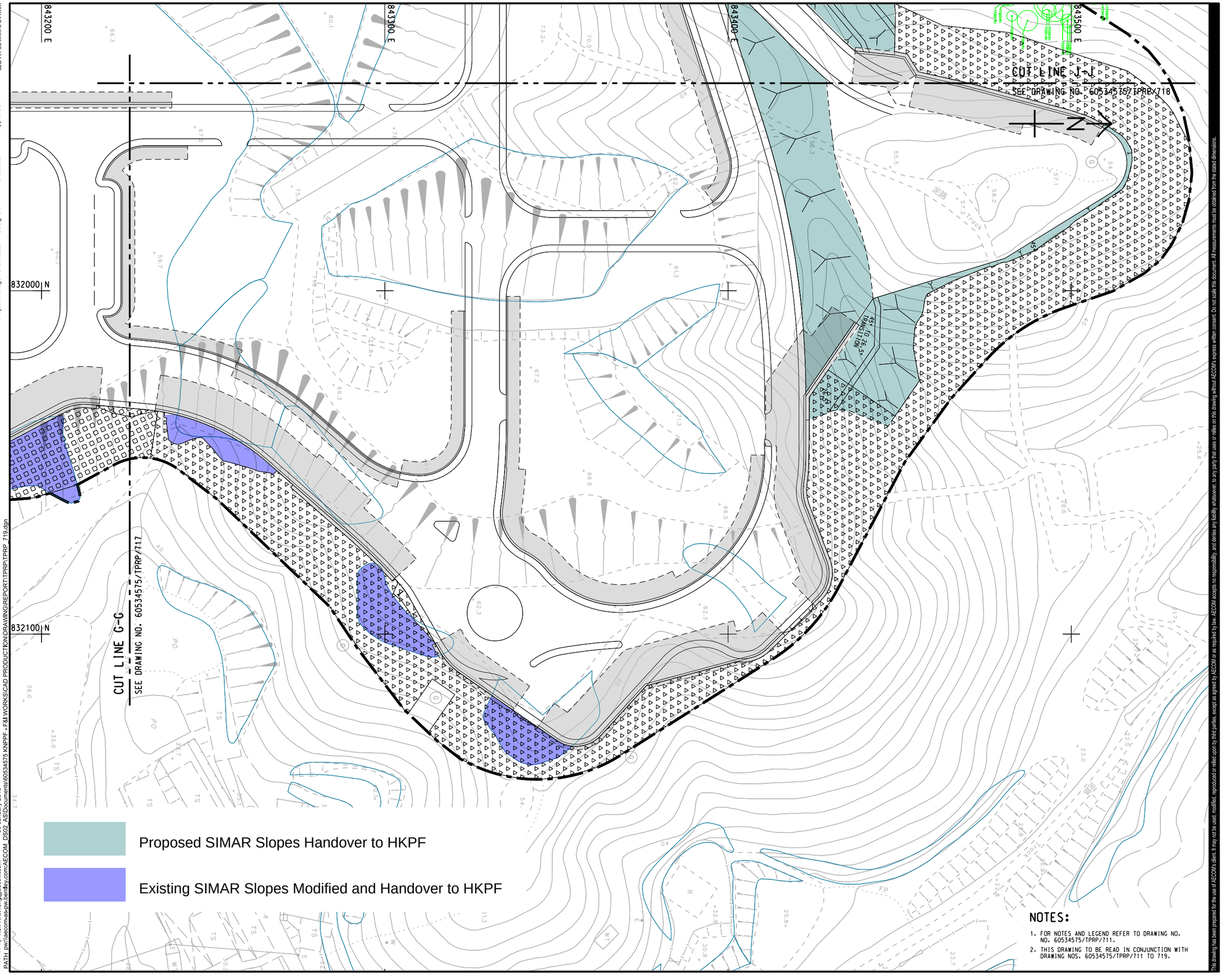
ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:



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PROJECT 項目

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - 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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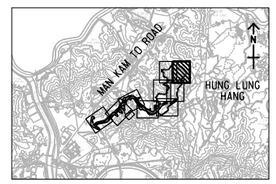
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS 階段

SCALE 比例 A1 1 : 500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號 60534575

CONTRACT NO. 合約編號 CE 60/2016 (CE)

SHEET TITLE 圖紙名稱

SHRUBS PLANTING PLAN

SHEET 9 OF 9

SHEET NUMBER 圖紙編號

60534575/TPRP/719

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

COMBINED SHRUB PLANTING SCHEDULE FOR CEDD AND ARSHSD CONTRAT

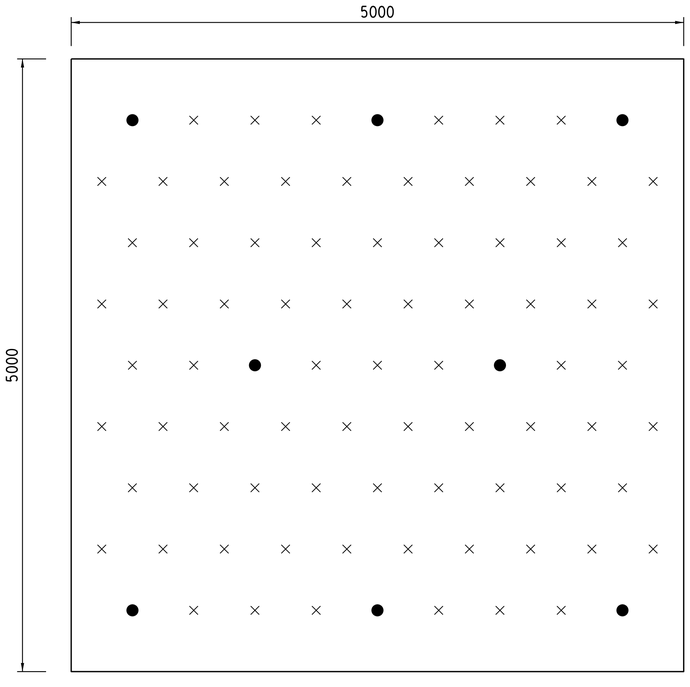
Woodland Mix Planting								
WMP1								
Key	Code	Botanical Name	Chinese Name	Size Height(H) x Spread (S)	Spacing (mm)	% mix	Quantity	Remark
•	BRI	*Bridelia tomentosa**	土密樹	whip tree	2000	20	849	Plant each species in groups of 10-20 in ramdom. Plant all Species in staggered pattern
•	PHY	*Phyllanthus emblica**	餘甘子	whip tree	2000	20	849	
•	FIC	*Ficus hispida**	對葉榕	whip tree	2000	20	849	
•	POL	*Polyspora axillaris**	大頭茶	whip tree	2000	20	849	
•	RHU	*Rhus succedanea**	野漆	whip tree	2000	20	849	
x	RHS	*Rhododendron simsii*	紅杜鵑	400(H) x 400(S)	500	25	10655	
x	MEL	*Melastoma sanguineum*	毛蒽	400(H) x 400(S)	500	25	10655	
x	RHT	*Rhodomyrtus tomentosa*	桃金娘/崗棯	400(H) x 400(S)	500	25	10655	
x	PSY	*Psychotria asiatica*	九節	400(H) x 400(S)	500	25	10655	
WMP2								
Key	Code	Botanical Name	Chinese Name	Size Height(H) x Spread (S)	Spacing (mm)	% mix	Quantity	
•	MAC	*Machilus breviflora*	短序潤楠	whip tree	2000	20	620	
•	POL	*Polyspora axillaris**	大頭茶	whip tree	2000	20	620	
•	REE	*Reevesia thyrsoidea**	梭羅樹	whip tree	2000	20	732	
•	VIB	*Viburnum odoratissimum**	珊瑚樹	whip tree	2000	20	620	
•	CRA	*Cratoxylum cochinchinense**	黃牛木	whip tree	2000	20	508	
x	POA	*Polyspora axillaris*	大頭茶	400(H) x 400(S)	500	25	7794	
x	LIG	*Ligustrum sinense*	山指甲	400(H) x 400(S)	500	25	7794	
x	GAR	*Gardenia jasminoides*	梔子	400(H) x 400(S)	500	25	7794	
x	RHA	*Rhaphiolepis indica*	石斑木	400(H) x 400(S)	500	25	7794	

* native species

Shrubs Mix Planting							
SMP1							
Botanical Name	Code	Chinese Name	Size Height(H) x Spread (S)	Spacing (mm)	% mix	Quantity	Remark
Rhododendron simsii	RHS	紅杜鵑	400(H) x 400(S)	500	25	380	Plant each species in groups of 10-20 in ramdom. Plant all species in staggered pattern
Melastoma sanguineum	MEL	毛蒽	400(H) x 400(S)	500	25	380	
Rhodomyrtus tomentosa	RHT	桃金娘/崗棯	400(H) x 400(S)	500	25	380	
Psychotria asiatica	PSY	九節	400(H) x 400(S)	500	25	380	
SMP2							
Polyspora axillaris	POA	大頭茶	400(H) x 400(S)	500	25	9522	Plant each species in groups of 10-20 in ramdom. Plant all species in staggered pattern
Ligustrum sinense	LIG	山指甲	400(H) x 400(S)	500	25	9522	
Gardenia jasminoides	GAR	梔子	400(H) x 400(S)	500	25	9522	
Rhaphiolepis indica	RHA	石斑木	400(H) x 400(S)	500	25	9522	
SMP3							
*Ixora chinensis**	IXO	龍船花	450(H) x 300(S)	500	50	10593	Plant each species in groups of 10-20 in ramdom. Plant all species in staggered pattern
*Rhododendron simsii**	RHS	紅杜鵑	400(H) x 400(S)	500	50	10593	

Climbers							
Parthenocissus dalzielii	PAR	爬牆虎	Min. 3 shoots per plant, 1000mm long	300	100	53	Plant all species along the abutment and wall

* native species



INDICATIVE LAYOUT OF PLANTING MATRIX FOR WOODLAND MIX PLANTING FOR KEY TO CODE, SEE PLANTING SCHEDULE
SCALE 1 : 25

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PROJECT
項目
SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

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

CONSULTANT
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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	AUG. 24	GENERAL REVISION	

STATUS
階段

SCALE 比例: A1 AS SHOWN
DIMENSION UNIT 尺寸單位: MILLIMETRES

KEY PLAN
索引圖

PROJECT NO. 項目編號: 60534575
CONTRACT NO. 合約編號: CE 60/2016 (CE)

SHEET TITLE
圖紙名稱
SHRUB PLANTING PLAN

SHEET NUMBER
圖紙編號
60534575/TPRP/720

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

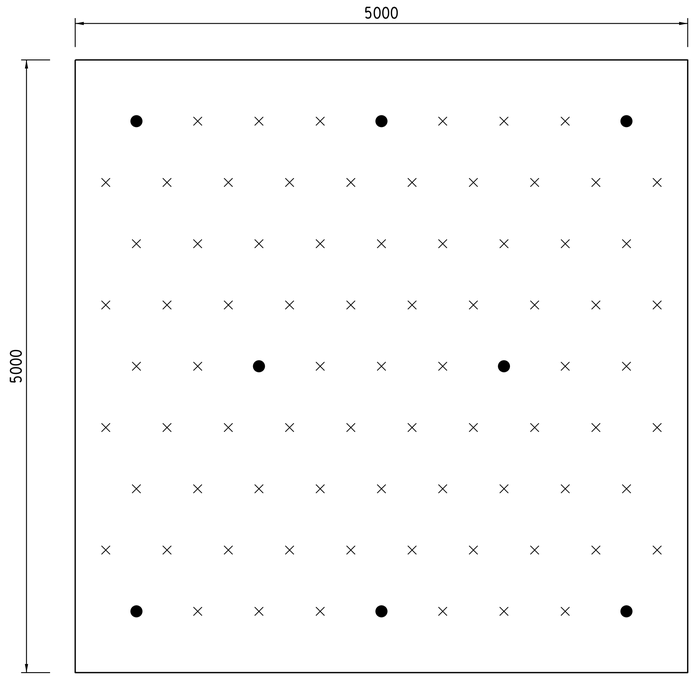
SHRUB PLANTING SCHEDULE FOR CEDD CONTRACT ONLY

WOODLAND MIX PLANTING

WMP1							
KEY	CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT(H) x SPREAD (S)	SPACING (mm)	QUATITY(NO)	REMARK
•	BRI	*Bridelia tomentosa*	土密樹	WHIP TREE	2000	8	PLANT EACH SPECIES IN GROUPS OF 10-20 IN RAMDOM. PLANT ALL SPECIES IN STAGGERED PATTERN
•	PHY	*Phyllanthus emblica*	餘甘子	WHIP TREE	2000	8	
•	FIC	*Ficus hispida*	對葉榕	WHIP TREE	2000	8	
•	POL	*Polyspora axillaris*	大頭茶	WHIP TREE	2000	8	
•	RHU	*Rhus succedanea*	野漆	WHIP TREE	2000	8	
x	RHS	*Rhododendron simsii*	紅杜鵑	400(H) x 400(S)	500	105	
x	MEL	*Melastoma sanguineum*	毛菍	400(H) x 400(S)	500	105	
x	RHT	*Rhodomyrtus tomentosa*	桃金娘/崗稔	400(H) x 400(S)	500	105	
x	PSY	*Psychotria asiatica*	九節	400(H) x 400(S)	500	105	
WMP2							
•	MAC	*Machilus breviflora*	短序潤楠	WHIP TREE	2000	112	
•	POL	*Polyspora axillaris*	大頭茶	WHIP TREE	2000	112	
•	REE	*Reevesia thyrsoidea*	梭羅樹	WHIP TREE	2000	112	
•	VIB	*Viburnum odoratissimum*	珊瑚樹	WHIP TREE	2000	112	
x	POA	*Polyspora axillaris*	大頭茶	400(H) x 400(S)	500	1416	
x	LIG	*Ligustrum sinense*	山指甲	400(H) x 400(S)	500	1416	
x	GAR	*Gardenia jasminoides*	梔子	400(H) x 400(S)	500	1416	
x	RHA	*Rhaphiolepis indica*	石斑木	400(H) x 400(S)	500	1416	

SHRUBS MIX PLANTING

SMP1						
CODE	BOTANICAL Name	CHINESE NAME	SIZE (mm) HEIGHT(H) x SPREAD (S)	SPACING (mm)	QUANTITY(NO)	REMARK
RHS	*Rhododendron simsii*	紅杜鵑	400(H) x 400(S)	500	105	PLANT EACH SPECIES IN GROUPS OF 10-20 IN RAMDOM. PLANT ALL SPECIES IN STAGGERED PATTERN
MEL	*Melastoma sanguineum*	毛菍	400(H) x 400(S)	500	105	
RHT	*Rhodomyrtus tomentosa*	桃金娘/崗稔	400(H) x 400(S)	500	105	
PSY	*Psychotria asiatica*	九節	400(H) x 400(S)	500	105	
SMP2						
POA	*Polyspora axillaris*	大頭茶	400(H) x 400(S)	500	355	
LIG	*Ligustrum sinense*	山指甲	400(H) x 400(S)	500	355	
GAR	*Gardenia jasminoides*	梔子	400(H) x 400(S)	500	355	
RHA	*Rhaphiolepis indica*	石斑木	400(H) x 400(S)	500	355	
SMP3						
IXO	*Ixora chinensis*	龍船花	450(H) x 300(S)	500	4,776	
RHS	*Rhododendron simsii*	紅杜鵑	400(H) x 400(S)	500	4,776	



INDICATIVE LAYOUT OF PLANTING MATRIX FOR WOODLAND MIX PLANTING FOR KEY TO CODE, SEE PLANTING SCHEDULE
SCALE 1 : 25

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PROJECT 項目

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

CLIENT 業主

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STATUS 階段

SCALE 比例
A1 AS SHOWN

DIMENSION UNIT 尺寸單位
MILLIMETRES

KEY PLAN 索引圖

PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
CE 60/2016 (CE)

SHEET TITLE 圖紙名稱
WHIPS & SHRUB PLANTING SCHEDULE

SHEET NUMBER 圖紙編號
60534575/TPRP/721

Appendix V

Detailed Summary Table for Visual Enhancement and Landscape Mitigation Measures

Table 3.1a: Construction Phase Mitigation Measures (Supplementary)

ID No.	Construction Phase Mitigation Measures	Mitigation Landscape Impacts	Mitigation Visual Impacts	Implementation Department	Implementation Agency	Management Agency	Maintenance Agency
CM01	**Tree protection and preservation** Trees / woodland within the Project Site which are unaffected by the works shall be protected and preserved during the detailed design stage and construction phase. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at the detailed design stage for further retention of individual trees. The preservation of existing tree shall provide instant greening and screening effect for proposed works. Tree protection works will be undertaken in accordance with DEVB TC(W) 7/2015 on "Tree Preservation" and tree risk assessment in accordance with "Guidelines for Tree Risk Assessment and Management Arrangement" by DEVB.	√		CEDD/ArchSD	Contractor	Contractors during construction	Contractors during construction
CM02	**Tree transplantation** If removal of trees unavoidable due to construction impacts, trees will be transplanted where technically feasible in accordance with "Guidelines on Tree Transplanting" by DEVB and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit where applicable.	√	√	CEDD	Contractor	Contractors during construction	Contractors during construction

CM03	**Work area and temporary works area** Construction area control, where possible, to ensure that the landscape and visual impacts arising from the construction activities are minimised. This includes the reduction of the extent and location of working areas to avoid sensitive LRs, siting of offices or temporary structures so that they are not visually prominent, and consideration of detailed schedules to shorten the construction period. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and areas of earthworks to alleviate the potential impacts and minimise soil erosion.	√	√	CEDD/ArchSD	Contractor	Contractors during construction	Contractors during construction
CM04	**Advance implementation of mitigation planting** Replanting of existing / disturbed vegetation shall be undertaken as soon astechnically feasible during the construction phase. The priority shall be areas at the periphery of the site to ensure that proposed planting fulfils its role in mitigating the predicted impacts including screening views of the proposals as early as possible during the operation phase.	√	√	CEDD/ArchSD	Contractor	Contractors during construction	Contractors during construction
CM05	**Decorative screen hoarding** Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used.		√	CEDD/ArchSD	Contractor	Contractors during construction	Contractors during construction

Table 3.2a: Operation Phase Mitigation Measures (Supplementary)

ID No.	Operation Phase Mitigation Measures	Mitigation Landscape Impacts	Mitigation Visual Impacts	Implementation Department	Implementation Agency	Management Agency	Maintenance Agency
OM01	**Detail design considerations** Detailed design of development components should reduce landscape footprint and visibility of structures. The area allowed for any development components should be reduced to a practical minimum.	√	√	CEDD (along KNP Road where applicable and slopes within KNP Police Facilitate Site) / ArchSD (within KNP Police Facilitate Site)	Detailed Designers / Consultants	N/A	N/A
OM02	**Aesthetically pleasing design and responsive design of buildings and structures** The form, textures, finishes and colours of the proposed development components should be compatible with the existing surroundings. Light earthy tone colours such as shades of green, grey, brown and off-white may be utilised where technically feasible to reduce the visibility of the development components, including all roadwork, buildings and noise barriers etc. To further improve visual amenity, natural building materials such as stone and timber, should be preferably adopted for architectural features, where technically feasible. The proposed use of a responsive design for the disposition of the main elements of the proposed scheme including the locations of buildings and utility structures. Grouping of utilities and infrastructure components into proposed buildings as far as technically feasible to reduce the mass of development. The disposition and height profile of the developments and above ground utilities structures to respond to the existing context	√	√	ArchSD	Detailed Designers / Consultants	N/A	N/A

	particularly the existing landform and preserved trees. Proposals designed to minimise the 'wall effects' and create a subtle transition at the edges of the site where it meets the rural landscape. Measures may include the creation of setbacks, articulating the development frontage and maintenance of view corridors to enhance the sense of visual integration with the existing context, avoid abrupt transitions between the existing and proposed built environment and reduce the apparent visual mass of the proposed developments.						
OM03	**Design of engineering structure** The design of the proposed Engineering Structures such as the proposed road layout and any ancillary structures including the sewage pumping station and the Ma Tso Lung Firing Range should pay particular attention to the appearance and construction methods. The detailed design landscape consultants shall work in unison with the engineers on the aesthetic aspects of the structures and their relationship with the landscape. The design of engineering structures shall avoid any unnecessary visual clutter achieved through the co-ordination of the various engineering disciplines involved to arrive at integrated design solutions.	√	√	CEDD	Detailed Designers / Consultants	N/A	N/A
OM04	**Design of retaining walls and slopes** The proposed treatment of Retaining Wall and Slopes will be undertaken in accordance with GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment and Bioengineering for Man-made Slopes and Retaining Walls". These engineering structures will be aesthetically enhanced through the use of soft landscape works including tree and shrub planting to give man-made slopes a	√	√	CEDD	Detailed Designers / Consultants	N/A	N/A

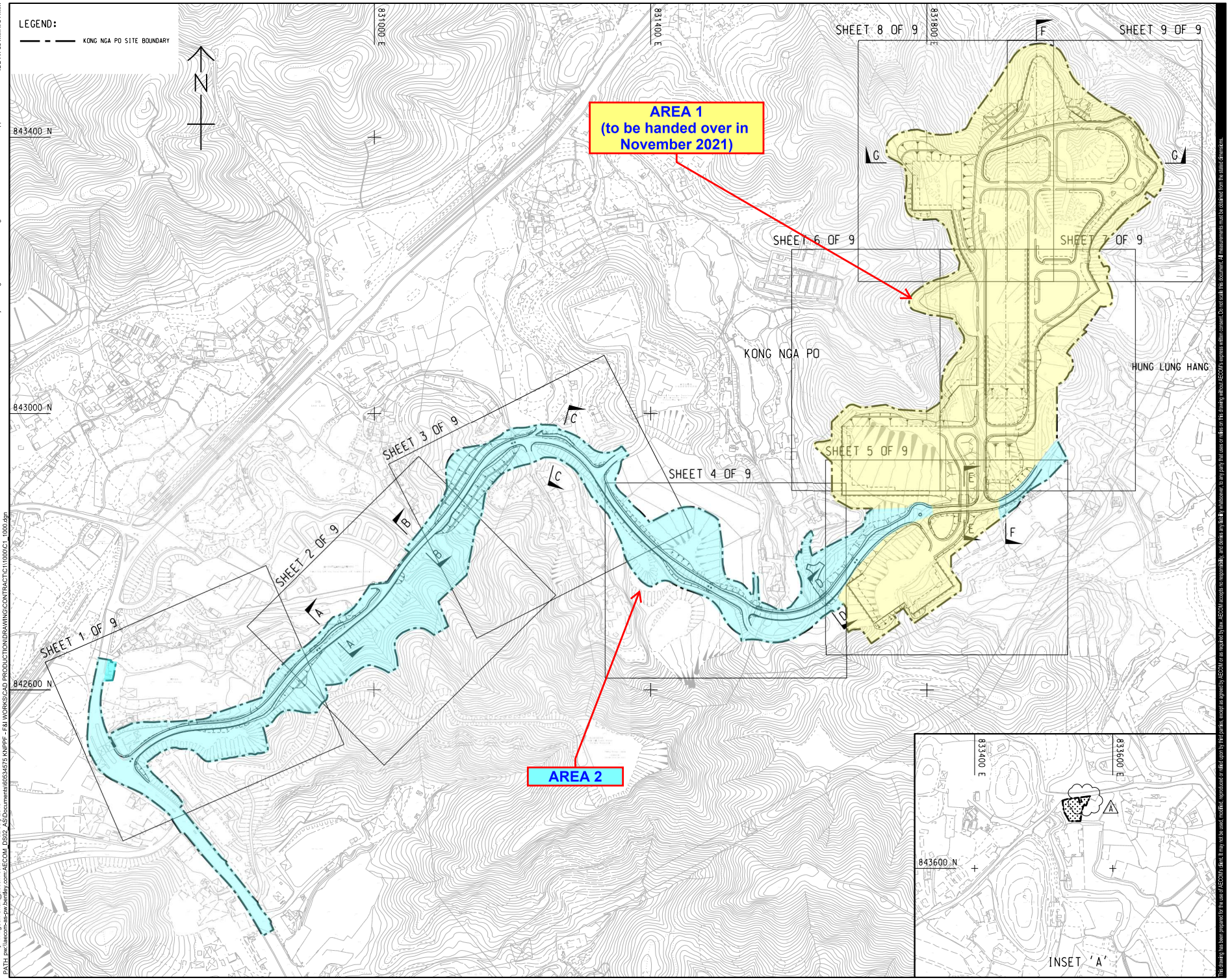
	more natural appearance blending into the local rural landscape.						
OM05	**Compensatory planting proposal** All compensatory planting of trees is to be carried out in accordance with DEVB TCW No. 7/2015. A total woodland compensation area of 5.54 ha is proposed. The planting proposals will utilise largely native species in accordance with GLTM/DEVB's - Guiding Principles on Use of Native Plant Species in Public Works Projects, Some compensatory shrub and ground cover planting will also be provided within the woodland area to create a more structurally diverse woodland. 5,869 nos. new trees will be planted as compensation including some 4,317 nos. will be planted within the Project site, 1,400 nos. alongside KNP Road, and 152 nos. to compensate for the existing dead trees to be removed. Woodland areas will utilise a combination of large sized tree stock (including heavy standard sized trees) and whip sized trees to create a more naturalistic effect and screen views of the new structures and buildings. Whip sized tree planting is preferred on the face of soil cut slopes and for general woodland areas where screening is not a priority. The smaller, younger plant stock will adapt to their new growing conditions more quickly than larger sized stock and establish a naturalistic effect more rapidly. Roadside and amenity planting will utilise largely heavy standard sized trees.	√		CEDD	Contractors	Project site: HKPF Kong Nga Po Road: HyD	Project site: Term contractor employed by HKPF Kong Nga Po Road: LCSD / HyD

OM06	**Landscape buffer tree planting** Tree planting using larger sized tree stock shall be provided to screen the proposed structures and associated facilities if there is no site constraint. Wherever possible the planting will utilize native species. This measure will form part of the compensatory planting and will improve compatibility with the surrounding environment and create a pleasant pedestrian environment.	√	√	CEDD (along KNP Road where applicable and slopes within KNP Police Facilitate Site) / ArchSD (within KNP Police Facilitate Site)	Contractors	Project site: HKPF Kong Nga Po Road: HyD	Project site: Term contractor employed by HKPF Kong Nga Po Road: LCSD / HyD
OM07	**Roadside and amenity planting (within KNP Police Facilitate Site)** Roadside and amenity planting using predominantly native species shall be provided, to enhance the landscape and visual quality of the existing and proposed transport routes and car parks.	√	√	ArchSD	Contractors	HKPF	Term contractor employed by HKPF
OM08	**Grassland (ecological mitigation)** Creation of new grassland areas approximately 1.02 ha in size. Inclusion of common grass species Ischaemum barbatum and Zanthoxylum nitidum (the larval food plants for butterfly species).	√	√	CEDD (along KNP Road where applicable and slopes within KNP Police Facilitate Site) / ArchSD (within KNP Police Facilitate Site)	Contractors	HKPF	Term contractor employed by HKPF
OM09	**Green roof (within KNP Police Facilitate Site)** Green roofs predominantly using native species shall be introduced where technically feasible on proposed buildings to reduce exposure of untreated concrete surfaces; enhance the sustainability of the design and mitigate visual impact to VSRs at high levels. Location and extent of green roof subject to detailed design.	√	√	ArchSD	Contractors	HKPF	Term contractor employed by HKPF

OM10	**Vertical greening** Vertical planting shall be introduced using predominantly native species to soften the hard, vertical surfaces of the proposed development components including the walls of the proposed buildings and retaining walls. Planting to utilise climbing and trailing plants. Location and extent of vertical greening subject to detailed design. Alternatively, random stone pattern can be applied on the retaining wall/abutment to simulate a natural vertical face.	√	√	CEDD (along KNP Road where applicable) / ArchSD (within KNP Police Facilitate Site)	Contractors	Project site: HKPF Along Kong Nga Po Road: HyD	Term contractor employed by HKPF Kong Nga Po Road: LCSD / HyD
OM11	**Green paving (within KNP Police Facilitate Site)** Where technically feasible utilise a green paving approach such as grass-crete or grass-grid to maximise the area of planting and reduce the area of hard paving. Location and extent of green paving subject to detailed design. This includes the use of permeable paving where grass-crete / grass grid is not practicable.	√		ArchSD	Contractors	HKPF	Term contractor employed by HKPF
OM12	**Light control (operation)** Street and night time lighting glare will be controlled to minimize glare impact to adjacent VSRs during the operation stage.		√	HKPF (within Project Site) / HyD (along KNP Road)	Contractors	For buildings, structures and internal roads – HKPF For external roads – HyD	For buildings, structures and internal roads – Contractor / ArchSD For external roads – HyD

Appendix VI

Implementation Programme of the Landscaping Works



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

Plot File by: WingSan Chan@aecom.com 02-July-2019
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AECOM

PROJECT
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CONTRACT TITLE

SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO

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修訂

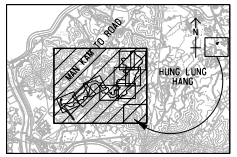
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對
A	JUL. 19	TENDER ADDENDUM NO.1	SCWC
-	JUN. 19	TENDER DRAWING	SCWC

STATUS
階段

SCALE 比例
A1 1 : 2500

DIMENSION UNIT 尺寸單位

KEY PLAN 索引圖 A1 1 : 50000



PROJECT NO. 項目編號
60534575

CONTRACT NO. 合約編號
ND/2018/01

SHEET TITLE 圖紙名稱
KEY PLAN AND LOCATION PLAN

SHEET NUMBER 圖紙編號
60534575/C1/1000A

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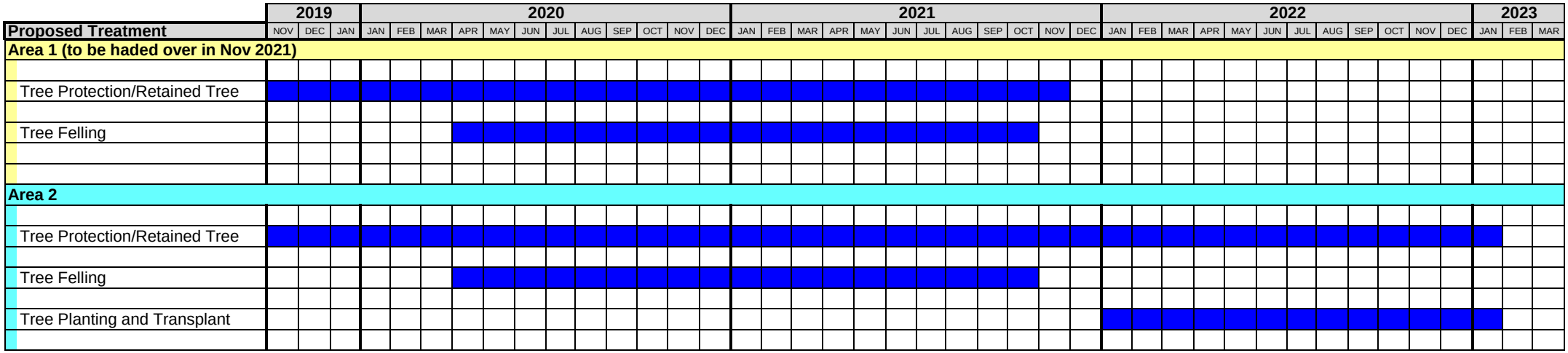
ND/2018/01 - Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Implementation for Proposed Treatment for Landscape Works



[Enclosures Available in Hardcopy Version]

Appendix VII

Record of No Comments from the Authorities on Relevant Submissions

[Enclosures Available in Hardcopy Version]

Appendix VIII

Record of No Comments from the Management and Maintenance Authorities

Appendix IX

Approved Plans of Mitigation Measures

ID No.	Mitigation Measure
CM01	Tree Protection and Preservation
CM02	Tree Transplantation
CM03	Work Area and Temporary Works Area
CM04	Advance Implementation of Mitigation Planting
CM05	Decorative Screen Hoarding*
OM01	Detailed Design Considerations
OM02	Aesthetically Pleasing Design and Responsive Design of Buildings and Structures
OM03	Design of Engineering Structures
OM04	Design of Retaining Walls and Slopes
OM05	Compensatory Planting Proposals
OM06	Landscape Buffer Tree Planting
OM07	Roadside and Amenity Planting
OM08	Grassland (Ecological Mitigation)
OM09	Green Roof**
OM10	Vertical Greening**
OM11	Green Paving**
OM12	Light Control (Operation)

*Decorative screen hoarding will be constructed along the construction works close to visually sensitive receivers during the construction phase of the works to screen undesirable views of the construction site. The actual hoarding location will be subject to detailed design.

**The greening of structures is indicative only. The actual planting areas will be subject to detailed design.



LEGEND:

- PROPOSED KONG NGA PO DEVELOPMENT AREA
- PROPOSED KONG NGA PO ROAD IMPROVEMENT WORKS
- PROPOSED BUILDINGS AND STRUCTURES
- HEIGHT OF PROPOSED BUILDINGS (NUMBER OF STOREYS)
- INTERNAL CIRCULATION ROADS
- PARKING PROVISION
- PROPOSED ROCK CUT SLOPE
- PROPOSED CUTTING SLOPE
- PROPOSED FILLING SLOPE
- EXISTING PLANTATION AND SECONDARY WOODLAND WITHIN THE PROJECT BOUNDARY
- EXISTING PLANTATION AND SECONDARY WOODLAND OUTSIDE THE PROJECT BOUNDARY
- PROPOSED LANDSCAPE BUFFER PLANTING
- PROPOSED SHRUB–GRASSLAND PLANTING
- PROPOSED LAWN
- PROPOSED ROADSIDE AND AMENITY PLANTING
- PROPOSED BUILDING AND STRUCTURES
- PROPOSED GREEN PAVING

REMARK:
THE LAYOUT AND MITIGATION MEASURES SHOWN IN THE KNP DEVELOPMENT AREA ARE INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN AND IMPLEMENTATION BY OTHERS.

Client

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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE 60/2016 (CE) SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

Title

LANDSCAPE AND VISUAL MITIGATION MEASURES - PLAN

Drawing Number

FIGURE 10-21

SOIL FILL SLOPE
CM01,CM03,OM08

RETAINING WALL(<3M IN HEIGHT)
OM04

PROPOSED LANDSCAPE BUFFER PLANTING
CM03,CM04,OM05,OM06

CUT SLOPE AT HIGHTLY DECOMPOSED ROCK MATERIAL
CM03,OM08

SOIL FILL SLOPE
CM01,CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

MATCH LINE

CUT SLOPE AT HIGHTLY DECOMPOSED ROCK MATERIAL
CM03,OM08

PROPOSED LANDSCAPE BUFFER PLANTING
CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

SOIL FILL SLOPE
CM01,CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

SOIL FILL SLOPE
CM01,CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

ROCK CUT SLOPE
CM03

PROPOSED LANDSCAPE BUFFER PLANTING
CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

ROCK CUT SLOPE
CM01,CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

PROPOSED LANDSCAPE BUFFER PLANTING
CM03,CM04,OM05,OM06

SOIL FILL SLOPE
CM03,CM04,OM05

RETAINING WALL(3-6M IN HEIGHT)
OM04,OM08

RETAINING WALL(<3M IN HEIGHT)
OM04,OM08

SOIL FILL SLOPE
CM01,CM03,CM04,OM08

MATCH LINE

RETAINING WALL(3-6M IN HEIGHT)
OM04,OM08

RETAINING WALL(3-6M IN HEIGHT)
OM04,OM07

EXISTING PLANTATION WOODLAND
CM01

RETAINING WALL(3-6M IN HEIGHT)
OM04,OM07

+72.0
1

+66.0
2

ID No.	Mitigation Measure
CM01	Tree Protection and Preservation
CM02	Tree Transplantation
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OM10	Vertical Greening**
OM11	Green Paving**
OM12	Light Control (Operation)

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**The greening of structures is indicative only. The actual planting areas will be subject to detailed design.

HEIGHT OF RETAINING STRUCTURE:
(OUTSIDE THE DEVELOPMENT AREA AND ALONG IMPROVED KONG NGA PO ROAD)

	LENGTH:
< 3M	655M
3 TO 6M	318M

0 10 20 30 40 50m
1 : 1 000 SCALE BAR

LEGEND:

- PROPOSED KONG NGA PO DEVELOPMENT AREA
- PROPOSED KONG NGA PO ROAD IMPROVEMENT WORKS
- PROPOSED BUILDINGS AND STRUCTURES
- HEIGHT OF PROPOSED BUILDINGS (NUMBER OF STOREYS)
- INTERNAL CIRCULATION ROADS
- PARKING PROVISION
- PROPOSED ROCK CUT SLOPE
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- PROPOSED LAWN
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- PROPOSED BUILDING AND STRUCTURES
- PROPOSED GREEN PAVING

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Project

AGREEMENT NO. CE 60/2016 (CE) SITE FORMATION AND INFRASTRUCTURE WORKS FOR POLICE FACILITIES IN KONG NGA PO - DESIGN AND CONSTRUCTION

Title

LANDSCAPE AND VISUAL MITIGATION MEASURES - PLAN

Drawing Number

APPENDIX XI

$FILE$ DATE: $DATE$ TIME: $TIME$ USER: $USER$

ID No.	Mitigation Measure
CM01	Tree Protection and Preservation
CM02	Tree Transplantation
CM03	Work Area and Temporary Works Area
CM04	Advance Implementation of Mitigation Planting
CM05	Decorative Screen Hoarding*
OM01	Detailed Design Considerations
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**The greening of structures is indicative only. The actual planting areas will be subject to detailed design.

CUT SLOPE AT HIGHTLY DECOMPOSED ROCK MATERIAL
CM03,OM08

MATCH LINE

EXISTING PLANTATION WOODLAND
CM01

EXISTING PLANTATION WOODLAND
CM01

PROPOSED LANDSCAPE BUFFER PLANTING
CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

RETAINING WALL(<3M IN HEIGHT)
OM04,OM08

RETAINING WALL(3-6M IN HEIGHT)
OM04,OM07

RETAINING WALL(<3M IN HFIGHT)
OM04,OM08

EXISTING PLANTATION WOODLAND
CM01

EXISTING PLANTATION WOODLAND
CM01

SOIL CUT SLOPE
CM01,CM03,OM08

EXISTING PLANTATION WOODLAND
CM01

EXISTING PLANTATION WOODLAND
CM01,CM03

PROPOSFD LANDSCAPF BUFFFR PLANTING
CM03,CM04,OM05,OM06

PROPOSFD LANDSCAPF BUFFFR PLANTING
CM03,CM04,OM05,OM06

EXISTING PLANTATION WOODLAND
CM01

HEIGHT OF RETAINING STRUCTURE:
(OUTSIDE THE DEVELOPMENT AREA AND ALONG IMPROVED KONG NGA PO ROAD)

	LENGTH:
< 3M	655M
3 TO 6M	318M

0 10 20 30 40 50m
1 : 1 000 SCALE BAR

LEGEND:

- PROPOSED KONG NGA PO DEVELOPMENT AREA
- PROPOSED KONG NGA PO ROAD IMPROVEMENT WORKS
- PROPOSED BUILDINGS AND STRUCTURES
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- PROPOSED SHRUB-GRASSLAND PLANTING
- PROPOSED LAWN
- PROPOSED ROADSIDE AND AMENITY PLANTING
- PROPOSED BUILDING AND STRUCTURES
- PROPOSED GREEN PAVING

Client

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Project

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Title

LANDSCAPE AND VISUAL MITIGATION MEASURES - PLAN

Drawing Number

APPENDIX XI

$FILE$ DATE: $DATE$ TIME: $TIME$ USER: $USER$

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CM02	Tree Transplantation
CM03	Work Area and Temporary Works Area
CM04	Advance Implementation of Mitigation Planting
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OM06	Landscape Buffer Tree Planting
OM07	Roadside and Amenity Planting
OM08	Grassland (Ecological Mitigation)
OM09	Green Roof**
OM10	Vertical Greening**
OM11	Green Paving**
OM12	Light Control (Operation)

*Decorative screen hoarding will be constructed along the construction works close to visually sensitive receivers during the construction phase of the works to screen undesirable views of the construction site. The actual hoarding location will be subject to detailed design.

**The greening of structures is indicative only. The actual extent of the planting will be subject to the detailed design of the structures.

WEAPONS TRAINING FACILITIES
20 NOS. PRIVATE CAR PARKING SPACE
4 NOS. LIGHT BUS PARKING SPACE
1 NO. ACCESSIBLE PARKING SPACE

10M GREENING BUFFER ZONE

SEWAGE PUMPING STATION

PROPOSED POLICE TRAINING FACILITY
20 NOS. PRIVATE CAR PARKING SPACE
4 NOS. LIGHT BUS PARKING SPACE
1 NO. ACCESSIBLE PARKING SPACE

MUTI-STOREY TRAINING COMPLEX
20 NOS. PRIVATE CAR PARKING SPACE,
1 NOS. LOADING/UNLOADING AREA

FIRING RANGE B (FOR THE REPROVISION OF MA TSO LUNG FIRING RANGE)
4 NOS. PRIVATE CAR PARKING SPACE
2 NOS. LIGHT BUS PARKING SPACE
1 NO. ACCESSIBLE PARKING SPACE

MOTOCYCLE SHED

COVERED PARKING SPACE
11 NOS. PRIVATE CAR PARKING SPACE

COVERED PARKING SPACE
3 NOS. PRIVATE CAR PARKING SPACE
2 NOS. LGV PARKING SPACE
16 NOS. LIGHT BUS PARKING SPACE

TWO WHEELED DRIVING TRAINING FACILITIES

FIRING RANGE A (FOR THE REPROVISION OF LO WU FIRING RANGE)
6 NOS. PRIVATE CAR PARKING SPACE
4 NOS. LIGHT BUS PARKING SPACE
1 NO. ACCESSIBLE PARKING SPACE

COVERED PARKING SPACE
10 NOS. LGV PARKING SPACE,
1 NOS. TRAILER PARKING SPACE

HELIPAD

COVERED PARKING SPACE
12 NOS. PRIVATE CAR PARKING SPACE

PARKING AND TRAINING FACILITIES

SKID PAN FACILITIES

FOUR WHEELED DRIVING TRAINING FACILITIES

FOUR WHEELED DRIVING TRAINING FACILITIES

PETROL/DIESEL FILLING STATION WITH VEHICLE WASHING AREA AND VEHICLE CHARGING AREA

TWO WHEELED DRIVING TRAINING FACILITIES

LEGEND:

- PROPOSED BUILDINGS AND STRUCTURES
- INTERNAL CIRCULATION ROADS
- PARKING PROVISION

MITIGATION MEASURES:

- CM01, CM02
- CM04, OM08, OM05, OM06
- CM04, OM08
- CM04, CM08, OM10, OM11
- OM05, OM07
- OM01, OM02, OM03, OM09, OM10, OM12
- OM01, OM02, OM03, OM04, OM06, OM10
- OM01, OM02, OM11, OM12

Rev	Date	Drawn	Description	Ch'k'd	App'd
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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE31 / 2014(CE) ENGINEERING STUDY FOR POLICE FACILITIES IN KONG NGA PO - FEASIBILITY STUDY

Title

LANDSCAPE AND VISUAL MITIGATION MEASURES - OBLIQUE AERIAL VIEW

Designed	KC		Eng check	MT	
Drawn	CCH		Coordination	LL	
Dwg check	KC		Approved	SHC	
Scale at A1	N.T.S.	Status	PRE	Rev	P1

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FIGURE 10-24

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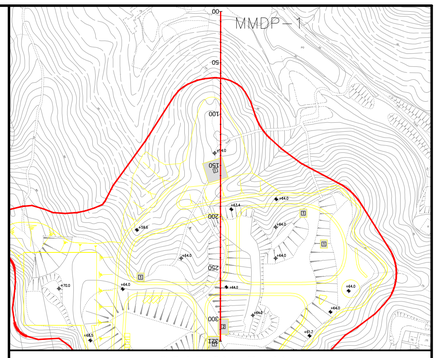

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED BUILDINGS AND STRUCTURES
- PROPOSED ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED AMENITY TREE AND SHRUB PLANTING
- PROPOSED SHRUB-GRASSLAND
- PROPOSED GREEN PAVING
- PROPOSED GREEN ROOFS
- PROPOSED VERTICAL GREENING (CLIMBING PLANTS)

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AGREEMENT NO. CE31 / 2014(CE) ENGINEERING STUDY FOR POLICE FACILITIES IN KONG NGA PO - FEASIBILITY STUDY

Title

LANDSCAPE AND VISUAL MITIGATION MEASURES - SECTIONS

Designed	KC		Eng check	MT	
Drawn	CCH		Coordination	LL	
Dwg check	KC		Approved	SHC	
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FIGURE 10-25

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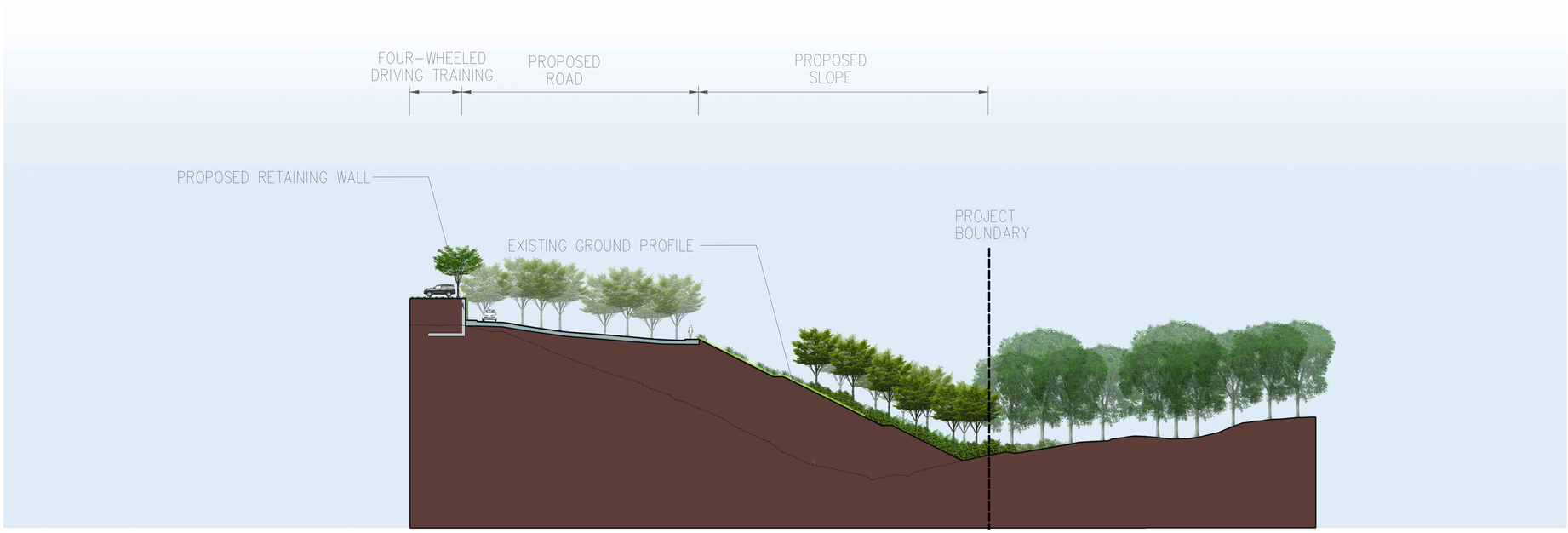

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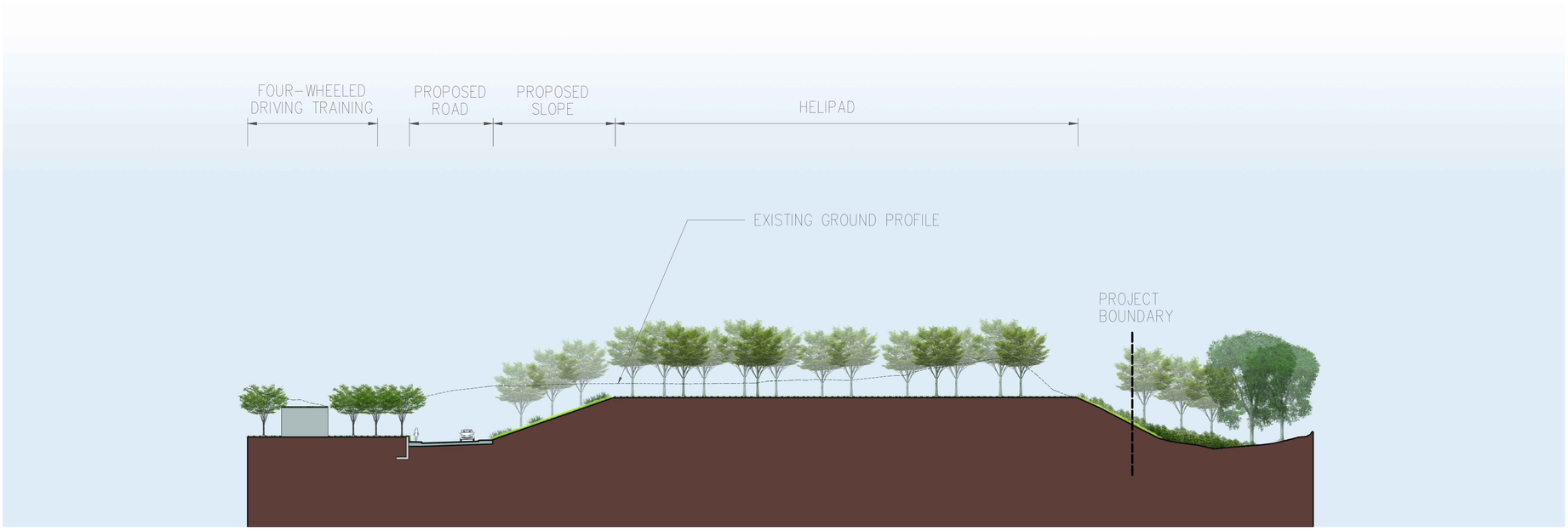

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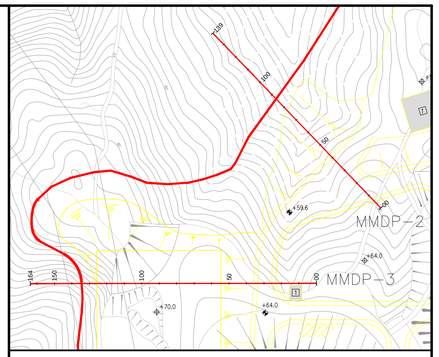

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED BUILDINGS AND STRUCTURES
- PROPOSED ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED AMENITY TREE AND SHRUB PLANTING
- PROPOSED SHRUB–GRASSLAND
- PROPOSED GREEN PAVING
- PROPOSED GREEN ROOFS
- PROPOSED VERTICAL GREENING (CLIMBING PLANTS)

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Title

LANDSCAPE AND VISUAL MITIGATION MEASURES - SECTIONS

Designed	KC		Eng check	MT	
Drawn	CCH		Coordination	LL	
Dwg check	KC		Approved	SHC	

Scale at A1	Status	Rev
1:400	PRE	P1

Drawing Number

FIGURE 10-26

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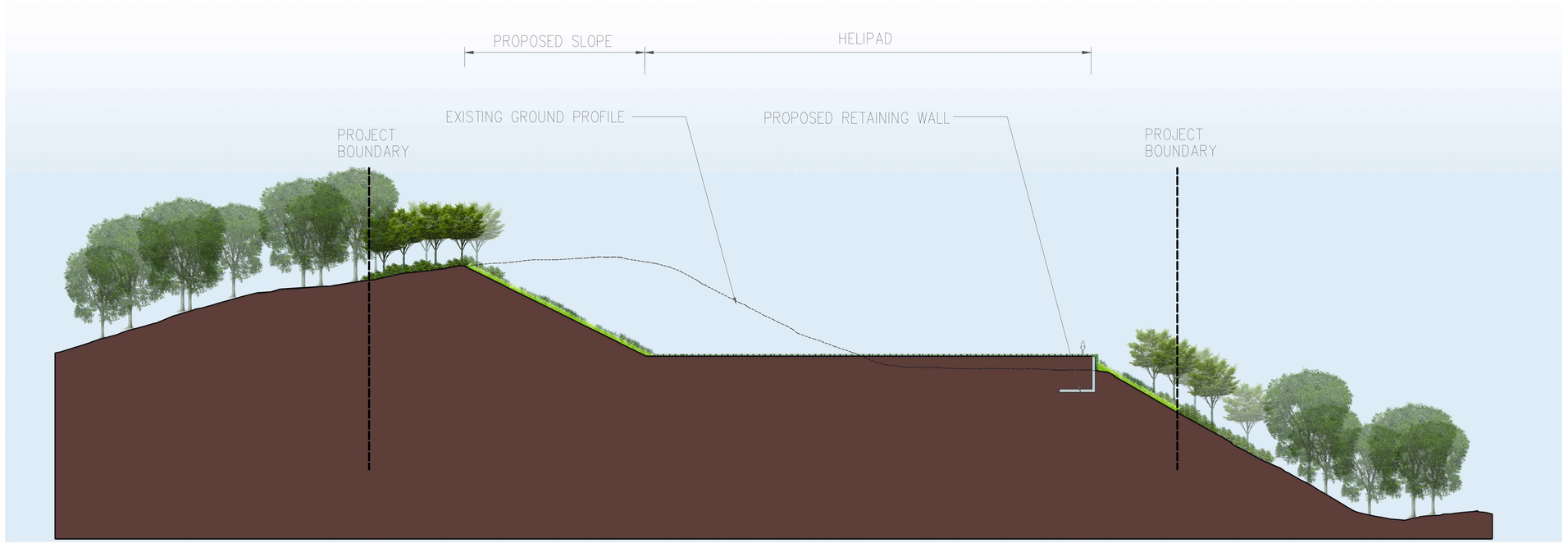

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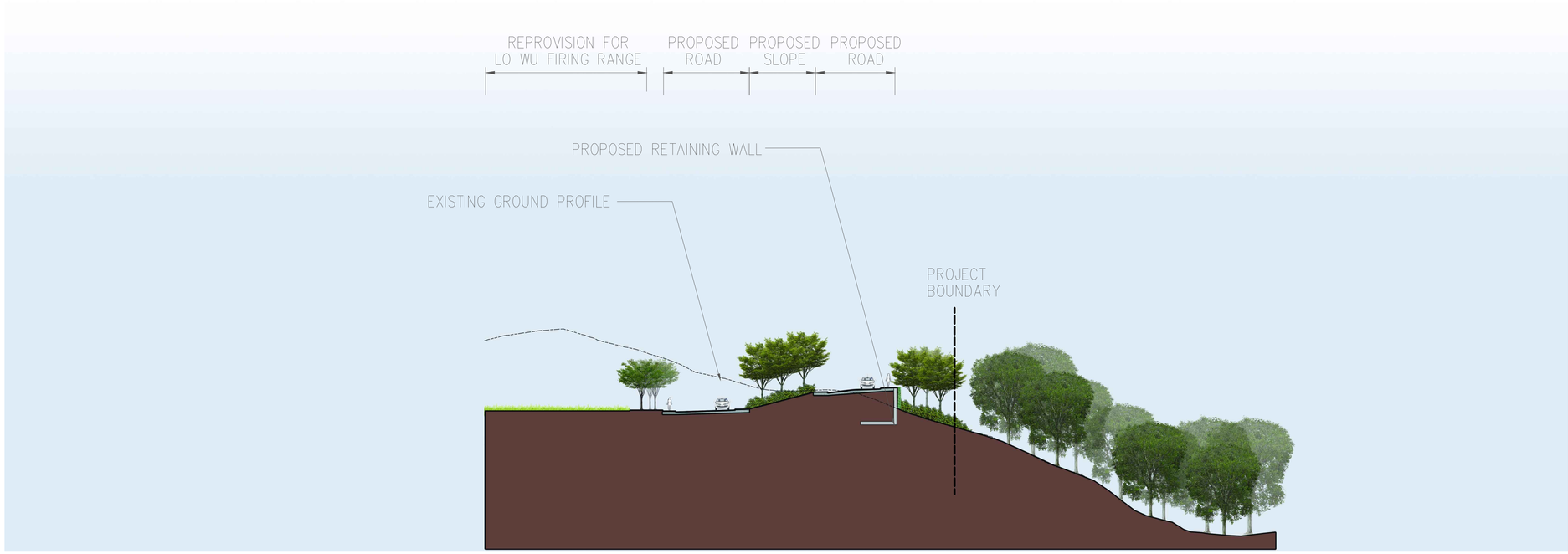

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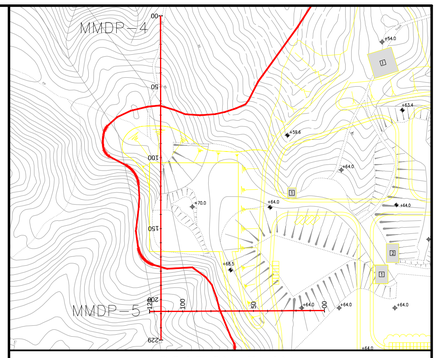

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED BUILDINGS AND STRUCTURES
- PROPOSED ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
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Scale at A1	1:400	Status	PRE	Rev	P1

Drawing Number

FIGURE 10-27

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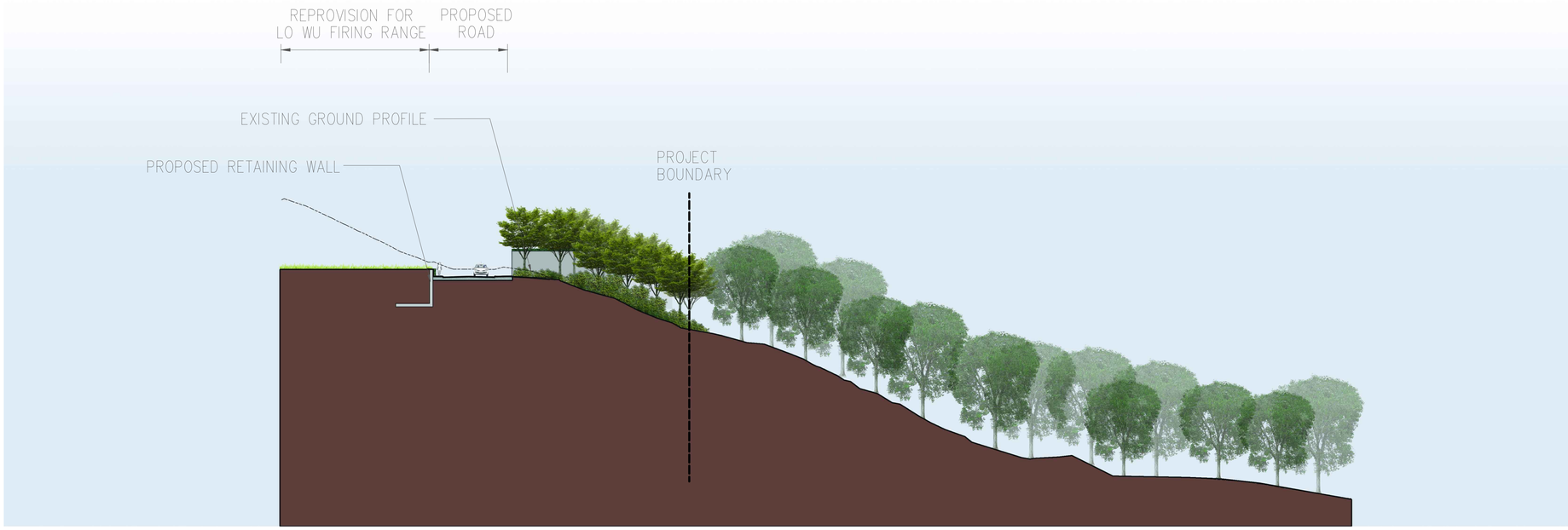

Section MMDP-6



Section MMDP-7

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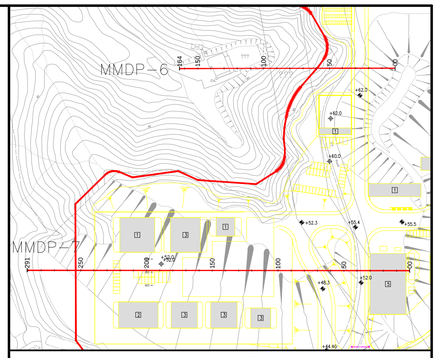

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED BUILDINGS AND STRUCTURES
- PROPOSED ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED AMENITY TREE AND SHRUB PLANTING
- PROPOSED SHRUB-GRASSLAND
- PROPOSED GREEN PAVING
- PROPOSED GREEN ROOFS
- PROPOSED VERTICAL GREENING (CLIMBING PLANTS)

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Project

AGREEMENT NO. CE31 / 2014(CE) ENGINEERING STUDY FOR POLICE FACILITIES IN KONG NGA PO - FEASIBILITY STUDY

Title

LANDSCAPE AND VISUAL MITIGATION MEASURES - SECTIONS

Designed	KC		Eng check	MT	
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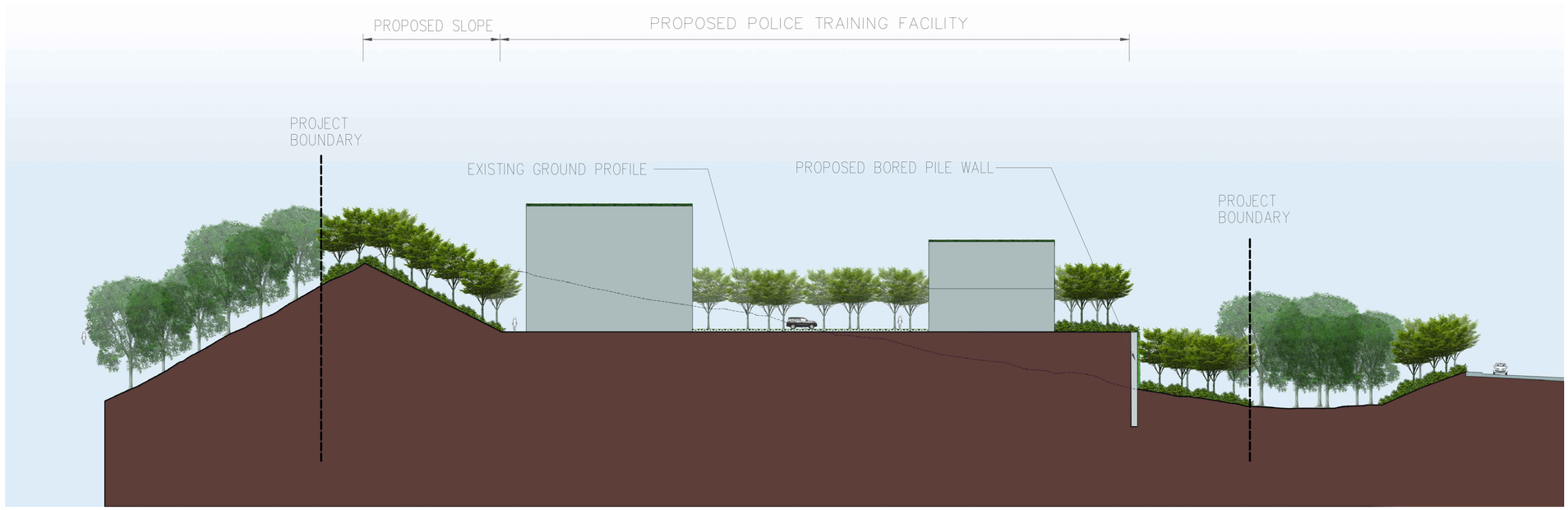
Dwg check	KC		Approved	SHC	
Scale at A1	1:400	Status	PRE	Rev	P1

Drawing Number

FIGURE 10-28



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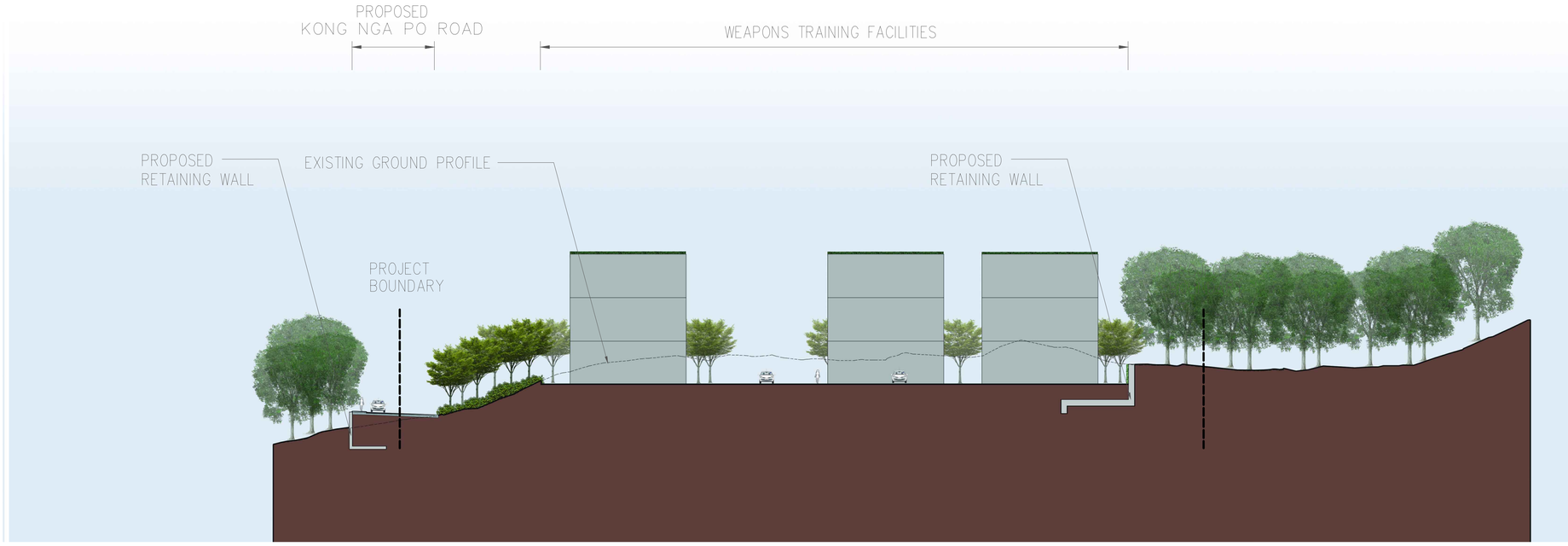

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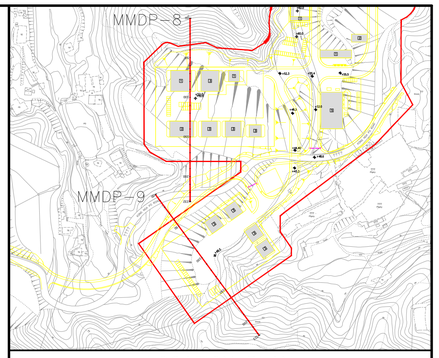

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED BUILDINGS AND STRUCTURES
- PROPOSED ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED AMENITY TREE AND SHRUB PLANTING
- PROPOSED SHRUB–GRASSLAND
- PROPOSED GREEN PAVING
- PROPOSED GREEN ROOFS
- PROPOSED VERTICAL GREENING (CLIMBING PLANTS)

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Dwg check	KC		Approved	SHC	
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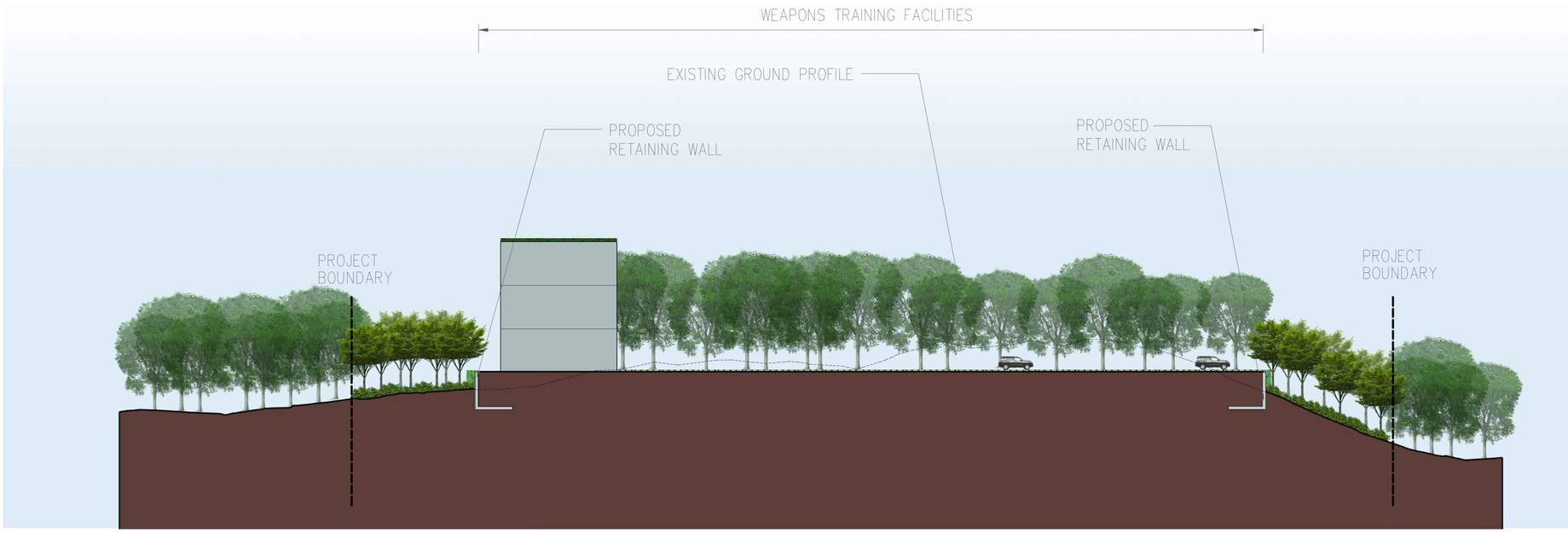
FIGURE 10-29



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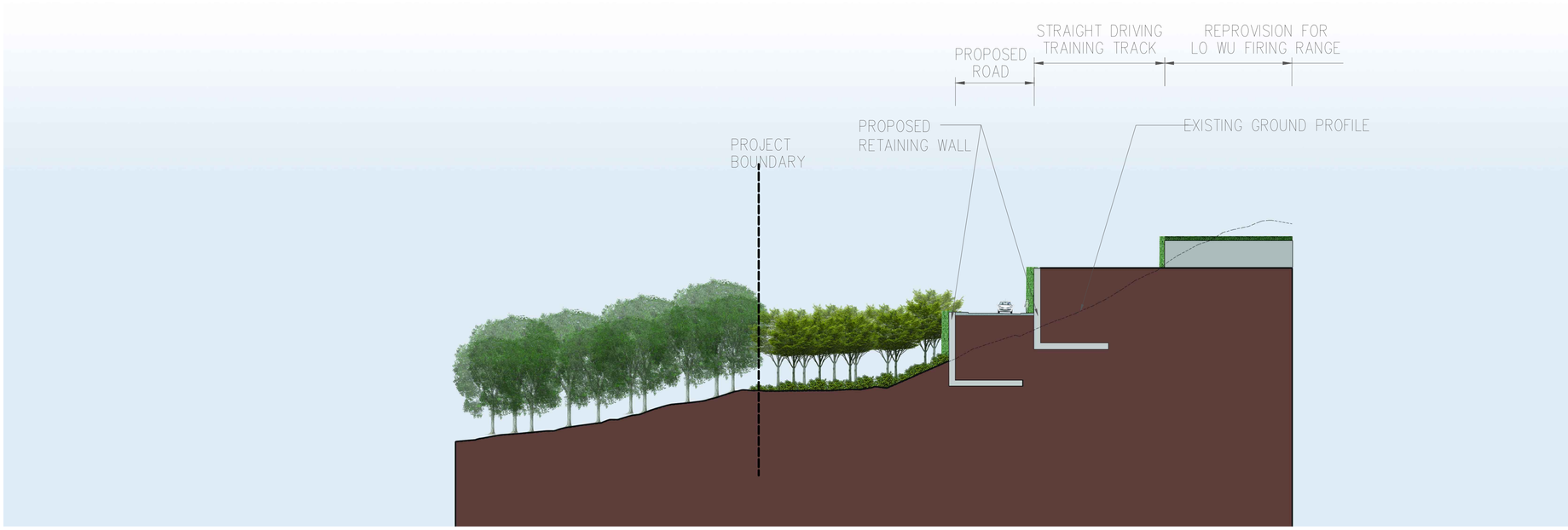

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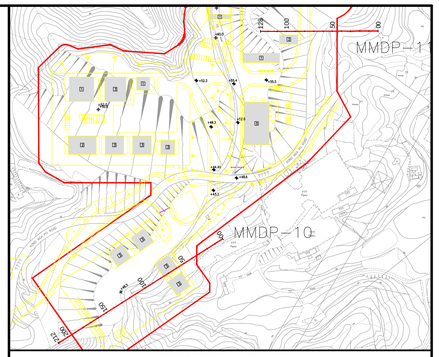

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED BUILDINGS AND STRUCTURES
- PROPOSED ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED AMENITY TREE AND SHRUB PLANTING
- PROPOSED SHRUB-GRASSLAND
- PROPOSED GREEN PAVING
- PROPOSED GREEN ROOFS
- PROPOSED VERTICAL GREENING (CLIMBING PLANTS)

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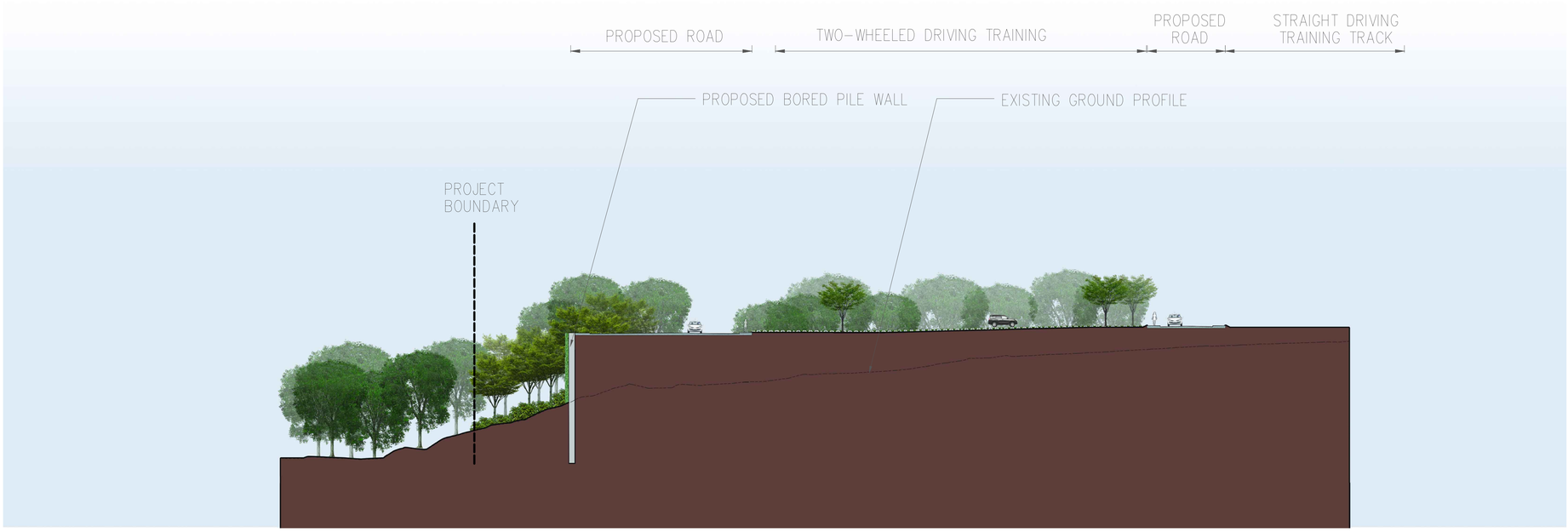
Drawing Number

FIGURE 10-30



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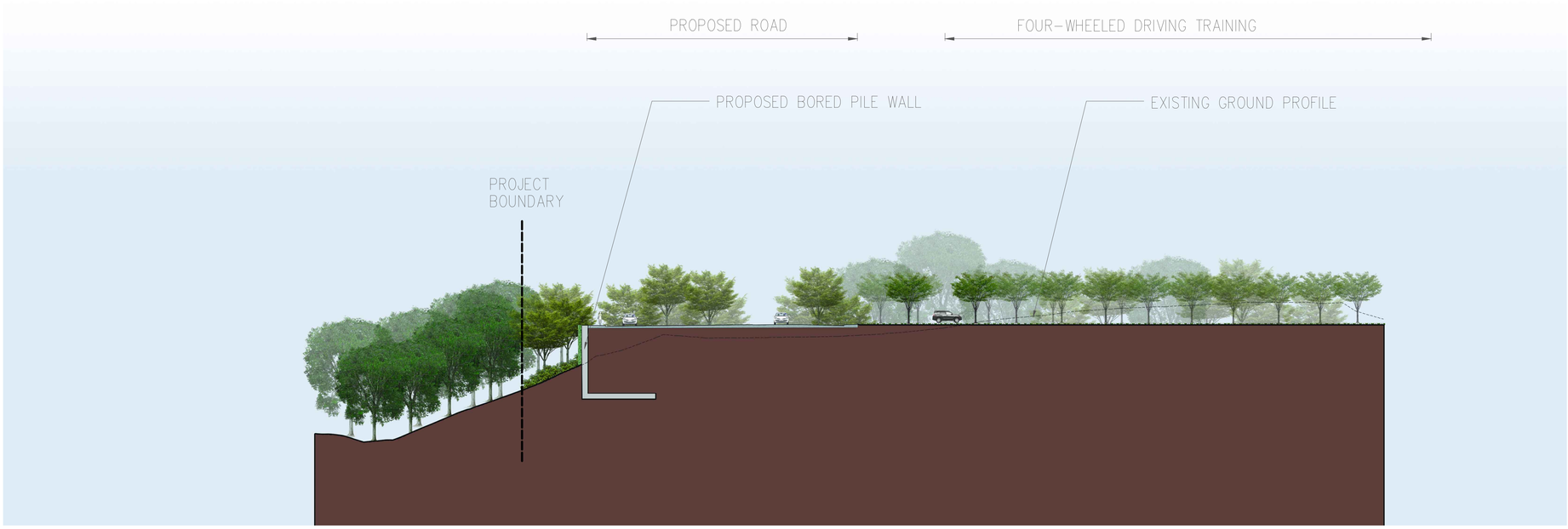

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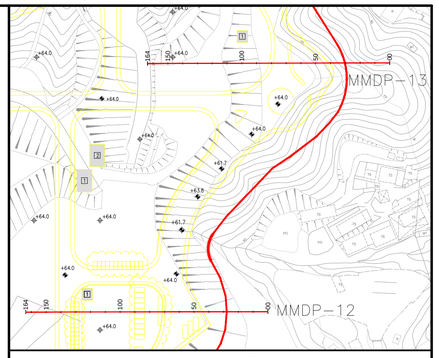

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED BUILDINGS AND STRUCTURES
- PROPOSED ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED AMENITY TREE AND SHRUB PLANTING
- PROPOSED SHRUB-GRASSLAND
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FIGURE 10-31

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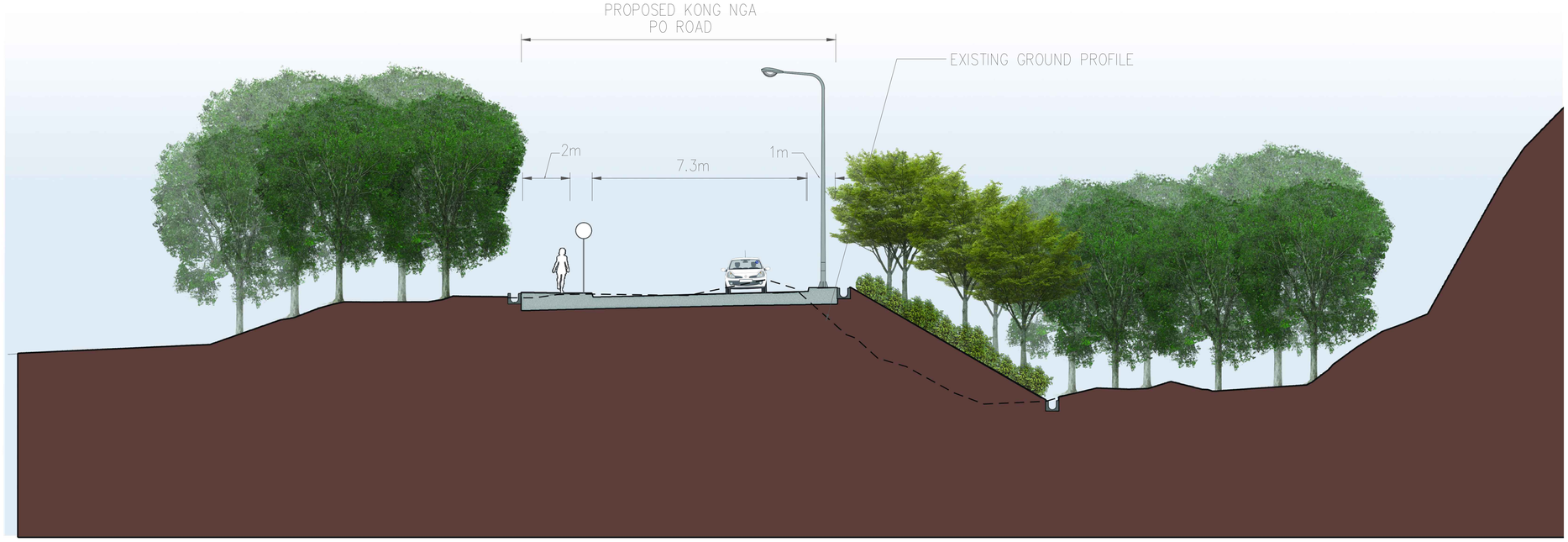

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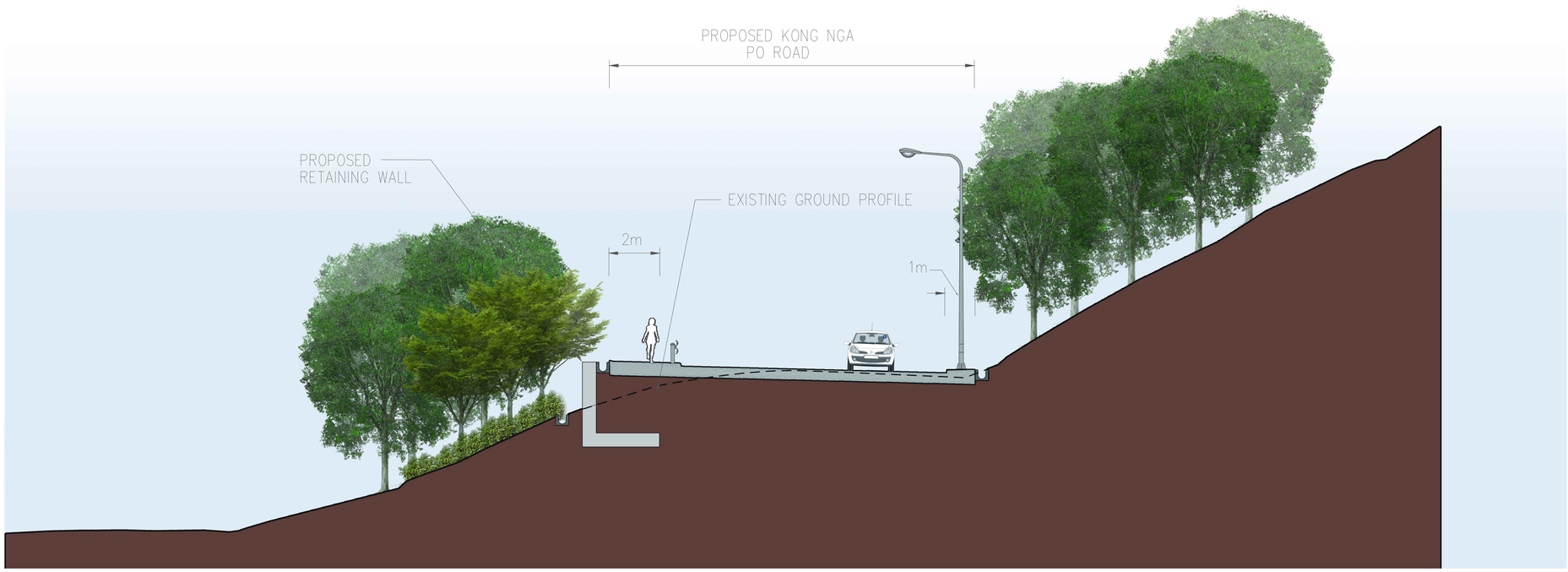

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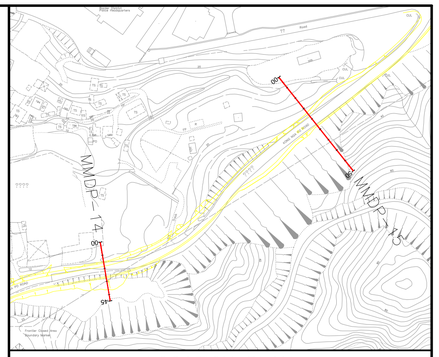

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED KNP ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED VERTICAL GREENING (CLIMBING PLANTS)

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FIGURE 10-32

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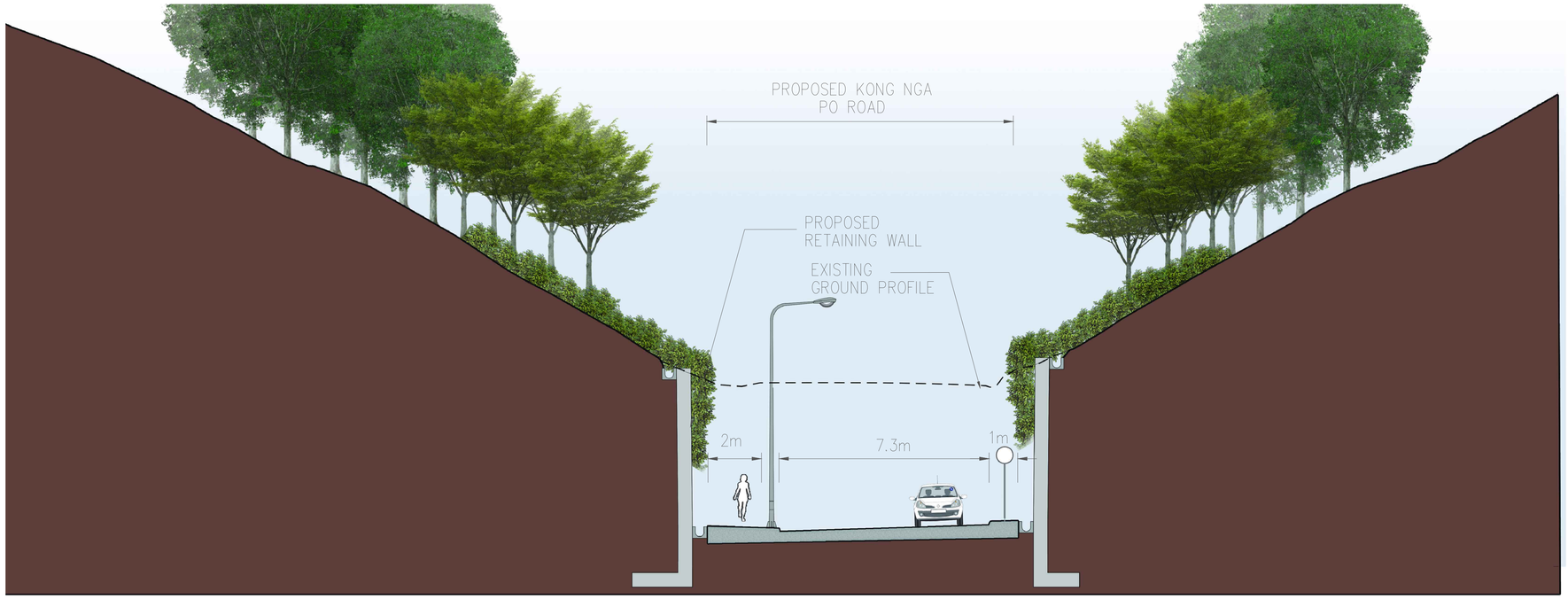

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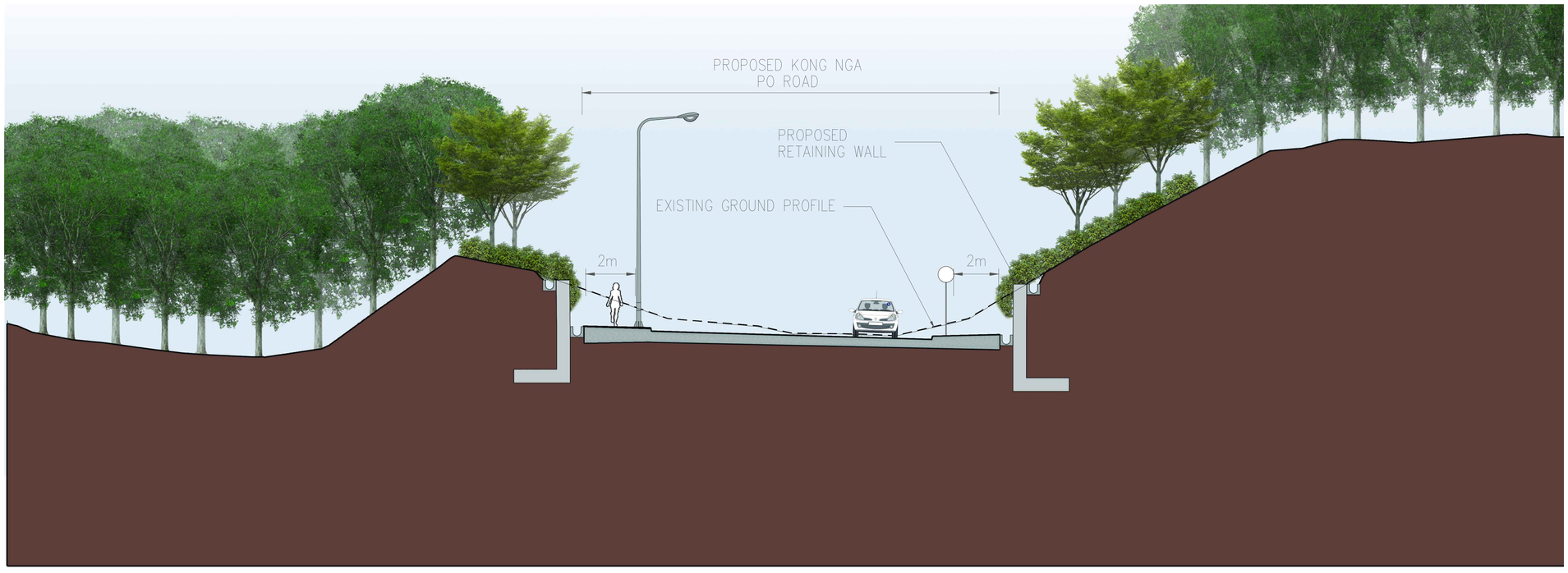

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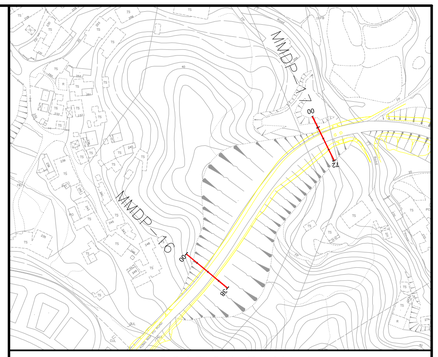

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED KNP ROAD
- RETAINING WALLS
- PRESERVED WOODLAND
- PROPOSED WOODLAND BUFFER PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED VERTICAL GREENING (CLIMBING PLANTS)

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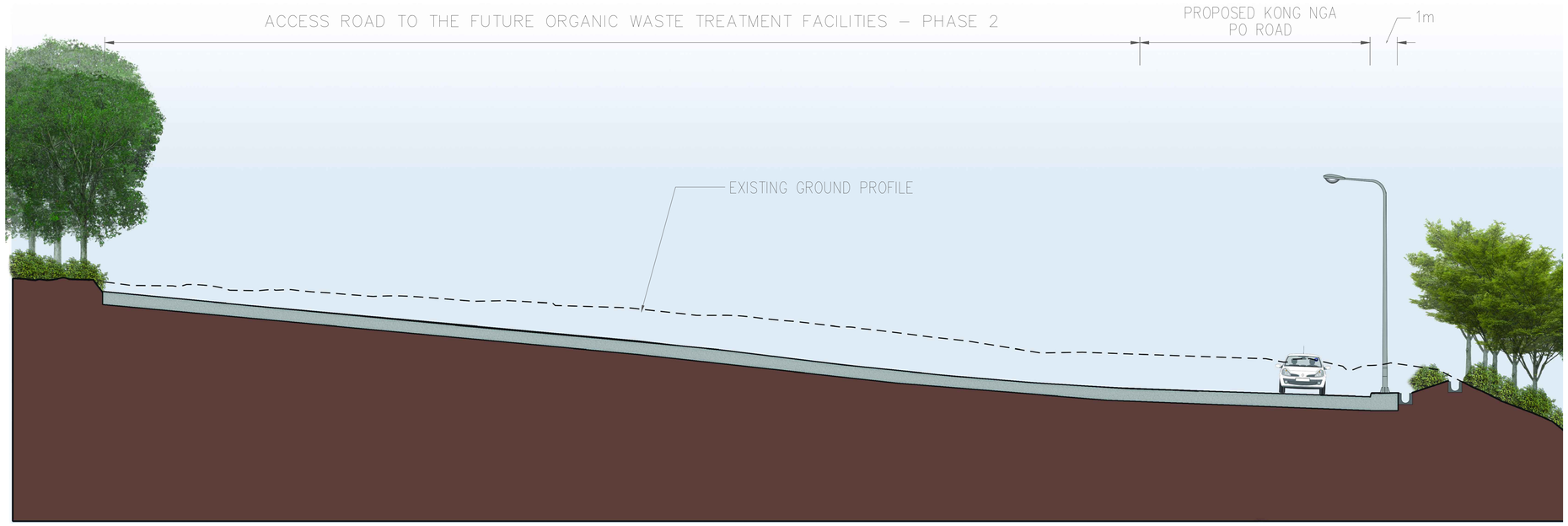
Drawing Number
FIGURE 10-33



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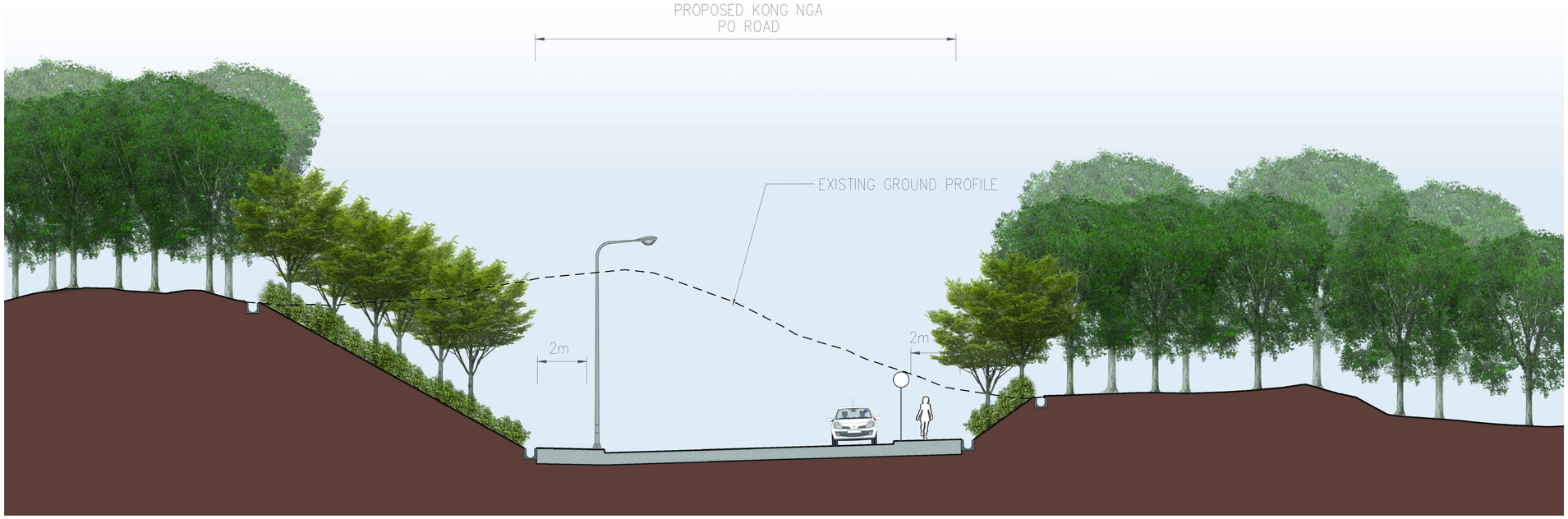

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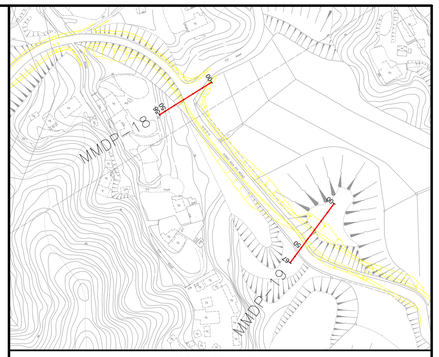

LOCATION PLAN
N.T.S.

LEGEND:

- PROPOSED KNP ROAD
- RETAINING WALLS
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FIGURE 10-34

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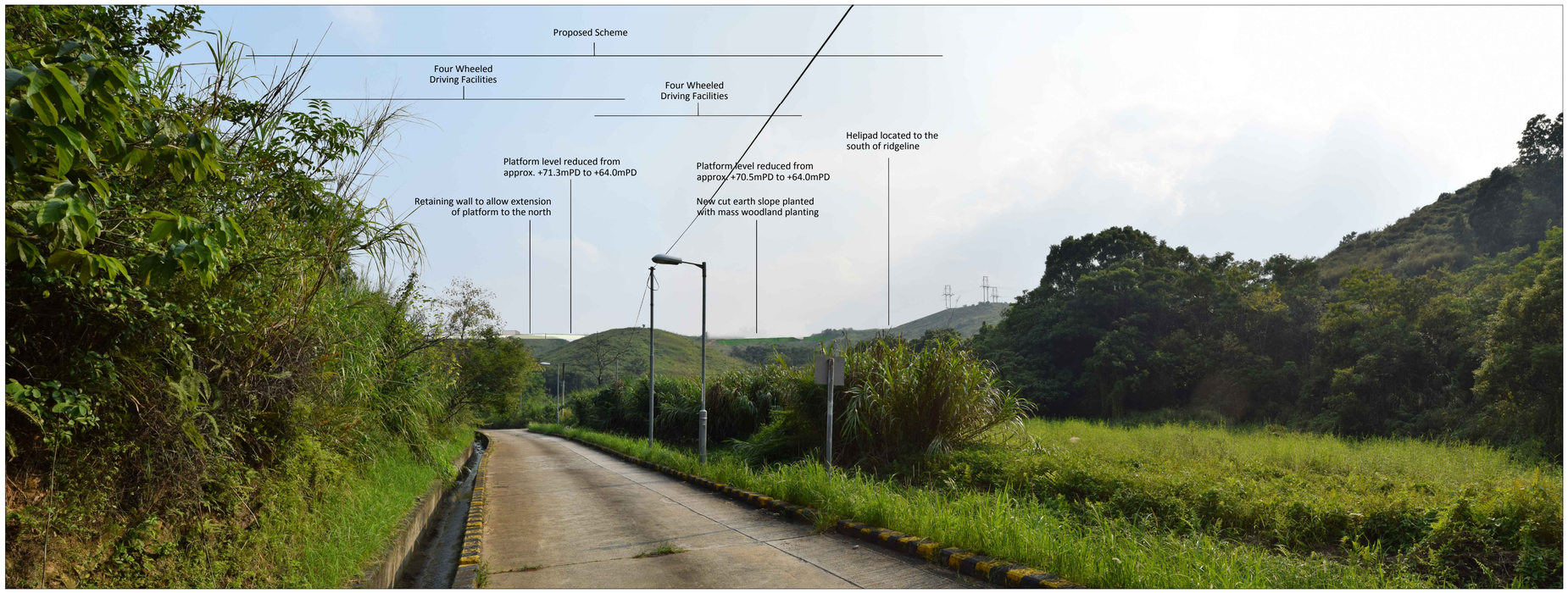
Vantage Point 01: View looking south for vehicle travellers and pedestrians on small rural road (VSR1.1) (Existing Situation)



Vantage Point 01: View looking south for vehicle travellers and pedestrians on small rural road (VSR1.1) (Day 1 with no mitigation measures)

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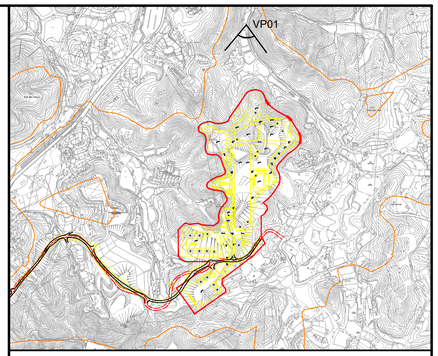

LOCATION PLAN
N.T.S.

Vantage Point 01 (VP01)

Vantage Point Elevation: +15.6mPD
Viewing distance: 180m
Maximum Height of Proposed Scheme: +75.5mPD

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Dwg check	KC		Approved	SHC	
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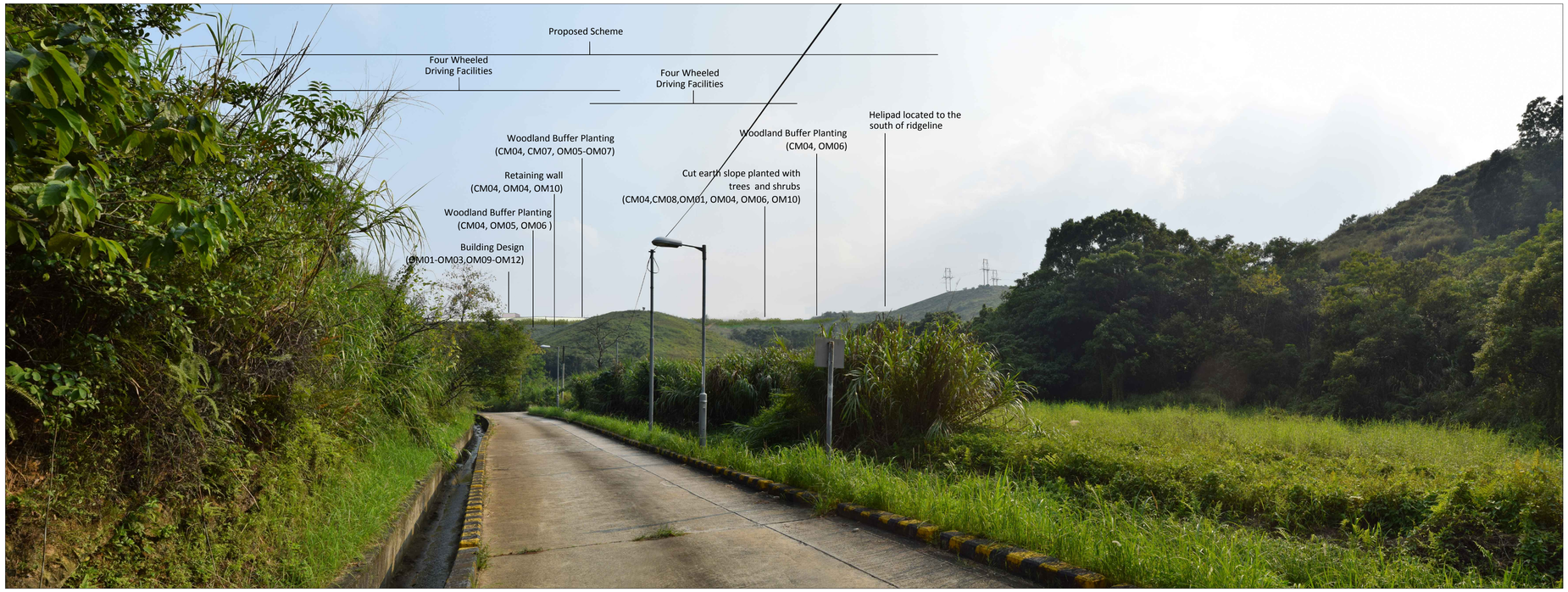
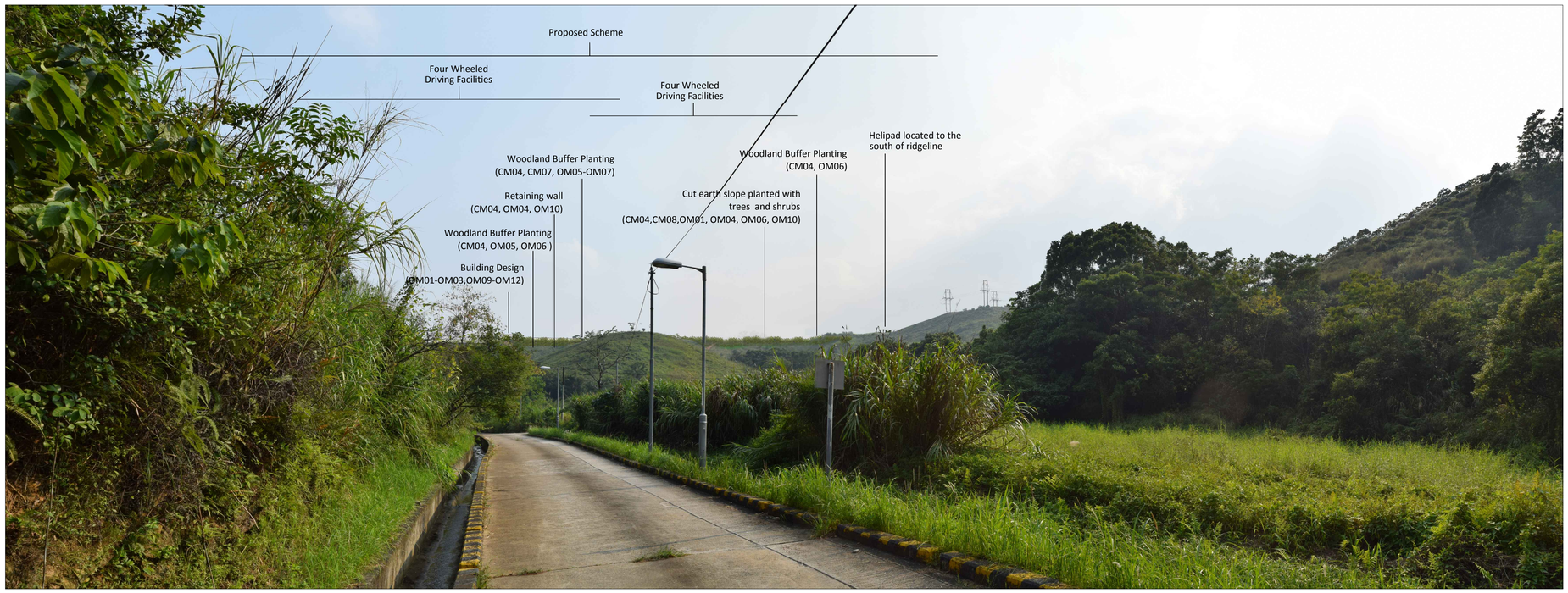
Drawing Number
FIGURE 10-39



Vantage Point 01: View looking south for vehicle travellers and pedestrians on small rural road (VSR1.1) (Day 1 with mitigation measures)



Vantage Point 01: View looking south for vehicle travellers and pedestrians on small rural road (VSR1.1) (Year 10 with mitigation measures)

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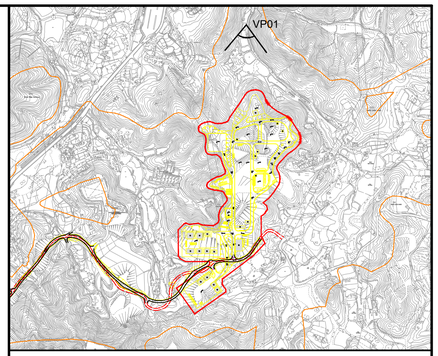

LOCATION PLAN
N.T.S.

Vantage Point 01 (VP01)

Vantage Point Elevation: +15.6mPD
Viewing distance: 180m
Maximum Height of Proposed Scheme: +75.5mPD

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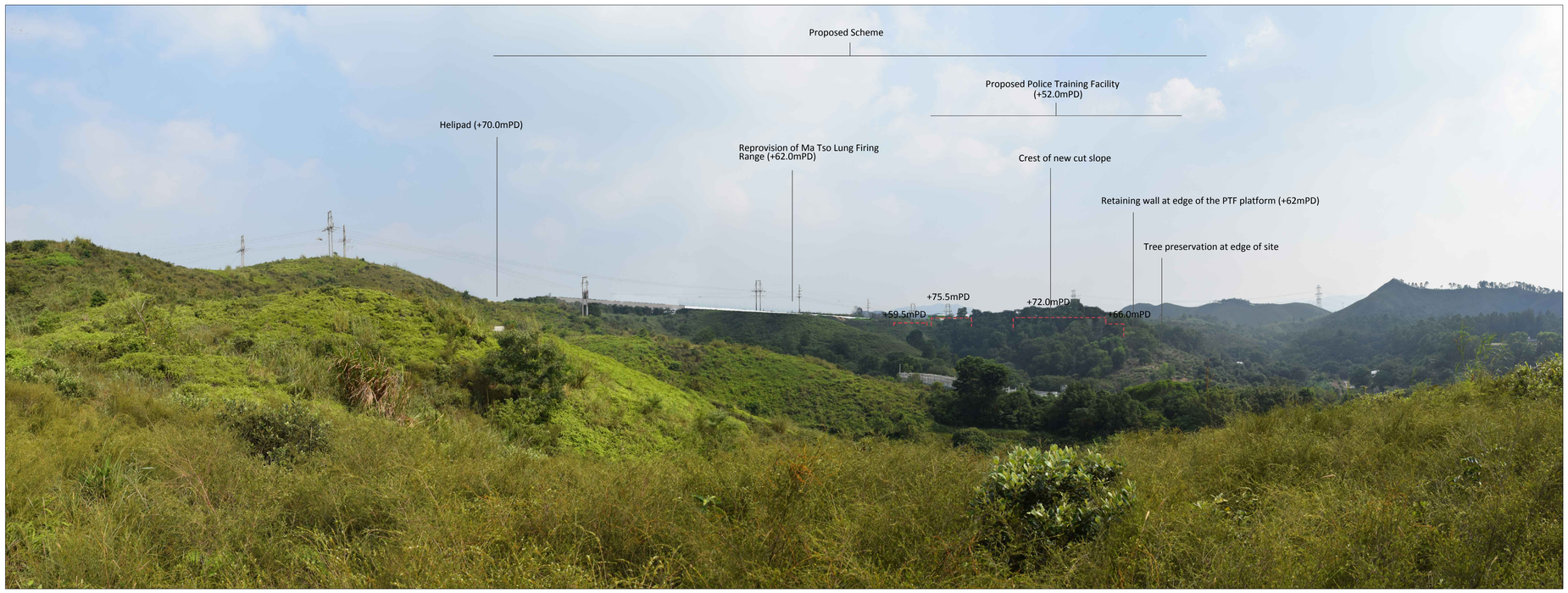
Dwg check	KC		Approved	SHC	
Scale at A1 N.T.S.		Status PRE		Rev P1	

Drawing Number
FIGURE 10-40



Vantage Point 02: View looking south east for pedestrians using hill top footpath by grave sites (VSR1.2) (Existing Situation)



Vantage Point 02: View looking south east for pedestrians using hill top footpath by grave sites (VSR1.2) (Day 1 with no mitigation measures)

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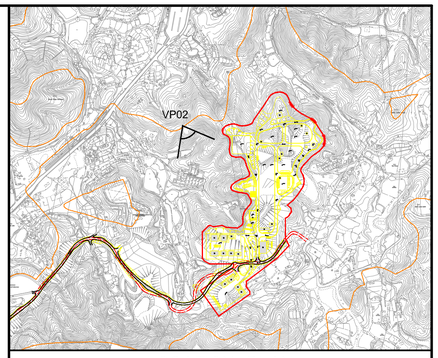

LOCATION PLAN
N.T.S.

Vantage Point 02 (VP02)

Vantage Point Elevation: +53.4mPD
Viewing distance: 100m
Maximum Height of Proposed Scheme: +75.5mPD

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Title
LANDSCAPE AND VISUAL MITIGATION MEASURES - PHOTOMONTAGE

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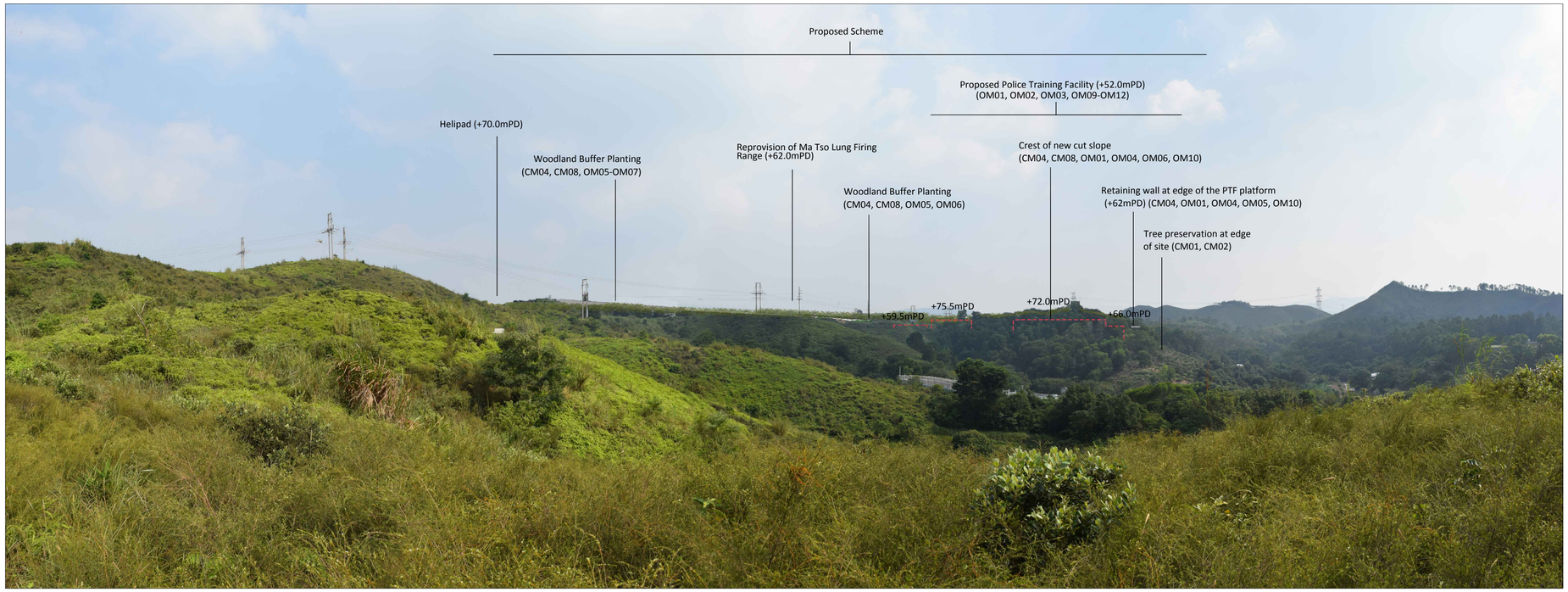
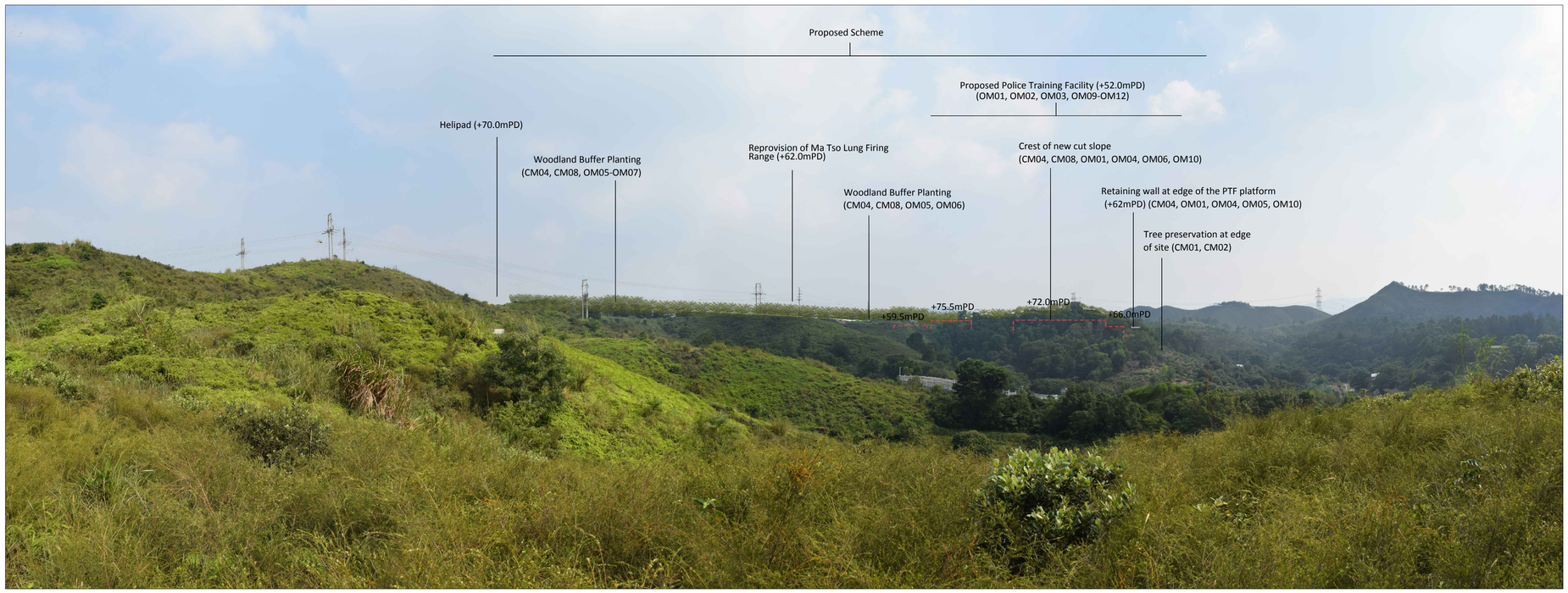
FIGURE 10-41



Vantage Point 02: View looking south east for pedestrians using hill top footpath by grave sites (VSR1.2) (Day 1 with mitigation measures)



Vantage Point 02: View looking south east for pedestrians using hill top footpath by grave sites (VSR1.2) (Year 10 with mitigation measures)

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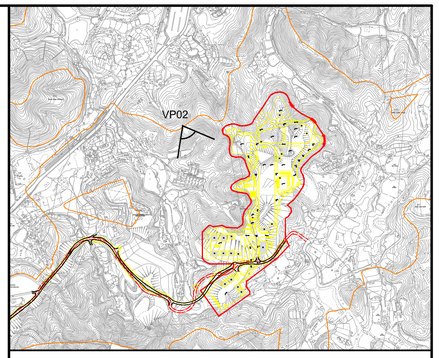

LOCATION PLAN
N.T.S.

Vantage Point 02 (VP02)

Vantage Point Elevation: +53.4mPD
Viewing distance: 100m
Maximum Height of Proposed Scheme: +75.5mPD

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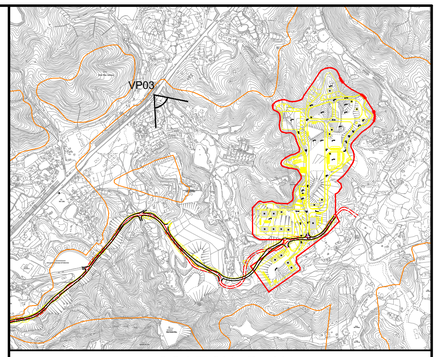
FIGURE 10-42



Vantage Point 03: View looking south east for vehicle travellers on Man Kam To Road (North) (VSR1.3) (Existing Situation)



Vantage Point 03: View looking south east for vehicle travellers on Man Kam To Road (North) (VSR1.3) (Day 1 with no mitigation measures)



LOCATION PLAN
N.T.S.

Vantage Point 03 (VP03)

Vantage Point Elevation: +12.5mPD
Viewing distance: 1010m
Maximum Height of Proposed Scheme: +75.5mPD

Note:

Red dashed line shows position of proposed scheme.

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FIGURE 10-43

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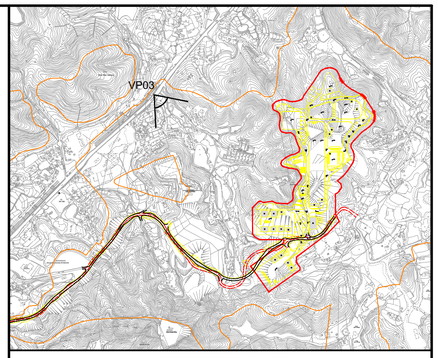
Vantage Point 03: View looking south east for vehicle travellers on Man Kam To Road (North) (VSR1.3) (Day 1 with mitigation measures)



Vantage Point 03: View looking south east for vehicle travellers on Man Kam To Road (North) (VSR1.3) (Year 10 with mitigation measures)



LOCATION PLAN
N.T.S.

Vantage Point 03 (VP03)

Vantage Point Elevation: +12.5mPD
Viewing distance: 1010m
Maximum Height of Proposed Scheme: +75.5mPD

Note:

Red dashed line shows position of proposed scheme.

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FIGURE 10-44

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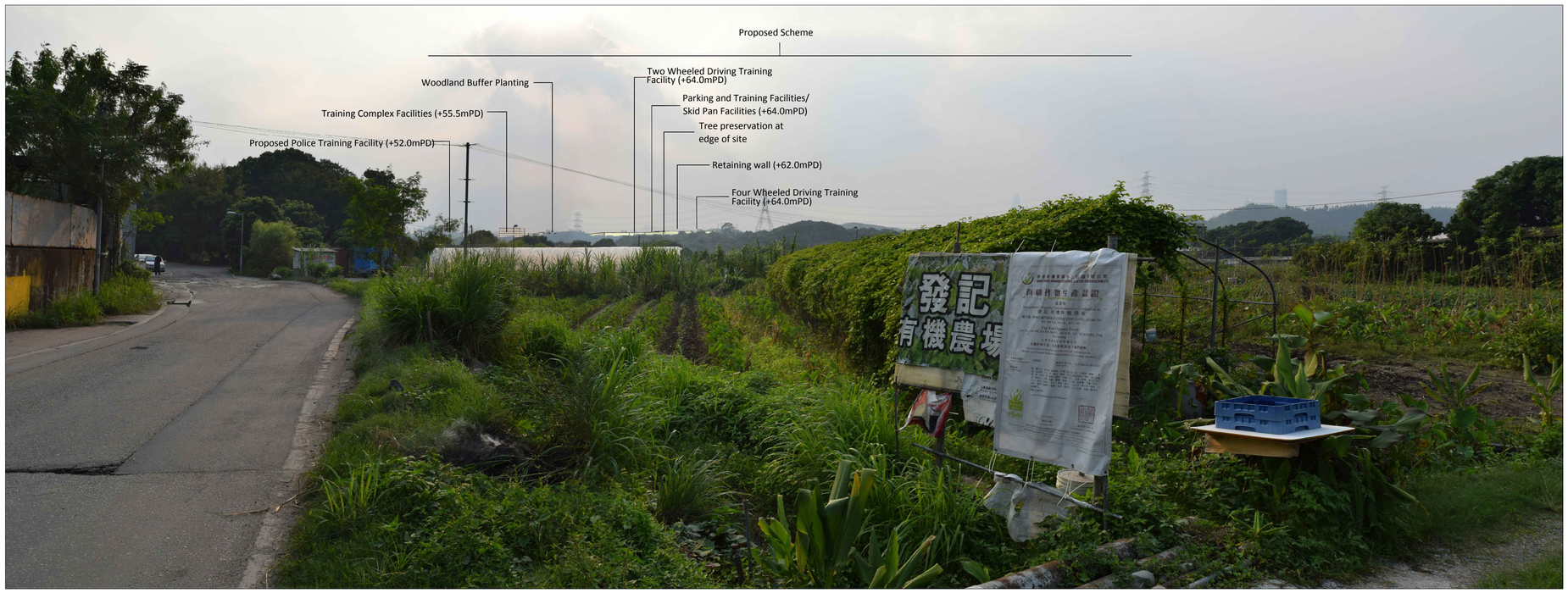
Vantage Point 04: View looking west for agricultural workers in fields of the Ping Yuen River Valley (VSR2.3) (Existing Situation)



Vantage Point 04: View looking west for agricultural workers in fields of the Ping Yuen River Valley (VSR2.3) (Day 1 with no mitigation measures)

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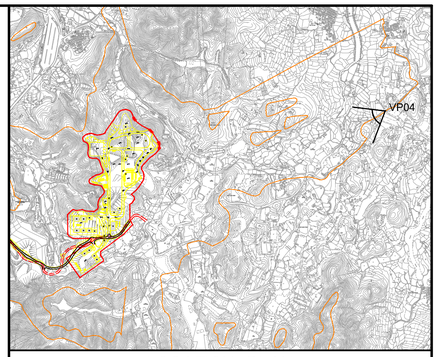

LOCATION PLAN
N.T.S.

Vantage Point 04 (VP04)

Vantage Point Elevation: +11.9mPD
Viewing distance: 1260m
Maximum Height of Proposed Scheme: +75.5mPD

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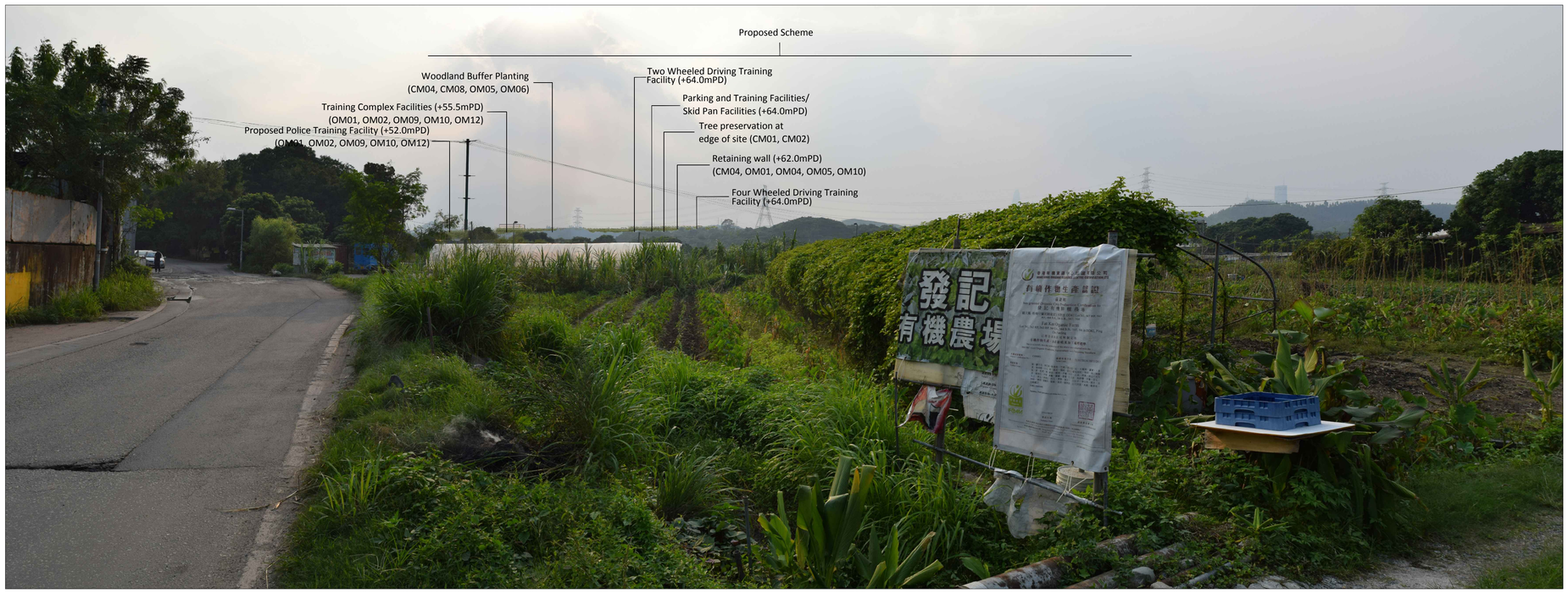
FIGURE 10-45



Vantage Point 04: View looking west for agricultural workers in fields of the Ping Yuen River Valley (VSR2.3) (Day 1 with mitigation measures)



Vantage Point 04: View looking west for agricultural workers in fields of the Ping Yuen River Valley (VSR2.3) (Year 10 with mitigation measures)

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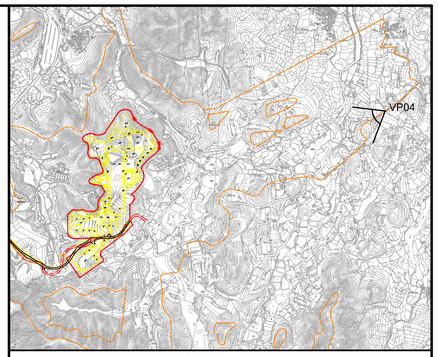

LOCATION PLAN
N.T.S.

Vantage Point 04 (VP04)

Vantage Point Elevation: +11.9mPD
Viewing distance: 1260m
Maximum Height of Proposed Scheme: +75.5mPD

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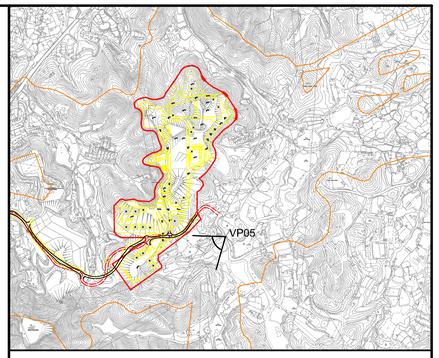
Drawing Number
FIGURE 10-46



Vantage Point 05: View looking west for vehicle travellers and pedestrians on Kong Nga Po Road (VSR2.4) (Existing Situation)



Vantage Point 05: View looking west for vehicle travellers and pedestrians on Kong Nga Po Road (VSR2.4) (Day 1 with no mitigation measures)



LOCATION PLAN
N.T.S.

Vantage Point 05 (VP05)

Vantage Point Elevation: +27.1mPD
Viewing distance: 302m
Maximum Height of Proposed Scheme: +75.5mPD

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FIGURE 10-47

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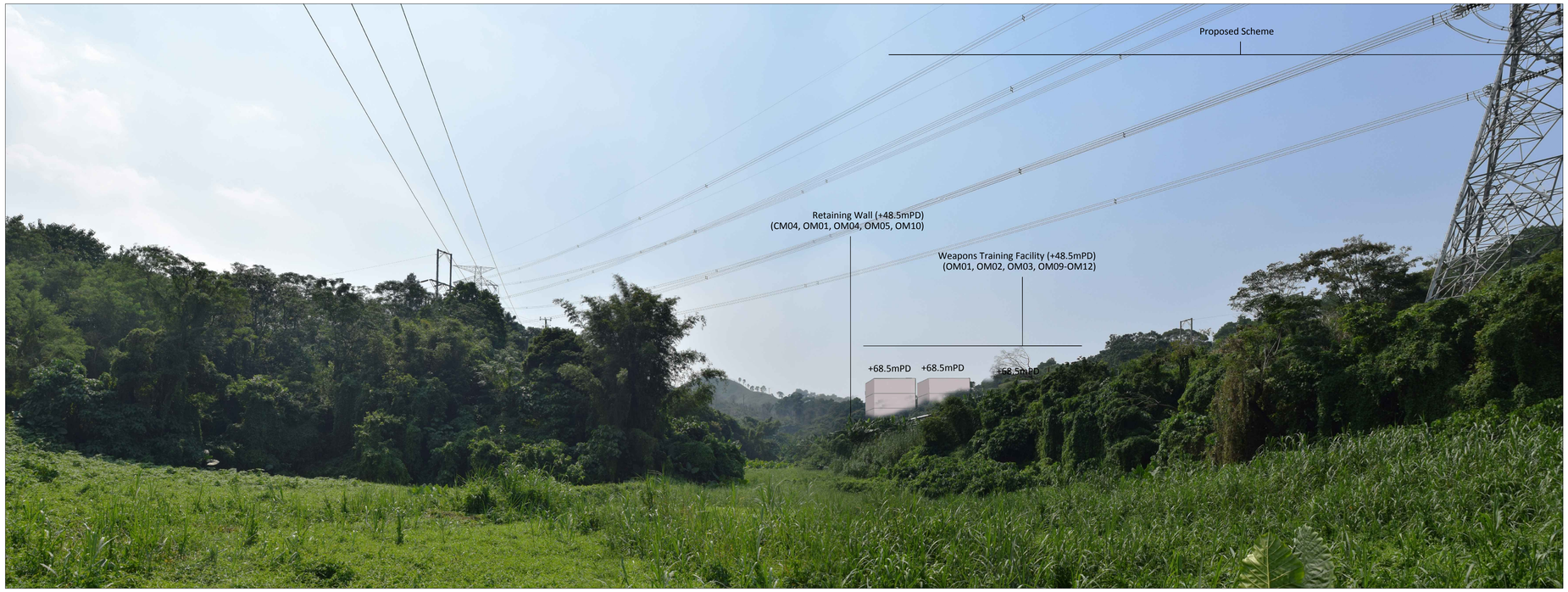
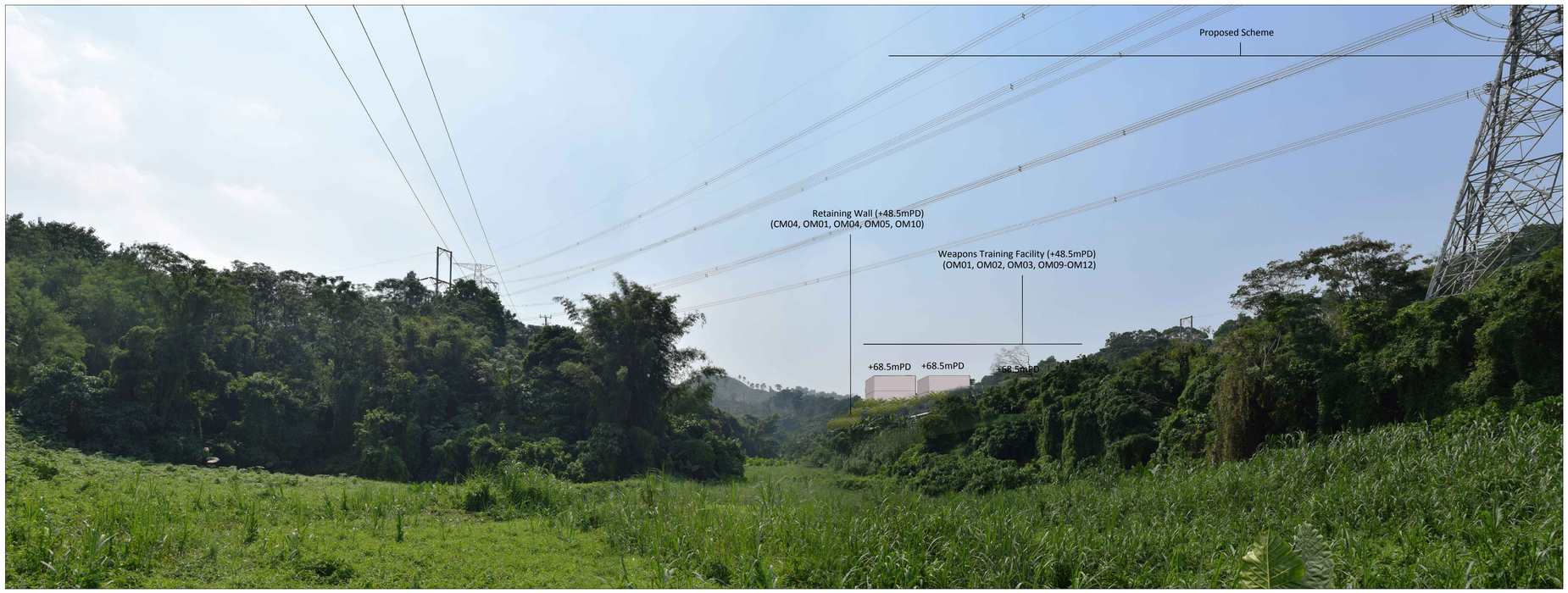


Vantage Point 05: View looking west for vehicle travellers and pedestrians on Kong Nga Po Road (VSR2.4) (Day 1 with mitigation measures)



Vantage Point 05: View looking west for vehicle travellers and pedestrians on Kong Nga Po Road (VSR2.4) (Year 10 with mitigation measures)

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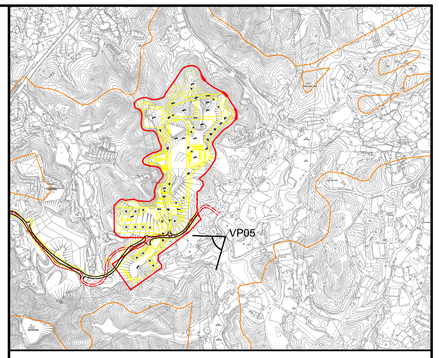

LOCATION PLAN
N.T.S.

Vantage Point 05 (VP05)

Vantage Point Elevation: +27.1mPD
Viewing distance: 302m
Maximum Height of Proposed Scheme: +75.5mPD

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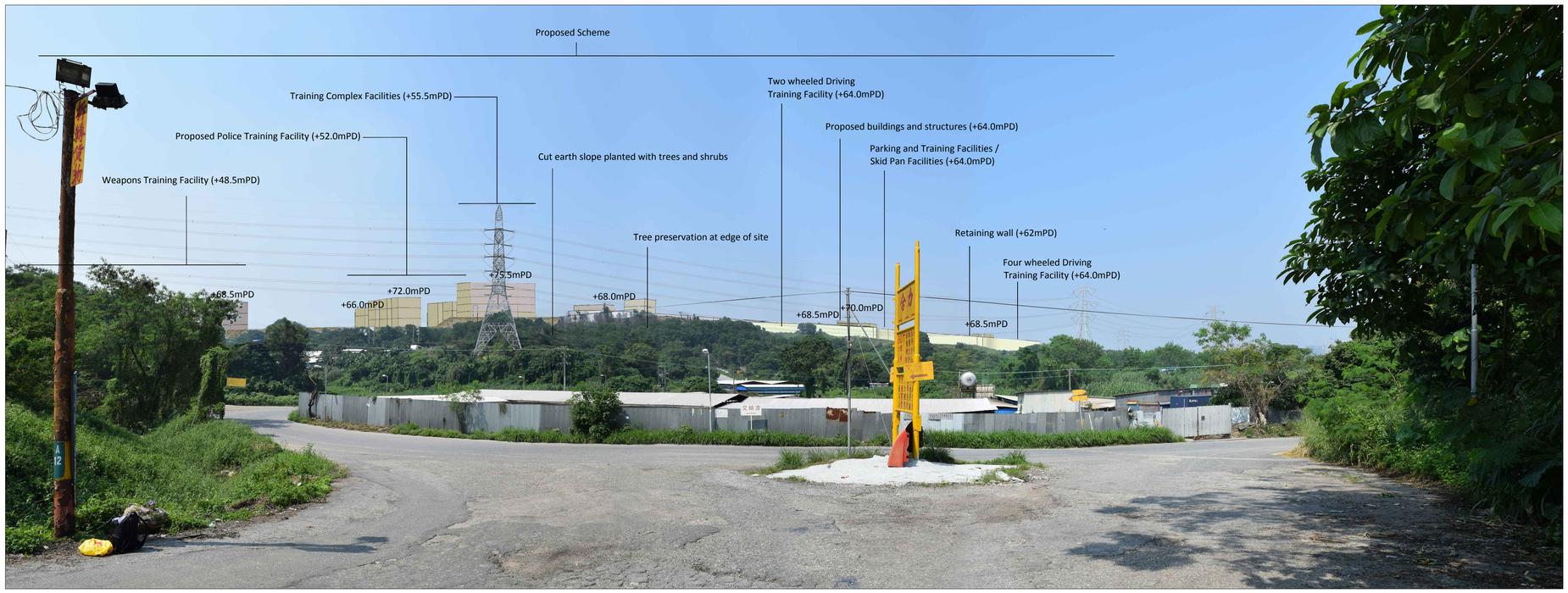
Drawing Number
FIGURE 10-48



Vantage Point 06: View looking north west for Vehicle travellers on road to south of Kong Nga Po Road (VSR2.5) (Existing Situation)



Vantage Point 06: View looking north west for Vehicle travellers on road to south of Kong Nga Po Road (VSR2.5) (Day 1 with no mitigation measures)

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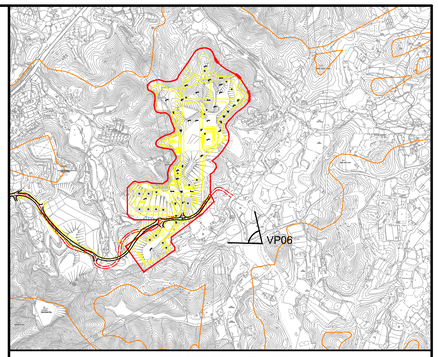

LOCATION PLAN
N.T.S.

Vantage Point 06 (VP06)

Vantage Point Elevation: +26.4mPD
Viewing distance: 200m
Maximum Height of Proposed Scheme: +75.5mPD

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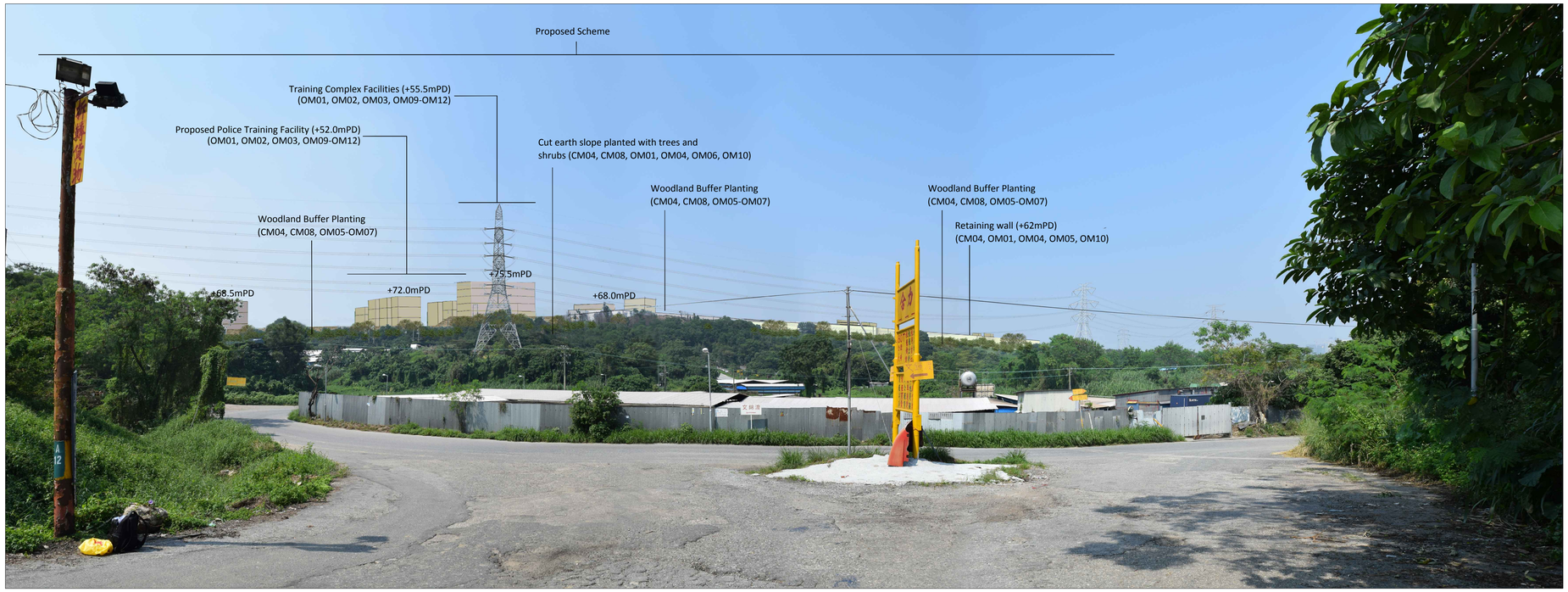
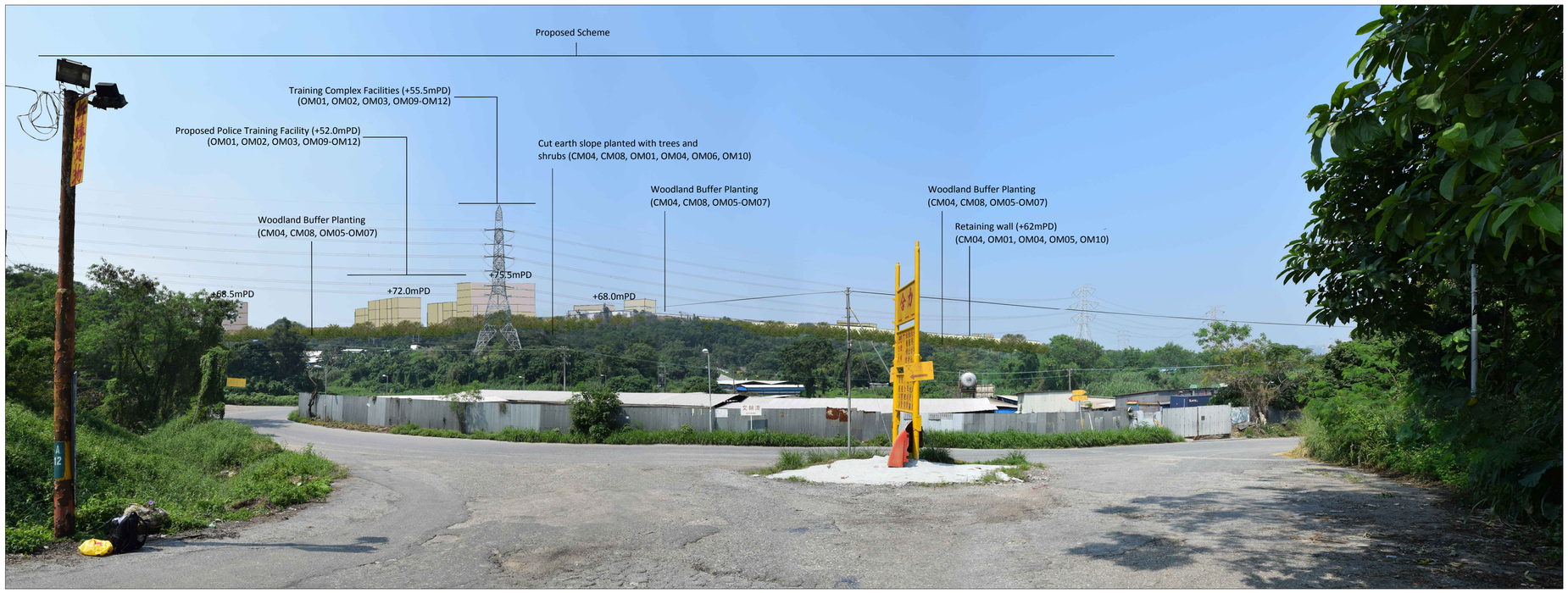
Drawing Number
FIGURE 10-49



Vantage Point 06: View looking north west for Vehicle travellers on road to south of Kong Nga Po Road (VSR2.5) (Day 1 with mitigation measures)



Vantage Point 06: View looking north west for Vehicle travellers on road to south of Kong Nga Po Road (VSR2.5) (Year 10 with mitigation measures)

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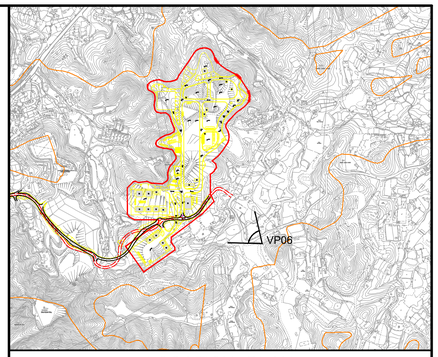

LOCATION PLAN
N.T.S.

Vantage Point 06 (VP06)

Vantage Point Elevation: +26.4mPD
Viewing distance: 200m
Maximum Height of Proposed Scheme: +75.5mPD

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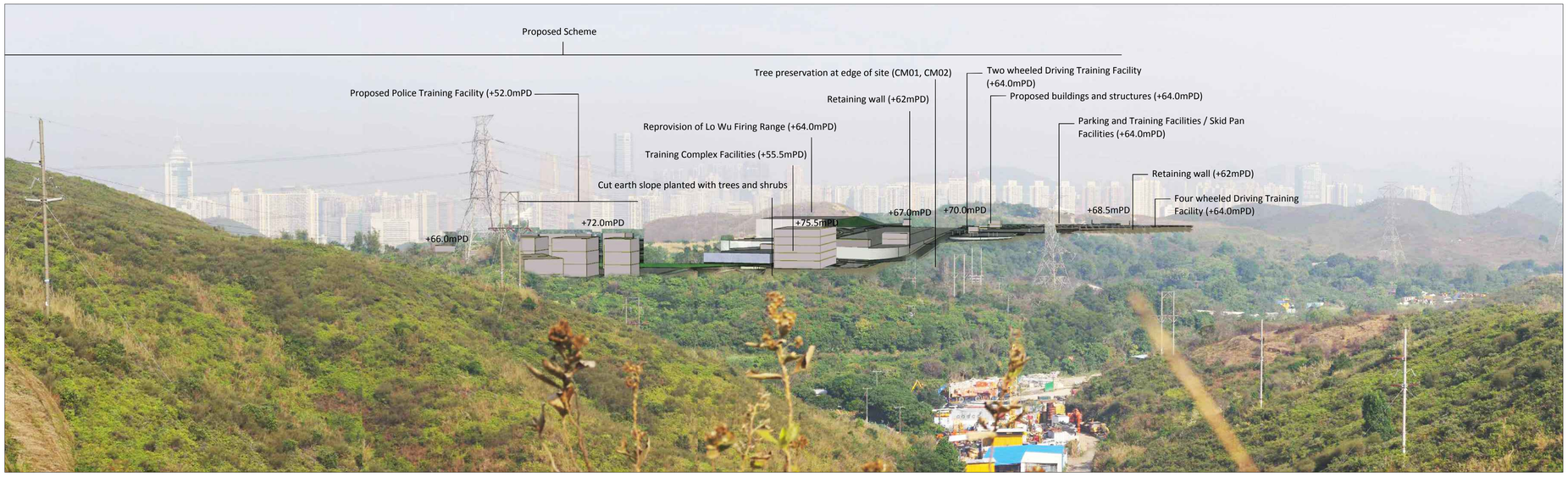
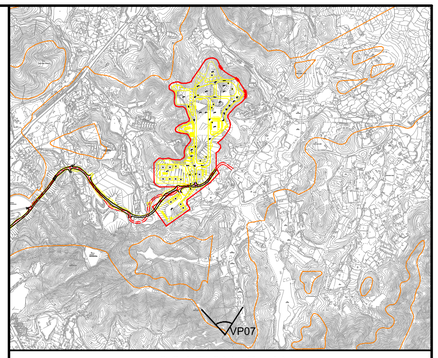
FIGURE 10-50



Vantage Point 07: View looking north for trail walkers on ridgeline footpath (VSR 3.1) (Existing Situation)



Vantage Point 07: View looking north for trail walkers on ridgeline footpath (VSR 3.1) (Day 1 with no mitigation measures)



LOCATION PLAN
N.T.S.

Vantage Point 07 (VP07)

Vantage Point Elevation: +80.0mPD
Viewing distance: 890m
Maximum Height of Proposed Scheme: +75.5mPD

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FIGURE 10-51

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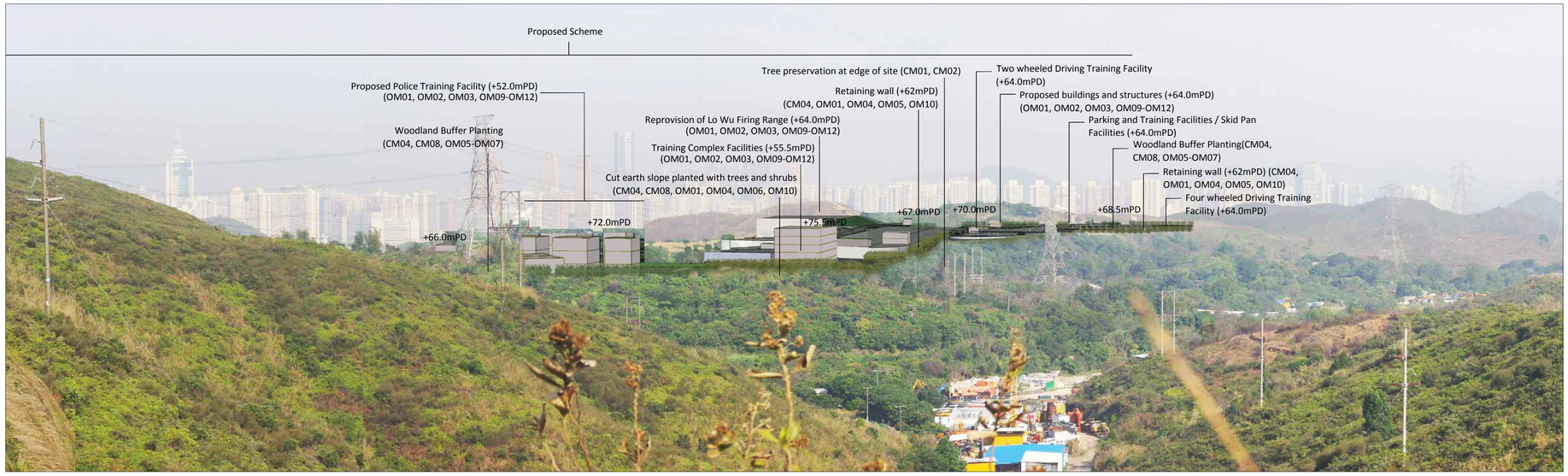
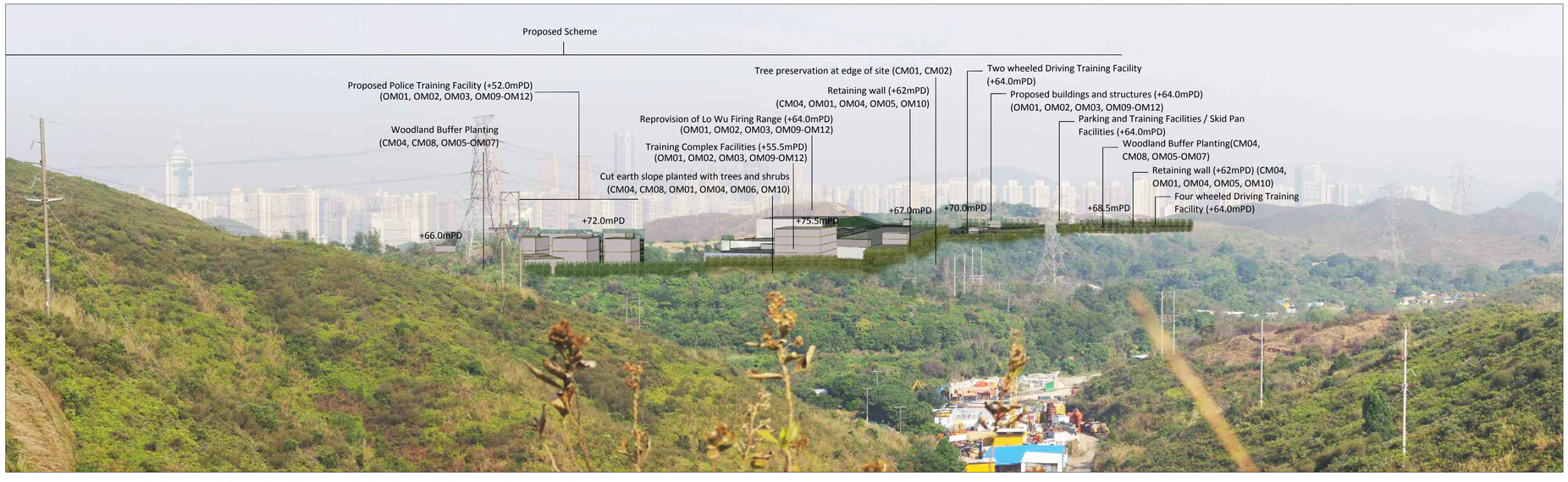


Vantage Point 07: View looking north for trail walkers on ridgeline footpath (VSR 3.1) (Day 1 with mitigation measures)



Vantage Point 07: View looking north for trail walkers on ridgeline footpath (VSR 3.1) (Year 10 with mitigation measures)

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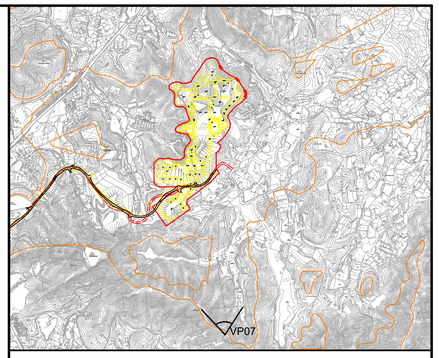

LOCATION PLAN
N.T.S.

Vantage Point 07 (VP07)

Vantage Point Elevation: +80.0mPD
Viewing distance: 890m
Maximum Height of Proposed Scheme: +75.5mPD

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Project
AGREEMENT NO. CE31 / 2014(CE) ENGINEERING STUDY FOR POLICE FACILITIES IN KONG NGA PO - FEASIBILITY STUDY

Title
LANDSCAPE AND VISUAL MITIGATION MEASURES - PHOTOMONTAGE

Designed	KC		Eng check	MT	
Drawn	CCH		Coordination	LL	
Dwg check	KC		Approved	SHC	
Scale at A1	N.T.S.	Status	PRE	Rev	P1

Drawing Number
FIGURE 10-52



Vantage Point 08: View looking east for vehicle travellers and pedestrians on small rural road (San Uk Ling) (VSR4.3) (Existing Situation)



Vantage Point 08: View looking east for vehicle travellers and pedestrians on small rural road (San Uk Ling) (VSR4.3) (Day 1 with no mitigation measures)

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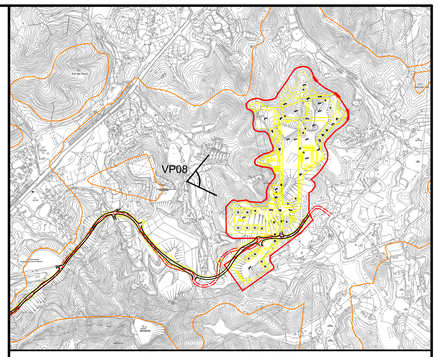

LOCATION PLAN
N.T.S.

Vantage Point 08 (VP08)

Vantage Point Elevation: +17.0mPD
Viewing distance: 290m
Maximum Height of Proposed Scheme: +75.5mPD

Note:

Red dashed line shows position of proposed scheme.

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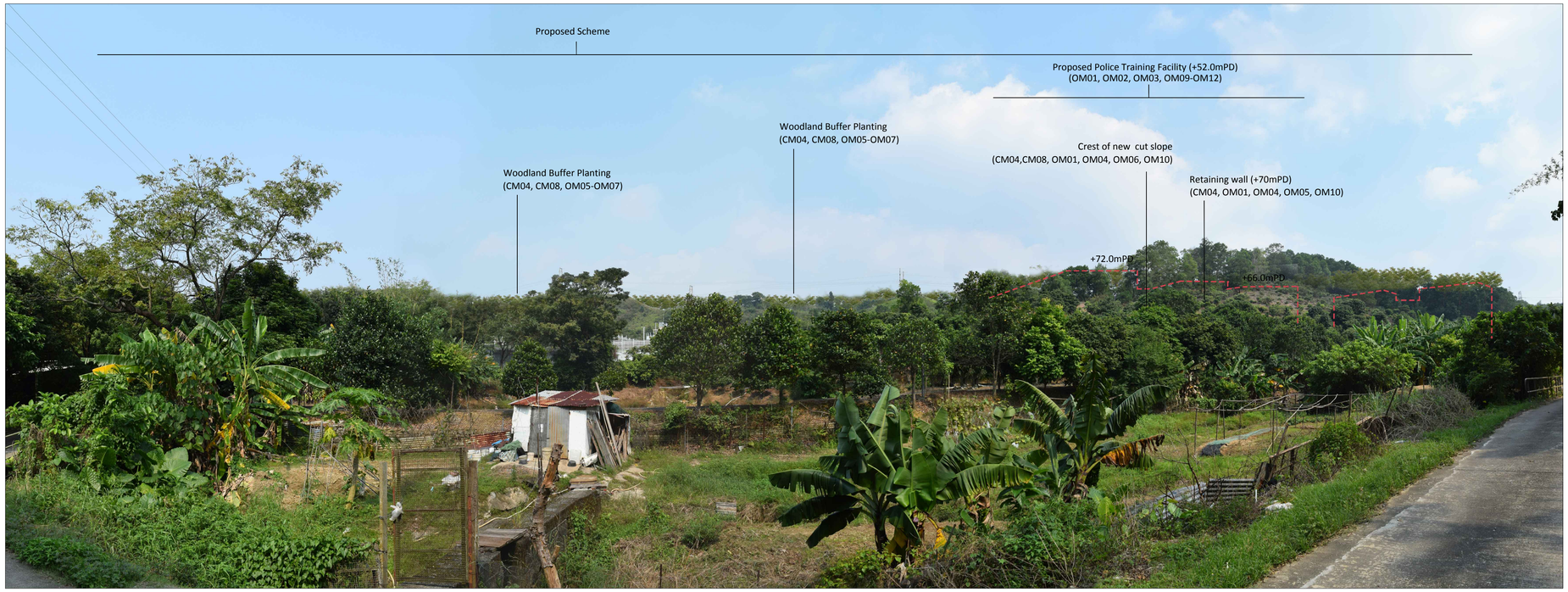
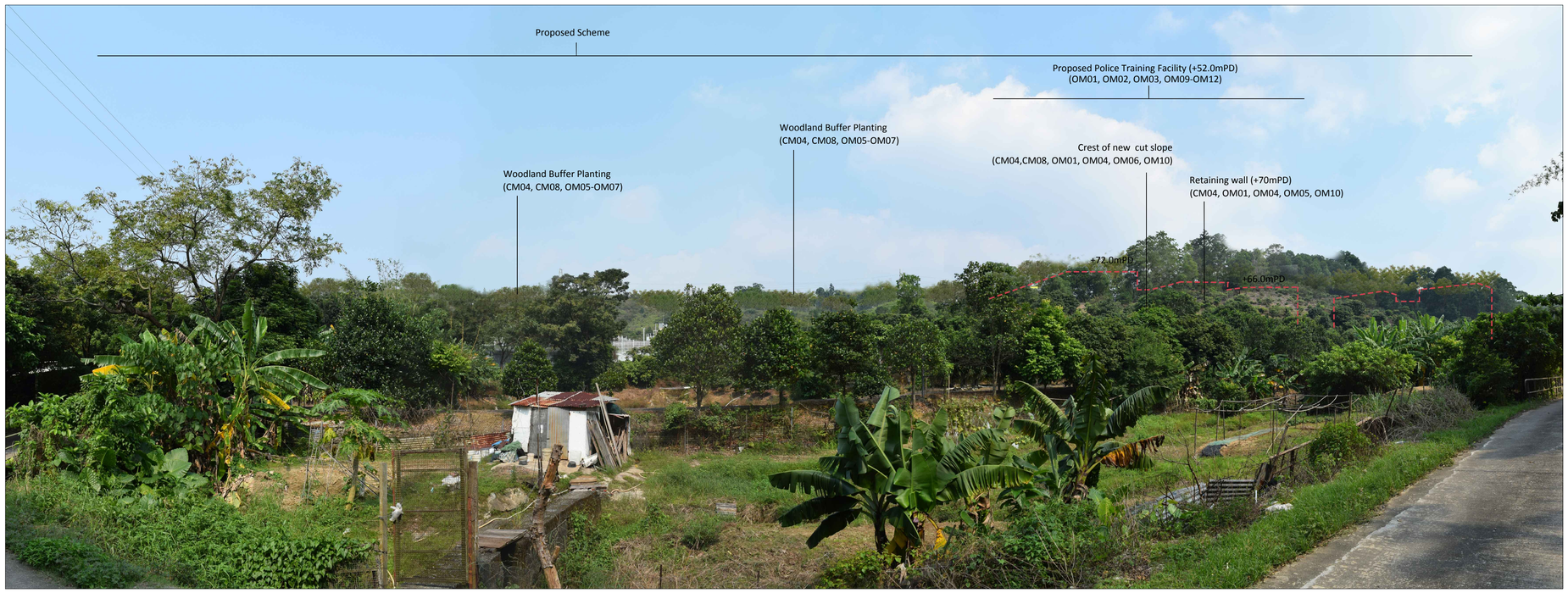
FIGURE 10-53



Vantage Point 08: View looking east for vehicle travellers and pedestrians on small rural road (San Uk Ling) (VSR4.3) (Day 1 with mitigation measures)



Vantage Point 08: View looking east for vehicle travellers and pedestrians on small rural road (San Uk Ling) (VSR4.3) (Year 10 with mitigation measures)

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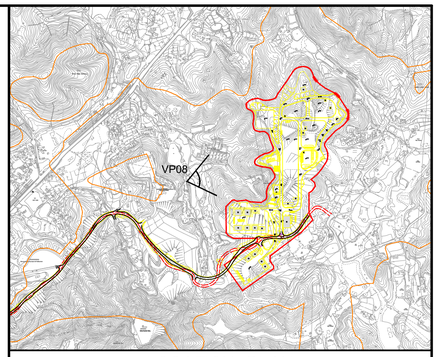

LOCATION PLAN
N.T.S.

Vantage Point 08 (VP08)

Vantage Point Elevation: +17.0mPD
Viewing distance: 290m
Maximum Height of Proposed Scheme: +75.5mPD

Note:

Red dashed line shows position of proposed scheme.

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Drawing Number
FIGURE 10-54



Vantage Point 09: View looking south for residents of agricultural holding north of Kong Nga Po Road (VSR 4.5) (Existing Situation)



Vantage Point 09: View looking south for residents of agricultural holding north of Kong Nga Po Road (VSR 4.5) (Day 1 with no mitigation measures)

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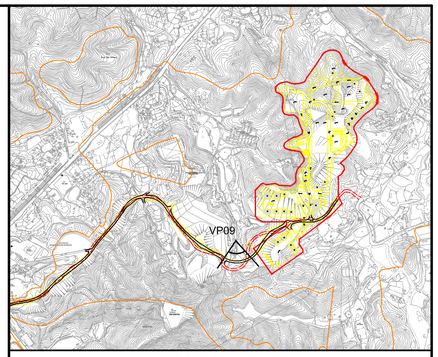

LOCATION PLAN
N.T.S.

Vantage Point 09 (VP09)

Vantage Point Elevation: +24.7mPD
Viewing distance: 50m
Maximum Height of Proposed Scheme: +75.5mPD

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Dwg check	KC		Approved	SHC	
Scale at A1	N.T.S.	Status	PRE	Rev	P1

Drawing Number
FIGURE 10-55



Vantage Point 09: View looking south for residents of agricultural holding north of Kong Nga Po Road (VSR 4.5) (Day 1 with mitigation measures)



Vantage Point 09: View looking south for residents of agricultural holding north of Kong Nga Po Road (VSR 4.5) (Year 10 with mitigation measures)

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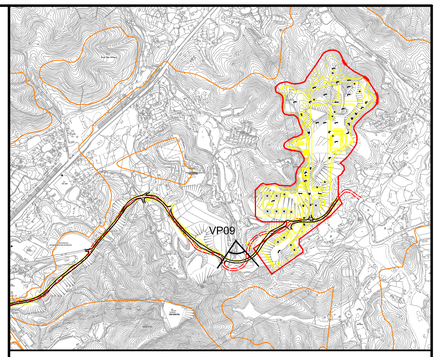

LOCATION PLAN
N.T.S.

Vantage Point 09 (VP09)

Vantage Point Elevation: +24.7mPD
Viewing distance: 50m
Maximum Height of Proposed Scheme: +75.5mPD

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Dwg check	KC		Approved	SHC	
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Drawing Number
FIGURE 10-56

Appendix X

Landscape and Visual Mitigation Plan Implementation Schedule

Landscape and Visual Mitigation Plan Implementation Schedule

The Permit Holder and any person constructing (or "operating" as the case may be) the Project shall fully implement all mitigation measures in this Plan/Report. Key measures are included in the Implementation Schedule (IS) below for focusing on key issues and easier checking. However, all measures in this Plan/Report, whether included in the IS or not, shall be fully carried out.

Recommended Mitigation Measures (What Measures)	**Objective of the Measures (What Requirements)**	**Who to Implement / Maintain the Measures? (Who)**	**Location of the Measures (Where)**	**When to Implement the Measures? (When)**	**Reference to paragraph(s) in this Landscape and Visual Mitigation Plan**
Tree protection and preservation a. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at the detailed design stage for further retention of individual trees. b. During construction period, retained trees will be protected from impact from construction activity as per General Specification for Civil Engineering Works (2006 Edition), Section 26 – Preservation and Protection of Trees and Guidelines on Tree Preservation during Development.	To avoid potential impact on retained tree from construction activities such as materials storage; To make sure that the retained tree are not affected by the construction activities of the Project	CEDD's and ArchSD's Contractor	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Design and construction phase of CEDD's and ArchSD's Contracts	Refers to para 4.1.5 and Appendix III of this report

Recommended Mitigation Measures (What Measures)	Objective of the Measures (What Requirements)	Who to Implement / Maintain the Measures? (Who)	Location of the Measures (Where)	When to Implement the Measures? (When)	Reference to paragraph(s) in this Landscape and Visual Mitigation Plan
Tree transplantation a. If removal of trees unavoidable due to construction impacts, trees will be transplanted where technically feasible in accordance with "Guidelines on Tree Transplanting" by DEVB and HQ/GN/13 and HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit where applicable.	To preserve the trees with conservation interest which are unavoidably affected by the construction activities.	CEDD's Contractors	The location of three *Aquilaria sinensis* at Site Portion B and D, and the receptor site for the transplanted trees opposite Portion B1 of the site.	Construction Stage of CEDD's Contracts	Refers to para(s). 4.1.6, 4.1.7 and Appendix III of this report
Work area and temporary works area a. Reduction of the extent and location of working areas to avoid sensitive LRs b. Siting of offices or temporary structures so that they are not visually prominent c. Consideration of detailed schedules to shorten the construction period d. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and areas of earthworks to alleviate the potential impacts and minimise soil erosion.	To minimize the landscape and visual impacts by construction area control	CEDD's and ArchSD's Contractors	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Construction Stage of CEDD's and ArchSD's Contracts	Refers to Appendix V of this report

Recommended Mitigation Measures (What Measures)	**Objective of the Measures (What Requirements)**	**Who to Implement / Maintain the Measures? (Who)**	**Location of the Measures (Where)**	**When to Implement the Measures? (When)**	**Reference to paragraph(s) in this Landscape and Visual Mitigation Plan**
Advance implementation of mitigation planting a. Replanting of existing / disturbed vegetation shall be undertaken as soon astechnically feasible during the construction phase.	To mitigate the predicted impacts including screening views of the proposals as early as possible during the operation phase.	CEDD's and ArchSD's Contractor	Whole project site area, priority given to periphery of the site	Construction Stage of CEDD's and ArchSD's Contracts	Refers to Appendix V of this report
Decorative screen hoarding a. Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs) b. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used.	To screen undesirable views of the works site.	CEDD's and ArchSD's Contractors	Along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs)	Construction Phase CEDD's and ArchSD's Contracts	Refers to Appendix V of this report

Recommended Mitigation Measures (What Measures)	**Objective of the Measures (What Requirements)**	**Who to Implement / Maintain the Measures? (Who)**	**Location of the Measures (Where)**	**When to Implement the Measures? (When)**	**Reference to paragraph(s) in this Landscape and Visual Mitigation Plan**
Detail design considerations a. Detailed design of development components should reduce landscape footprint and visibility of structures.	To reduce the area allowed for any development to a practical minimum	CEDD's Detailed Designers / Consultants ArchSD's Detailed Designers / Consultants	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Design Stage of CEDD's and ArchSD's Contracts	Refers to para(s). 5.2.1 of the report

Recommended Mitigation Measures (What Measures)	Objective of the Measures (What Requirements)	Who to Implement / Maintain the Measures? (Who)	Location of the Measures (Where)	When to Implement the Measures? (When)	Reference to paragraph(s) in this Landscape and Visual Mitigation Plan
Aesthetically pleasing design and responsive design of buildings and structures a. The form, textures, finishes and colours of the proposed development components should be compatible with the existing surroundings. Light earthy tone colours such as shades of green, grey, brown and off-white may be utilised where technically feasible to reduce the visibility of the development components, including all roadwork, buildings and noise barriers etc b. Adopting natural building materials such as stone and timber should be for architectural features, where technically feasible. c. Using responsive design for the disposition of the main elements of the proposed scheme including the locations of buildings and utility structures. d. Grouping of utilities and infrastructure components into proposed buildings as far as technically feasible to reduce the mass of development e. The disposition and height profile of the developments and above ground utilities structures to respond to the existing context particularly	a. To reduce the visibility of the development components b. To further improve visual amenity c. To reduce the mass of development d. To minimise the 'wall effects' and create a subtle transition at the edges of the site	ArchSD's Detailed Designers / Consultants	Within KNP Police Facilities Site	Design Stage ArchSD's Contract	Refers to para(s). 5.4.3 and 5.4.4 of the report

Recommended Mitigation Measures (What Measures)	Objective of the Measures (What Requirements)	Who to Implement / Maintain the Measures? (Who)	Location of the Measures (Where)	When to Implement the Measures? (When)	Reference to paragraph(s) in this Landscape and Visual Mitigation Plan
the existing landform and preserved trees, f. Creation of setbacks, articulating the development frontage and maintenance of view corridors when technically feasible	e. To enhance the sense of visual integration with the existing context, avoid abrupt transitions between the existing and proposed built environment and reduce the apparent visual mass of the proposed developments.				

Recommended Mitigation Measures (What Measures)	**Objective of the Measures (What Requirements)**	**Who to Implement / Maintain the Measures? (Who)**	**Location of the Measures (Where)**	**When to Implement the Measures? (When)**	**Reference to paragraph(s) in this Landscape and Visual Mitigation Plan**
Design of engineering structure a. The design of the proposed Engineering Structures such as the proposed road layout and any ancillary structures including the sewage pumping station and the Ma Tso Lung Firing Range should pay particular attention to the appearance and construction methods. b. The detailed design landscape consultants shall work in unison with the engineers on the aesthetic aspects of the structures and their relationship with the landscape. c. The design of engineering structures shall avoid any unnecessary visual clutter achieved through the co-ordination of the various engineering disciplines involved to arrive at integrated design solutions.	To give the engineering structures a more natural appearance that allows them to blend into the local rural landscape.	CEDD's Detailed Designers / Consultants	Whole project site area	Design Stage of CEDD's Contracts	Refers to para(s). 5.2.1 of the report

Recommended Mitigation Measures (What Measures)	Objective of the Measures (What Requirements)	Who to Implement / Maintain the Measures? (Who)	Location of the Measures (Where)	When to Implement the Measures? (When)	Reference to paragraph(s) in this Landscape and Visual Mitigation Plan
Design of retaining walls and slopes a. The proposed treatment of Retaining Wall and Slopes will be undertaken in accordance with GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment and Bioengineering for Man-made Slopes and Retaining Walls". b. These engineering structures will be aesthetically enhanced through the use of soft landscape works including tree and shrub planting.	To give man-made slopes a more natural appearance blending into the local rural landscape.	CEDD's Detailed Designers / Consultants	Retaining walls and slopes within the whole site area	Design Stage of CEDD's Contracts	Refers to para(s). 5.2.1(c) of the report

Recommended Mitigation Measures (What Measures)	**Objective of the Measures (What Requirements)**	**Who to Implement / Maintain the Measures? (Who)**	**Location of the Measures (Where)**	**When to Implement the Measures? (When)**	**Reference to paragraph(s) in this Landscape and Visual Mitigation Plan**
Compensatory planting proposal a. All compensatory planting of trees is to be carried out in accordance with DEVB TCW No. 7/2015. A total woodland compensation area of 5.54 ha is proposed. b. The planting proposals will utilise largely native species in accordance with GLTM/DEVB's - Guiding Principles on Use of Native Plant Species in Public Works Projects, c. Some compensatory shrub and ground cover planting will also be provided within the woodland area to create a more structurally diverse woodland. d. Woodland areas will utilise a combination of large sized tree stock (including heavy standard sized trees) and whip sized trees to create a more naturalistic e. The smaller, younger plant stock will adapt to their new growing conditions more quickly than larger sized stock and establish a naturalistic effect more rapidly. f. Roadside and amenity planting will utilise largely heavy standard sized trees.	To compensate for the existing dead trees to be removed and create a more structurally diverse woodland.	CEDD's and ArchSD's Contractors	CEDD: Along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD: Within KNP Police Facilities Site	Construction Stage of CEDD's and ArchSD's Contract	Refers to para(s). 5.2.2, 5.3.1, 5.4.1 and Appendix III and IV of the report

Recommended Mitigation Measures (What Measures)	**Objective of the Measures (What Requirements)**	**Who to Implement / Maintain the Measures? (Who)**	**Location of the Measures (Where)**	**When to Implement the Measures? (When)**	**Reference to paragraph(s) in this Landscape and Visual Mitigation Plan**
Landscape buffer tree planting a. Tree planting using larger sized tree stock shall be provided to screen the proposed structures and associated facilities. b. The planting will utilise native species wherever possible.	To improve compatibility with the surrounding environment and create a pleasant pedestrian environment.	CEDD's and ArchSD's Contractors	CEDD: along KNP Road where applicable and slopes within KNP Police Facilities Site ArchSD : within KNP Police Facilities Site	Construction Stage of CEDD's and ArchSD's Contract	Refers to para(s). 5.2.2, 5.3.1 and 5.4.1 of the report
Roadside and amenity planting (within KNP Police Facilitate Site) a. Roadside and amenity planting using predominantly native species	To enhance the landscape and visual quality of the existing and proposed transport routes and car parks.	ArchSD's Contractor	KNP Police Facilities Site	Construction Stage of ArchSD's Contract	Refers to para(s). 5.3.1 and 5.4.1 of the report

Recommended Mitigation Measures (What Measures)	Objective of the Measures (What Requirements)	Who to Implement / Maintain the Measures? (Who)	Location of the Measures (Where)	When to Implement the Measures? (When)	Reference to paragraph(s) in this Landscape and Visual Mitigation Plan
Grassland (ecological mitigation) a. Creation of new grassland areas approximately 1.02 ha in size. Inclusion of common grass species *Ischaemum barbatum* and *Tetradium glabrifolium* (the larval food plants for butterfly species).	To provide larval food plants for the butterfly species.	ArchSD's Contractors	ArchSD : within KNP Police Facilities Site	Construction Stage of ArchSD's Contract	Refers to para(s). 5.4.2 of the report
Green roof (within KNP Police Facilitate Site) a. Green roofs predominantly using native species shall be introduced where technically feasible on proposed buildings to reduce exposure of untreated concrete surfaces b. Location and extent of green roof subject to detailed design.	To enhance the sustainability of the design and mitigate visual impact to VSRs at high levels	ArchSD's Contractor	Within KNP Police Facilitate Site	Construction stage of ArchSD's Contract	Refers to para(s). 5.4.4 of the report

Recommended Mitigation Measures (What Measures)	Objective of the Measures (What Requirements)	Who to Implement / Maintain the Measures? (Who)	Location of the Measures (Where)	When to Implement the Measures? (When)	Reference to paragraph(s) in this Landscape and Visual Mitigation Plan
Vertical greening a. Vertical planting shall be introduced using predominantly native species. b. Planting to utilise climbing and trailing plants. Location and extent of vertical greening subject to detailed design.	To soften the hard, vertical surfaces of the proposed development components including the walls of the proposed buildings and retaining walls.	ArchSD's Contractors	ArchSD : within KNP Police Facilitate Site	Construction Stage of ArchSD's Contract	Refers to para(s). 5.4.3 of the report

Recommended Mitigation Measures (What Measures)	Objective of the Measures (What Requirements)	Who to Implement / Maintain the Measures? (Who)	Location of the Measures (Where)	When to Implement the Measures? (When)	Reference to paragraph(s) in this Landscape and Visual Mitigation Plan
Green paving (within KNP Police Facilitate Site) a. Green paving approach such as grass-crete or grass-grid to maximise the area of planting and reduce the area of hard paving b. Location and extent of green paving subject to detailed design of the ArchSD's contract. This includes the use of permeable paving where grass-crete / grass grid is not practicable.	To reduce the area of hard paving	ArchSD's Contractor	Within KNP Police Facilitate Site	Construction stage of ArchSD's Contracts	Refers to para(s). 5.4.4 of the report

Recommended Mitigation Measures (What Measures)	Objective of the Measures (What Requirements)	Who to Implement / Maintain the Measures? (Who)	Location of the Measures (Where)	When to Implement the Measures? (When)	Reference to paragraph(s) in this Landscape and Visual Mitigation Plan
Light control (operation) a. Street and night time lighting glare will be controlled	To minimize glare impact to adjacent VSRs during the operation stage.	HKPF and HyD	HKPF: Within KNP Police Facilitate Site HyD: Along Kong Nga Po Road	Operation Stage	Refers to para(s). 5.5.6 of the report