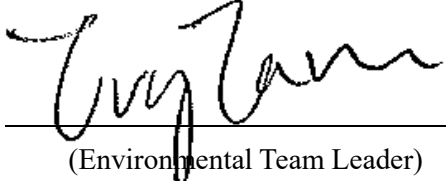
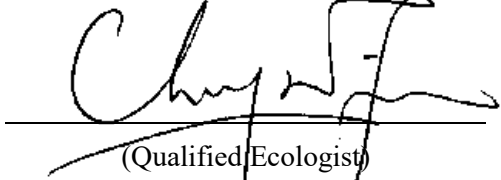


Civil Engineering and Development Department

Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Transplantation Proposal (Version 3.0)

Certified By	 (Environmental Team Leader)
Prepared By	 (Qualified Ecologist)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

WELLAB accepts no responsibility for changes made to this report by third parties.

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1 INTRODUCTION

- 1.1 The Project consists of site formation works and building works for the co-location of various police facilities in the Project site at Kong Nga Po as well as road improvement works to a section of the existing Kong Nga Po Road between the police facilities and Man Kam To Road. The police facilities include:
- Lo Wu Firing Range (LWFR) to be relocated from Lo Wu;
 - Ma Tso Lung Firing Range (MTLFR) to be relocated from Ma Tso Lung;
 - Weapons Training Facilities (WTF) and Police Driving and Traffic Training Facilities (PD&TTF) to be relocated from Fan Garden;
 - Helipad to be relocated from Lo Wu;
 - A Proposed Police Training Facility (PTF); and
 - A new internal access road network with underpass within the Project site.
- 1.2 The improvement works to Kong Nga Po Road between the police facilities and Man Kam To Road includes roadworks, viaduct of less than 100m between abutments, and associated works such as slopeworks and retaining walls.
- 1.3 In addition to the above, associated supporting infrastructure and utilities including an underground stormwater storage tank, sewage pumping station, petrol / diesel filling station, a multi-storey training complex associated with the PD&TTF, and other ancillary facilities will also be provided.
- 1.4 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) Report for the Project was approved under EIAO in October 2016 in accordance with the EIA Study Brief (No. ESB-276/2014) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit was issued (EP no.: EP-510/2016) by the Director of Environmental Protection (DEP) in November 2016.
- 1.5 Contract No. ND/2018/01 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 (hereinafter called “the Project”). The major construction activities of the Project are site formation and infrastructure works which will include site clearance, excavation and filling, construction of access road, utilities laying and landscaping works.
- 1.6 The EIA Report identified flora species of conservation importance within the works area of the Project. Section 8.3.1 of the Environmental Monitoring and Audit (EM&A) Manual and Condition 2.13(ii) of the EP specifies that a Transplantation Proposal for each species should be submitted no later than 1 month before commencement of plant transplantation. Wellab Limited was commissioned by the Civil Engineering Development Department (CEDD) to prepare a Transplantation Proposal. This proposal is prepared by a qualified ecologist with at least 5 years relevant experience in accordance with EP Condition 2.4 and 2.14 (**Appendix C** refers). Details of the proposal include:
- the target species to be transplanted;
 - proposed receptor site;

- transplantation proposal including methodology, transplantation programme; a post-transplantation monitoring and maintenance programme; and
- protection measures for retained / transplanted individuals.

2 TARGET SPECIES TO BE TRANSPLANTED

Summary of Findings of Detailed Vegetation Survey

- 2.1 A detailed vegetation survey was conducted from 28th February to 6th March 2020 to verify the findings in EIA, and to identify whether or not other species of conservation importance are present in the works boundary, including Kong Nga Po Road (**Drawing No. 60534575/C1/1000A – 60534575/C1//1001-1009**). Definition of “species of conservation importance” follows the Technical Memorandum of Environmental Impact Assessment Ordinance (EIAO-TM) Annex 16: Guidelines for Ecological Assessment, criteria related to plants include:
1. listed in IUCN Red Data Books or those of the South China region;
 2. listed in international conventions for conservation of wildlife;
 3. endemic to Hong Kong or South China;
 4. listed under local legislation :
 - (1) Forestry Regulation (under Forests and Countryside Ordinance Cap. 96);
 - (2) Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586);
 - (3) Other relevant Ordinances or Regulations such as Marine Parks and Marine Reserves Regulation (under Marine Parks Ordinance Cap. 476);
(References shall also be made to species protected by legislation in China, especially the Guangdong Province.)
 5. considered as rare in the territory or having special conservation importance by scientific studies other than those listed above.
- 2.2 Only plant species of conservation importance that naturally grows within the works boundary were counted. Species that are planted for landscape purpose or human consumption (e.g. fruit trees near village) were excluded.
- 2.3 Four plant species of conservation importance (*Aquilaria sinensis*, *Brainea insignis*, *Keteleeria fortunei* and *Spiranthes sinensis*) were recorded within and in the vicinity of the site boundary as shown in **Table 2.1**. All species have been reported in the EIA Report and Explanatory Statement for Revised Layout Plan of Kong Nga Po Road (Final) respectively.

Table 2.1 Flora Species of Conservation Importance Found within Survey Areas in the Current Study

Chinese Name (Species Name)	Conservation and Protection Status	Distribution in Hong Kong	No. of Individuals observed during Vegetation Survey	No. of Affected Individuals
蘇鐵蕨 Cycad-fern (<i>Brainea insignis</i>)	Listed as Category II protected species in Mainland China	Considered Common in Hong Kong ⁽¹⁾ ; Listed in Rare and Precious Plants of Hong Kong ⁽¹⁾	71	71
綬草 Ladies Tresses (<i>Spiranthes sinensis</i>)	Listed under Forestry Regulations (Cap. 96 sub. leg.) and Protection of Endangered Species of Animals and Plants Ordinance (Cap.586) in Hong Kong	This species is considered common and widespread in Hong Kong ^(3,4) ; Listed as “least concern” under IUCN Red List of Threatened Species ⁽²⁾	41	41
油杉 Fortune’s Keteleeria (<i>Keteleeria fortunei</i>)	Listed under Forestry Regulations (Cap. 96 sub. leg.)	This species has been propagated in the natural environment with promising results ⁽⁶⁾ ; Listed as Near Threatened under IUCN Red List of Threatened Species ⁽²⁾	80	0
土沉香 Incense Tree (<i>Aquilaria sinensis</i>) - Undersized Seedlings	Listed under Protection of Endangered Species of Animals and Plants Ordinance (Cap.586) in Hong Kong; listed as near threatened in mainland China ⁽¹⁾ ; Category II protected species in Mainland China.	The species is common in Hong Kong ⁽⁷⁾ ; Listed as “vulnerable” under IUCN Red List of Threatened Species ⁽²⁾ .	7	0
土沉香 Incense Tree (<i>Aquilaria sinensis</i>)	Listed under Protection of Endangered Species of Animals and Plants Ordinance (Cap.586) in Hong Kong; listed as near threatened in mainland China ⁽¹⁾ ; Category II protected species in Mainland China.	The species is common in Hong Kong ⁽⁷⁾ ; Listed as “vulnerable” under IUCN Red List of Threatened Species ⁽²⁾ .	3	3

Reference sources:

- (1) Rare and Precious Plants of Hong Kong (AFCD, 2003)
- (2) IUCN Red List of Threatened Species (IUCN, 2015)
- (3) Flora of Hong Kong Volume 4 (Hong Kong Herbarium and South China Botanical Garden, 2011)
- (4) The Wild Orchids of Hong Kong (Baretto et al., 2011)
- (5) Flora of Hong Kong Volume 1 (Hong Kong Herbarium and South China Botanical Garden, 2007)
- (6) Hong Kong Biodiversity Issue No. 20 (Pang et al., 2011)
- (7) Hong Kong Vascular Plants: Distribution and Status (Corlett et al., 2000)

- 2.4 The location of all plant species are illustrated in **Figures 1A-1F**. A plant schedule showing survey summary and photographic record are shown in **Appendix A and B** respectively.

Recommendations

- 2.5 The proposed treatment and justification for each identified plant species are explained below:

Avoidance (Retain)

- 2.6 The works area has been refined in accordance with the Revised Layout Plan of Kong Nga Po Road to avoid the direct impact on the existing *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings). Therefore, *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings) along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School identified from the survey would be preserved. They will be protected in accordance with DBVE TC(W) 7/2015 on “Tree Preservation” and tree risk assessment in accordance with “Guidelines for Tree Risk Assessment and Management Arrangement” by DEVB shall be undertaken during the construction period. In addition, the construction works will comply with Section 26 of the General Specification for Civil Engineering Works (2006 Edition) for preservation and protection of trees as appropriate.
- 2.7 According to Section 9.7.1 of the EIA Report, erection and maintenance of a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey is recommended to avoid potential impact from construction activities such as materials storage during construction phase. Monthly monitoring of any other flora species of conservation interest identified in the detailed vegetation survey should be conducted during the construction phase to make sure that the flora species of conservation interest are not affected by the construction activities of the Project.
- 2.8 The details of the protection measures for the existing *Keteleeria fortunei* and *Aquilaria sinensis* are presented in Section 5.

Minimization (Transplant)

- 2.9 Plants that fall within the Project site are prone to damage during site clearance. If impact on the plant species of conservation importance cannot be avoided, the suitability and /or practicality of transplantation will be assessed according to Condition 2.13(i) of the EP. Considerations include health condition, site condition, transplantation feasibility, conservation value and availability of receptor site. With reference to the *Guidelines on Tree Transplanting* issued by the Development Bureau, the suitability of transplantation of affected individuals was reviewed based on the following considerations:
- **Health, form and structural condition** – Healthy individual has higher chance to survive the transplant shock and recover after transplantation. Plants with poor form or structure (e.g. inclining, multiple trunk) have imbalanced shape that is difficult to grow well in new environment. Therefore, only healthy individuals with good to fair form and structural conditions will be considered for transplantation.

- **Formation of root ball** – A balanced root ball of suitable size is essential to support the transplanted plant and to re-grow for water and nutrient absorption. In general, the ratio between root ball diameter:trunk diameter is 8:1 to 10:1. Also, plants growing on steep slope develop roots that adapt to the existing gradient. If there is hindrance in the root growing direction (e.g. rocks and concrete structure), the root ball will be in unbalanced form and hard to support the plant in new environment. Mature plant needs larger root ball, implying that higher chance of imbalanced root ball formation on the sloped environment. Therefore, transplantation of herbs and young trees is recommended.
 - **Technical feasibility and cost effectiveness** – Unless the plant is located near road network, mobilization of powered mechanical equipment on the slope for large tree transplant is technical impractical and not cost-effective.
 - **Conservation value** – While all plants considered in this proposal have certain conservation statuses, the commonness of the species in Hong Kong should be considered in evaluating the impact of removing the affected plant in a wider perspective (population survival).
 - **Availability of Suitable Receptor Site** – Areas within the survey area but outside the development area will be the receptor site of the affected plants. Habitat similar to the existing growing environment will be chosen to enhance the survival rate after transplant.
- 2.10 Based on the above, transplantation of 3 individuals of *Aquilaria sinensis*, all *Brainea insignis* and *Spiranthes sinensis* identified in works areas are recommended. The exact numbers to be transplanted are subject to the actual site conditions.
- 2.11 It is proposed that all identified flora species of conservation interest within the works boundary, including Kong Nga Po Road, will be protected according to Section 5 prior to the commencement of any site clearance works adjacent to the flora species of conservation interest. No site clearance for site formation and infrastructure works will be started at the locations of flora species of conservation interest until the transplantation works completed.
- 2.12 A 2m buffer zone (including 1m protection zone as mentioned in Section 5) will be created to enhance the protection of flora species of conservation importance to be preserved / transplanted (inclusive of trees, shrubs and herbs) including the proposed location for transplantation of flora species of conservation importance when the site clearance works for site formation and infrastructure works at the area without flora species of conservation importance shall commence before the transplantation works completed.

3 PROPOSED RECEPTOR SITE

3.1 Pre-transplantation surveys were undertaken to identify the most suitable receptor site for the transplantation of the flora species of conservation interest. The selection of the suitable receptor site has generally been based on the following criteria:-

- Area of similar habitat characteristics as the donor site and preferable with previous records of the species in the areas.
- Area not affected by the construction activities and away from human disturbance.
- Area adequately away from the project site but not difficult to access in order to minimize the transportation time as well as the impacts on the transplanted individuals.

3.2 The receptor site of the transplanted *Brainea insignis*, *Spiranthes sinensis* and *Aquilaria sinensis* is shown in **Figure 2** and **Figure 3** respectively.

3.3 The receptor site will be reassessed prior to the commencement of transplantation taking into account the latest site condition. Habitat characteristics, as mentioned in Section 3.1, of the alternative sites should be similar to that of their original locations. Should any changes in the location of receptor site be proposed afterwards, the Director of Environmental Protection (DEP) will be informed for prior consideration.

4 TRANSPLANTATION PROPOSAL

Transplantation Program

- 4.1 The transplantation works should be completed before site clearance works at the location of flora species of conservation importance.
- 4.2 The transplantation of *Brainea insignis* and *Spiranthes sinensis* (including root ball preparation, uplifting and planting into the receptor sites) is scheduled to be carried out no later than the end of May 2020 to allow rapid regeneration of new roots from the cuts during the growing season of these two flora species.
- 4.3 According to the construction program in **Appendix E**, 3 of the affected individuals of *Aquilaria sinensis* would be required to be transplanted before the site clearance works at the location of *Aquilaria sinensis*. The transplantation of the 3 individuals of *Aquilaria sinensis* (including root ball preparation, uplifting and planting into the receptor sites) is scheduled to be completed in early October 2020.
- 4.4 After uplifting, these individuals would be transplanted immediately to the receptor sites on the same day as far as practicable. If the prepared receptor site is left unattended for too long, it may be changed by natural forces (e.g. rain). Therefore, the receptor site for each individual should be prepared about two weeks beforehand.
- 4.5 The process of transplantation would stress the plants. To maximize the survival rate and help plants resume their growth soon after transplantation, some specific techniques should be adopted as required during the transplantation process and post-transplantation maintenance and monitoring (e.g. The individuals should be watered properly and adequately or daily, if required, during the first three months after the transplantation as dry season approaches.)

Transplantation Methodology

Brainea insignis and Spiranthes sinensis

Preparation of Receptor sites

- 4.6 The proposed receptor site for the transplanted individuals should first be cleared of rubbish, weeds and stones over 25mm diameter that may interrupt plant growth. The soil should be ploughed/scarified to loosen the soil, introduce air and improve drainage. Planting holes 1.5 times greater than the root ball of the transplanted individuals. The depth should not be too deep that the root level should be below the surrounding ground level after transplanting. The prepared ground should be protected from being compacted, eroded, silted up or damaged.
- 4.7 Preparation of receptor site should be done carefully so that the root systems of the nearby vegetation are not damaged.

Preparation of root ball

- 4.8 Plants proposed to be transplanted are *Brainea insignis* and *Spiranthes sinensis*. As they do not have extensive root system, no root pruning is proposed and preparation of root

ball covering the entire root system is recommended. The plant should be well-watered before lifting. After digging up the plant, the root ball should be fully wrapped by damp Hessian and secured with a metal net or the like. As the plants are either not wooded or with weak stem, care should be taken to avoid damaging the plant during uprooting and movement. They should be picked up by their root balls but not the stem or leaves. The leaves should be softly wrapped with tarpaulin to protect from damage during transportation.

Soil-intact Transplantation

- 4.9 Uprooted plant should be transplanted to the receptor site as soon as possible, approximately two hours. Otherwise, they should be kept upright and watered at the nursery. At the receptor site, all wrappings should be removed before planting into the prepared pit. Soil excavated during pit preparation should be reused for backfilling. The soil should be slightly tamped to stabilize the plant. The plant should be well-watered once planted. Mulches can be added on soil surface to maintain moisture, as nutrients source and protection from sunlight and weed growth. As the receptor site is close to the construction area, robust and bright fencing should be erected to protect the plants.

Aquilaria sinensis

Preparation of Receptor site

- 4.10 The proposed receptor site for the transplanted individuals should first be cleared of rubbish, weeds and stones over 25mm diameter that may interrupt plant growth. The soil should be ploughed/scarified to loosen the soil, introduce air and improve drainage. Planting holes should be marked with individual tree numbers before the transplant and chosen to provide adequate growth space for future growth. A planting hole that is two to three times the width of the rootball. The prepared ground should be protected from being compacted, eroded, silted up or damaged.
- 4.11 Preparation of receptor site should be done carefully so that the root systems of the nearby vegetation are not damaged.

Preparation of root ball

- 4.12 As the transplanted trees are with medium size and healthy, the crown cleaning of any dead, diseased or damaged branches is considered not required.
- 4.13 Root pruning of tree to the specified size of root ball will be carried out before transplanting. The root ball diameter to tree diameter ranges from 8:1 to 10:1 according to international standards.
- 4.14 Sufficient time will be allowed between preparation and final lifting for development of new roots capable of sustaining and continuing the growth of the transplanted tree.
- 4.15 The root of plants should be kept moist during the whole transplantation process. Plants should be watered two to three days before digging if the soil is dry. Prior to digging, the lower branches of the plant should be tied up to prevent damage during digging, transporting and planting operations. A sharp spade should be used for root pruning to assure root wounds are clean cut. Digging should be done by hand and special attention

should be paid so that no damage is done to the fine root systems of the individual or the roots of the existing trees in the vicinity.

- 4.16 The trees will be secured with guying prior to each root pruning process.
- 4.17 The root ball will be tapered on the sides and then slanting inwards towards the base.
- 4.18 The root ball will stand on a pedestal of soil for shaping and burlapping before it is undercut.
- 4.19 The stems and branches of the trees will be well padded to protect from injury during the transplant.

Uplifting / Moving the Root Balls of the Transplanted Trees

- 4.20 Before uplifting/ moving the root balls, damp hessian is placed on the sides and across the tip of the ball and pinned. The hessian should cover the full circumference of the root ball with bottom skirt hanging out. This skirt is pinned to the root ball later after the tree is taken out of the hole. The base of the root ball should also be properly wrapped. This hessian shall be kept moist throughout the time of uplifting until the uplifted tree is transplanted in its new location.
- 4.21 Once the root balls are undercut, the formed root balls will be burlapped and then wrapped by the wire mesh.
- 4.22 Wire rope slings will be slipped into the underside of the root balls and wrap around all four sides of the root balls for the uplift/move.
- 4.23 The root balls will be uplifted via the wire rope slings and the tree trunk/stem will not be used as the main anchorage point for the uplift/move.
- 4.24 The uplifted root balls will be transplanted and watered on the same day.
- 4.25 Lifting and transplanting operations will be carried out only following a thorough watering by the Contractor or a period of rainfall.
- 4.26 All uplifted root balls will be transplanted directly by crane to the proposed receptor sites that are not far from their original sites.
- 4.27 During the transplant, canopies of the existing trees if any next to the proposed receptor sites will be protected to avoid any mechanical damage.
- 4.28 Preparation of the receptor sites will be finished before transplanting the uplifted root balls.

Planting of the root balls

- 4.29 The uplifted root balls should be transported and planted in the prepared planting holes as soon as possible, approximately two hours, with appropriate planting orientation to suit the plants' original growth environment. All wrappings should be removed before planting into the prepared planting holes.
- 4.30 The bottom of the trunk flare/stem of the plants will be at or slightly above the finished grade to avoid suffocation of the trunk flare/stem.

-
- 4.31 The planting hole will be backfilled with soil mix, which will be compacted in layers around the root ball until level with the surrounding ground to limit future settling and prevent air pockets. The backfill will not be compacted to a density that inhibits root growth.
- 4.32 The transplanted trees will be well watered to soak the root balls and soil mix immediately after planting.
- 4.33 Mulch will be placed around the plants to retain moisture.
- 4.34 The trees will be securely supported by guying to the ground. Bamboo tripod staking may be required for stabilizing the transplanted in position. Such tree support system and bamboo tripod will be maintained at least for the first 6 months in establishment period.
- 4.35 Removal of these support systems after the 6-month establishment period will be subject to the tree stability and growth conditions.
- 4.36 Immediately following planting and where appropriate, a soil saucer can be formed on the soil surface around the edge of the root ball circumference to permit rain or irrigation water to be retained and slowly infiltrate into the root ball perimeter.
- 4.37 As the receptor site is close to the construction area, robust and bright fencing should be erected to protect the plants.

Post-Transplantation Monitoring and Maintenance Programme

Post-transplantation Monitoring

- 4.38 Post-transplantation monitoring is proposed in the first year of establishment to inspect the health condition of the plants. Regular monitoring allows early detection of the growth status of transplanted species, sign of construction activity within and nearby the receptor site, and any environmental change of the receptor site. The findings shall be supplemented with photographic record.
- 4.39 The frequency is proposed to be once per week in the first three months and reduced to once per month afterwards. Should the plant dies during the monitoring period due to negligence or non-compliance of the Transplantation Proposal, the contractor shall compensate the loss by planting the same or similar species, subject to approval by the Agriculture, Fisheries and Conservation Department.
- 4.40 Any post-transplantation monitoring findings should be included in the weekly inspection checklist/report and it should be submitted to the Engineer, Environmental Team Leader and Independent Environmental Checker for review and record. The template of post-transplantation monitoring checklist is shown in **Appendix D**.
- 4.41 Apart from the transplanted individuals, retained individuals of *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings) should be fenced off prior to the commencement of construction as they are located in close proximity to the proposed works. Monthly monitoring should also be carried out during the construction phase to make sure that the flora species of conservation interest are not affected by the

construction activities of the Project. Photographic record of the retained individuals should be taken during every monitoring visit.

4.42 The Contractor should submit a photographic record for the individuals to be transplanted during each of the following stages for record purpose:

- Before transplantation - recording the existing growth angle and compass orientation of the plant, in order to allow replication during transplanting;
- During Transplantation - recording each procedure, including digging, formation of root ball, preparation works at all receptor sites, transportation of uplifted individuals to the receptor sites, planting of individuals at the receptor sites and after transplanting into the receptor sites; and
- Post-Transplantation Period – recording the status of transplanted individuals during the 12-month establishment period and the post-establishment period until the end of construction phase.

Maintenance Programme

4.43 To allow health growth of the transplanted species, the following maintenance works are recommended in the first year of establishment:

Watering

4.44 The receptor sites should be thoroughly watered immediately after planting. During the establishment period, the soil should be regularly monitored to prevent drying out. The individuals should be watered properly and adequately or daily, if required, during the first three months after the transplantation as dry season approaches. After that, watering frequency should be conducted at least twice a week until the end of the establishment period. Frequency of watering should be adjusted accordingly so that the soil is kept moist.

Use of Mulch

4.45 Mulches help conserve moisture, maintain moderate soil temperature, and control weeds around plants. If required, organic mulches such as peat moss, thoroughly dried grass clippings or small wood chips could be placed on the soil surface over the plant root system.

Weeding

4.46 Insect/fungal infested stems, or those infected with disease would be removed after transplantation. Pruning may also be required after transplantation to remove any broken stems. The receptor sites should be kept free from weeds throughout 12-months establishment period. Any unwanted weeds found in these areas should be removed by the Contractor once identified and/or when instructed by Engineer. Weeding should be carried out by hand as much as possible and removed weeds should be disposed of appropriately by the Contractor.

5 PROTECTION MEASURES FOR RETAINED / TRANSPLANTED INDIVIDUALS

5.1 During construction of the Project, the following guidelines should be followed to protect retained / transplanted trees and plant species of conservation importance within and in the vicinity of the work area:

- All works should be confined within the site boundary.
- Access of site staff should be controlled to avoid damage to the vegetation in surrounding areas.
- Equipment or stockpile should be placed in the existing disturbed / urbanized land within the site boundary of the Project to minimize disturbance to vegetated areas.
- Before the commencement of construction works, the Contractor must be aware which trees/plants are to be retained and which are to be transplanted.
- Trees/plants which have been proposed to be transplanted should be clearly marked on the layout plan.
- Trees/plants which are to be retained should be clearly marked on site prior to the commencement of site construction works, preferably by printed numbers consistent with the Tree Survey Report and Detailed Vegetation Survey Report for the Project. Trees/plants to be retained will also be marked with surveyor's flagging or ribbon.
- As a general rule the majority of a tree's roots lies within an area just greater than the spread of its crown and are at a depth of approximately 600mm. This may be less on heavy soils and greater on drier soils. Therefore, the following precautions should be undertaken in order to prevent damage to the trunks, roots and crowns of trees during constructions.
- A tree protection zone should be set below the drip line of the tree crown for trees near the edge of the works area. For plant species of conservation importance to be preserved (inclusive of trees, shrubs and herbs), the protection zone should be set 1m from the plant. Robust, bright-coloured fencing of 1.5m in height should be erected to remind workers not to trespass before site clearance.
- Heavy equipment, supplies, ditches and underground utility lines should be placed outside the protection zone.
- Care should be taken to prevent trees/plants being damaged by mechanical equipment both during site clearance works and construction works.
- No fixings should be driven into trees/plants.
- No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.
- No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees/plants.
- No change of ground level around preserved trees/plants is permitted.
- No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.
- No fire should be lit below the branches and no petrol, oil or caustic substances stored near the trees/plants.
- No trees/plants should be used for anchoring or winching purposes or for the display of signs.
- Regular inspection should be conducted to ensure the integrity of the protection zone and the plant condition.

- Any damage or injury to the retained / transplanted plants should be reported as soon as possible. The Contractor should be aware of any injured plants in order to monitor their recovery progress. Injuries to root and branches should be repaired immediately.
- 5.2 If trees are wounded or stressed during construction, they are more susceptible to insect and disease attack. Any wounds to the bark should be cleaned to sound wood by removing loose bark and wood, leaving a smooth edge around the wound. No application of a wound dressing is necessary.

6 IMPLEMENTATION SCHEDULE

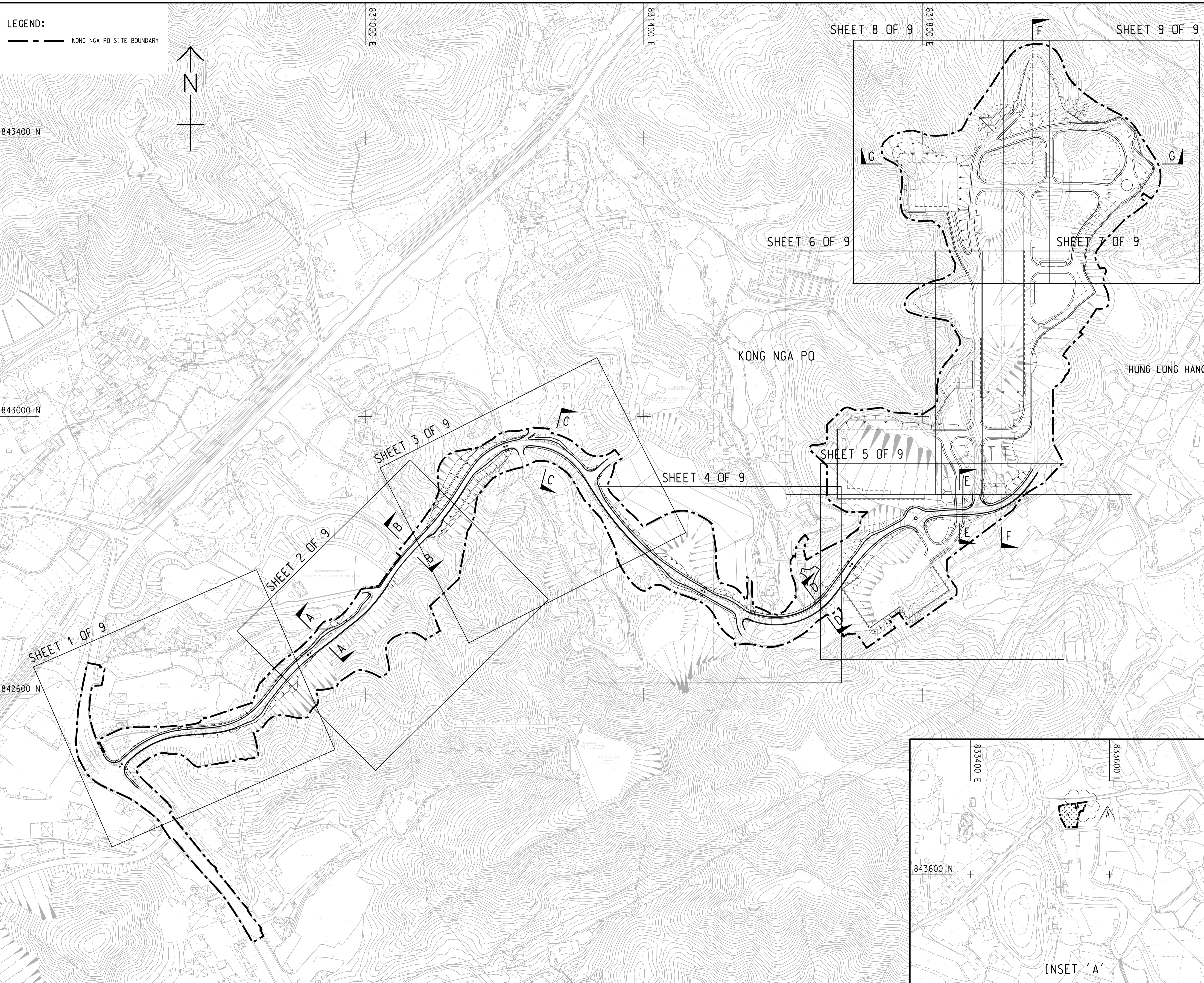
- 6.1 An Implementation Schedule (IS) has been prepared and included in **Appendix F** to summarize all the required mitigation measures need to be implemented for the Project.

7 CONCLUSION

- 7.1 To fulfill the requirement in Section 8.3.1 of the Environmental Monitoring and Audit (EM&A) Manual and Condition 2.13 & 2.14 of the EP, prior to the commencement of site clearance, detailed vegetation survey was conducted from 28 February to 6 March 2020, in order to confirm / update the exact locations, number and condition of individuals of any flora species of conservation interest within the works boundary, including Kong Nga Po Road.
- 7.2 During the vegetation survey, four plant species of conservation importance (i.e. Cycad-fern *Brainea insignis*, Fortune's Keteleeria *Keteleeria fortunei*, Ladies Tresses *Spiranthes sinensis*, Incense Tree *Aquilaria sinensis*) were recorded within the site boundary, including Kong Nga Po Road.
- 7.3 The works area has been refined in accordance with the Revised Layout Plan of Kong Nga Po Road to avoid the direct impact on the existing *Keteleeria fortunei* and *Aquilaria sinensis* (Undersized Seedlings) identified along Kong Nga Po Road near Police Dog Unit and Force Search Unit Training School would be preserved and protected on-site.
- 7.4 3 individuals of *Aquilaria sinensis*, all *Brainea insignis* and *Spiranthes sinensis* affected directly by the project are considered to be suitable for transplantation, provided that appropriate transplanting procedures are adopted, and post-plantation care is provided. The exact numbers to be transplanted are subject to the actual site conditions.
- 7.5 To provide consistent habitat condition, receptor site would be located within the project boundary and would receive the all potentially affected individuals of *Aquilaria sinensis*, *Brainea insignis* and *Spiranthes sinensis*. Appropriate transplantation techniques, and post-transplantation care and monitoring are recommended and should be adopted as far as practicable. In addition, protective measures for the retained / transplanted individuals should also be adopted during the construction phase.

DRAWINGS

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

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

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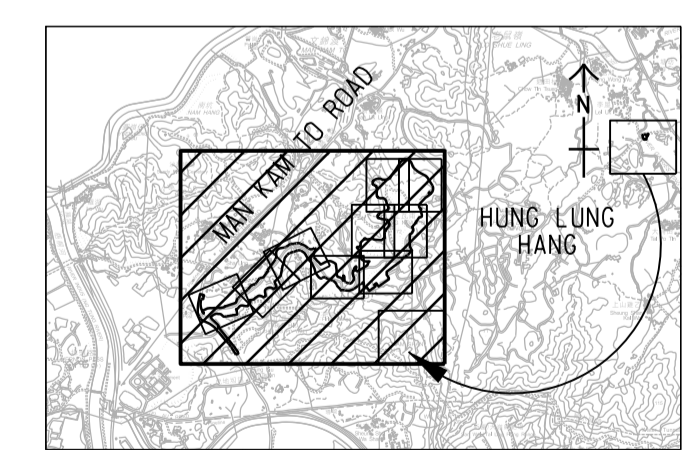
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I/R	DATE	DESCRIPTION	CHK.
修訂	日期	內容摘要	校核
A	JUL. 19	TENDER ADDENDUM NO.1	SCWC
-	JUN. 19	TENDER DRAWING	SCWC

SCALE
 比例
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DIMENSION UNIT
 尺寸單位
 米/公尺

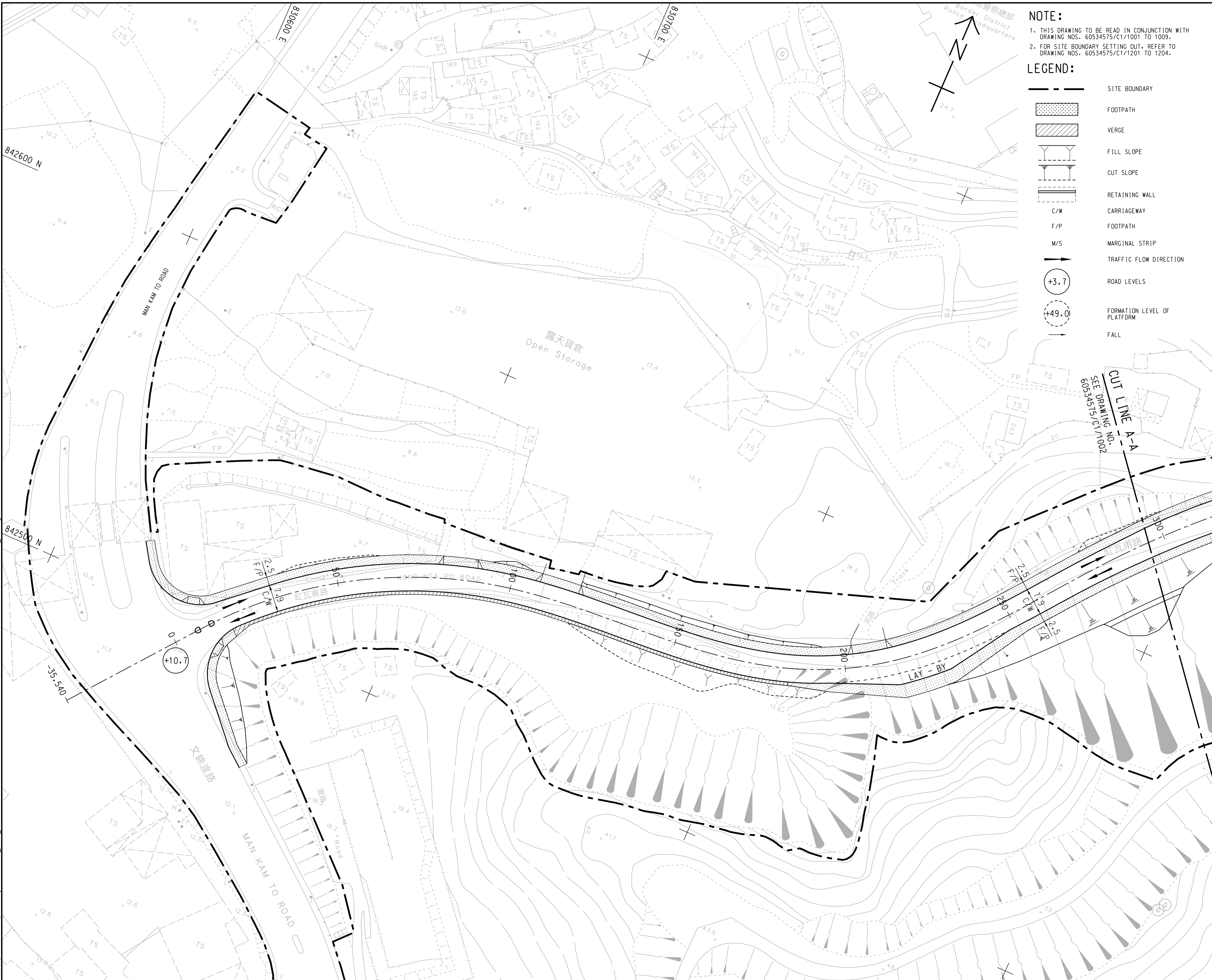


PROJECT NO.
 項目編號
 60534575

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



NOTE:
 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/C1/1001 TO 1009.
 2. FOR SITE BOUNDARY SETTING OUT, REFER TO DRAWING NOS. 60534575/C1/1201 TO 1204.

LEGEND:

	SITE BOUNDARY
	FOOTPATH
	VERGE
	FILL SLOPE
	CUT SLOPE
	RETAINING WALL
	C/W
	F/P
	M/S
	TRAFFIC FLOW DIRECTION
	ROAD LEVELS
	FORMATION LEVEL OF PLATFORM
	FALL

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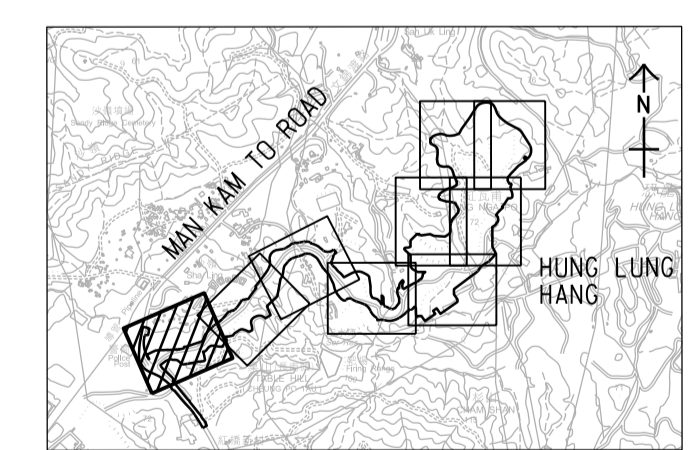
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-	JUN. 19	TENDER DRAWING	SCWC

STATUS
 階段

SCALE
 比例
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DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1:30000
 索引圖



PROJECT NO.
 項目編號
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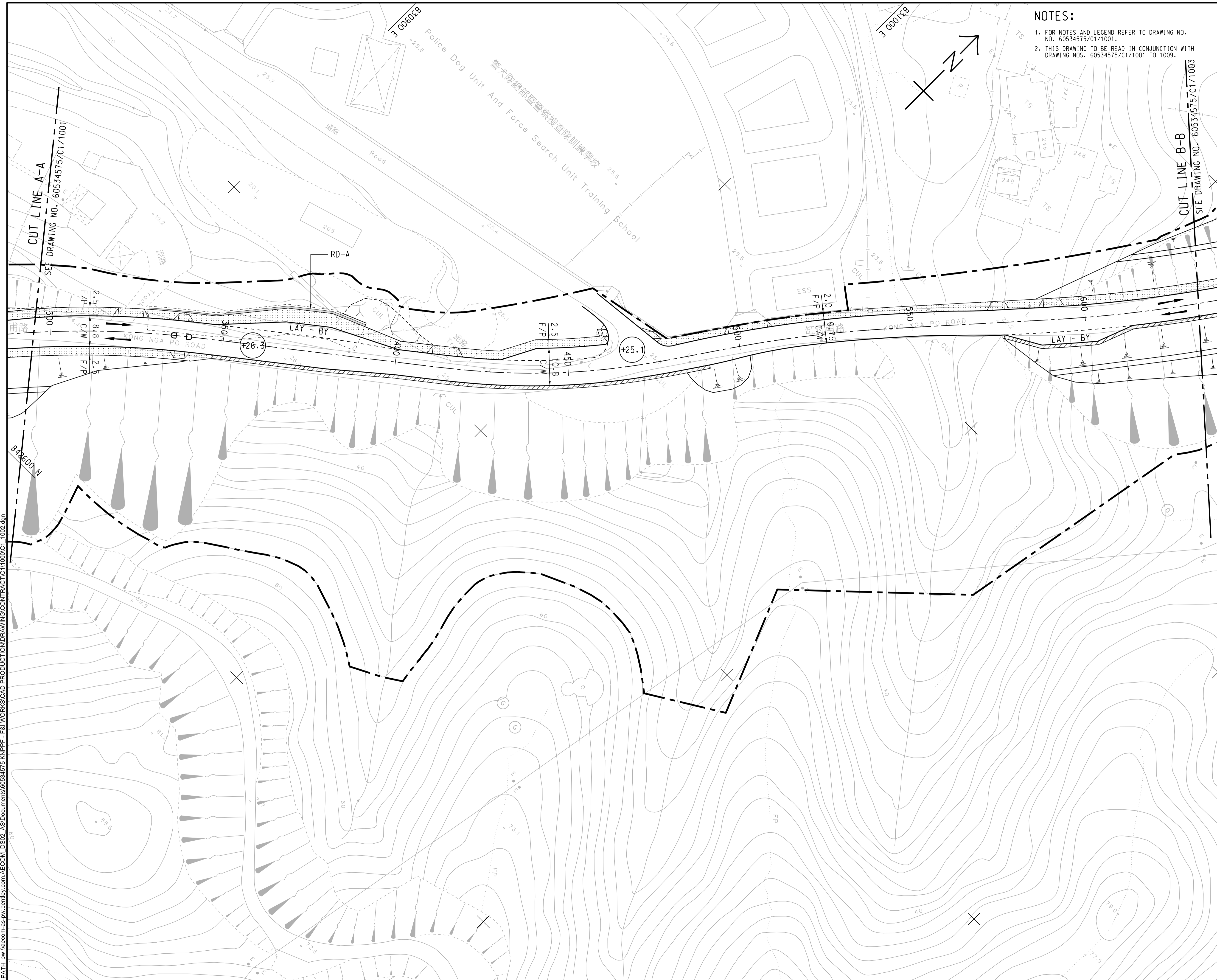
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SHEET TITLE
 圖紙名稱
 GENERAL LAYOUT

SHEET NUMBER
 圖紙編號
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SHEET 1 OF 9

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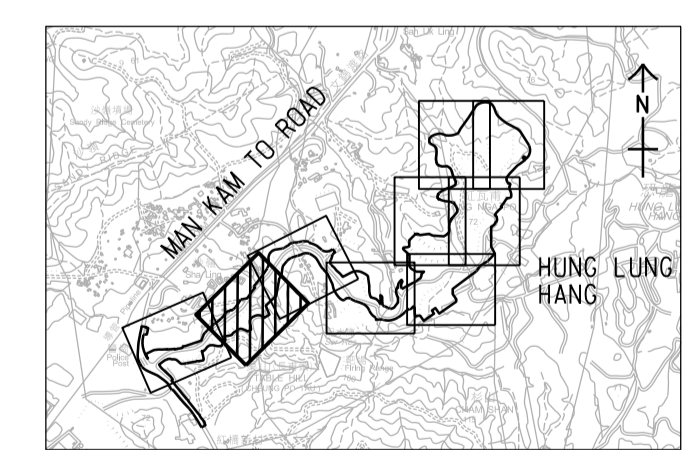
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- JUN. 19		TENDER DRAWING	SCWC

STATUS
 階段

SCALE
 比例
 A1 1 : 500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1 : 30000
 索引圖



PROJECT NO.
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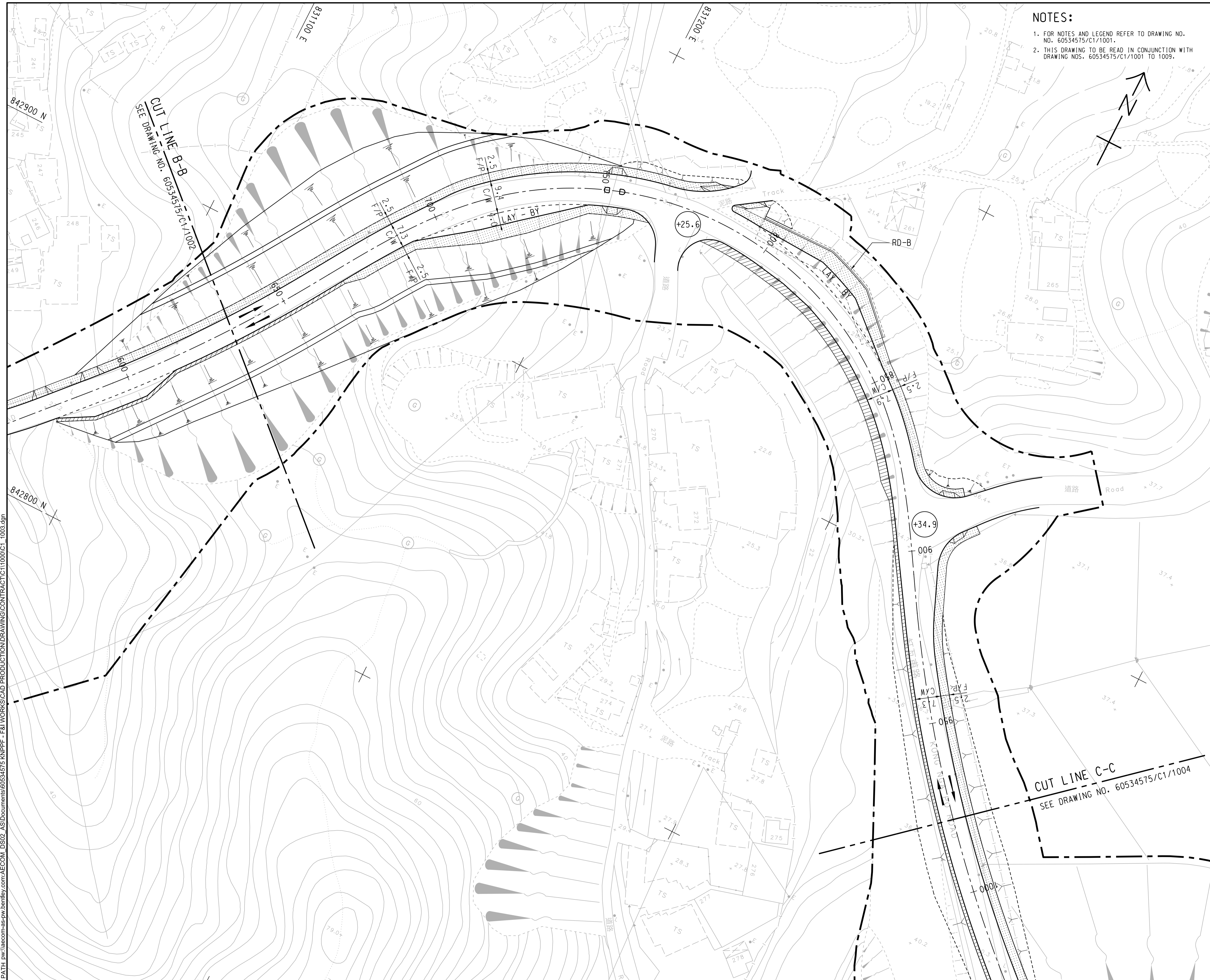
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 GENERAL LAYOUT

SHEET NUMBER
 圖紙編號
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PROJECT
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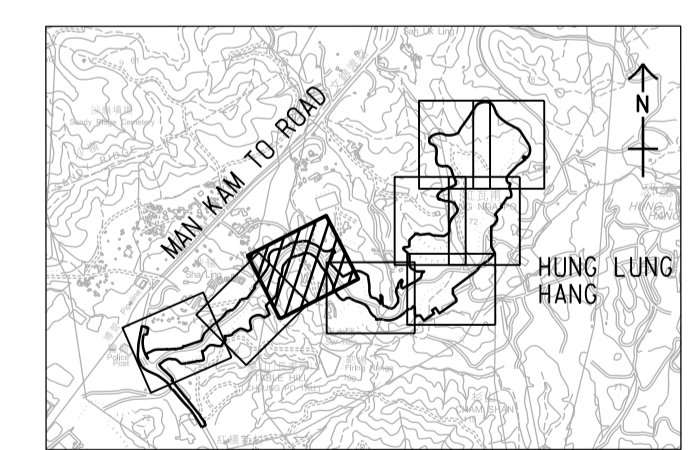
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STATUS
 階段

SCALE
 比例
 A1 1:500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1:30000
 索引圖



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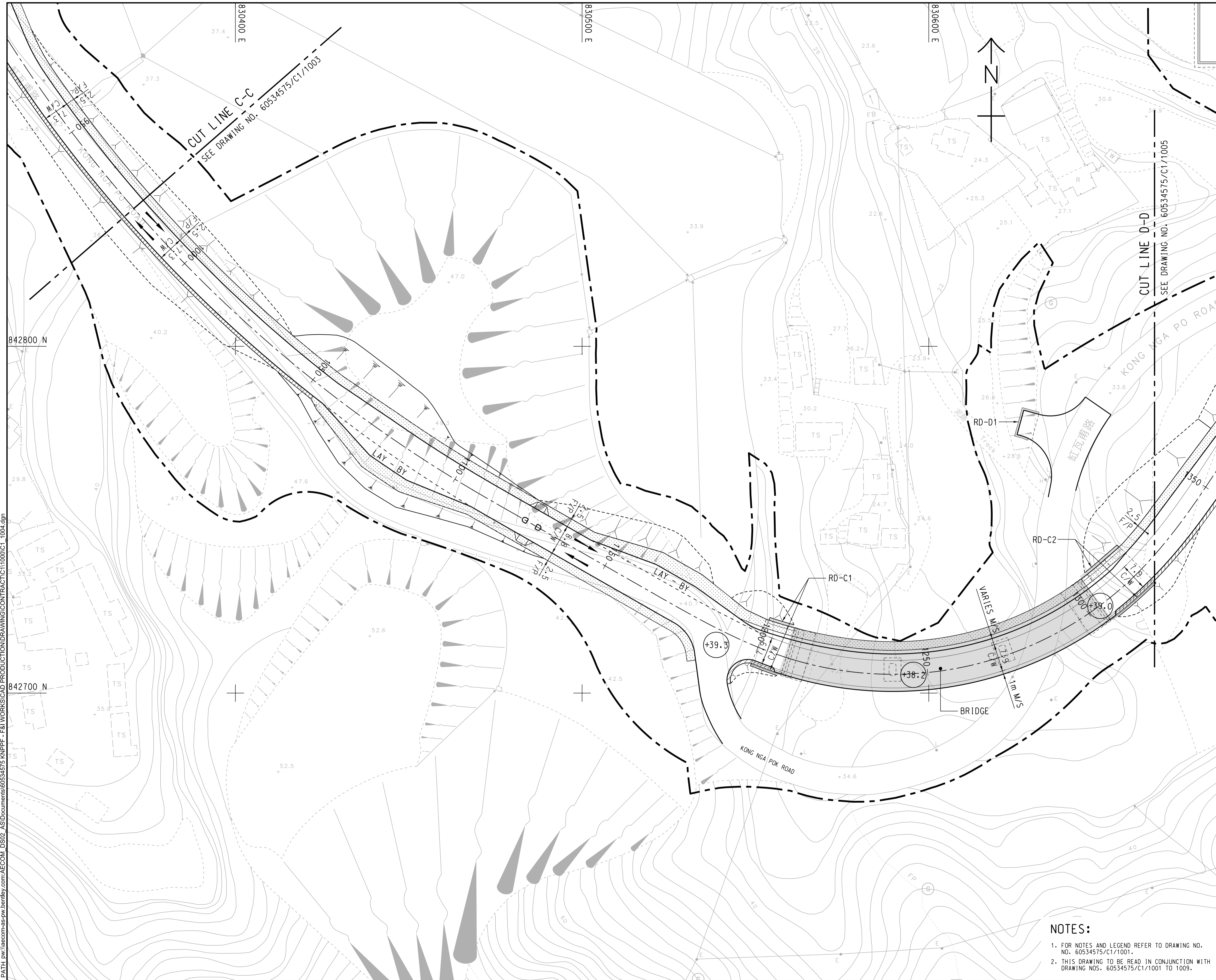
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SHEET 3 OF 9

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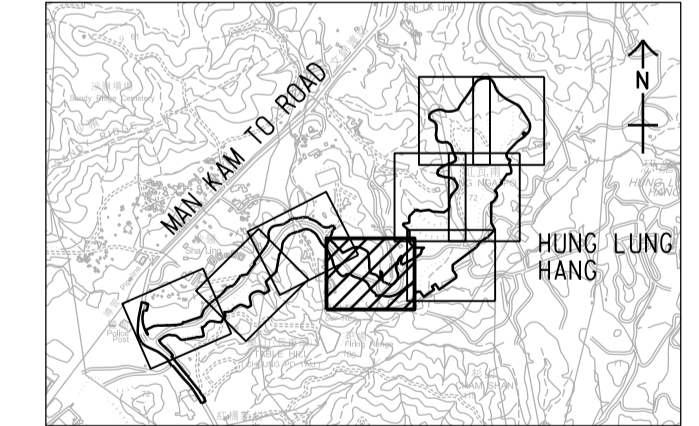
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-	JUN. 19	TENDER DRAWING	SCWC

STATUS
 階段

SCALE
 比例
 A1 1:500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1:30000
 索引圖



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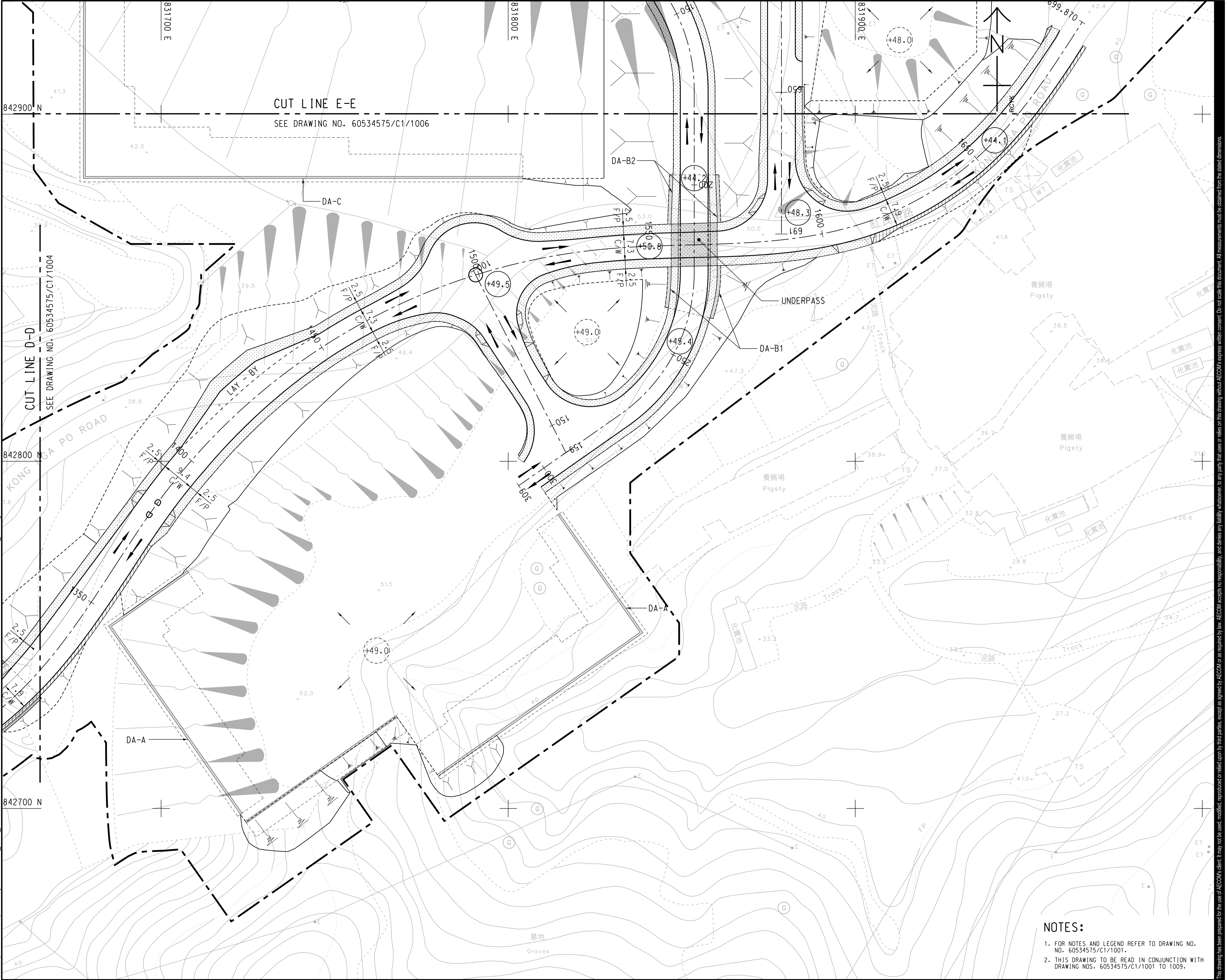
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PROJECT
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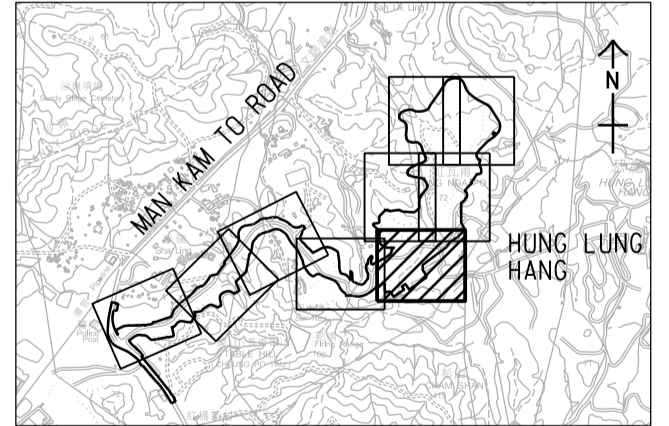
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-	JUN. 19	TENDER DRAWING	SCWC

STATUS
 階段

SCALE
 比例
 A1 1: 500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1: 30000
 索引圖



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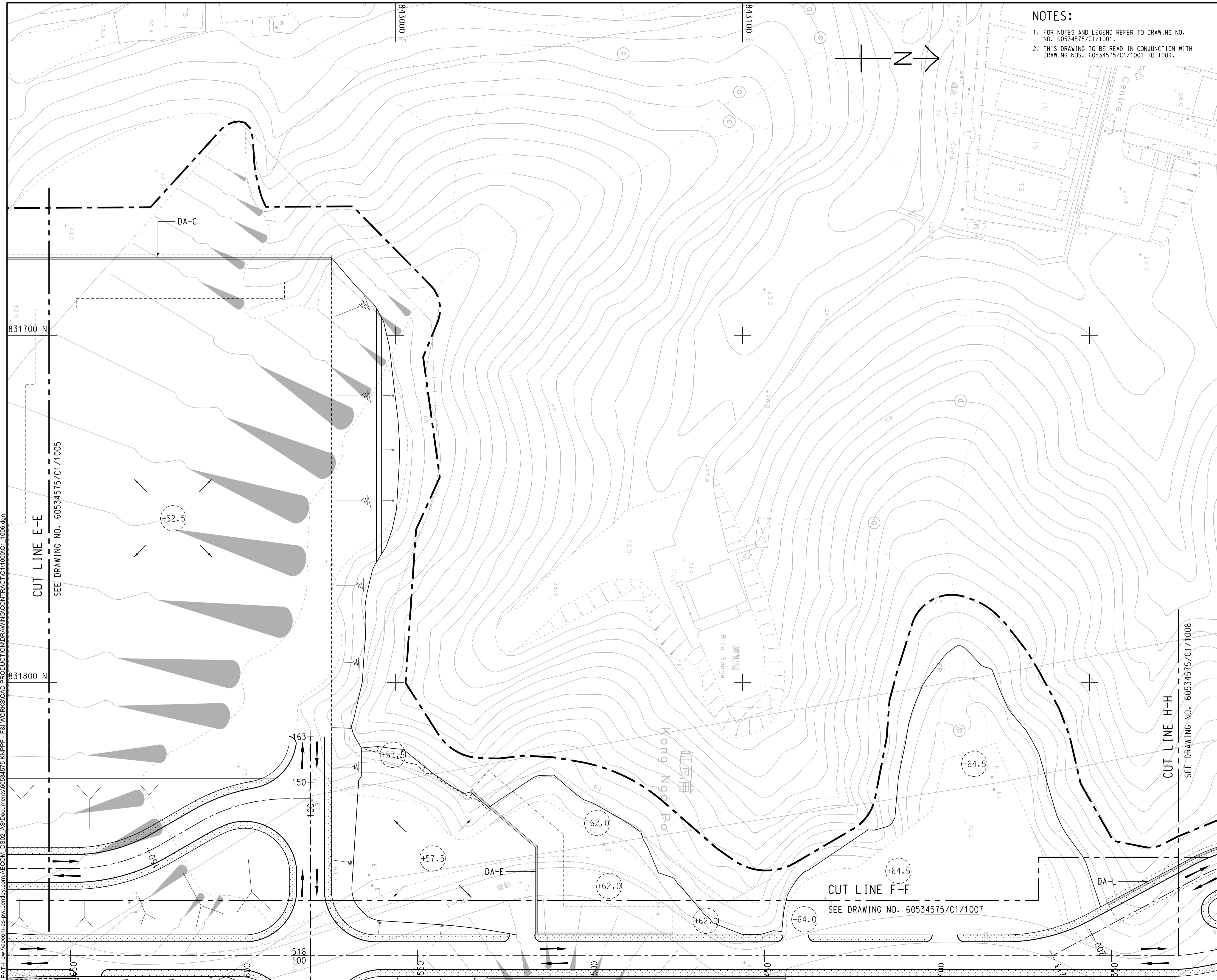
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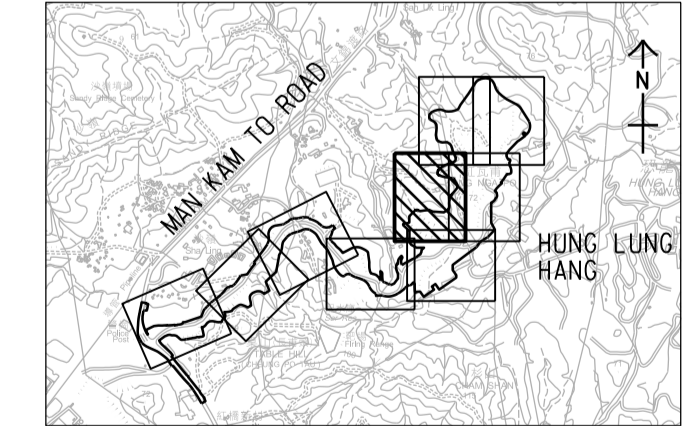
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STATUS
 階段

SCALE
 比例
 A1 1:500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1:30000
 索引圖



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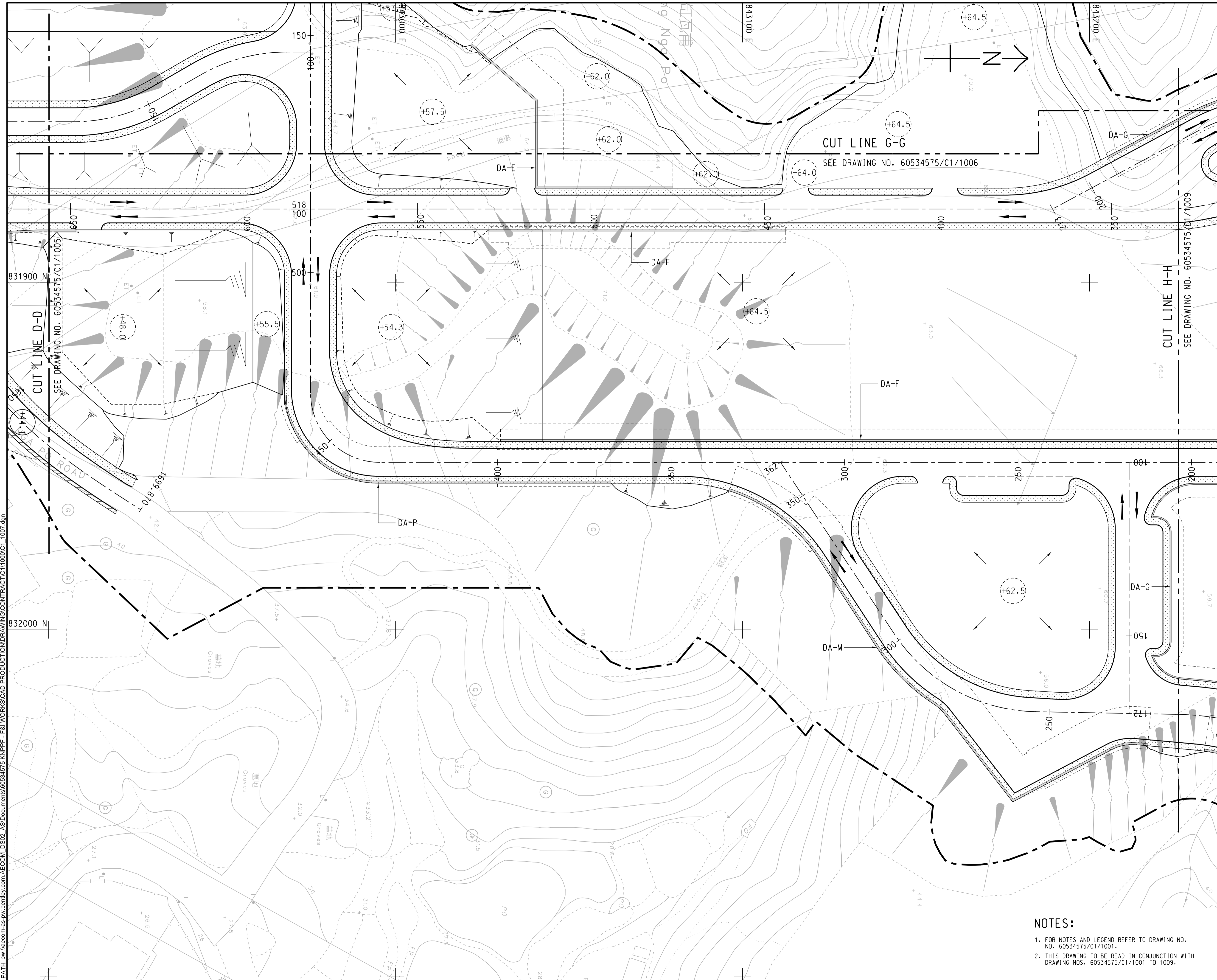
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SHEET 6 OF 9

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PROJECT
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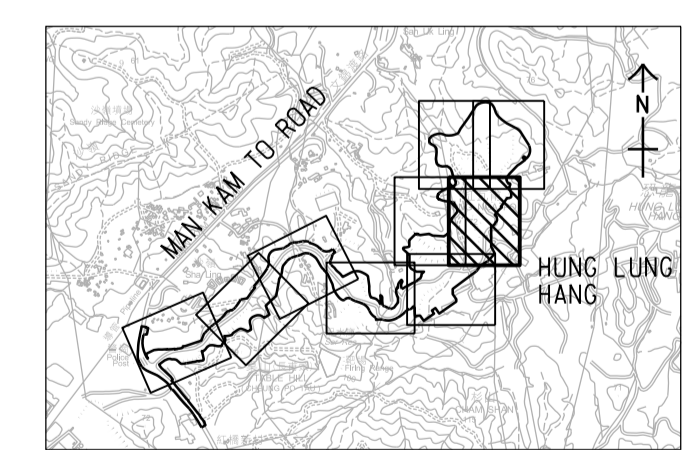
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-	JUN. 19	TENDER DRAWING	SCWC

STATUS
 階段

SCALE
 比例
 A1 1: 500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1: 30000
 索引圖



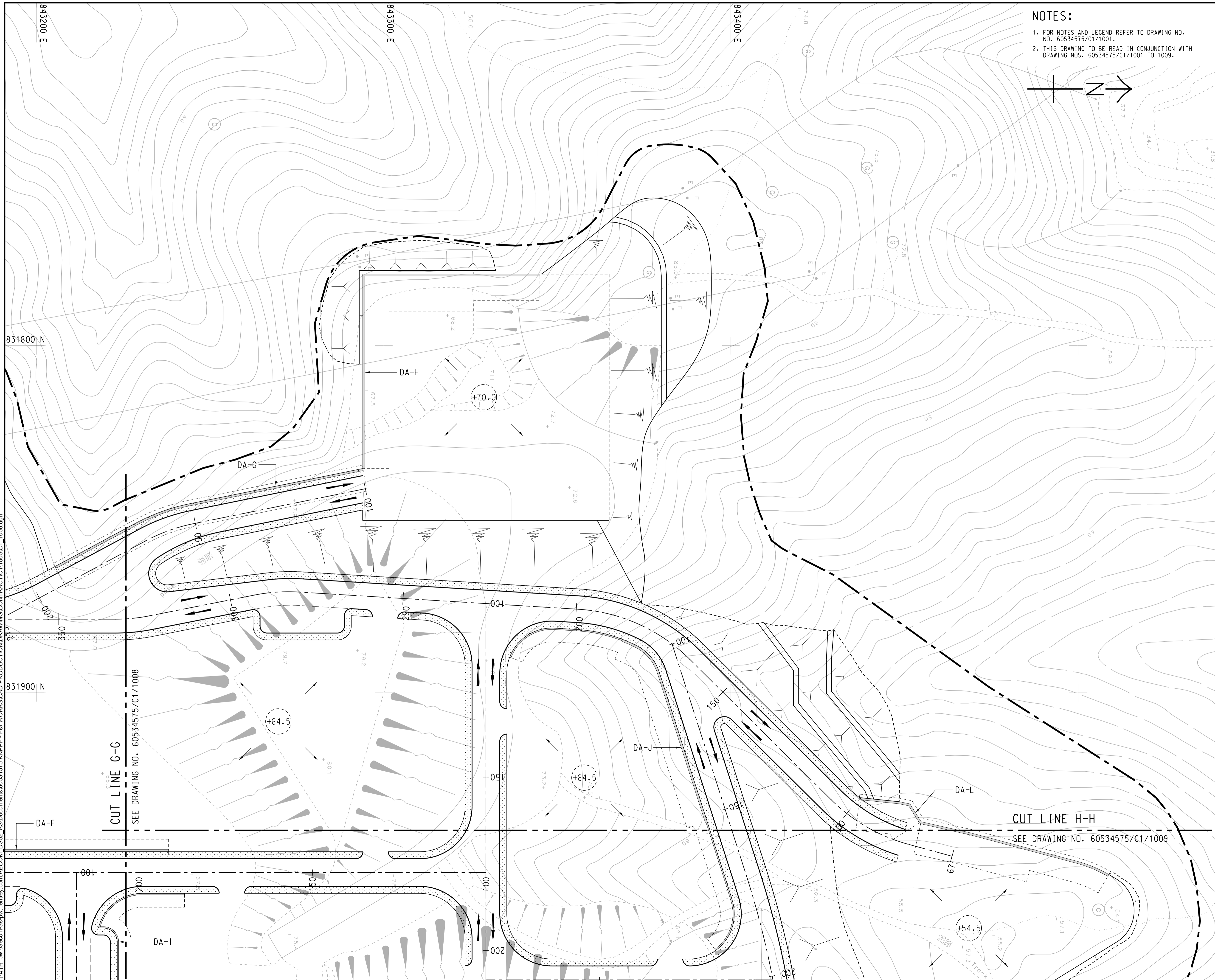
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SHEET TITLE
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PROJECT
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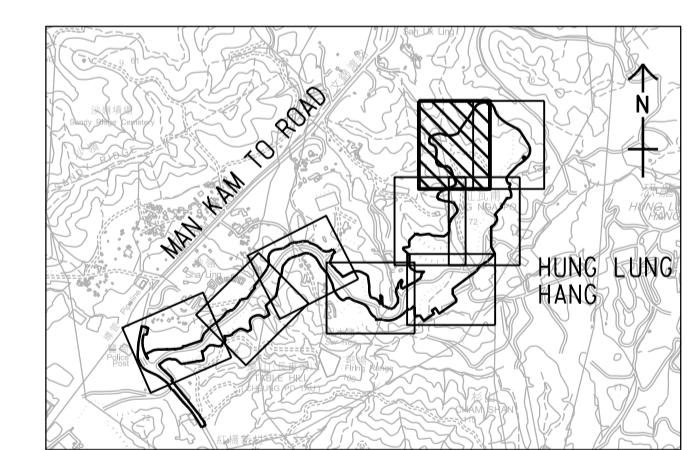
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STATUS
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SCALE
 比例
 A1 1:500

DIMENSION UNIT
 尺寸單位
 METRES



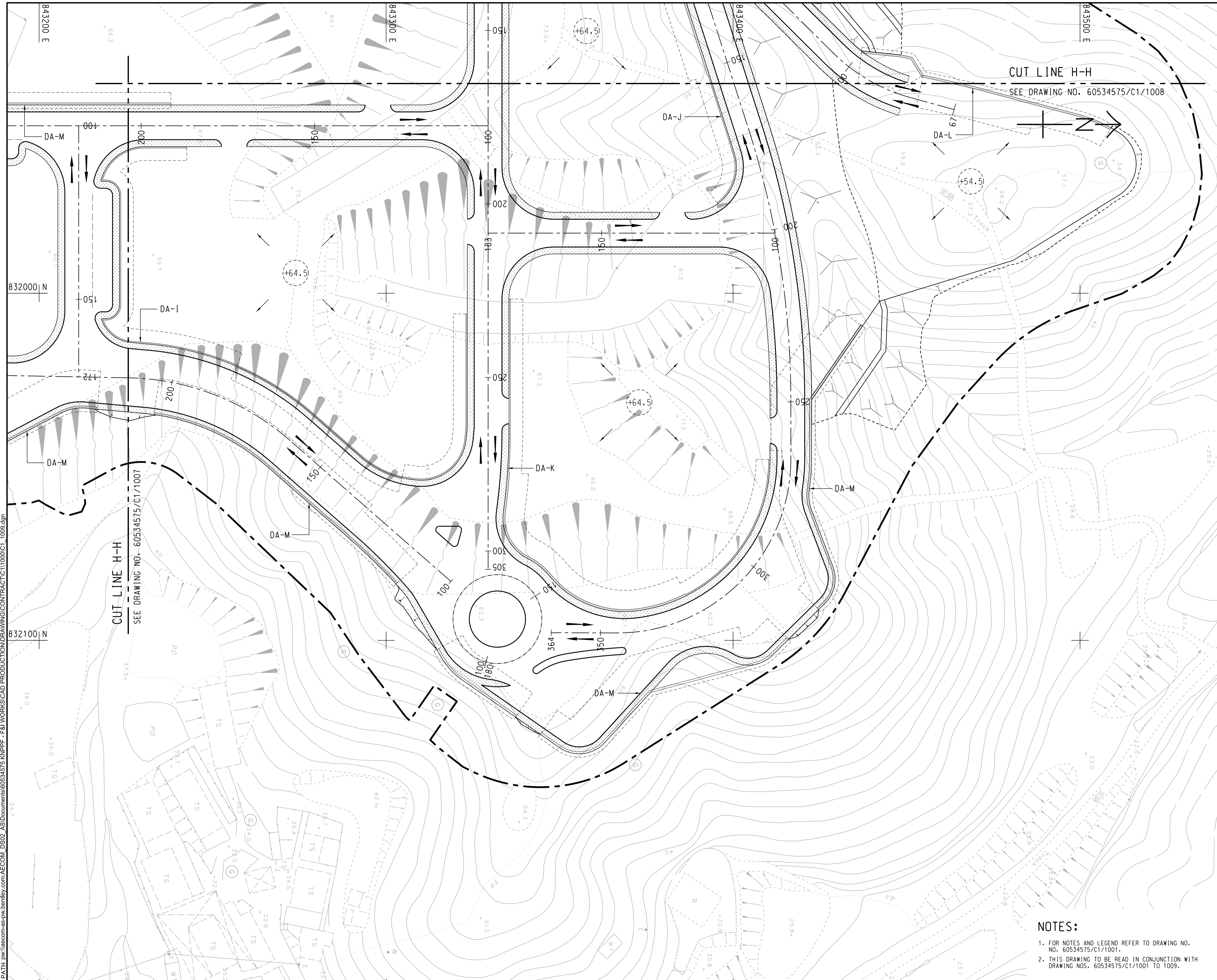
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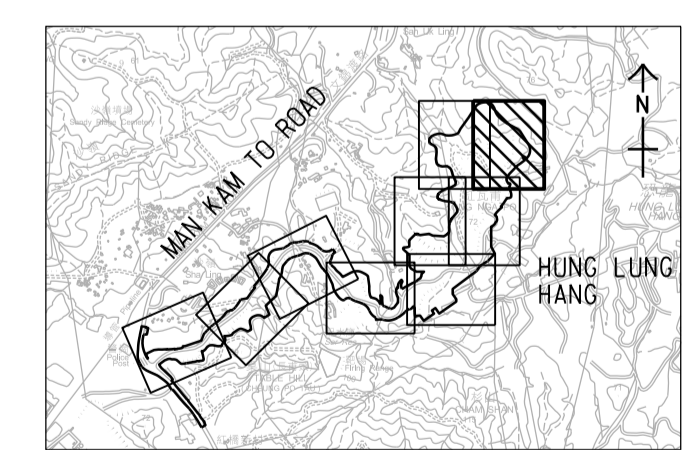
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SCALE
 比例
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DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1: 30000
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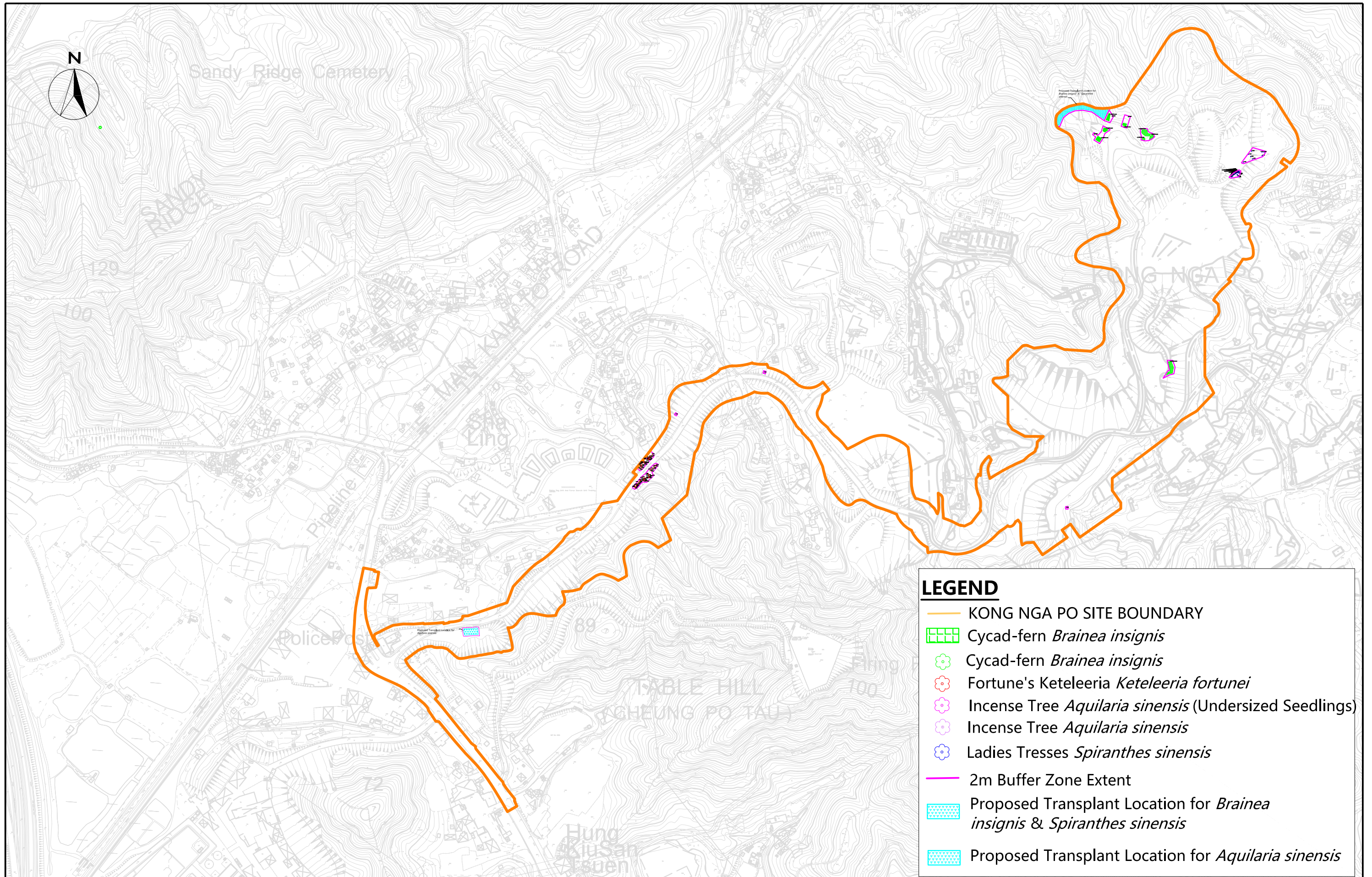
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 60534575/C1/1009

- NOTES:**
- FOR NOTES AND LEGEND REFER TO DRAWING NO. NO. 60534575/C1/1001.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60534575/C1/1001 TO 1009.

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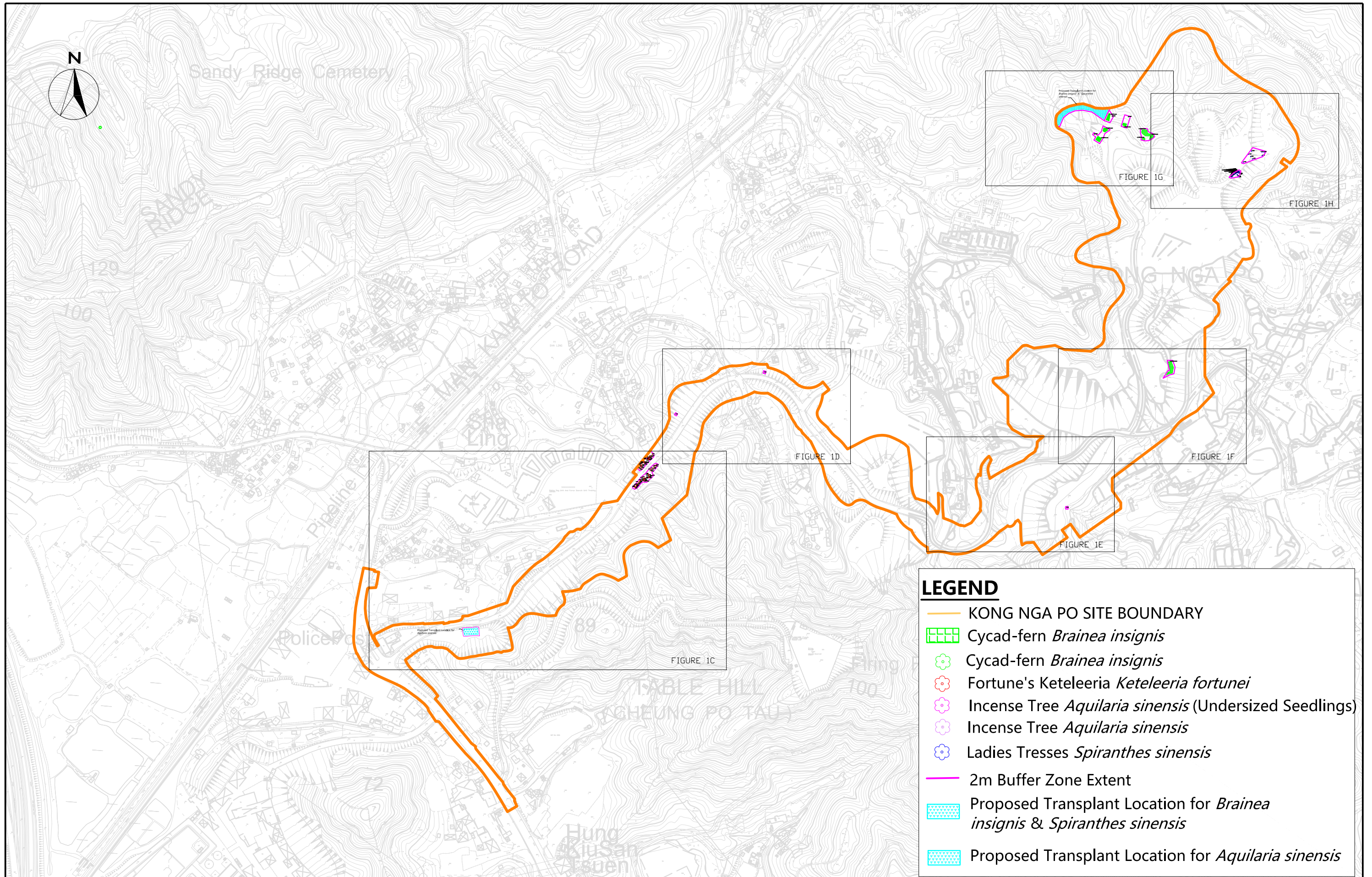
FIGURES



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Location of Flora Species of Conservation Importance

WELLAB

SCALE	A3 @1:40000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	FIGURE No.	1A
		REV	—



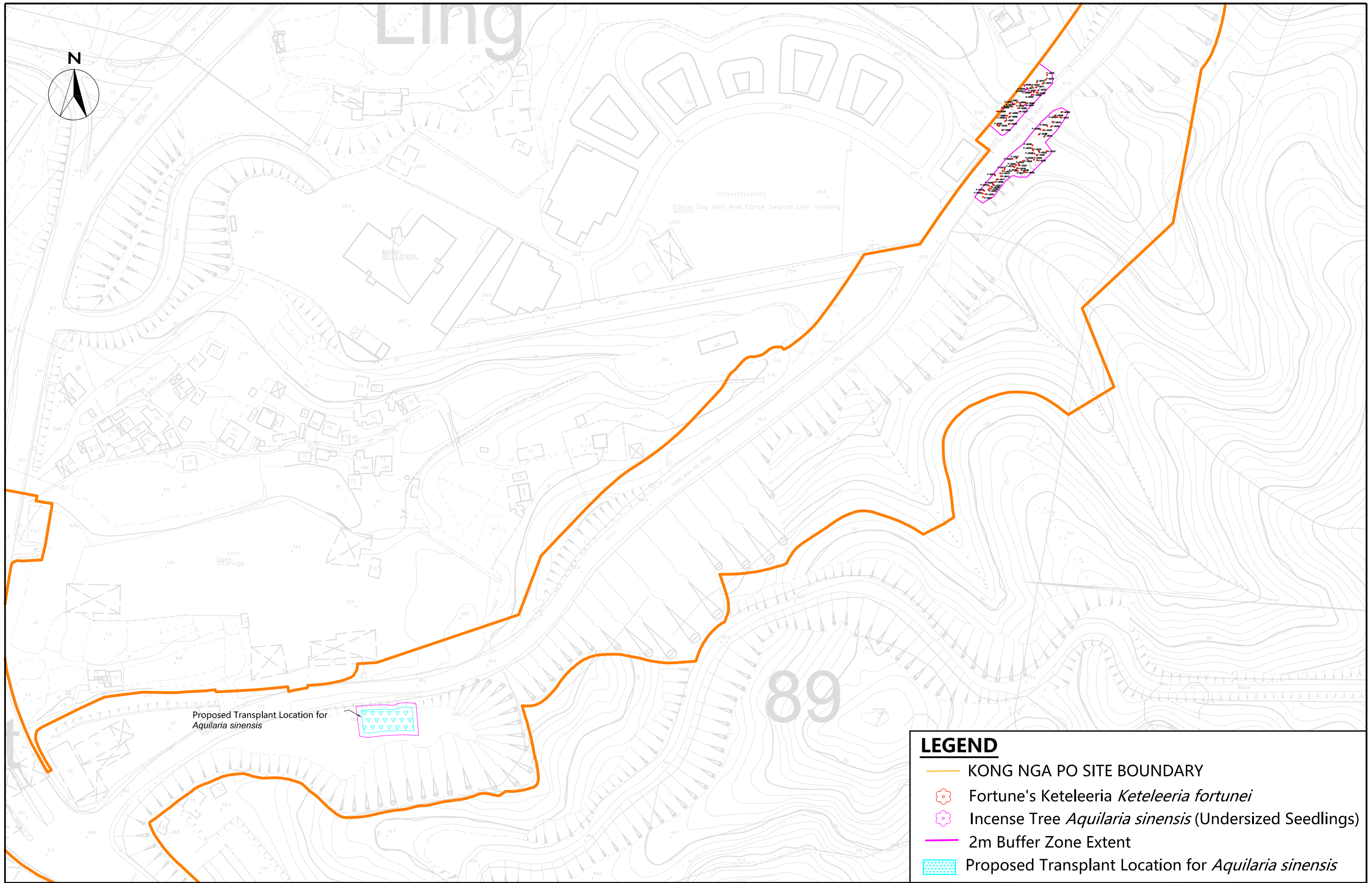
LEGEND

- KONG NGA PO SITE BOUNDARY
- Cycad-fern *Brainea insignis*
- Cycad-fern *Brainea insignis*
- Fortune's Keteleeria *Keteleeria fortunei*
- Incense Tree *Aquilaria sinensis* (Undersized Seedlings)
- Incense Tree *Aquilaria sinensis*
- Ladies Tresses *Spiranthes sinensis*
- 2m Buffer Zone Extent
- Proposed Transplant Location for *Brainea insignis* & *Spiranthes sinensis*
- Proposed Transplant Location for *Aquilaria sinensis*

Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Location of Flora Species of Conservation Importance



SCALE	A3 @1:40000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	FIGURE No.	1B
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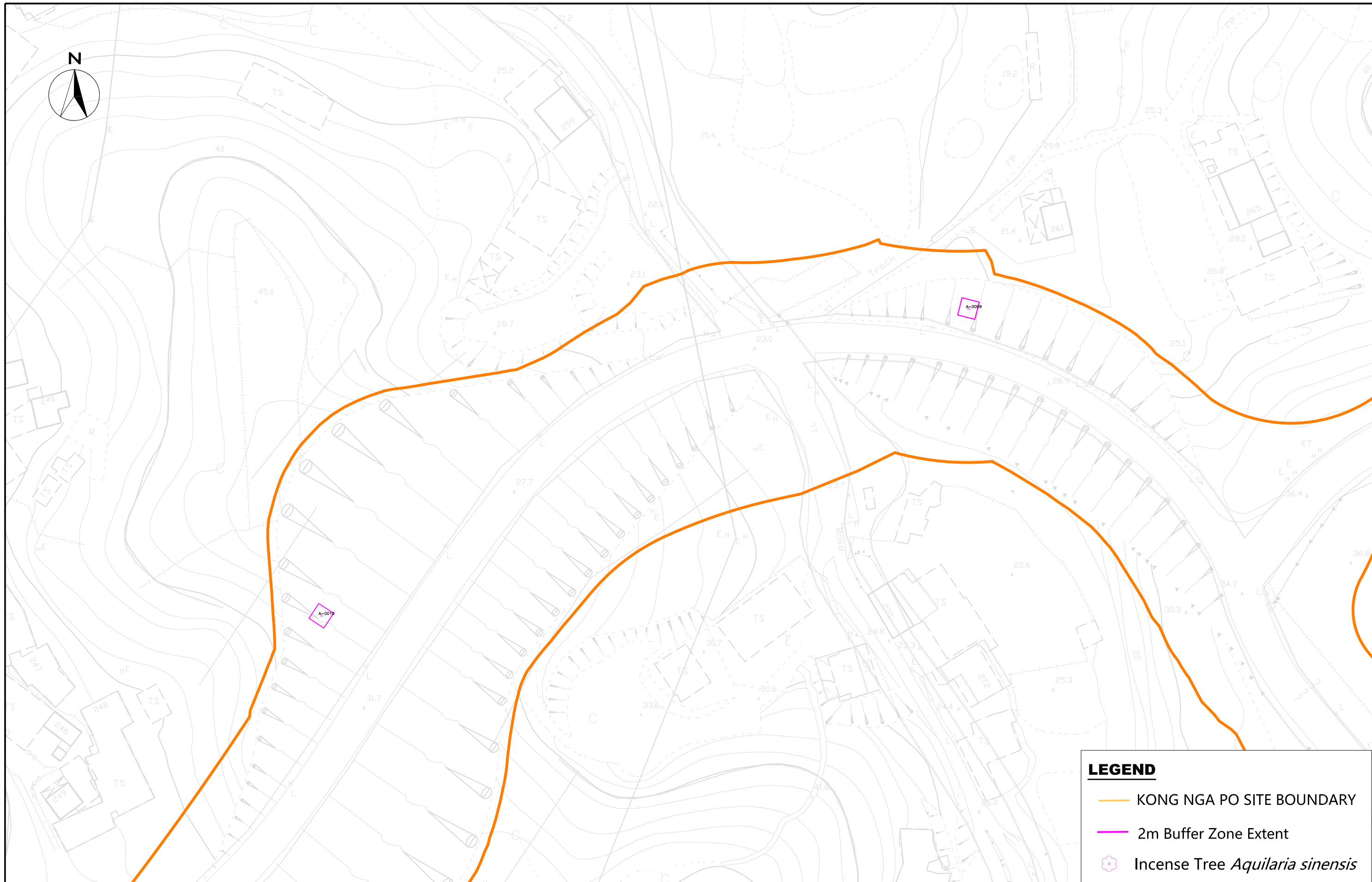
Proposed Transplant Location for *Aquilaria sinensis*

LEGEND			
	KONG NGA PO SITE BOUNDARY		Fortune's Keteleeria <i>Keteleeria fortunei</i>
	Incense Tree <i>Aquilaria sinensis</i> (Undersized Seedlings)		2m Buffer Zone Extent
	Proposed Transplant Location for <i>Aquilaria sinensis</i>		

Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Location of Fortune's Keteleeria *Keteleeria fortunei* & Incense Tree *Aquilaria sinensis* (Undersized Seedlings)

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JOB No.	WMA20001	DRAWING No.	1C
		REV	-



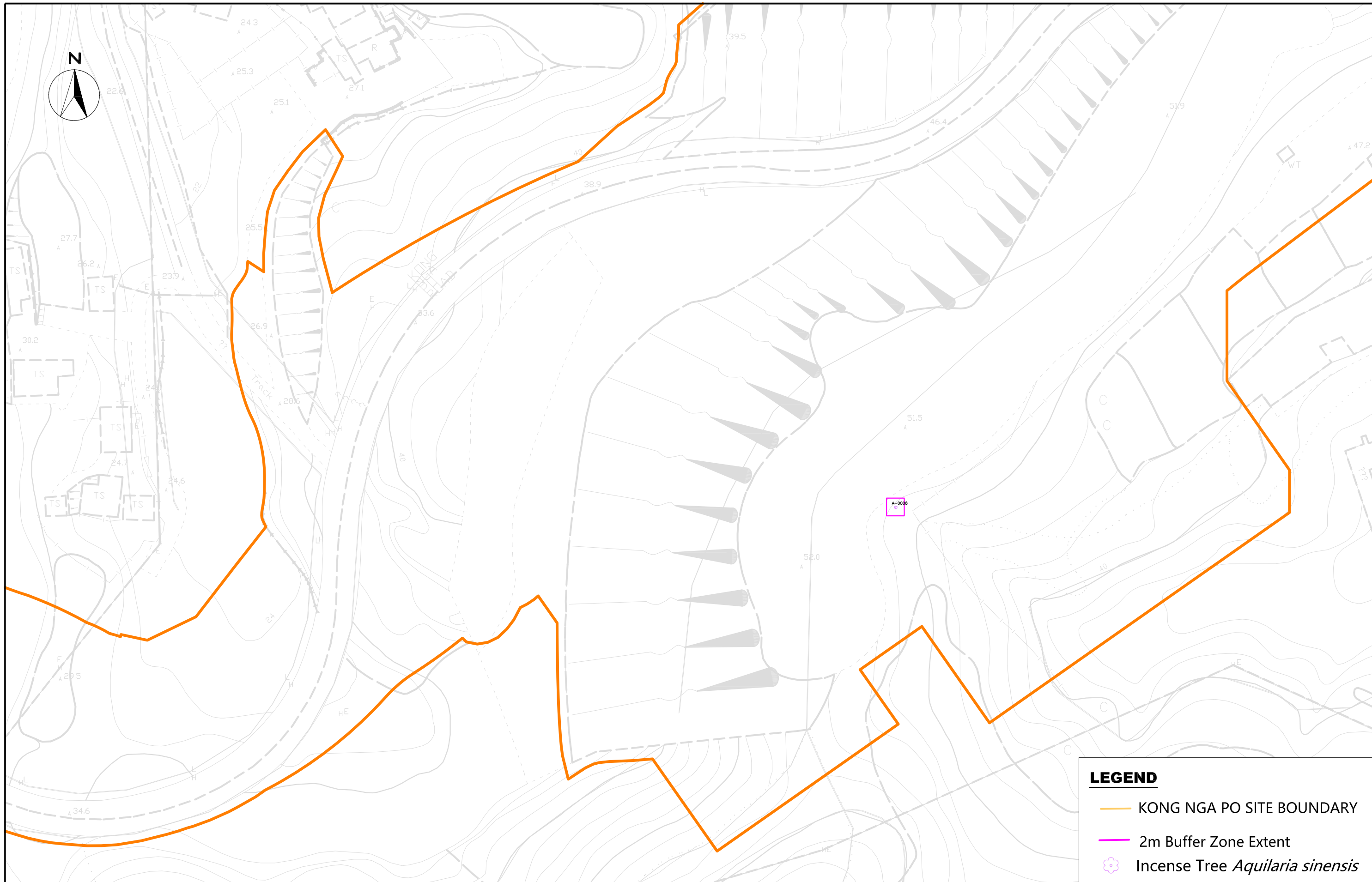


LEGEND			
	KONG NGA PO SITE BOUNDARY		2m Buffer Zone Extent
	Incense Tree <i>Aquilaria sinensis</i>		



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Location of Incense Tree *Aquilaria sinensis*

SCALE	A3 @1:2000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1D
		REV	—



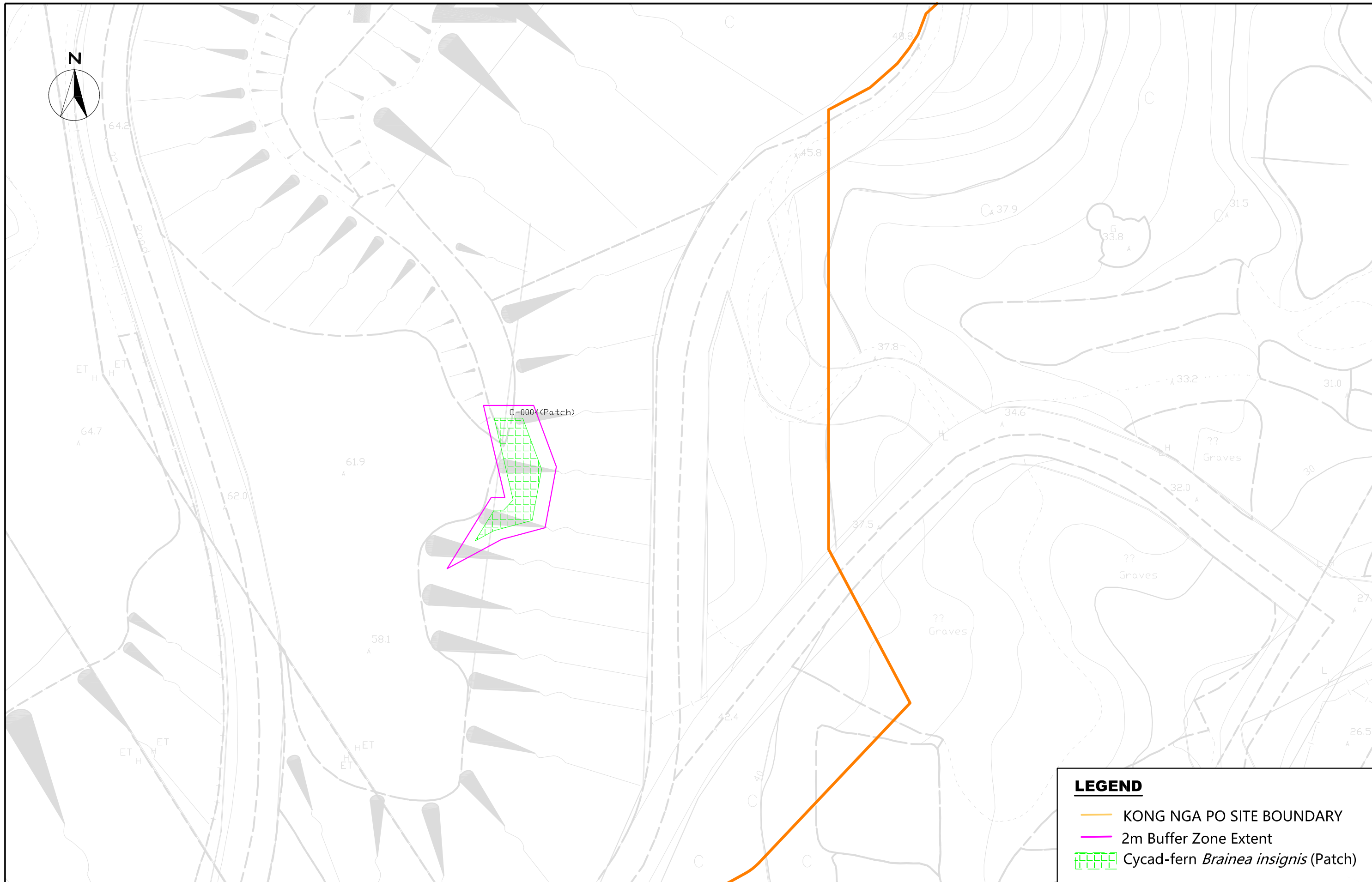
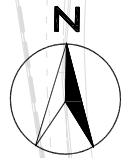
LEGEND

- KONG NGA PO SITE BOUNDARY
- 2m Buffer Zone Extent
- ⊕ Incense Tree *Aquilaria sinensis*



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Location of Incense Tree *Aquilaria sinensis*

SCALE	A3 @1:2000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1E
		REV	—



LEGEND			
	KONG NGA PO SITE BOUNDARY		
	2m Buffer Zone Extent		
	Cycad-fern <i>Brainea insignis</i> (Patch)		

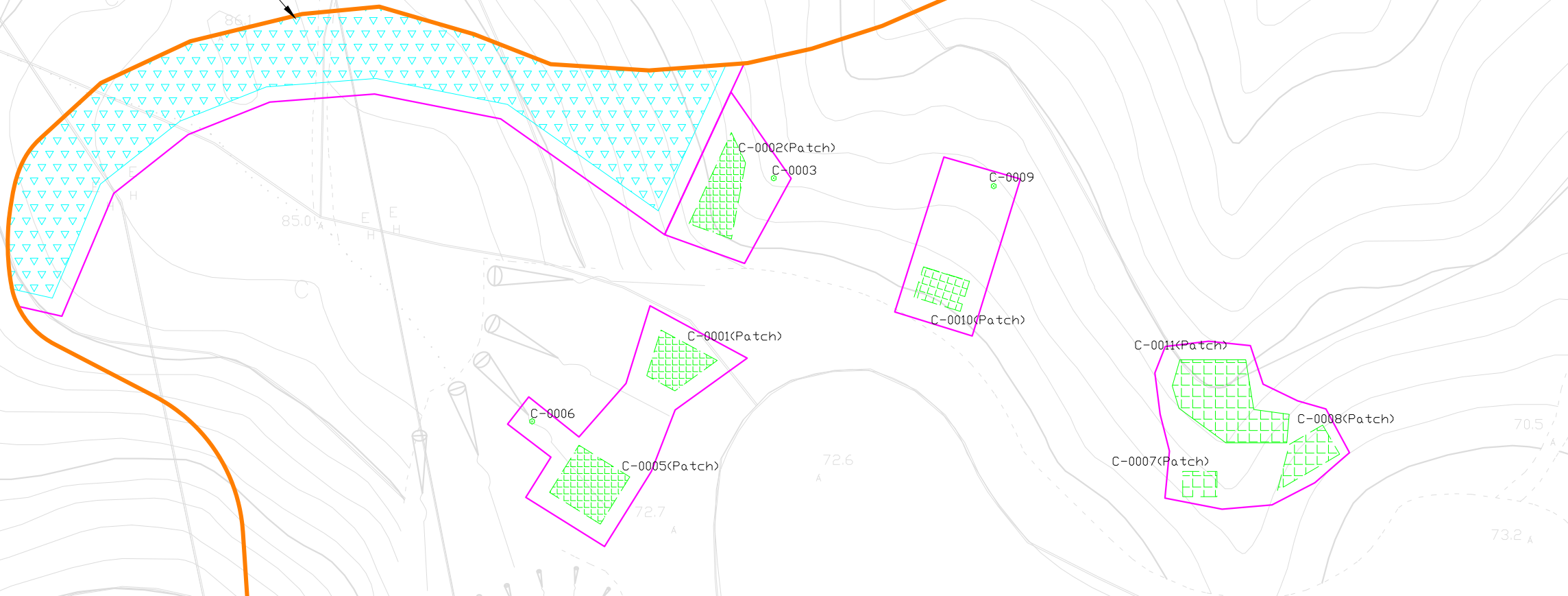


Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Location of Cycad-fern *Brainea insignis*

SCALE	A3 @1:4000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1F
		REV	-



Proposed Transplant Location for *Brainea insignis* & *Spiranthes sinensis*

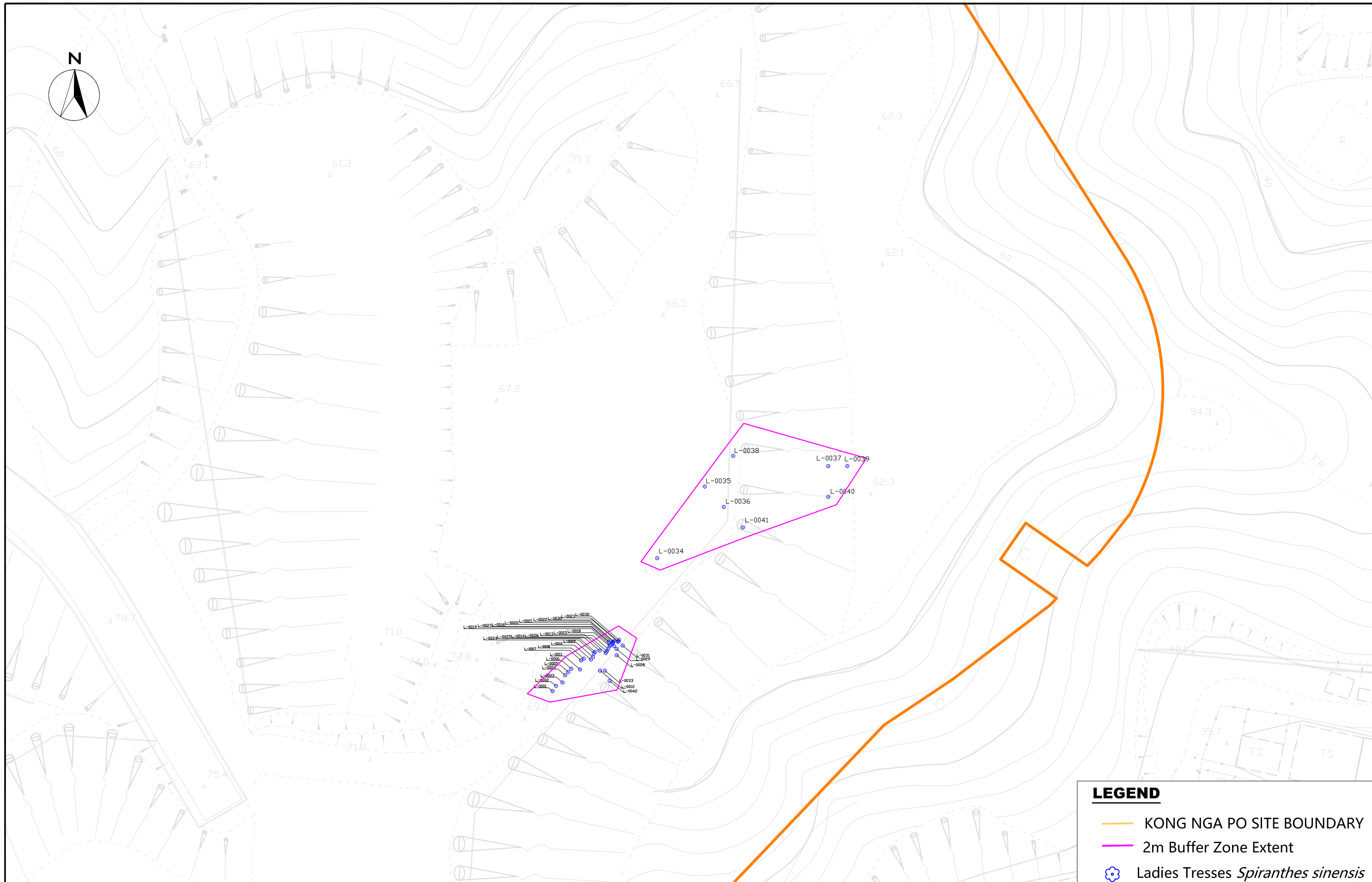
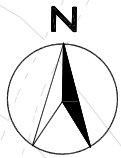


LEGEND			
	KONG NGA PO SITE BOUNDARY		2m Buffer Zone Extent
	Proposed Transplant Location for <i>Brainea insignis</i> & <i>Spiranthes sinensis</i>		Cycad-fern <i>Brainea insignis</i>
	Cycad-fern <i>Brainea insignis</i> (Patch)		



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Location of Cycad-fern *Brainea insignis*

SCALE	A3 @1:4000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1G
		REV	-



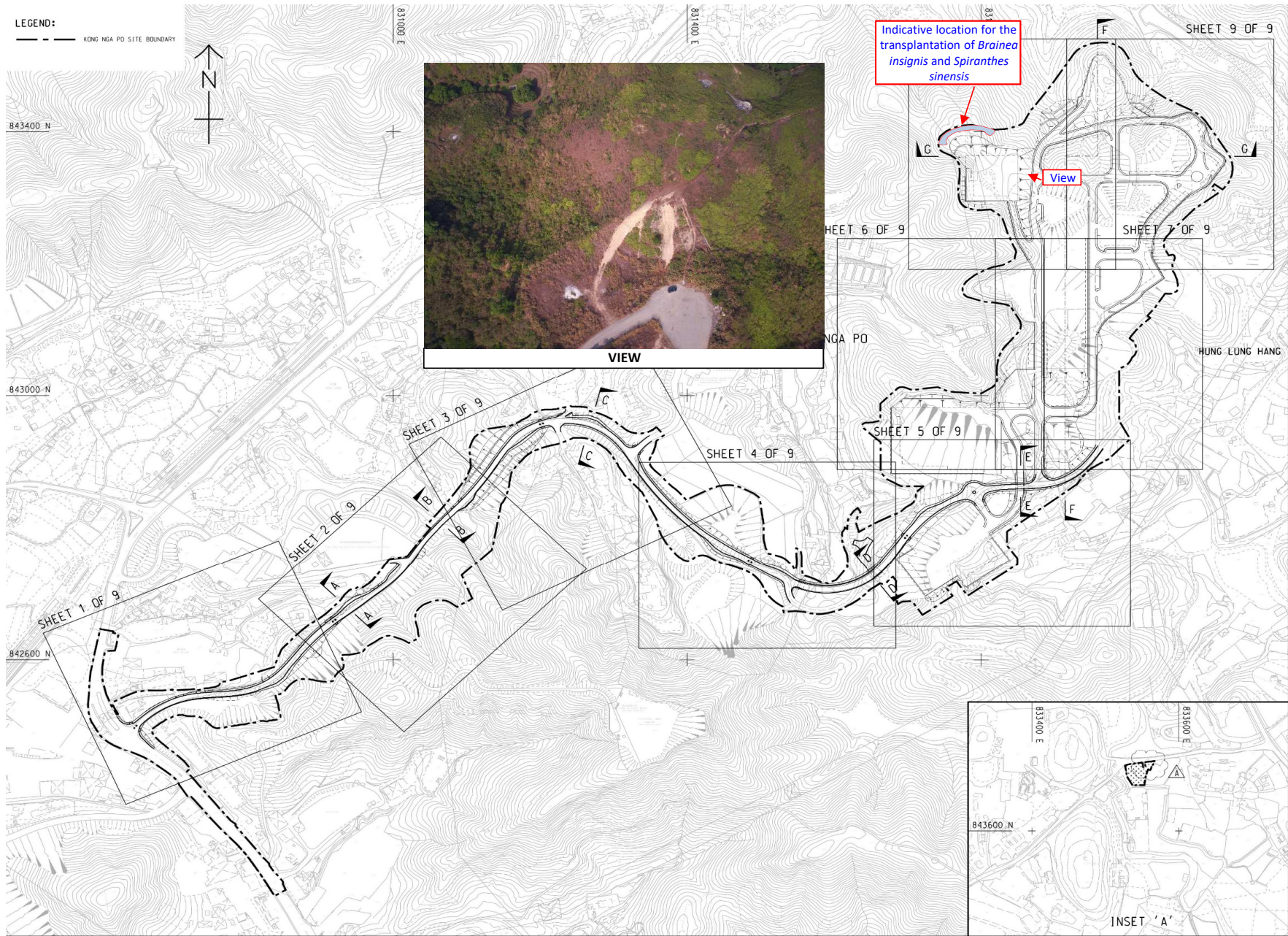
LEGEND			
	KONG NGA PO SITE BOUNDARY		
	2m Buffer Zone Extent		
	Ladies Tresses <i>Spiranthes sinensis</i>		



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
Location of Ladies Tresses *Spiranthes sinensis*

SCALE	A3 @1:4000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
JOB No.	WMA20001	DRAWING No.	1H
		REV	-

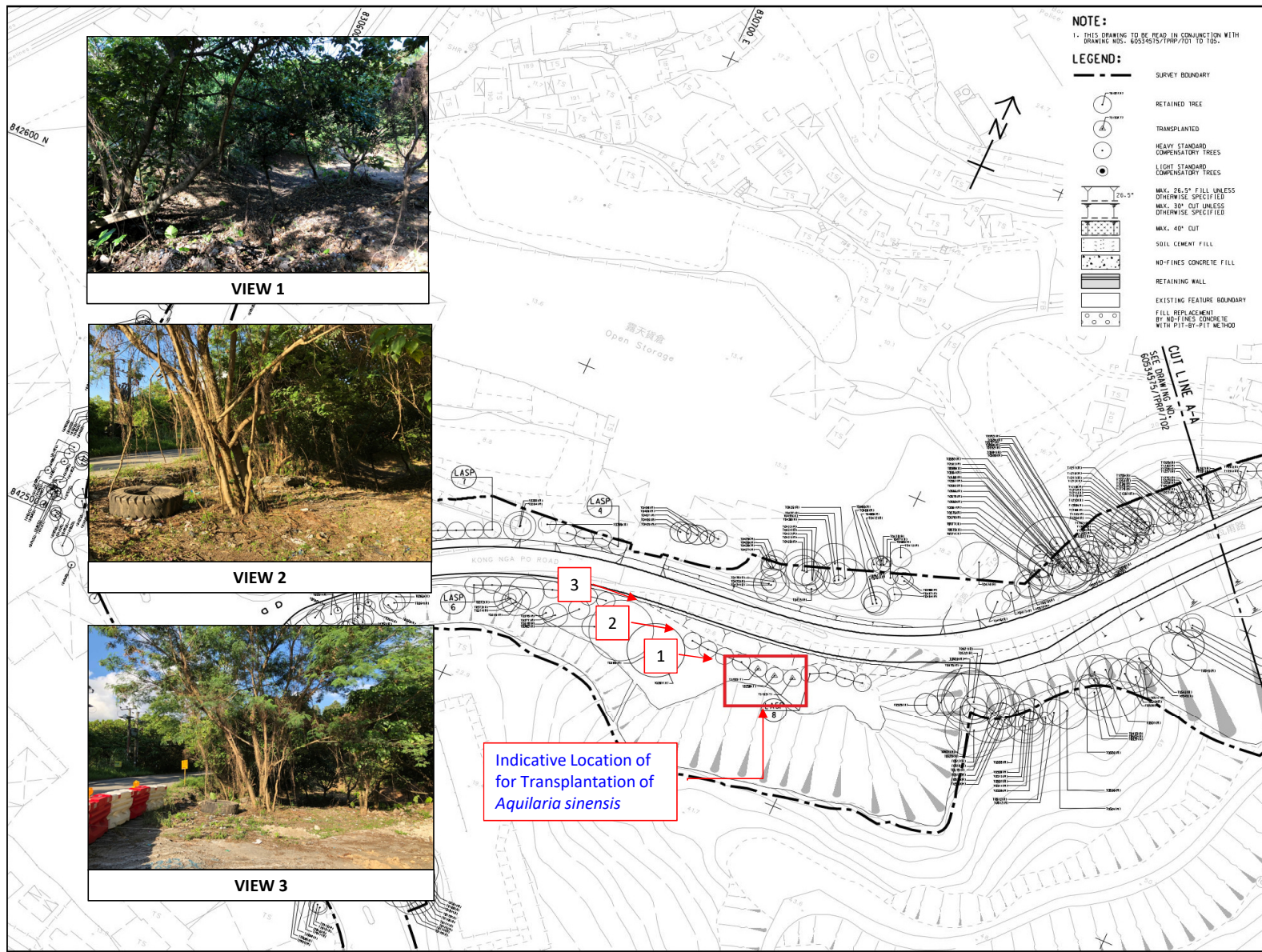
LEGEND:
 - - - - - KONG NGA PO SITE BOUNDARY



Title
 Contract No. NDO 07/2019
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Indicative Location of Proposed Receptor Site for Transplantation of *Brainea insignis* and *Spiranthes sinensis*

Scale	N.T.S	Projectl No.	WMA20001
Date	Apr-20	Figure	2

WELLAB



Title Contract No. NDO 07/2019
 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po
 Indicative Location of Proposed Receptor Site for Transplantation of *Aquilaria sinensis*

Scale N.T.S.
Date May-20
Project No. WMA20001
Figure 3



**APPENDIX A
DETAILED VEGETATION SURVEY
SCHEDULE**

Appendix A - Detailed Vegetation Survey Results

- Cycad-fern *Brainea insignis*

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)^	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)^	Conservation Status	Recommendations (Retain/Transplant/Fell)	Justification	Remarks
C-0001	8	<i>Brainea insignis</i>	蘇鐵蕨	0.3 - 1.0	-	-	F	F	-	-	M	C	Transplant	1	-
C-0002	8	<i>Brainea insignis</i>	蘇鐵蕨	0.3 - 1.0	-	-	F	F	-	-	M	C	Transplant	1	-
C-0003	1	<i>Brainea insignis</i>	蘇鐵蕨	1.3	-	-	G	G	-	-	M	C	Transplant	1	-
C-0004	20	<i>Brainea insignis</i>	蘇鐵蕨	0.2 - 1.3	-	-	F	F	-	-	M	C	Transplant	1	-
C-0005	7	<i>Brainea insignis</i>	蘇鐵蕨	0.5 - 0.7	-	-	F	F	-	-	M	C	Transplant	1	-
C-0006	1	<i>Brainea insignis</i>	蘇鐵蕨	0.2	-	-	F	F	-	-	M	C	Transplant	1	-
C-0007	2	<i>Brainea insignis</i>	蘇鐵蕨	1.3 - 1.4	-	-	G	G	-	-	M	C	Transplant	1	-
C-0008	7	<i>Brainea insignis</i>	蘇鐵蕨	1.2 - 1.3	-	-	G	G	-	-	M	C	Transplant	1	-
C-0009	1	<i>Brainea insignis</i>	蘇鐵蕨	0.9	-	-	F	F	-	-	M	C	Transplant	1	-
C-0010	3	<i>Brainea insignis</i>	蘇鐵蕨	0.8 - 0.9	-	-	F	F	-	-	M	C	Transplant	1	-
C-0011	13	<i>Brainea insignis</i>	蘇鐵蕨	0.9 - 1.2	-	-	F	F	-	-	M	C	Transplant	1	-

- Ladies Tresses *Spiranthes sinensis*

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)^	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)^	Conservation Status	Recommendations (Retain/Transplant/Fell)	Justification	Remarks
L-0001	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0002	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0003	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0004	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0005	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0006	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0007	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0008	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0009	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0010	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0011	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0012	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0013	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0014	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0015	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0016	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0018	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0019	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0020	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0021	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0022	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0023	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0024	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0025	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0026	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0027	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0028	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0029	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0030	1	<i>Spiranthes sinensis</i>	綾草	0.15	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0031	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0032	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0033	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0034	1	<i>Spiranthes sinensis</i>	綾草	0.1	-	-	F	F	-	-	M	A, B	Transplant	1	-
L-0035	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0036	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0037	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0038	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0039	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0040	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0041	1	<i>Spiranthes sinensis</i>	綾草	0.2	-	-	G	G	-	-	M	A, B	Transplant	1	-
L-0042	1	<i>Spiranthes sinensis</i>	綾草	0.25	-	-	G	G	-	-	M	A, B	Transplant	1	-

- Fortune's Keteleeria *Keteleeria fortunei*

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)*	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)*	Conservation Status	Recommendations ((Retain/Transplant/Fell)	Justification	Remarks
F-0001	1	<i>Keteleeria fortunei</i>	油杉	5	115	4	F	F	M	F	L	B	Retain	2	-
F-0002	1	<i>Keteleeria fortunei</i>	油杉	9	220	4	F	P	M	F	L	B	Retain	2	-
F-0003	1	<i>Keteleeria fortunei</i>	油杉	9	220	4.5	F	F	M	F	L	B	Retain	2	-
F-0004	1	<i>Keteleeria fortunei</i>	油杉	4	280	2	F	P	M	F	L	B	Retain	2	Broken branches
F-0005	1	<i>Keteleeria fortunei</i>	油杉	3	80	1	F	P	L	F	L	B	Retain	2	-
F-0006	1	<i>Keteleeria fortunei</i>	油杉	4	85	2	F	F	M	F	L	B	Retain	2	-
F-0007	1	<i>Keteleeria fortunei</i>	油杉	1.2	20	1	F	F	L	F	L	B	Retain	2	-
F-0008	1	<i>Keteleeria fortunei</i>	油杉	1.1	20	1.5	P	P	L	P	L	B	Retain	2	-
F-0009	1	<i>Keteleeria fortunei</i>	油杉	9	240	4	F	F	M	F	L	B	Retain	2	-
F-0010	1	<i>Keteleeria fortunei</i>	油杉	9	220	4	F	P	M	F	L	B	Retain	2	-
F-0011	1	<i>Keteleeria fortunei</i>	油杉	3	60	2	F	P	L	F	L	B	Retain	2	Broken branches
F-0012	1	<i>Keteleeria fortunei</i>	油杉	4	120	2	F	F	M	F	L	B	Retain	2	-
F-0013	1	<i>Keteleeria fortunei</i>	油杉	5	150	3	F	F	M	F	L	B	Retain	2	-
F-0014	1	<i>Keteleeria fortunei</i>	油杉	5	140	3	F	F	L	F	L	B	Retain	2	Broken branches
F-0015	1	<i>Keteleeria fortunei</i>	油杉	3	92	-	P	P	L	P	L	B	Retain	2	Leaning
F-0016	1	<i>Keteleeria fortunei</i>	油杉	2	41	1	P	P	L	P	L	B	Retain	2	Leaning
F-0017	1	<i>Keteleeria fortunei</i>	油杉	4	108	2	P	P	L	P	L	B	Fell	3	Broken branches, Leaning, Dead
F-0018	1	<i>Keteleeria fortunei</i>	油杉	2	89	1.5	P	P	L	P	L	B	Retain	2	Broken branches
F-0019	1	<i>Keteleeria fortunei</i>	油杉	4	86	2	P	P	L	P	L	B	Retain	2	Broken branches, Leaning
F-0020	1	<i>Keteleeria fortunei</i>	油杉	5	86	1.5	F	F	M	F	L	B	Retain	2	-
F-0021	1	<i>Keteleeria fortunei</i>	油杉	7	152	3	P	P	M	P	L	B	Retain	2	-
F-0022	1	<i>Keteleeria fortunei</i>	油杉	5	76	2	F	F	L	F	L	B	Retain	2	-
F-0023	1	<i>Keteleeria fortunei</i>	油杉	8	181	4	F	F	M	F	L	B	Retain	2	-
F-0024	1	<i>Keteleeria fortunei</i>	油杉	8	296	6	F	F	M	F	L	B	Retain	2	-
F-0025	1	<i>Keteleeria fortunei</i>	油杉	4	124	4	F	F	M	F	L	B	Retain	2	Pollarded
F-0027	1	<i>Keteleeria fortunei</i>	油杉	2.5	-	2	F	F	L	F	L	B	Retain	2	Pollarded
F-0028	1	<i>Keteleeria fortunei</i>	油杉	3	80	2	F	F	L	F	L	B	Retain	2	Broken branches, Leaning
F-0029	1	<i>Keteleeria fortunei</i>	油杉	7	190	3	F	F	M	F	L	B	Retain	2	-
F-0030	1	<i>Keteleeria fortunei</i>	油杉	7	203	5	F	F	M	F	L	B	Retain	2	-
F-0031	1	<i>Keteleeria fortunei</i>	油杉	3	76	1.5	F	F	L	F	L	B	Retain	2	-
F-0032	1	<i>Keteleeria fortunei</i>	油杉	7	140	3	F	F	L	F	L	B	Retain	2	-
F-0034	1	<i>Keteleeria fortunei</i>	油杉	13	430	6	F	F	M	F	L	B	Retain	2	-
F-0035	1	<i>Keteleeria fortunei</i>	油杉	5	105	1.5	P	P	L	P	L	B	Retain	2	Leaning
F-0036	1	<i>Keteleeria fortunei</i>	油杉	7	162	4	F	F	M	F	L	B	Retain	2	-
F-0037	1	<i>Keteleeria fortunei</i>	油杉	4	105	2	F	F	M	F	L	B	Retain	2	-
F-0038	1	<i>Keteleeria fortunei</i>	油杉	6	159	3	F	F	M	F	L	B	Retain	2	-
F-0039	1	<i>Keteleeria fortunei</i>	油杉	7	210	5	F	F	M	F	L	B	Retain	2	-
F-0040	1	<i>Keteleeria fortunei</i>	油杉	8	220	5	F	F	M	F	L	B	Retain	2	-
F-0041	1	<i>Keteleeria fortunei</i>	油杉	9	190	6	F	F	L	F	L	B	Retain	2	-
F-0042	1	<i>Keteleeria fortunei</i>	油杉	6	60	2	P	P	L	P	L	B	Retain	2	-
F-0043	1	<i>Keteleeria fortunei</i>	油杉	11	241	5	F	F	M	F	L	B	Retain	2	-
F-0044	1	<i>Keteleeria fortunei</i>	油杉	1.5	35	-	P	P	L	P	L	B	Fell	3	Dead
F-0045	1	<i>Keteleeria fortunei</i>	油杉	11	248	5	F	F	M	F	L	B	Retain	2	-
F-0046	1	<i>Keteleeria fortunei</i>	油杉	2	45	2	F	F	L	F	L	B	Retain	2	-
F-0047	1	<i>Keteleeria fortunei</i>	油杉	5	108	3	F	F	M	F	L	B	Retain	2	-
F-0048	1	<i>Keteleeria fortunei</i>	油杉	7	184	4	F	F	M	F	L	B	Retain	2	-
F-0049	1	<i>Keteleeria fortunei</i>	油杉	1	20	-	P	P	L	P	L	B	Fell	3	Leaning, Dead
F-0050	1	<i>Keteleeria fortunei</i>	油杉	0.8	44	-	P	P	L	P	L	B	Retain	2	Pollarded
F-0051	1	<i>Keteleeria fortunei</i>	油杉	2	63	-	P	P	L	P	L	B	Retain	2	Leaning

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)^	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)^	Conservation Status	Recommendations ((Retain/Transplant/Fell)	Justification	Remarks
F-0052	1	<i>Keteleeria fortunei</i>	油杉	1	31	-	P	P	L	P	L	B	Retain	2	Leaning
F-0053	1	<i>Keteleeria fortunei</i>	油杉	14	460	7	G	G	H	G	L	B	Retain	2	-
F-0054	1	<i>Keteleeria fortunei</i>	油杉	11	274	5	F	F	H	G	L	B	Retain	2	-
F-0055	1	<i>Keteleeria fortunei</i>	油杉	11	274	4	F	F	H	F	L	B	Retain	2	-
F-0056	1	<i>Keteleeria fortunei</i>	油杉	10	223	5	F	F	M	P	L	B	Retain	2	-
F-0057	1	<i>Keteleeria fortunei</i>	油杉	7	99	3	F	F	M	F	L	B	Retain	2	-
F-0058	1	<i>Keteleeria fortunei</i>	油杉	4	140	4	P	P	L	P	L	B	Retain	2	Pollarded
F-0059	1	<i>Keteleeria fortunei</i>	油杉	9	175	6	P	P	M	F	L	B	Retain	2	-
F-0060	1	<i>Keteleeria fortunei</i>	油杉	8	127	2	F	F	M	F	L	B	Retain	2	-
F-0061	1	<i>Keteleeria fortunei</i>	油杉	9	162	3	F	F	M	F	L	B	Retain	2	-
F-0062	1	<i>Keteleeria fortunei</i>	油杉	10	175	3	F	F	M	F	L	B	Retain	2	-
F-0063	1	<i>Keteleeria fortunei</i>	油杉	7	105	3	F	F	M	F	L	B	Retain	2	-
F-0064	1	<i>Keteleeria fortunei</i>	油杉	8	171	3	F	F	M	F	L	B	Retain	2	-
F-0065	1	<i>Keteleeria fortunei</i>	油杉	3	92	5	F	F	L	F	L	B	Retain	2	-
F-0066	1	<i>Keteleeria fortunei</i>	油杉	7	184	5	F	F	M	F	L	B	Retain	2	-
F-0067	1	<i>Keteleeria fortunei</i>	油杉	7	111	2	F	F	M	F	L	B	Retain	2	-
F-0068	1	<i>Keteleeria fortunei</i>	油杉	6	101	3	F	F	M	F	L	B	Retain	2	-
F-0069	1	<i>Keteleeria fortunei</i>	油杉	4	76	2	F	F	M	F	L	B	Retain	2	-
F-0070	1	<i>Keteleeria fortunei</i>	油杉	6	95	3	F	F	M	F	L	B	Retain	2	-
F-0071	1	<i>Keteleeria fortunei</i>	油杉	5	67	1	F	F	L	F	L	B	Retain	2	-
F-0072	1	<i>Keteleeria fortunei</i>	油杉	8	156	2	P	P	L	P	L	B	Retain	2	Leaning, Broken branches
F-0073	1	<i>Keteleeria fortunei</i>	油杉	7	134	3	F	F	M	F	L	B	Retain	2	-
F-0074	1	<i>Keteleeria fortunei</i>	油杉	8	181	5	F	F	M	F	L	B	Retain	2	-
F-0075	1	<i>Keteleeria fortunei</i>	油杉	5	102	5	F	F	M	F	L	B	Retain	2	-
F-0076	1	<i>Keteleeria fortunei</i>	油杉	8	159	3	F	F	M	F	L	B	Retain	2	-
F-0077	1	<i>Keteleeria fortunei</i>	油杉	4	80	2	F	F	L	F	L	B	Retain	2	-
F-0078	1	<i>Keteleeria fortunei</i>	油杉	7	70	1.5	F	F	L	F	L	B	Retain	2	-
F-0079	1	<i>Keteleeria fortunei</i>	油杉	7	137	3	F	F	M	F	L	B	Retain	2	-
F-0080	1	<i>Keteleeria fortunei</i>	油杉	10	290	5	F	F	M	F	L	B	Retain	2	-
F-0081	1	<i>Keteleeria fortunei</i>	油杉	8	80	1.5	P	P	L	P	L	B	Retain	2	Leaning
F-0082	1	<i>Keteleeria fortunei</i>	油杉	1.1	-	1	P	P	L	P	L	B	Retain	2	-

- Incense Trees *Aquilaria sinensis*

Tree / Plant / Colony No.	No. of individuals	Species Name	Chinese Common Name	Height (m)	DBH (mm)	Crown Spread (m)	Form (G/F/P)*	Health (G/F/P)*	Amenity Value (H/M/L)^	Structural Condition (G/F/P)*	Suitability for Transplanting (H/M/L)^	Conservation Status	Recommendations ((Retain/Transplant/Fell)	Justification	Remarks
A-0001	1	<i>Aquilaria sinensis</i>	土沉香	2.7	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0002	1	<i>Aquilaria sinensis</i>	土沉香	2	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0003	1	<i>Aquilaria sinensis</i>	土沉香	3	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0004	1	<i>Aquilaria sinensis</i>	土沉香	3.5	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0005	1	<i>Aquilaria sinensis</i>	土沉香	2	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0006	1	<i>Aquilaria sinensis</i>	土沉香	1.7	-	-	F	F	-	-	L	A, C, D	Retain	2	-
A-0007	1	<i>Aquilaria sinensis</i>	土沉香	0.5	-	-	P	P	-	-	L	A, C, D	Retain	2	-
A-0008	1	<i>Aquilaria sinensis</i>	土沉香	7	324	4	F	F	M	F	L	A, C, D	Transplant	1	Wounded, on slope
A-0009	1	<i>Aquilaria sinensis</i>	土沉香	6	120	3	F	G	M	G	L	A, C, D	Transplant	1	On slope
A-0010	1	<i>Aquilaria sinensis</i>	土沉香	6	159	3	F	F	F	F	L	A, C, D	Transplant	1	On slope

* Good (G), Fair (F), Poor (P)

^ High (H), Medium (M), Low (L)

Conservation status

(A) The Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586)

(B) Forests and Countryside Ordinance (Cap. 96)

(C) Category II protected species in Mainland China

(D) Near threatened in mainland

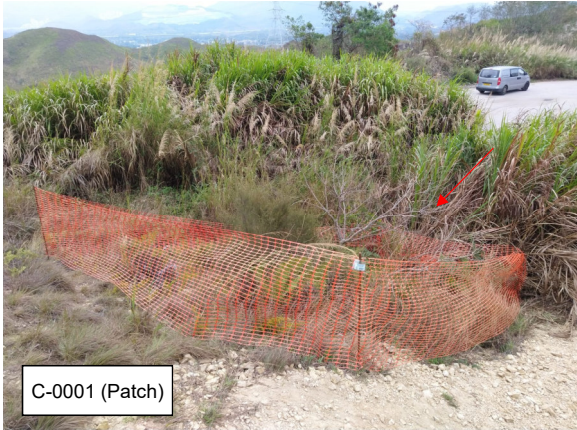
Justification

1. Species located within and affected by the development area of Kong Nga Po Police Facilities

2. No conflict with proposed works

3. Dead tree

**APPENDIX B
PHOTOGRAPHIC RECORD OF
SURVEYED FLORA SPECIES OF
CONSERVATION IMPORTANCE**




C-0001 (Patch)




C-0002 (Patch)



C-0003

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



C-0004 (Patch)




C-0004 (Patch)



C-0004 (Patch)



C-0004 (Patch)

 <p>consulting . testing . research</p>	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B




C-0004 (Patch)



C-0004 (Patch)



C-0005 (Patch)

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B




C-0006



C-0007 (Patch)

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



C-0009



C-0010 (Patch)

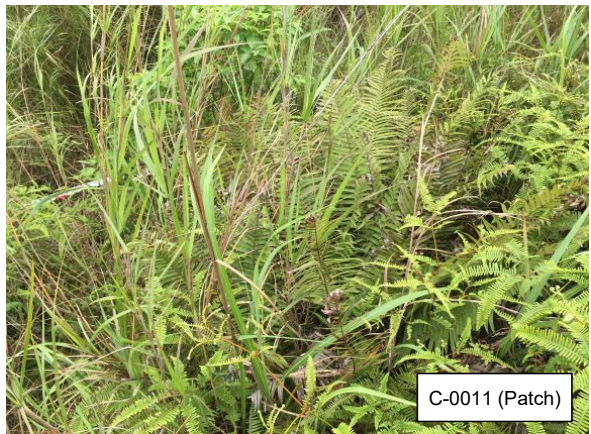
	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N. T. S.	DATE Mar -20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



C-0011 (Patch)




C-0011 (Patch)




C-0011 (Patch)



C-0011 (Patch)

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N . T . S .</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Cycad-fern <i>Brainea Insignis</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Cycad-fern <i>Brainea Insignis</i>	Project No. WMA20001	Appendix B



L-0001



L-0002




L-0003




L-0004

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar-20</p>
	<p>Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0013




L-0014



L-0015



L-0016

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar-20</p>
	<p>Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



L-0018




L-0019



L-0020



L-0021

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0022



L-0023



L-0024



L-0025

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0026




L-0027



L-0028



L-0029

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0030




L-0031




L-0032



L-0033

 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



L-0038



L-0039




L-0040



L-0041

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar-20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for the Ladies Tressess <i>Spiranthes Sinensis</i>	Project No. WMA20001	Appendix B



F-0001




F-0002



F-0003



F-0004

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE N.T.S.</p>	<p>DATE Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No. WMA20001</p>	<p>Appendix B</p>



F-0005



F-0006



F-0007



F-0008



F-0009



F-0010



F-0011



F-0012

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0013




F-0014



F-0015



F-0016

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0017



F-0018



F-0019



F-0020



Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Photographic Records for Fortune's Keteleeria *Keteleeria fortunei*

SCALE

N.T.S.

DATE

Mar -20

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WMA20001

Appendix

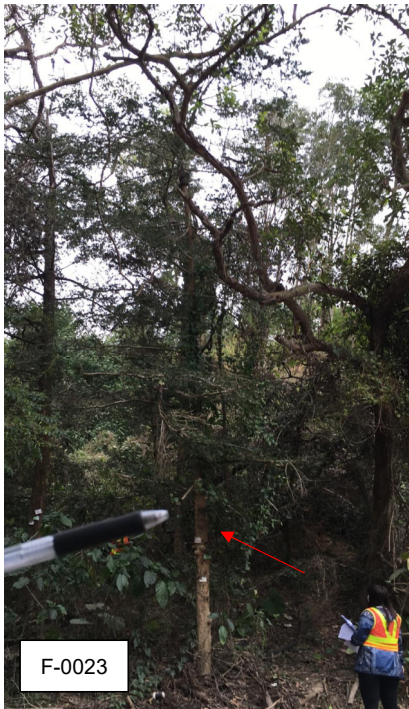
B



F-0021




F-0022



F-0023



F-0024

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0025



F-0027



F-0028



F-0029

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0030



F-0031



F-0032



F-0034

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0035



F-0036



F-0037



F-0038



F-0039




F-0040



F-0041



F-0042

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0043




F-0044



F-0045



F-0046

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0047




F-0048




F-0049



F-0050

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0055




F-0056



F-0057



F-0058

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0059




F-0060



F-0061



F-0062

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0063




F-0064



F-0065



F-0066

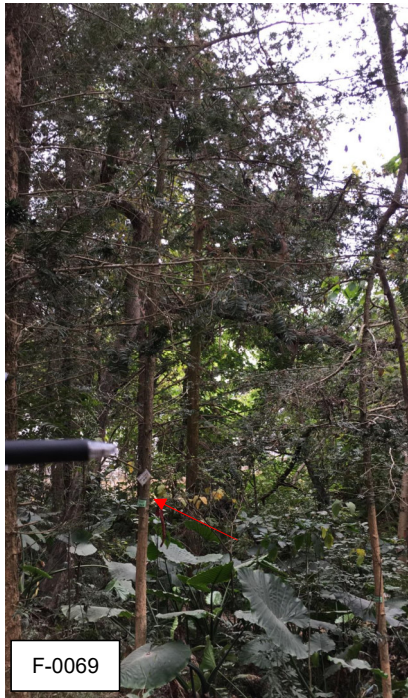
 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N.T.S.</p>	<p>DATE</p> <p>Mar -20</p>
	<p>Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



F-0067



F-0068



F-0069



F-0070

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0071



F-0072



F-0073



F-0074

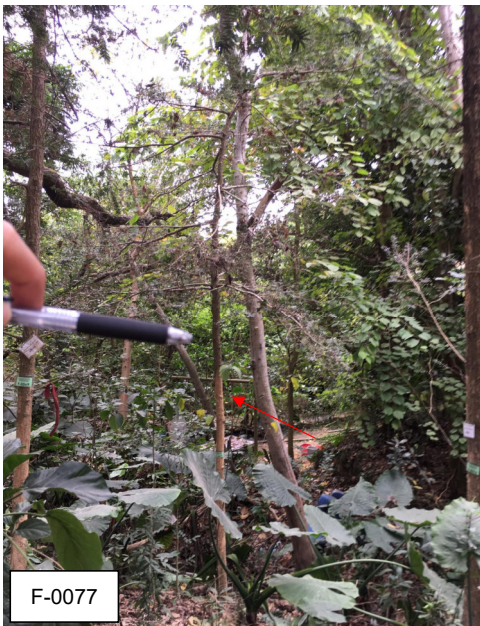
	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0075



F-0076



F-0077



F-0078

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



F-0079



F-0080



F-0081



F-0082

	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N.T.S.	DATE Mar -20
	Photographic Records for Fortune's Keteleeria <i>Keteleeria fortunei</i>	Project No. WMA20001	Appendix B



A-0001




A-0002




A-0003




A-0004

 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE N.T.S.</p>	<p>DATE Mar -20</p>
	<p>Photographic Records for Inense Tree <i>Aquilaria Sinensis</i></p>	<p>Project No. WMA20001</p>	<p>Appendix B</p>



 <p>consulting . testing . research</p>	<p>Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po</p>	<p>SCALE</p> <p>N . T . S .</p>	<p>DATE</p> <p>Mar - 20</p>
	<p>Photographic Records for Insense Tree <i>Aquilaria Sinensis</i></p>	<p>Project No.</p> <p>WMA20001</p>	<p>Appendix</p> <p>B</p>



 consulting . testing . research	Service Contract No. NDO 07/2019 Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po	SCALE N . T . S .	DATE Mar - 20
	Photographic Records for Insense Tree <i>Aquilaria Sinensis</i>	Project No. WMA20001	Appendix B

**APPENDIX C
CURRICULUM VITAE OF QUALIFIED
ECOLOGIST AND ARBORIST**

COMPANY	WELLAB LIMITED
POSITION	MANAGING DIRECTOR
PROFESSION	ECOLOGIST AND ARBORIST
NATIONALITY	CHINESE

PROFESSIONAL QUALIFICATIONS & AFFILIATIONS

- Ph.D., Microbiology, University of Hong Kong, Hong Kong. 1992.
 - B.Sc., Biology, National Taiwan Normal University, Taipei, Taiwan, Republic of China. 1983

 - Hong Kong Institute of Qualified Environmental Professionals Limited (HKIQEP), 2017
 - Member, Hong Kong Institution of Engineers, 2015
 - Fellow, Hong Kong Institute of Environmental Impact Assessment, 2015
 - Accredited Monitoring Professional, Hong Kong Institute of Environmental Impact Assessment, 2010
 - Member, Hong Kong Waste Management Association, 1998

 - Member, Sustainable Fisheries Development Fund Advisory Committee (2020-present)
 - Member, the Advisory Committee on Agriculture and Fisheries (2013-2019)
 - Member, Research Projects Vetting Subcommittee under the Environment and Conservation Fund (ECF) Committee (2018-present)
 - Member, the Innovation and Technology Fund Research Projects Assessment Panel (Environmental Technology) (2017-present)

 - ISA Certified Arborist (CertificationID:HK-0361A) (2009 - present)
 - ISA Tree Risk Assessment Qualification (2012-2015)
 - PNW-ISA Certified Tree Risk Assessor
-

KEY EXPERIENCE

Dr. Priscilla Choy has over 35 year experience in in scientific research, ecological conservation, ecological surveys and assessment, tree survey, tree risk assessment, environmental monitoring & audit, environmental management studies, environmental testing and laboratory analysis.. In the past 23 years, she has managed many ecological surveys and assessment studies, numerous environmental monitoring & audit for infrastructure projects and tree survey projects / tree risk assessment projects.

Dr. Choy is an Ecologist (PNW-ISA Certified Tree Risk Assessor and ISA Certified Arborist) specialized in the evaluation of vegetation, wildlife and habitat values of brackish and freshwater. She has supervised and undertaken many ecological projects involving ecological survey, monitoring and assessment, involving wetland recreation, rare/protected plant species transplantation and fish translocation works. She has also conducted extensive surveys on different habitats and the associated vegetation and wildlife for development projects, including Improvement to Tung Chung Road Between Lung Tseng Tau and Cheung Sha, Drainage Improvement, Stage 1, Phase 2A – Kam Tin and Ngau Tam Mei; and many others.

PROFESSIONAL HISTORY

2019 - Present	Managing Director, Wellab Limited
2005 - 2018	Director, Wellab Limited
2002 - 2018	Director, Cinotech Consultants Limited
1998 - 2002	Director, Maunsell Environmental Management Consultants Ltd.
1997 - 1998	Director, ENPAC Ltd. (An Environmental Consultancy Company)

1996 - 1998 Laboratory Director, Wellab Limited
 1996 - 1997 Project Manager, ENPAC Ltd. (An Environmental Consultancy Company)

PROFESSIONAL EXPERIENCE AND RECORDS

Tree Survey, Risk Assessment, Protection and Monitoring (Partial List)

Project	Scope	Period
Contract No. GE/2018/03 Landslip Prevention and Mitigation Programme, 2012, Package C Landslip Prevention and Mitigation Works in Lantau and Hong Kong Island	- Tree Survey - Vegetation Survey	2018-present
CEDD Operation and Maintenance of Public Fill Reception Facilities at Chai Wan and Mui Wo (2018 – 2023)	Tree group inspection and detailed tree risk assessment of trees	2018-present
SPW09/2018 Baseline Surveys for Shatin Cavern Sewage Treatment Works	- Vegetation Survey	2018 - 2019
Proposed Residential Development At 21, 23 & 25 Borrett Road	- Tree compensation proposal - Tree health monitoring	2015
Provision of Lifts/Ramps to Four Footbridges across Aberdeen Praya Road and Yue Shi Cheung Road, across Tsuen Wan MTR Depot near Mega Trade Centre, across Castle Peak Road near Fou Wah Centre and across Choi Yuen Road and San Wan Road at Pak Wo Road, and Two Subways across Ching Hong Road near Mayfair Gardens and across Tai Po Road near Fo Tan Road	Tree survey in Sheung Shui area	2015
CEDD Maintenance Contract for Seawalls and Navigation Channels (2013 – 2016)	Tree group inspection and detailed tree risk assessment of trees at Cha Kwo Ling Depot	2014
Main Contract for Footbridge at Tuen Mun River	Tree survey at Portions A and B	2014
Tree Survey and Compensation Report for Hong Kong Vipassana Meditation Centre	Tree survey at the proposed centre and along the access road	2011
Agreement No. CE 64/2009 (HY) Improvement to Fan Kam Road Feasibility Study	Tree survey within and about 5 m outside the work site boundary	2010 – 2011
Tenancy Agreement No. SHX-1241 Tin Wan Concrete Batching Plant	Tree survey	2010
Contract No: ST/2008/02 Ma On Shan Development - Roads, Drainage and Sewerage Works at Whitehead and Lok Wo Sha Phase 1	Tree transplanting site assessment	2010

Project	Scope	Period
Contract No. DC/2007/19 Drainage Improvement in Northern Hong Kong Island - Western Lower Catchment Works	Tree survey at the following locations: <ul style="list-style-type: none"> - Cotton Path - Shouson Hill Road West - Sheung Wan Site Office - Nullah next to Queen's College - Drainage D4 Tree risk assessment at the following location: <ul style="list-style-type: none"> - Nullah next to Queen's College 	2009 2009, 2013 2009 2009, 2012 2010 2013
Cycle Tracks Connecting North West New Territories with North East New Territories – (Extension), Minor Sections Investigation, Design and Construction	Tree survey	2008 – 2013
Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel	Tree survey report for at the Eastern and Western Portals of the Project	2008
Slope Upgrading Works for Feature No. 11SW-B/FR211 & 11SW-B/F247 at Kowloon Park	Regular tree inspection for retained and historical trees	2007 - 2008
Tree Survey in Pokfulam & Wah Fu Areas	Tree survey in Pokfulam & Wah Fu Areas	2007
Contract No. 15/WSD/06 Mainlaying along Castle Peak Road between Siu Lam and Lok On Pai	Tree survey within and about 5 m outside the work site boundary	2007
Contract No. DC/2003/02 Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Improvement, Stage 1, Phase 2A – Kam Tin and Ngau Tam Mei	Tree survey affected by the construction of the Ngau Tam Mei Channel (NTM1) and Kam Tin Secondary Channel (KT7)	2004
Trunk Road T4, Shatin	Tree survey within and about 5 m outside the work site boundary	2003 - 2005
Agreement No. CE 57/2002 (HY) Provision of Access Facilities for the Elderly & Disabled at Existing Footbridge in NT – Phase I	Tree surveys at five existing footbridge sites	2003
EIA for High Pressure Gas Pipeline Inside Ma On Shan Country Park	Tree survey within and about 5 m outside the work site boundary	2002
Agreement No. CE 61/90 Tolo Harbour Catchment Stage I Phase ID Sewerage Contract 1D – Yung Shue O	Tree survey within the work site and 20 m outside the work boundary	2002

Ecological Impact Assessment / Monitoring (Partial list)

Project	Scope	Period
Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works – Environmental Team	<ul style="list-style-type: none"> - Avifauna flight line survey - Herpetofauna monitoring of species of conservation significant – Chinese Bull Frog - Use of remote sensing camera for monitoring of mammals 	2018 - 2019
Deep Cement Mixing Works for Three Runway System	Dolphin monitoring	2016 – 2019
Contract P553 Deep Cement Mixing Trial Works (By Multiple Rigs)	Dolphin monitoring	2015
AA Contract P560(R) - Aviation Fuel Pipeline Diversion Works	Ecological survey for terrestrial habitats	2015

Project	Scope	Period
Consultancy for Environmental Assessment for Laser and Light Shows at Galaxy Cotai Macau Phase 1 & 2 Development	Review of impact on avifauna due to laser show	2014
Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill	Dolphin monitoring	2013 – 2018
Contract No. CV/2012/01 Sediment Removal at Yim Tin Tsai (East) Fish Culture Zone	Monitoring for ardeids, white-bellied sea eagles and coral	2013 - 2014
Port Shelter Sewerage, Stage 3 – Sewerage Works at Po Toi O Environmental Impact Assessment Studies – Investigation	Ecological impact assessment (terrestrial, coastal and benthic)	2013 - 2014
Discovery Bay Maintenance Dredging 2012	Ecological appraisal (terrestrial, coastal, benthic)	2013
Maintenance Contract for Seawalls and Navigation Channels (2010-2013) Kam Tin River – Waterbird Monitoring	Waterbird monitoring	2012
Harbour Area Treatment Scheme Stage 2A – Construction of Advance Disinfection Facilities at Stonecutters Island Sewage Treatment Works	Benthic survey	2012
Baseline Environmental Monitoring for Hong Kong - Zhuhai - Macao Bridge Hong Kong Projects – Investigation	Dolphin monitoring	2011
Deep Cement Mixing Trial Works	Dolphin monitoring	2011
Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point	Egret Survey	2011
Consultancy Service for Ecological Impact Assessment at Yan Tun Kong Study Hall, Hang Tau Tsuen, Ping Shan, Hong Kong	Ecological impact assessment (bat)	2010 – 2011
Agreement No. CE 64/2009 (HY) Improvement to Fan Kam Road Feasibility Study	Ecological impact assessment (terrestrial and stream)	2010 – 2011
Improvement Work for Mui Wo Facelift – Design and Construction	Ecological impact assessment for opening of Silvermine Cave (terrestrial and stream)	2010 - 2011
Consultancy for Environmental Monitoring on the Major Restoration of the Residence of Ip Ting-Sz, Lin Ma Hang Tsuen, Sha Tau Kok	Ecological impact assessment (terrestrial and stream)	2010
Contract No: ST/2008/02 Ma On Shan Development - Roads, Drainage and Sewerage Works at Whitehead and Lok Wo Sha Phase 1	- Shrub survey for Hong Kong Pavetta (<i>Pavetta hongkongensis</i>) and Small Persimmon (<i>Diospyros vaccinioides</i>) - Transplantation monitoring	2010
Contract No. DC/2008/09 Harbour Area Treatment Scheme Stage 2A Construction of Sewage Conveyance System From Ap Lei Chau to Aberdeen	Monitoring of Coral	2009
CE39/2006 (DS) Rehabilitation of Yuen Long Town Nullahs	Ecological impact assessment (terrestrial and stream)	2008 – 2009

Project	Scope	Period
Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tun	Amphibian Survey and Translocation	2008
Environmental Audit and Review on the Effectiveness of Mitigation Measures for Projects in Sai Kung and on Lantau Island	Review of effectiveness of ecological mitigation measures (vegetation, stream and coral transplant)	2007
Agreement No. CE18/2006(DS) Reconstruction & Improvement of Staunton Creek Nullah in Wong Chuk Hang and Fuk Man Road Nullah in Sai Kung, Investigation, Design and Construction	Ecological impact assessment (terrestrial and stream)	2007
Agreement No. CE 27/2005 (CE) Ping Ha Road Improvement and Hung Shui Kiu Development, Stage 2 – Remaining Works	Ecological impact assessment (terrestrial and stream)	2005 – 2006
Trunk Road T4, Shatin	Ecological impact assessment (terrestrial)	2003 - 2005
Tonggu Channel of Shenzhen Port	Ecological impact assessment (intertidal, benthic)	2003 - 2005

**APPENDIX D
TEMPLATE OF POST-TRANSPLANTATION
MONITORING CHECKLIST**

Template of Post-transplantation Monitoring Checklist
Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Audit Ref. No. _____

Contract _____

Inspected By _____

Inspection Date _____
Time Period _____

Part A Weather

Condition Sunny Fine Overcast Drizzle Rain Storm Hazy
Temperature _____ °C
Humidity High (RH>90%) Moderate (90%>RH>50%) Low (RH<50%)
Wind Calm Light Breeze Strong

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
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Part B

1. Cycadfern *Brainea insignis*

1.1 Are the plants' health conditions satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.2 Are transplanted plants on site protected carefully?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.4 Are the plant protection zone set 1m from the plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.6 Is compaction of the soil avoided for the plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.9 Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.10 Are fixings driven into plants avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.11 Are the plants used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.13 Are all plants kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.14 Are there enough area for growth and development of plant roots?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.15a Is exposure of plant roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.15b If not, were broken off or rotting of roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
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2. Ladies Tresses *Spiranthes sinensis*

2.1 Are the plants' health conditions satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.2 Are transplanted plants on site protected carefully?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.4 Are the plant protection zone set 1m from the plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.6 Is compaction of the soil avoided for the plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Template of Post-plantation Monitoring Checklist
Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
2.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.9 Are soil, debris or construction materials deposited around and against the trunk of a plant as this causes bark damage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10 Are fixings driven into plants avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11 Are the plants used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the plants avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.13 Are all plants kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14 Are there enough area for growth and development of plant roots?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.15a Is exposure of plant roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.15b If not, were broken off or rotting of roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3. <u>Incense Trees <i>Aquilaria sinensis</i></u>	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
3.1 Are the trees's health conditions satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.2 Are transplanted trees on site protected carefully?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.3 Are the temporary protective fence properly erected and maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.4 Are the tree protection zone set 1m from the trees?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.5 Are all grassed and planted area kept free from weeds/unwanted plants?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.6 Is compaction of the soil avoided for the trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.7 Are litter/ unwanted material removed within the planting area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.8 Are equipment or stockpile placed outside the protection zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.9 Are soil, debris or construction materials deposited around and against the trunk of a tree as this causes bark damage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.10 Are fixings driven into trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.11 Are the trees used for anchoring or winching purposes or for the display of signs avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.12 Are the fire lit below the branches and petrol, oil or caustic substances stored near the trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.13 Are all trees kept free from pest, disease or fungal infection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.14 Are there enough area for growth and development of tree roots?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.15a Is exposure of tree roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.15b If not, were broken off or rotting of roots avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.16 Are wounds/mechanical injuries avoided on tree trunk?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.17 Are leaning of trees avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.18 Are dead/detached branches avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.19 Are decay/cavity avoided on tree trunks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Template of Post-transplantation Monitoring Checklist
 Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po

Part C Follow-up for the Previous Site Audit on Date: _____ (Ref. No. _____)

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Remarks/Observations

Signatures:

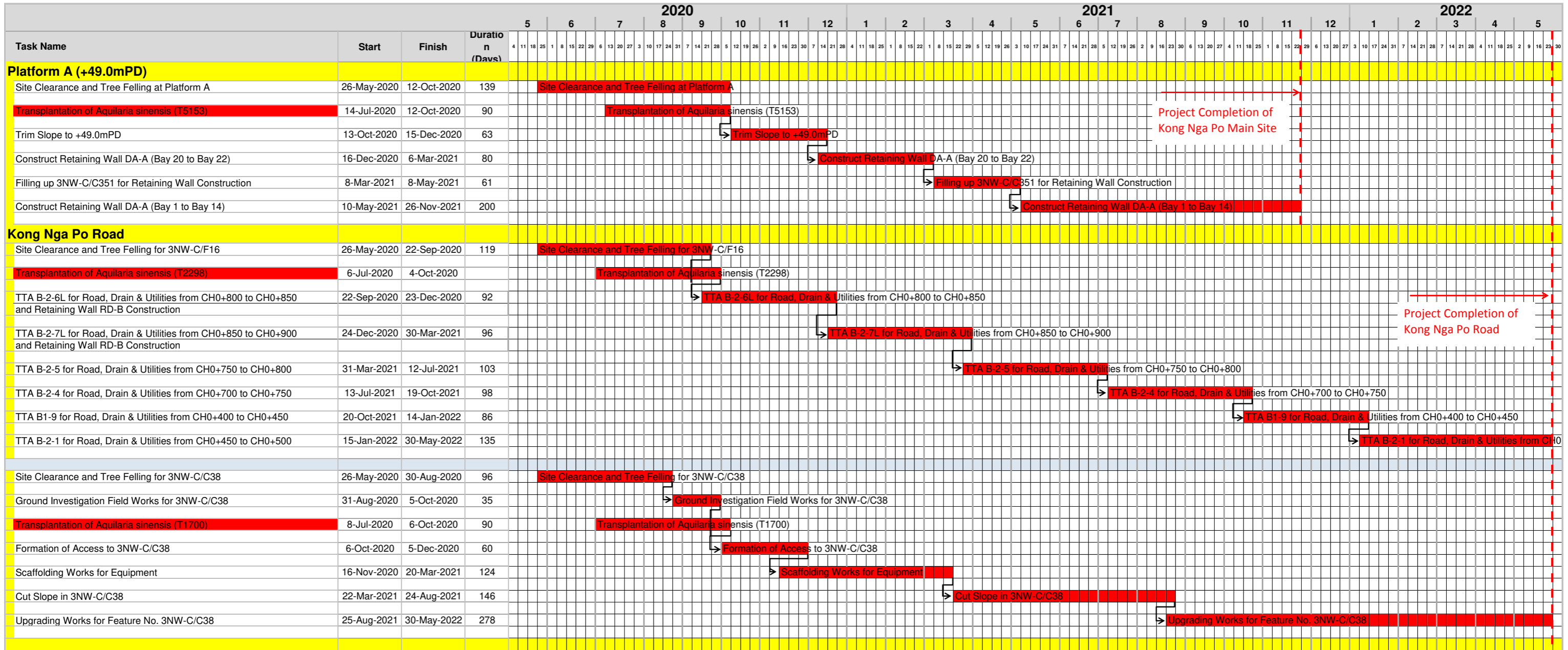
Contractor's Representative

Supervisor's Rep.

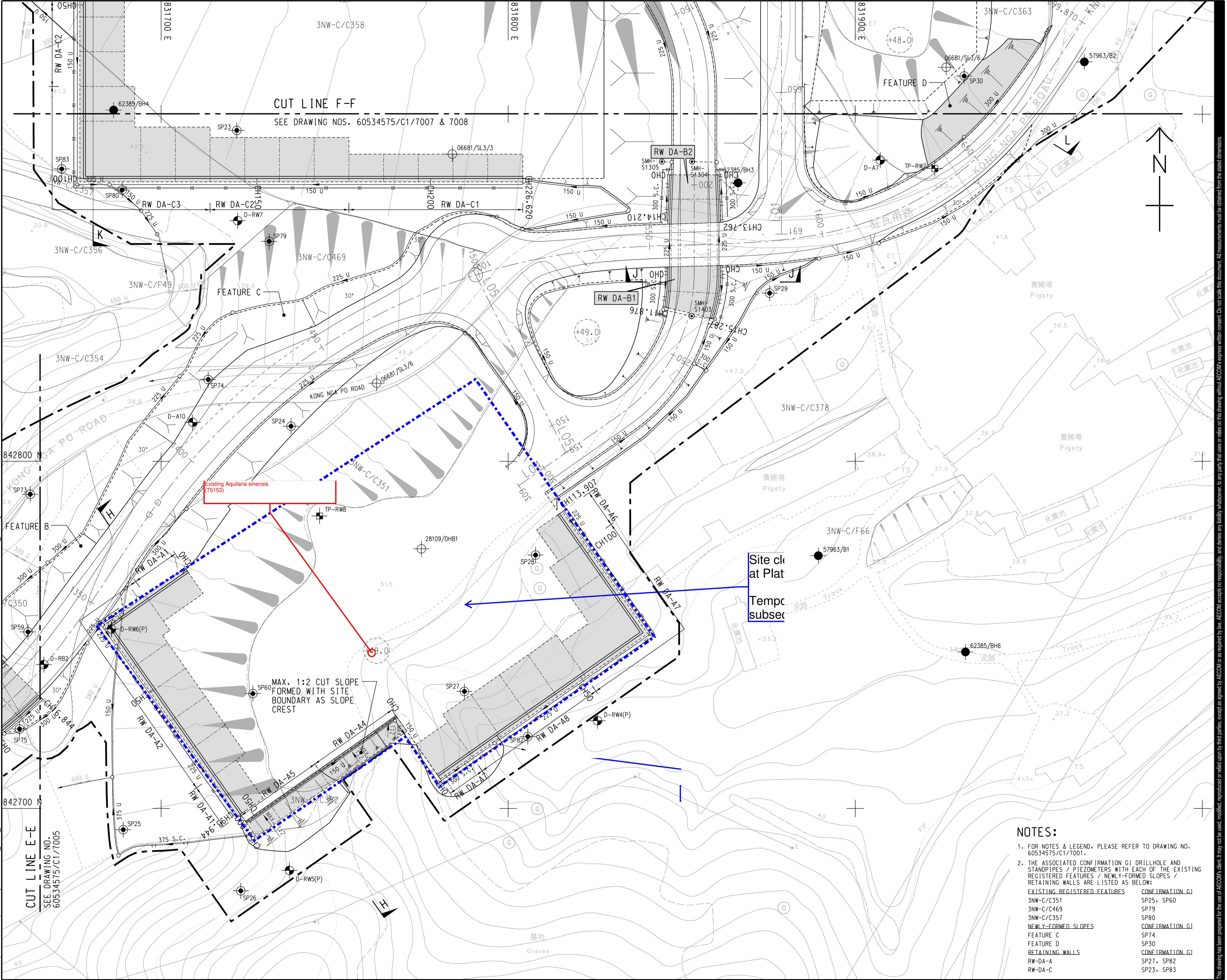
 (Name: _____)
 (Date: _____)

 (Name: _____)
 (Date: _____)

APPENDIX E
CONSTRUCTION PROGRAMME



Plot File by: Xiongying Peng@aecom.com 31-May-2019
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 Project Management Initials: Designer: TCC Checked: JCYC Approved: ROYK ISO A1 594mm x 841mm
 Project Management Initials: Designer: TCC Checked: JCYC Approved: ROYK ISO A1 594mm x 841mm



ISSUE/REVISION

REV	DATE	DESCRIPTION	CHK.
-	JUN. 19	TENDER DRAWING	JCYC
1/R	日期	內容摘要	核校

SCALE

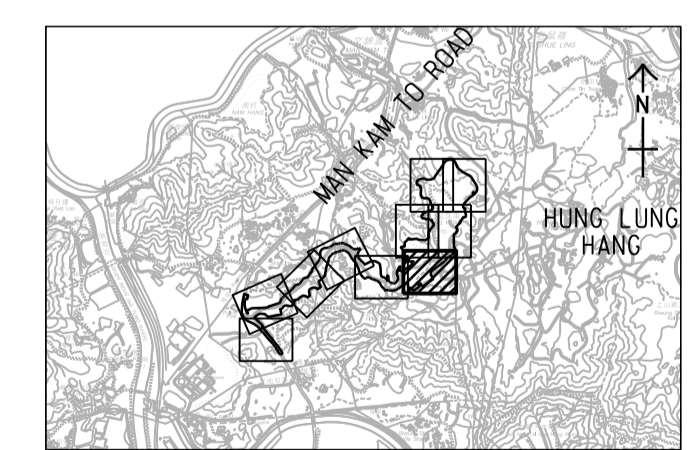
比例 1:500

DIMENSION UNIT

尺寸單位 METRES

KEY PLAN A1 1:100000

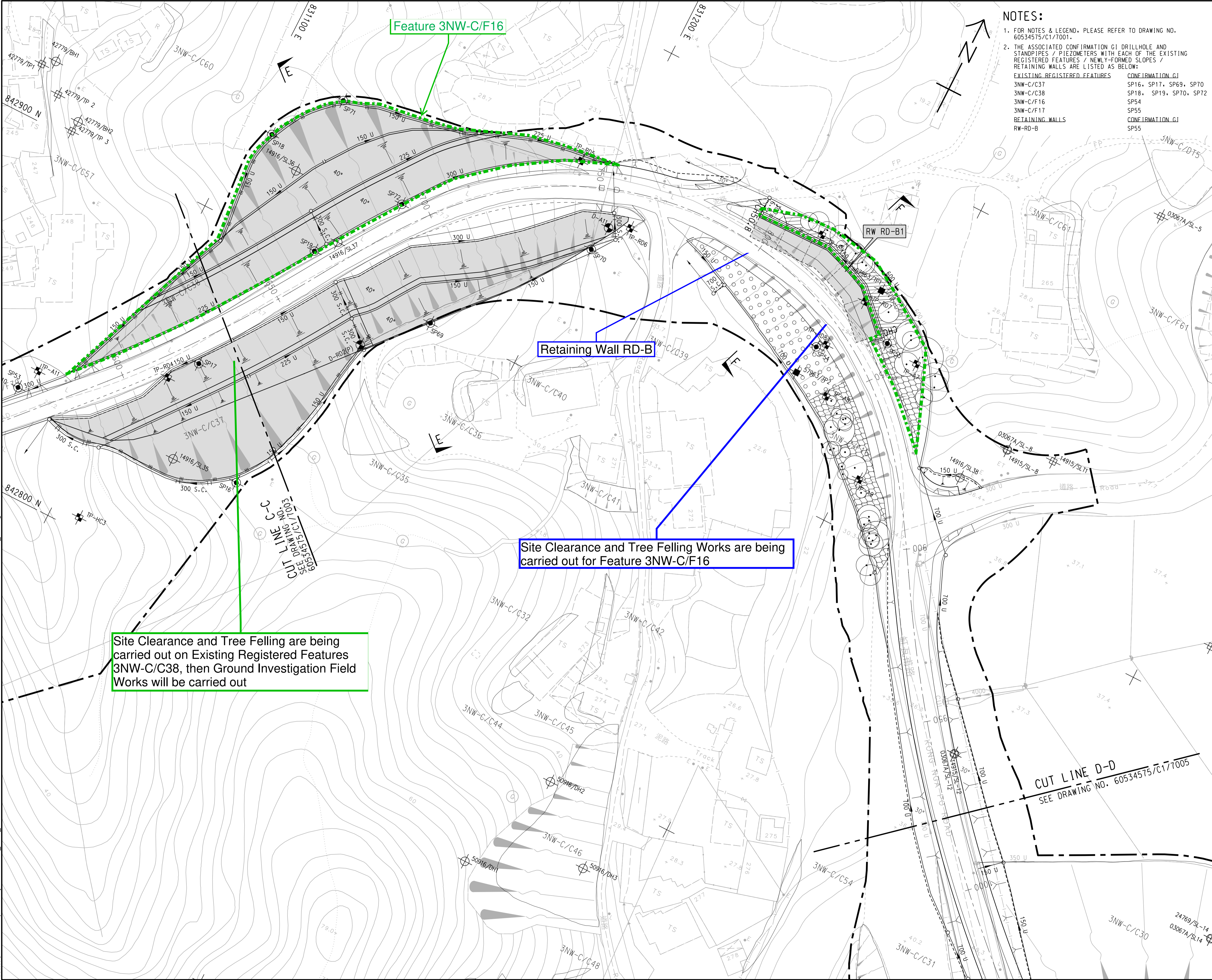
索引圖



- NOTES:**
- FOR NOTES & LEGEND, PLEASE REFER TO DRAWING NO. 60534575/C1/7001.
 - THE ASSOCIATED CONFIRMATION GI DRILLHOLE AND STANDPIPES / PIEZOMETERS WITH EACH OF THE EXISTING REGISTERED FEATURES / NEWLY-FORMED SLOPES / RETAINING WALLS ARE LISTED AS BELOW:
- | | |
|------------------------------|-----------------|
| EXISTING REGISTERED FEATURES | CONFIRMATION GI |
| 3NW-C/C351 | SP25, SP60 |
| 3NW-C/C469 | SP79 |
| 3NW-C/C357 | SP80 |
| NEWLY-FORMED SLOPES | CONFIRMATION GI |
| FEATURE C | SP74 |
| FEATURE D | SP30 |
| RETAINING WALLS | CONFIRMATION GI |
| RW-DA-A | SP27, SP82 |
| RW-DA-C | SP23, SP83 |

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 PATH: p:\aecom\as-pw\benley.com\AECOM_DSIS_AS\Documents\60534575\KNPPF-F&I\WORKS\CAD\PRODUCTION\DRAWING\CONTRACT\17000\C1_7004.dgn
 Project Management Initials: Designer: TCC Checked: JCYC
 Approved: ROKK
 ISO A1 594mm x 841mm



- NOTES:**
- FOR NOTES & LEGEND, PLEASE REFER TO DRAWING NO. 60534575/C1/7001.
 - THE ASSOCIATED CONFIRMATION GI DRILLHOLE AND STANDPIES / PIEZOMETERS WITH EACH OF THE EXISTING REGISTERED FEATURES / NEWLY-FORMED SLOPES / RETAINING WALLS ARE LISTED AS BELOW:
- | EXISTING REGISTERED FEATURES | CONFIRMATION GI |
|------------------------------|------------------------|
| 3NW-C/C37 | SP16, SP17, SP69, SP70 |
| 3NW-C/C38 | SP18, SP19, SP70, SP72 |
| 3NW-C/F16 | SP54 |
| 3NW-C/F17 | SP55 |
| RETAINING WALLS | CONFIRMATION GI |
| RW-RD-B | SP55 |

Site Clearance and Tree Felling are being carried out on Existing Registered Features 3NW-C/C38, then Ground Investigation Field Works will be carried out

Site Clearance and Tree Felling Works are being carried out for Feature 3NW-C/F16

Retaining Wall RD-B

CUT LINE D-D
SEE DRAWING NO. 60534575/C1/7005

AECOM

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

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

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

CONSULTANT
 工程顧問公司
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SUB-CONSULTANTS
 分判工程顧問公司

ISSUE/REVISION

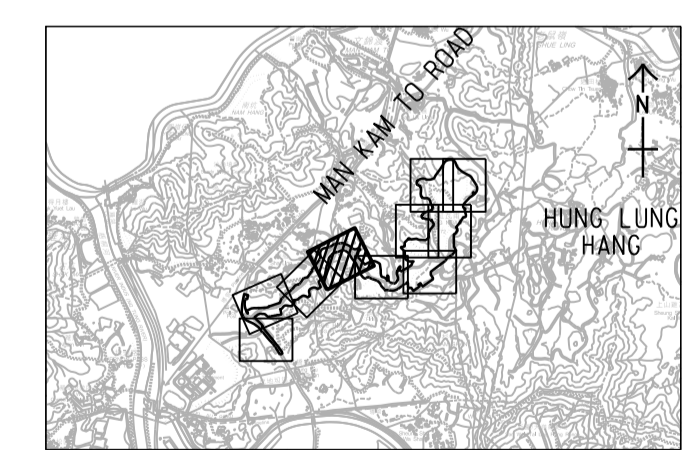
NO.	DATE	DESCRIPTION	CHK.
-	JUN. 19	TENDER DRAWING	JCYC
I/R	日期	內容摘要	核核

STATUS
 階段

SCALE
 比例
 A1 1:500

DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN A1 1:100000
 索引圖



PROJECT NO.
 項目編號
 60534575

CONTRACT NO.
 合約編號
 ND/2018/01

SHEET TITLE
 圖紙名稱
 GEOTECHNICAL WORKS LAYOUT PLAN

SHEET NUMBER
 圖紙編號
 60534575/C1/7004

SHEET 4 OF 10

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APPENDIX F
IMPLEMENTATION SCHEDULE

Transplantation Proposal - Implementation Schedule (IS)

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	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal
<p>Identification of Plant Species of Conservation Importance to be Retained / Transplanted</p> <p>To mark trees/plants proposed to be retained and to be transplanted on the layout plan prior to commencement of site construction works.</p>	<p>To identify the plant species of conservation importance and ensure no plant species of conservation importance / retained tree will be affected.</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Project Site Area(s)</p>	<p>During design stage / throughout construction stage / Until completion of all construction activities</p>	<p>Refers to para(s) 5.1 of the Transplantation Proposal</p>
<p>Protection of Plant Species of Conservation Importance prior to Site Clearance / Transplantation Works</p> <p>a) No site clearance shall be started at the locations of flora species of conservation interest until the transplantation works completed.</p> <p>b) Set up buffer zone to enhance the protection of flora species of</p>	<p>To make sure that the flora species of conservation interest are not affected by the site clearance works of the Project</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Location(s) of Plant Species of Conservation Importance and Transplantation Area(s) for Plant Species of Conservation Importance</p>	<p>Prior to Site Clearance / Transplantation Works</p>	<p>Refers to para(s) 2.11 and 2.12 of the Transplantation Proposal</p>

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Recommended Mitigation Measures	Objective of the Measures	Who to Implement / Maintain the Measures?	Location of the Measures	When to Implement the Measures?	Reference to paragraph(s) in this Transplantation Proposal
conservation importance to be preserved / transplanted including the proposed location for transplantation when the site clearance works shall commence before the transplantation works completed.					
<p>Temporary Protective Fence for Flora Species of Conservation Interest / Retained Tree</p> <p>a) To erect a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey.</p> <p>b) To set up a protection zone at least 1m from the plant / retained tree and erect robust, bright-coloured fencing of 1.5m in height.</p>	To avoid potential impact on flora species of conservation importance / retained tree from construction activities such as materials storage; To make sure that the flora species of conservation interest / retained tree are not affected by the construction activities of the Project	Contractor / Resident Site Engineer / ET / IEC	Location(s) of Plant Species of Conservation Importance / Retained Tree	Throughout construction stage / Until completion of all construction activities	Refers to para(s) 2.7, 4.41 and 5.1 of the Transplantation Proposal

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<p>Maintenance of the Protection Zone for Flora Species of Conservation Interest / Retained Tree</p> <p>a) Monthly monitoring of flora species of conservation interest identified in the detailed vegetation survey should be conducted.</p> <p>b) To inspect the temporary protective fence whether it is properly erected and maintained during construction.</p>	<p>To avoid potential impact on flora species of conservation importance / retained tree from construction activities such as materials storage; To make sure that the flora species of conservation interest / retained tree are not affected by the construction activities of the Project</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Location(s) of Plant Species of Conservation Importance / Retained Tree</p>	<p>Throughout construction stage / Until completion of all construction activities</p>	<p>Refers to para(s) 2.7, 4.41 and 5.1 of the Transplantation Proposal</p>
<p>Post-transplantation Monitoring</p> <p>a) Weekly post-transplantation monitoring of transplanted species in the first three months and monthly afterwards.</p>	<p>To allow early detection of the growth status of transplanted species, sign of construction activity within and nearby the receptor site, and any environmental change of the receptor site.</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Location(s) of transplanted species</p>	<p>The first year of establishment period after transplantation</p>	<p>Refers to para(s) 4.38 to 4.40 and 4.42 of the Transplantation Proposal</p>

Transplantation Proposal - Implementation Schedule (IS)

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<p>Maintenance of Transplanted Species</p> <p>a) To keep the soil moist by watering the receptor sites properly and adequately.</p> <p>b) To apply mulches on the soil surface over the plant root system, if required.</p> <p>c) To remove unwanted weeds found in receptor sites.</p>	<p>To allow health growth of the transplanted species.</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Location(s) of transplanted species</p>	<p>The first year of establishment period after transplantation</p>	<p>Refers to para(s) 4.43 to 4.46 of the Transplantation Proposal</p>
<p>Other Protection Measures for Flora Species of Conservation Interest / Retained Tree / Vegetated Areas</p> <p>a) All works should be confined within the site boundary.</p> <p>b) Access of site staff should be controlled.</p> <p>c) Care should be taken to prevent trees/plants being damaged by mechanical equipment or stockpile both during site clearance works and</p>	<p>To avoid potential impact on Flora Species of Conservation Interest / Retained Tree / Vegetated Areas from construction activities of the Project</p>	<p>Contractor / Resident Site Engineer / ET / IEC</p>	<p>Project Site Area(s)</p>	<p>Throughout construction stage / Until completion of all construction activities</p>	<p>Refers to para(s) 5.1 of the Transplantation Proposal</p>

Transplantation Proposal - Implementation Schedule (IS)

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<p>construction works.</p> <p>d) No fixings should be driven into trees/plants.</p> <p>e) No workshop, canteens, or similar should be installed beneath trees/plants, nor will equipment maintenance etc. be carried out under trees/plants.</p> <p>f) No excavation, including that for services or changes in ground level will take place within the spread of the crown of the trees / plants.</p> <p>g) No soil, debris or construction materials should be deposited around and against the trunk of a tree/plant as this causes bark damage and compaction of the soil.</p> <p>h) No fire should be lit below the branches and no petrol, oil or caustic substances</p>					

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<p>stored near the trees/plants.</p> <p>i) No trees/plants should be used for anchoring or winching purposes or for the display of signs.</p> <p>j) Any damage or injury to the retained / transplanted plants should be reported as soon as possible for repair immediately.</p>					