



Water and
Urban Development



土木工程拓展署
Civil Engineering and
Development Department

Contract No. CV/2016/08

Queen's Hill Development – Sewage Pumping Station

Landscape Plan (Rev. F)

May 2022



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1. INTRODUCTION

1.1. Project Title

1.1.1 Queen's Hill Sewage Pumping Station (hereinafter referred as to as "the Project")

1.2. Background

1.2.1 The Queen's Hill Sewage Pumping Station (QHSPS) is a designated project (DP) under F.3(b) of Part I, Schedule 2 of Environmental Impact Assessment Ordinance (EIAO). The Environmental Permit (No. EP-506/2016) for construction and operation of the designated project was granted by the DEP on 22 January 2016 with Project Profile Register No. PP-529/2015.

1.2.2 The Project is part of the proposed Infrastructural Works for Proposed Developments at Queen's Hill, Fanling. The purpose of the Project is to construct and operate a sewage pumping station at Lung Ma Road to cope with sewerage needs of the planned developments at Queen's Hill development site.

1.2.3 The landscape and visual impacts have been reviewed and were generally in line with those outlined in the Project Profile. An implementation schedule of landscape mitigation measures has been provided in Appendix VII.

1.2.4 The proposed QHSPS with an average dry weather flow (ADWF) up to approx. 11,000 m³/day will be constructed at the intersection of Lung Ma Road and Sha Tau Kok Road near Ma Liu Shui San Tsuen ("within the "Government, Institution or Community" zone on the draft Lung Yeuk Tau and Kwan Tei South Outline Zoning Plan No. S/NE-LYT/18".) in Queen's Hill as shown in Figure 1 of Appendix I, to convey sewage collected from the future developments at Queen's Hill to Shek Wu Hui Sewage Treatment Works through an approximately 5.2km long twin rising mains.

1.3. Scope of the Project

1.3.1 The proposed QHSPS will comprise two building structures. The main building at the southeast of the site includes inlet chamber, coarse screen house, wet well & pump house with pumps, valves & fittings, flow-meters, etc., while the control room and CLP's transformer room are accommodated at another building at the northwest of the site.

1.3.2 The proposed QHSPS will have a maximum height of approx. 11m which is similar to that of the nearby existing village houses. After full development of the area, a planned fire station (with an approx. 30m high practice tower) and a planned electricity sub-station (ESS) of approx. 15m high will be located at the north and south of the proposed QHSPS site respectively.

1.4. Purpose, Scope and Structure of the Report

1.4.1 This landscape Plan is prepared in fulfilment of Condition of 2.6 of Environmental Permit (EP) No. EP-506/2016.

1.4.2 All landscape and visual mitigation measures shall be properly implemented and maintained for the Project in accordance with the deposited landscape plan.

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

- Section 2 describes environmental legislations, standards and guidelines related to landscape design;
- Section 3 presents the landscape design details
- Section 4 presents the Tree Preservation Proposal and confirmation of feasibility of proposed planting;
- Section 5 presents the landscape and visual impacts and mitigation with implementation schedule and;
- Section 6 summarises the landscape plan and landscape works programme.

2. LEGISLATIONS, STANDARDS AND GUIDELINES RELATED TO LANDSCAPE DESIGN

2.1. Government Publications, Guidelines and Reports

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

- Agriculture, Fisheries and Conservation Department – AFCD Nature Conservation Practice Note No. 1 – Clearing Mikania.
- Agriculture, Fisheries and Conservation Department – AFCD Nature Conservation

- Practice Note No. 2 – Measurement of Diameter at Breast Height (DBH).
- Agriculture, Fisheries and Conservation Department – AFCD Nature Conservation Practice Note No. 3 – The Use of Plant Names.
 - Civil Engineering and Development (2006) – General Specifications for Civil Engineering Works, Sections 3 and 26.
 - Civil Engineering and Development (2014) – Project Administration Handbook, for Civil Engineering Works
 - Development Bureau – Latest Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis.
 - Development Bureau – Guideline on Greening of Noise Barriers
 - Development Bureau – Guiding Principles on Using of Native Plant Species in Public Work Project
 - Development Bureau – Guidelines on Tree Preservation during Development
 - GEO Publication (2000) – Highway Slope Manual, Chapters 6 and 8.
 - GEO Technical Guidance Note No. 20 – Updating of GEO Publication No. 1/2000.
 - Highways Department (2006) – Structures Design Manual for Highways and Railways, Third Edition, Chapter 17 – Aesthetics.
 - Highways Department Slope Vegetation Inventory.
 - HyD Standard Drawings, Sections 5 and 6.
 - HyD TC No. 10/2001 – Visibility of Directional Signs.
 - HyD TC No. 3/2008 – Independent Vetting of Tree Works under the Maintenance of Highways Department.
 - HyD HQ/GN/13 – Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit.
 - HyD HQ/GN/15 – Guidelines for Greening Works along Highways.
 - HyD Requirements for Handover of Vegetation to Highways Department.
 - Lands Department, Lands Administration Office Instructions (LAOI) Section D-12 – Tree Preservation.
 - LCSD General Standards and Maintenance Requirements for Roadside Landscape Works to be Handed Over to LCSD for Maintenance.
 - Transport Department – Transport Planning & Design Manual (TPDM).
 - Latest General Requirement of Roadside Landscape Areas to be Handed over to LCSD.
 - PlanD – Hong Kong Planning Standard and Guideline

2.2. Technical Circulars

2.2.1 Technical Circular related to Landscape Design include:

- DEVB TCW No. 2/2004 – Maintenance of Vegetation and Hard Landscape Features.
- DEVB TCW No. 10/2013 – Tree Preservation.
- DEVB TCW No. 7/2015 – Tree Preservation.
- ETWB TCW No. 13/2003A – Guidelines and Procedures for Environmental Impact Assessment of Government Projects and Proposals Planning for Provision of Noise Barriers.
- ETWB TCW No. 34/2003 – Community Involvement in Greening Works.
- ETWB TCW No. 11/2004 – Cyber Manual for Greening.
- ETWB TCW No. 29/2004 – Registration of Old and Valuable Trees, and Guidelines for their Preservation.
- ETWB TCW No. 36/2004 – The Advisory Committee on the Appearance of Bridges and Associated Structures (ACABAS).
- HyD TC No. 2/2000 – Provision of Covers, Ramps and Escalators to Grade Separated Pedestrian Facilities.
- DevB TCW No. 3/2012 - Site Coverage of Greenery for Government Building Projects.
- DevB TCW No. 2/2012 - Allocation of Space for Quality Greening on Roads.
- Guidelines on Tree Transplanting issued by GLTM Section of DevB.
- Proper Planting Practices and other relevant guidelines issued by GLTM Section of DevB.
- HyD RD/GN/44 – Guidance Notes on Design and Construction of Pavements with Paving Units.

2.3. Ordinances and Regulations

2.3.1 Ordinances and Regulations related to Landscape Design include:

- Forests and Countryside Ordinance (Cap. 96) and its subsidiary legislations.
- Plant Varieties Protection Ordinance (Cap. 490).
- Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586).

3. LANDSCAPE DESIGN DETAILS

3.1. Landscape Design Objectives

3.1.1 Landscaping and Greening Design Objectives for Infrastructural Works for the Proposed Development at Queen's Hill, Fanling include the following:

- To provide measures to mitigate the potential landscape and visual impact of the project during the construction and operation phase of the project;
- To beautify the proposed infrastructural works and integrate the proposed works with the adjacent hard and soft landscape settings within the project boundary; and
- To minimize the impact on existing trees and provide tree transplanting and compensatory planting proposals in accordance with DEVB TC(W) No. 10/2013.

3.2. Design Guidelines for Hard and Soft landscape Works

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

- Durable – utilizing long lasting or permanent materials and finishes.
- Low maintenance – easy to clean and repair.
- Reasonable Cost – reasonable cost range providing the greatest value for expense.
- Visual compatibility with existing developments and blend with existing development.
- Recyclable and Environmental Friendly Materials – utilizing recyclable and environmental friendly materials where possible.

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

- Adaptive – able to relatively quickly provide the desired landscape design intent as appropriate to the area.
- Wind tolerance – able to withstand windy conditions at exposed areas.
- Seasonal interest – providing seasonal variety or seasonal flowers, fruit or foliage colour.
- Low maintenance and self-sustainability – easy to grow without special treatments or maintenance operations.
- Non-toxic – relatively safe and non-poisonous materials and/or biodegradable.
- Poisonous plants should not be planted at areas accessible to public.

3.3. Landscape Design Details

- 3.3.1 The proposed pumping station is designed in accordance with the general requirements of a typical pumping station with reference to the "Guidelines on Aesthetic Design of Pumping Station Buildings" issued by Drainage Services Department.
- 3.3.2 As the proposed QHSPS is sandwiched between the planned fire station and planned ESS, the general concept of the design is to create a simple building form and alter the 'bulky' perception of the Sewage Pumping Station (SPS), as well as the fence wall, by emphasizing a sense of 'Porosity', which works together with the buildings in the aforementioned two sites. Such concept is achieved by providing an additional porous 'timber-like' screen facade layer at the long elevations of the SPS and at the site boundary. Porosity of the screen facade enhances the shadow effect and also allows greeneries clinging in between.
- 3.3.3 The proposed QHSPS consists of three main components: two one-storey building structures at different heights, a boundary wall and green vegetation. The two building structures house all mechanical equipments and shelters the sewage tanks, while the boundary fence wall provides a transparent but secure function. The green vegetation supports this idea of 'porosity', by infiltrating greeneries at different levels: on ground, on the elevation and on the roof to form a green jacket.
- 3.3.4 This concept is in line with the green concern from the public and also matches the rural setting of the context. The infiltration of greeneries along the building form and its countryside background will create a harmonious composition. Another meaning is that the SPS is actually the essential infrastructure to sustain such a beautiful habitat in the countryside.
- 3.3.5 The design concept of the proposed QHSPS is achieved by the combination of recycled wood composite screen system with climbing plant, exterior texture paint, timber texture fair-faced concrete wall, and vertical fencing with recycled wood composite panel, roof planter at the top of the SPS and pot planter at the roof of transformer room.
- 3.3.6 The main elevations of the main SPS building are approximately 47m long each, which might induce an adverse visual impact to its surroundings. Such long and solid wall

effect is further dissolved by adopting the porous screen wall of timber to blend in with the rural setting. However, real timber is not feasible due to its durability. Therefore, the aluminium with recycled wood composite coating panel system will be the most suitable solution. Such screen will support the growth of the climbing plant located at roof parapet and on ground level. The boundary wall, at the interface of the planned fire station, planned ESS and public area, is designed with vertical recycled wood composite strip.

- 3.3.7 As the outer wall of the transformer room and control room forms part of the fence wall, the design of such wall attempts to echo with the natural setting by expressing the timber effect in an abstract way - the in-situ timber texture fair-faced concrete.
- 3.3.8 The design intent of the hardscape is to use clean pattern and paving material to make contrast to the complex planting pattern. In terms of the paving material we propose concrete paver with recycled materials to incorporate the sustainable and environmental-friendly design idea.
- 3.3.9 Automatic irrigation system should be applied to the landscape area in the ground level and the rooftop level. Water shall be applied using an approved sprinkler at planter areas at ground floor and roof; and approved dripline irrigation system at planter along edge of roof so as not to cause compaction or washouts of soil, loosening of plant root balls, and nuisance to public. Any excessive irrigation water shall be drained away via the drainage system. Sufficient water at least 10L/1sqm/ day supply for all planting material daily to keep the soil in the root barriers moist.
- 3.3.10 The details for the compensatory planting are provided in Section 4.3. The details of the major hard landscape, soft landscape features and implementation schedule for landscape and visual mitigation measures are provided in Appendix V, VI and VII respectively.

4. PROPOSED PLANTING WORKS

4.1. Tree Survey and Treatment Recommendations

- 4.1.1 A total of 14 trees were surveyed within the SPS Project Boundary. In comparison with

the broad-brush tree survey from the PP, 3 additional trees were identified during the detailed survey. The species were found to be in line with the broad-brush tree survey from the PP, with the exception of *Lagerstroemia speciosa*, which has been revealed to be located outside of the project boundary.

- 4.1.2 The tree survey has been carried out and the Tree Preservation and Removal Proposal (TPRP) has been submitted on 13 January 2016 with reference made to the guidelines issued by GLTM Section of DevB. Approval on felling 10 nos. of trees and transplantation of 2 nos. of trees in the TPRP have been obtained from Lands Department on 24 June 2016 and the 12 nos. of trees have been felled on 1 March 2017. In this approved TPRP, approval was also obtained for planting 17 nos. of trees within the SPS (denoted as 'C1-C17' in the drawing no. 60340456/TRA/CPP/115 in LandsD's memo ref. (22) in L/M(2) to DLON 3/65/14 , which is shown in Appendix III of this Plan) as the compensatory planting proposal.
- 4.1.3 Before the construction of the SPS, two additional trees were identified within the site area of SPS. 2nd TPRP was submitted to LandsD for removal of these two trees on 27 April 2017. Approval on felling the two nos. of trees was obtained from LandsD on 13 September 2017 and the two trees were felled on 21 September 2017. In this approved 2nd TPRP, approval was also obtained for planting 2 nos. of trees outside the SPS (denoted as 'C20-C21' in the drawing no. 60340456/C1/SK005 in LandsD's memo ref. (28) in L/M(2) to DLON 3/65/14, which is shown in Appendix III of this Plan) as the compensatory planting proposal.
- 4.1.4 During the construction of the SPS, T0655 and T0789 were removed on 25 October 2017 and 25 May 2019 respectively with reference to DEVB TC (W) No. 7/2015 to mitigate the imminent risk of hazardous tree failure posed to the public and works site. The corresponding tree felling and compensatory planting proposal has been submitted on 20 July 2020 and subsequently approved on 6 November 2020. Under this tree felling and compensatory planting proposal, approval was obtained for planting 2 nos. of trees within the SPS (denoted as 'C18-C19' in the drawing no. 60340456/C2/SK119 in LandsD's memo ref. (41) in L/M(2) to DLON 3/65/14 Pt.2, which is shown in Appendix III of this Plan) as the compensatory planting proposal.
- 4.1.5 On the whole, 14 Nos. trees have been felled within the SPS Project Boundary and no

tree has been transplanted. The list of felled trees has been summarised in table 4.1 and the full tree assessment schedule is detailed in Appendix II.

Tree ID No.	Botanical Name	Tree measurement (m)			Condition		Recommendation
		Height	DBH	Crown Spread	(Good / Fair / Poor)	Remarks	
T0664	(Dead tree) 枯死樹木	6	0.2	4	-	-	Fell
T0665	<i>Bombax ceiba</i> 木棉	13	0.9	15	Poor	a, d, f, i	Fell*
T0771	<i>Macaranga tanarius</i> 血桐	5	0.1	4	Poor	a, c, f	Fell
T0772	<i>Macaranga tanarius</i> 血桐	4.5	0.1	4	Poor	a, c, f	Fell
T0773	<i>Macaranga tanarius</i> 血桐	5	0.1	4	Poor	a, c, f	Fell
T0774	<i>Bridelia tomentosa</i> 土蜜樹	7	0.2	6	Poor	a, b, c, f	Fell
T0775	<i>Bridelia tomentosa</i> 土蜜樹	7	0.2	6	Poor	a, c, f	Fell
T0776	<i>Acacia confuse</i> 台灣相思	13	0.4	4	Poor	a, c, f	Fell
T0789	<i>Bombax ceiba</i> 木棉	14	0.6	7	Fair	a, d, f, i	Fell*

Tree ID No.	Botanical Name	Tree measurement (m)			Condition		Recommendation
		Height	DBH	Crown Spread	(Good / Fair / Poor)	Remarks	
T0790	<i>Bombax ceiba</i> 木棉	14	0.5	6.5	Poor	a, b, c, f	Fell
T0791	<i>Acacia confuse</i> 台灣相思	8	0.5	8	Poor	a, c, f	Fell
T0792	<i>Acacia confuse</i> 台灣相思	13	0.5	8	Poor	a,b, c, f	Fell
TA02	<i>Leucaena leucocephala</i> 銀合歡	8	0.2	7	Fair	a, g	Fell
TA03	<i>Dimocarpus longan</i> 龍眼	9.5	0.3	7	Fair	a, f, i	Fell

Table 4.1 – Tree Assessment Schedule

Remarks for Suitability for Transplanting

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

* Tree removed with reference to DEVB TC (W) No. 7/2015 to mitigate the imminent risk of hazardous tree failure posed to the public and works site.

4.1.6 NO OVTs are identified within the SPS Project boundary.

4.2. Summary of Tree Preservation Proposal

4.2.1 Table 4.2 summarises the tree treatment plan for the SPS. 14 Nos. of trees have been felled within the site of SPS. A total of 21 Nos. compensatory trees has been planted on site (a total of 19 nos. of tree to be planted within SPS whereas two trees to be planted outside the SPS in view of limited space.) and no trees will be transplanted. The compensatory planting proposal is detailed in Section 4.3.

	Felled	Compensatory Planting within the site	Compensatory Planting outside the site
No. of trees	14	19	2
Total No. of trees	14	21	
Ratio of no. of felled trees to no. of on-site compensation trees	1:1.5		

Table 4.2 – Summary of Tree Treatment

4.3. Compensatory Planting Proposal

4.3.1 The compensatory planting proposal has been prepared with reference to DEVB TC (W) No. 10/2013. An exploration to incorporate native broadleave trees i.e. *Elaeocarpus sylvestris* mixed with palm trees i.e. *Archontophoenix alexandrae* and *Chrysalidocarpus lutescens* has been considered feasible in order to minimize the possible visual impact of the project.

- 4.3.2 Upon completion of the civil works, it was revealed that sufficient space could not be provided for healthy growth of heavy standard sized trees as proposed in the PP. In order to cater for the establishment and healthy growth of the trees up to maturity, an alternative planting plan of standard trees has been proposed by the specialist landscape contractor. The alternative planting plan is shown in Figure 3 of the Appendix III in this Plan. In the alternative planting plan, 14 nos. of tree were felled and 21 nos. of standard trees would be compensated (a total of 19 nos. of tree to be planted within SPS whereas two trees to be planted outside the SPS) which fulfils the minimum ratio of 1:1 for the no. of felled trees to no. of compensatory trees in accordance with DEVB TC(W) No. 10/2013. Approval of the alternative planting plan was obtained from the Landscape Unit of DSD and those trees have been handed over satisfactorily to DSD/ST1 for their maintenance in Jan 2022.
- 4.3.3 The proposal for compensatory planting of 21 nos. of standard trees includes species of *Chrysalidocarpus lutescens* (散尾葵), *Archontophoenix alexandrae* (假檳榔), *Elaeocarpus sylvestris* (山杜英), *Ilex rotunda* (鐵冬青), *Bombax ceiba* (木棉), and *Livistona chinensis* (蒲葵).
- 4.3.4 Complying with DEVB TCW No. 6/2015, the maintenance department for the proposed compensatory plantings for an Allocated Government Land is the Allocatee Department i.e. DSD/ST1.
- 4.3.5 The compensatory planting proposal of the SPS is presented in Table 4.3 and Figure 3 of Appendix III.

Botanical Name	Chinese Name	Spacing (mm)	Size	Quantity
<i>Chrysalidocarpus lutescens</i>	散尾葵	3000	Standard	9
<i>Elaeocarpus sylvestris</i>	山杜英	5000	Standard	4
<i>Archontophoenix alexandrae</i>	假檳榔	3000	Standard	2
<i>Ilex rotunda</i>	鐵冬青	5000	Standard	3
<i>Bombax ceiba</i>	木棉	5000	Standard	1

Botanical Name	Chinese Name	Spacing (mm)	Size	Quantity
Livistona chinensis*	蒲葵	3000	Standard	2
Total :				21

Table 4.3 – Summary of Compensatory Planting Proposal at SPS

Remark * refer to the compensatory trees to be planted outside the SPS.

4.3.6 The soft landscape works, i.e. shrubs planting, has been carried out with reference to the submission for the SPS which has been vetted by Vetting Committee on Aesthetic Design of Pumping Station Buildings (VCAB) in accordance with DSD's Technical Circular No. 3/2015 during design stage. The scope of VCAB to vet all above ground drainage services buildings and the associated landscape areas with incorporation of the requirements of Integrated Landscape Design Framework (ILDF) introduced by DEVB in March 2014. VCAB scrutinized the design proposals for Queen's Hill Sewage Pumping Station (QHSPS) from the aesthetic, visual and greening points of views and recommend design changes in order to minimize the visual impacts and enhance the appearance or greening of QHSPS. The proposed soft landscape works also fulfil the planting requirements stipulated in the Checklist for VCAB submission. The details of shrubs planting are provided in Appendix VI. Landscape Unit of Drainage Services Department had no adverse comment on the VCAB submission together with the landscape design drawing, which is comprised of (i) the landscape design drawings, (ii) landscape proposal, and (iii) irrigation proposal, demonstrating the feasibility for the proposed planting in terms of spacing, size, location, quantity and species in planting sections with dimensions. The reply from Landscape Unit of Drainage Services Department on 24 August 2016 is at Appendix IX.

5 LANDSCAPE AND VISUAL IMPACTS AND MITIGATION MEASURES

5.1 Landscape and Visual (L&V) Impacts during Construction Phase

5.1.1 The location of the proposed Sewage Pumping Station (SPS) is near Ma Liu Shui San Tsuen at QH, which is currently occupied by a few scattered village houses. Based on the latest project tree survey, 14 nos. of existing trees are within the project boundary

and would be affected. None of them are Registered Old and Valuable Tree (OVT) or potential OVT. They are generally with medium to low amenity value, poor to fair health, and in poor to fair form. Species found include *Acacia confusa*, *Bombax ceiba*, *Bridelia tomentosa* and *Macaranga tanarius*. All existing trees within the project boundary will be unavoidably removed during construction phase.

- 5.1.2 The proposed SPS is within a Rural Inland Plain Landscape Character Area (LCA), which is characterized by flat lowland landscapes with scattered groups of tree, abandoned fields, village housing, workshop and storage yards. The scale of construction works for the proposed SPS is small and localized. It is considered that the magnitude of impact on the LCA would be insignificant during construction.
- 5.1.3 The visual impact from the construction of the SPS with the maximum building height of 11m on the adjacent Visual Sensitive Receivers (VSRs) in the adjacent village houses in Ma Liu Shui San Tsuen has been reviewed at commencement of construction. All of these village houses are identified to be two to three-storey low-rise buildings. In between the SPS and the VSRs, the CLP's electric sub-station with the maximum building height of about 15m had been constructed before the completion of the SPS construction.
- 5.1.4 The two-storey village houses at Ma Liu Shui San Tsuen located at the south of the SPS, of which the building height is about 7m and the closest distance between the two-storey village houses and the SPS is about 60m, as shown in Figure 1 in Appendix I of the Plan. The line of sight from these two-storey village houses is obstructed by the following existing features during the construction of SPS :-
- (i) the existing hoardings with the height of 2.5m surrounding the site for the construction of the CLP's electric substation, which is coloured purple as shown in the Figure 1 in Appendix I of the Plan. During the construction of SPS, the advanced completion of CLP's electric substation with the building height of 15m surrounded by the boundary wall of 3m high would also significantly block the sight line from the VSRs at Ma Liu Shiu San Tsuen; and
 - (ii) the existing boundary walls/hoarding of about 2.5m alongside Hai Wing Road, which is coloured brown as shown in the Figure 1 in Appendix I of the Plan; and
 - (iii) the temporary structures of about 3-4m high located within the storage yards

and workshop adjacent to the CLP's electric substation, which is coloured yellow as shown in the Figure 1 in Appendix I of the Plan.

Other remote 2-storey village houses situating along Hai Wing Road to the south or south-east of the SPS and at Ma Liu Shiu San Tsuen are more far away from the SPS. It is considered that the existing boundary wall and hoardings of about 2.5m high along Hai Wing Road effectively block the sight line to the SPS from these village houses.

- 5.1.5 For the VSRs of three-storey village houses with the building height of about 10m, the closest distance is about 90m away from the SPS, as shown in Figure 1 in Appendix I of the Plan. The line of sight from the closest three-storey village house is considered to be far away from the SPS and the magnitude of the impact is considered to be insignificant as the line of sight of the closest three-storey village house is mostly obstructed by the existing features (i) and (ii) as mentioned in S 5.1.4 of this Plan. In addition, the Contractor has erected safety nets in green colour to cover the exterior concrete surface during the construction of SPS building until its height reaches about 11m above ground in order to minimize the visual impact from the VSRs.

5.2 Landscape and Visual (L&V) Impacts during Operation Phase

- 5.2.1 The potential landscape impact due to permanently loss of 14 nos. of existing trees in the construction phase would remain the same in the operation phase.
- 5.2.2 There will be permanent localized change of the landscape character due to the operation of the proposed SPS. The scale and the building massing of the proposed SPS are compatible with the adjacent rural landscape setting. It is considered that the magnitude of impact on the LCA would be insignificant during operation.
- 5.2.3 The maximum height of the proposed SPS is ~11m which is of similar building height level with the existing adjacent village houses in Ma Liu Shui San Tsuen and the planned developments including the fire station to the north with ~16m high office building and 30m high practice tower, the ESS to the south with building height of 15m, and the public toilet to the west with a building height of 5m. Upon full development of the area, it is anticipated that the proposed SPS would not cause significant visual impact on adjacent VSRs during the operation phase.

5.3 Landscape and Visual (L&V) Mitigation Measures

5.3.1 Based on the potential landscape and visual impact identified in Section 5.1 and 5.2, the following mitigation measures for the construction phase (CM) and operation phase (OM) will be implemented to minimize the potential adverse impact:

- CM1 - Trees to be unavoidably affected shall be considered for transplanting where possible making reference to the latest Guidelines on Tree Transplanting issued by GLTM Section of DevB.
- CM2 - Compensatory planting shall be provided in accordance with DEVB TC(W) No. 10/2013 - Tree Preservation.
- CM3 – Night-time lighting glare shall be properly managed and controlled during construction so as to minimize any adverse visual impact on adjacent VSRs. Lighting equipment would be carefully positioned to avoid the directions towards residents. Quantity of the site lightings at night would be minimized with optimized luminosity.
- CM4 – As the construction site of SPS is closely bounded by adjacent private lots and such site constraints rendered the construction for the foundation of hoarding infeasible due to the inadequate working space. In order to avoid the construction works to be intruded into the adjacent private lots, water-filled barriers of 1.7m high in red colour with white panels on top were erected surrounding the construction site of SPS with the following considerations having the similar effectiveness as hoarding erection.
 - The erection of coloured water-filled barrier can delineate the extent of construction site clearly.
 - The water-filled barrier is more flexible to be moved to the designated location, especially at the locations of the site entrance/exit which could be frequently relocated to suit the site condition.
 - The water-filled barrier could be linked without gap even at the entrance/exit which provides linear coloured barriers surrounding the SPS during the construction period.
 - The hoarding usually made of steel panel would be founded with concrete footing and it would be susceptible to rusting over a period. It cannot be easily replaced and the deteriorated steel panels would be disposed of as metal scraps to landfill site. However, the water-filled barrier can be easily maintained in good condition that any defective water-filled barrier could be more easily replaced by a new one. The damaged water-filled barrier can be recovered for recycling.
 - The colour of the water-filled barrier would effectively prevent the sight from the construction site being intruded to the nearby VSRs as it would be dominant in the field of view from VSRs.

- CM5 – In order to minimize visual impact to nearby VSRs, the contractor has implemented the following management of facilities on work site and disposition/arrangement of all facilities on the works site to mitigate the visual impact during the construction period :-
 - The contractor frequently maintains the site in a neat and tidy state during construction to minimize visual impacts.
 - The contractor delineates clearly the zones for material stockpiling, material lifting operation and waste management during the construction period.
 - The height of the stockpiling material is restricted to be lower than the height of water-filled barrier. In addition, the contractor would cover the soil stockpile and construction material with tarpaulin sheet within the site area.
 - Green nets are provided to cover the erected temporary working platform surrounding the external wall of SPS during construction of superstructure which prevents the construction works from intruding into the VSRs and minimize the visual impact of the construction works to the surrounding.
 - The plant operators are requested to lower the arm of excavator as far as practicable after use to avoid any significant visual intrusion from the VSRs.
 - Frequent liaison with nearby villagers from VSRs is made to ensure they have no complaint in relation to the visual impact from the construction works was received during the construction stage.
- OM1 - Aesthetically pleasing design as regard to the form, material and finishes shall be incorporated to the proposed SPS so as to blend in the structures to the adjacent landscape and visual context.
- OM2 - Green roof shall be proposed to the pumping station to minimize any potential adverse visual impact on adjacent VSRs.
- OM3 - Vertical greening is proposed to key facade to soften the above ground structure.
- OM4 – Palm tree planting to soften the development edge

The landscape and visual mitigation measures as outlined in Section 5.3.1 shall be implemented for the construction and commissioning of the proposed SPS. The implementation schedule for landscape and visual mitigation measures has been provided in Appendix VII.

5.4 Implementation Schedule of Landscape Mitigation Measures and Management and Maintenance Authorities

5.4.1 The relevant party responsible for implementing the relevant measures under the approved Management and Maintenance Schedule is provided in Appendix IV.

5.4.2 The landscape and visual impacts identified in Section 5.1 and 5.2 for construction and operation phase of the SPS were generally in line with those outlined in the Project Profile. The relevant party responsible for implementing the relevant measures has been detailed in Appendix VII with reference made to the Landscape and Visual Mitigation Measures Plan of Appendix VIII from the Project Profile.

6 SUMMARY AND WAYFOWARD

6.1 Conclusions

6.1.1 This landscape Plan is prepared in fulfilment of Condition of 2.6 of Environmental Permit (EP) No. EP-506/2016.

6.1.2 This Landscape Plan presents the overall landscape design intention of the Project to blend in with existing and future planning and landscape framework of the area with reference made to the planting species proposed in the North District Greening Master Plan.

6.1.3 14 nos. of trees were surveyed within the project boundary. Due to the proposed infrastructure works for the Project, 14 nos. of trees have been felled. To compensate the trees felled, 19 nos. of standard trees will be planted within the works boundary of the proposed sewage pumping station and 2 nos. of standard trees will be planted outside the proposed sewage pumping station.

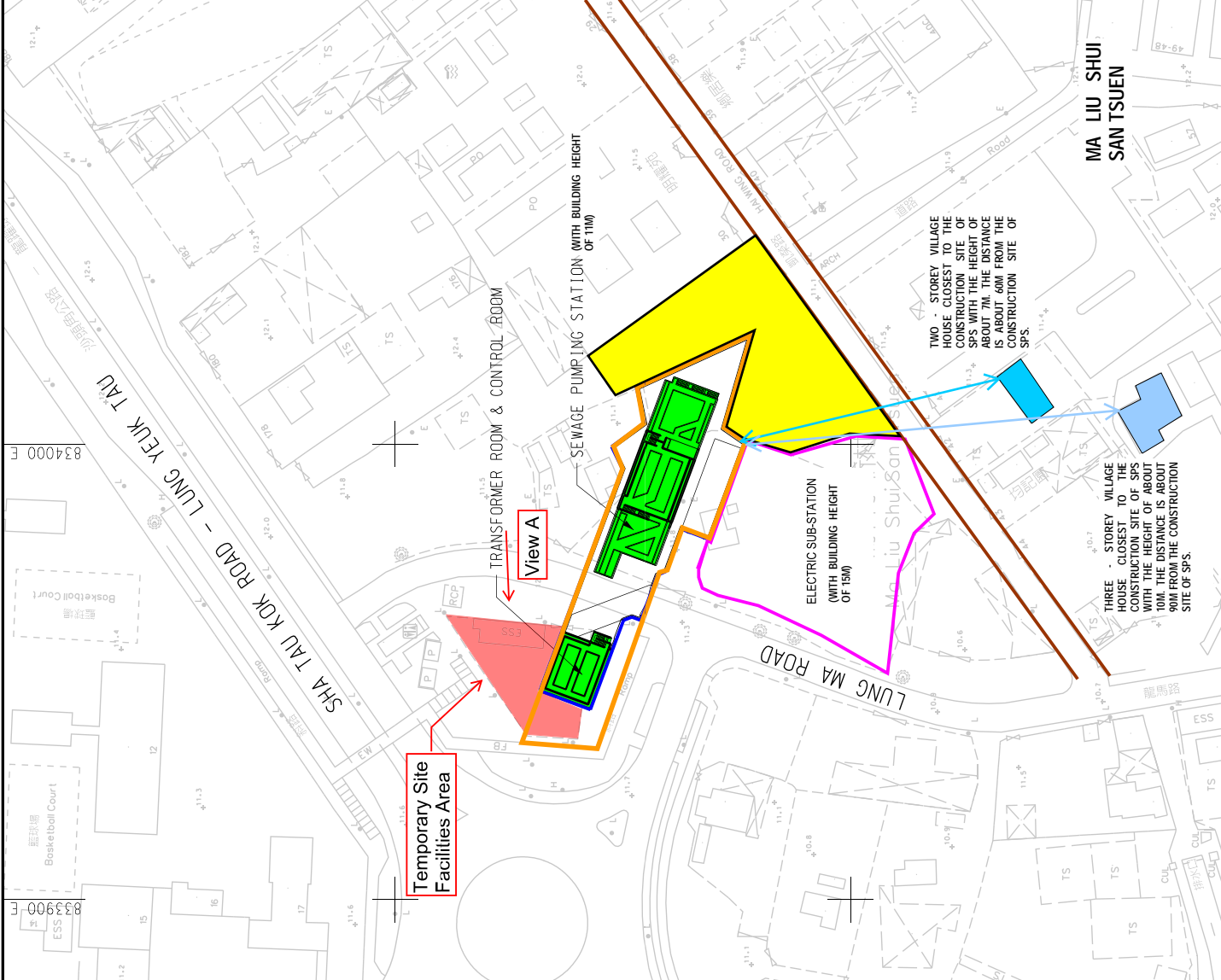
6.1.4 All landscape and visual mitigation measures as proposed in Appendix VII shall be properly implemented and maintained for the Project during construction and operation phase.

6.2 Landscape Works Programme

- 6.2.1 The landscaping works has commenced on 31 August 2020 and is anticipated to be completed by 26 November 2020. Upon completion, the vegetation and landscaping features shall be maintained by the Contractor, China Geo-Engineering Corporation, for a period of 365 days after which the features will be managed and maintained by DSD/ST1 and DSD/HK&I (BCM) respectively.

Appendix I

Location of Queen's Hill Sewage Pumping Station



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. ALL LEVELS SHOWN ARE IN METRES AND REFER TO THE PRINCIPAL DATUM.

LEGEND:

- WATER-FILLED BARRIERS OF 1.7M HIGH IN RED COLOUR WITH WHITE PANEL ON TOP ERECTED SURROUNDING THE CONSTRUCTION SITE OF SPS
- PROPOSED ABOVEGROUND STRUCTURES OF SEWAGE PUMPING STATION (SPS) WITH THE HEIGHT OF ABOUT 11M ABOVE GROUND LEVEL
- BOUNDARY OF EXISTING CLIP'S ELECTRIC SUB-STATION WITH THE HOARDING OF 2.5M HIGH ERECTED DURING CONSTRUCTION STAGE AND AS-CONSTRUCTED BOUNDARY WALL OF 3.0M HIGH AFTER CONSTRUCTION STAGE
- EXISTING STORAGE YARD AND WORKSHOPS WITH STAKED CONTAINERS AND EXISTING GROUP OF TREES
- EXISTING BOUNDARY WALL/ HOARDING OF ABOUT 2.5M HIGH ALONG HAI WING ROAD


Figure 1

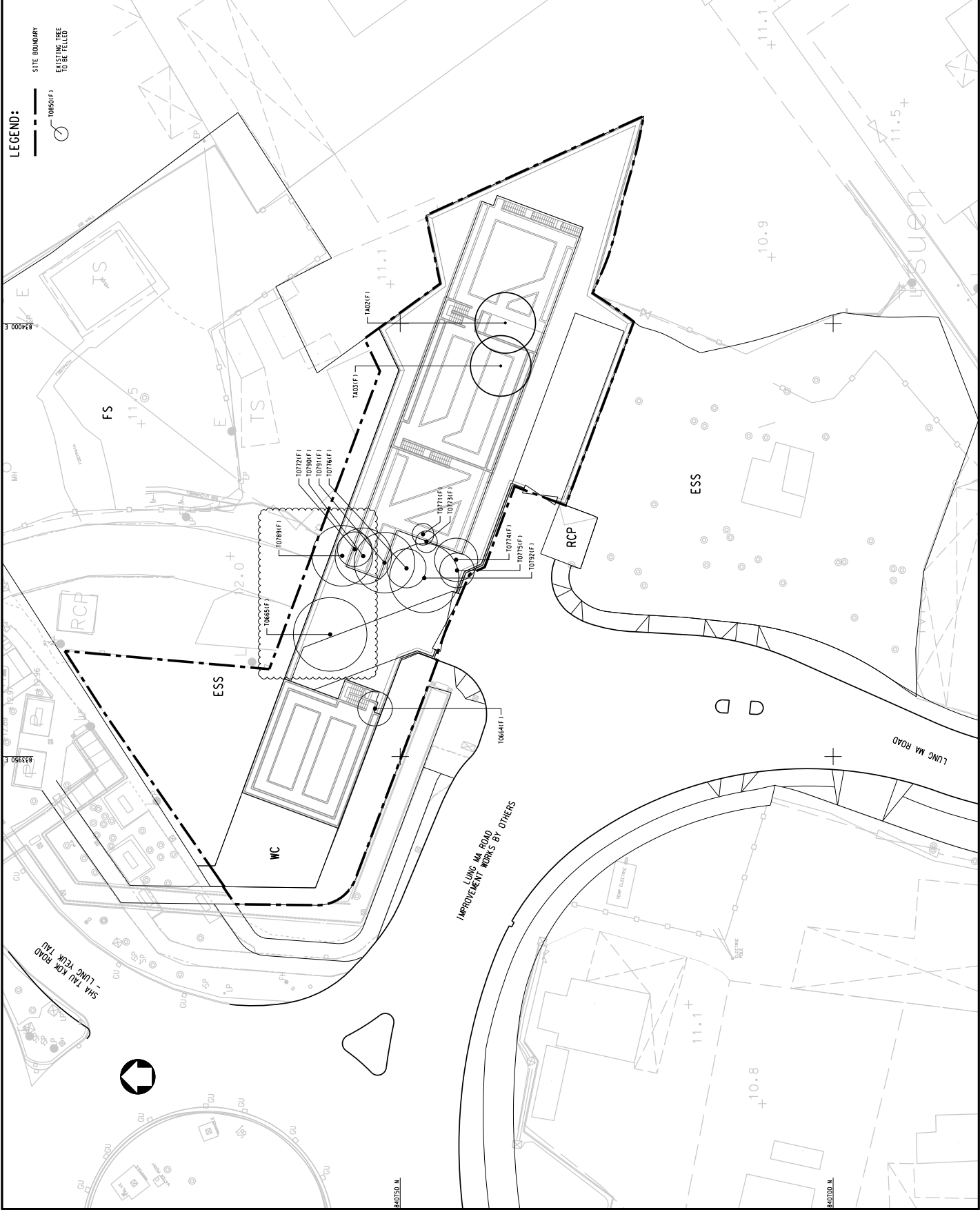
<p>CEDD Civil Engineering and Development Department</p> <p>17/8/2020 9:52:19 s10 MODEL: Devel</p>	<p>AECOM</p>	<p>PROJECT: QUEEN'S HILL DEVELOPMENT - SEWAGE PUMPING STATION WORKS</p>	<p>CONTRACT NO.: CV/2016/08</p>	<p>TITLE: GENERAL LAYOUT PLAN</p>	<p>SKETCH NO.: 60340456/CZ/SK123</p>	<p>REV. A</p>	<p>SCALE: 1:1000 (A3)</p>	<p>PREPARED BY: JACKY NG</p>	<p>CHECKED BY: LOUIS LAU</p>
		<p>RELATED SHEET NO.: 60340456/CZ/1000</p>	<p>DATE: 11-08-2020</p>	<p>DATE: 11-08-2020</p>					

Appendix II

- Tree Assessment Schedule
- Tree Treatment Plan

Figure 2

 Civil Engineering and Development Department	
CONTRACT NO.: CV/2016/08 QUEEN'S HILL DEVELOPMENT - SEWAGE PUMPING STATION WORKS	
TITLE TREE TREATMENT PLAN AT PROPOSED PUMPING STATION	
AECOM	
SKETCH NO.: 60340456/C2/SK118 DRAWING NO.: TREE TREATMENT PLAN	SCALE: 1:400 (A3)
PREPARED BY: JACKY NG	CHECKED BY: LOUIS LAU
DATE: 28-02-2020	DATE:



LEGEND:
 - - - - - SITE BOUNDARY
 - - - - - EXISTING TREE TO BE FELLED

Tree ID No.	Species		Tree measurement			Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting		Conservation Status	Recommendation	Location & Justification for Tree Felling / Transplanting	Additional Remarks	Relevant Approval Letters/Memos from LandsD on Felling the concerned trees	Relevant Approval Letters/Memos from LandsD on the compensatory trees
	Scientific name	Chinese name	Height (m)	DBH (m)	Crown Spread (m)	Amenity Value	(Good / Fair / Poor)	(High / Med / Low)	Remarks	(Retain/Transplant / Fell)							
T0664	(Dead tree)	枯死樹木	6.0	0.2	4.0	-	-	-	-	-	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (i)				
T0771	<i>Macaranga tanarius</i>	血桐	5.0	0.1	4.0	Poor	Poor	Poor	Poor	Low	a, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	leaning, vines on crown, imbalanced crown.		
T0772	<i>Macaranga tanarius</i>	血桐	4.5	0.1	4.0	Poor	Poor	Poor	Poor	Low	a, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	bent trunk, dead branch, yellow leaves, suppressed growth, imbalanced crown		
T0773	<i>Macaranga tanarius</i>	血桐	5.0	0.1	4.0	Poor	Poor	Poor	Poor	Low	a, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	leaning, epicormics on branch, imbalanced crown		
T0774	<i>Bridelia tomentosa</i>	土蜜樹	7.0	0.2	6.0	Fair	Fair	Fair	Poor	Low	a, b, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	codominant branches, bent trunk, dead branch	Refer to Appendix III of this Plan for the Drawing No. 60340456/TRA/TSP/128 showing the 12 nos. of felled trees within the Queen's Hill Sewage Pumping Station approved by LandsD in accordance with Memo Ref. (22) in LM(2) to DLON 3/65/14 dated 24 June 2016.	Refer to Appendix III of this Plan for the Drawing No. 60340456/TRA/CP/115 showing the 17 nos. compensatory trees (C1-C17) within the Queen's Hill Sewage Pumping Station approved by LandsD in accordance with Memo Ref. (22) in LM(2) to DLON 3/65/14 dated 24 June 2016
T0775	<i>Bridelia tomentosa</i>	土蜜樹	7.0	0.2	6.0	Poor	Poor	Fair	Poor	Low	a, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	dead branch, imbalanced crown		
T0776	<i>Acacia confusa</i>	台灣相思	13.0	0.4	4.0	Poor	Poor	Fair	Poor	Low	a, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	bent trunk, wound on trunk, imbalanced crown, restricted root		
T0790	<i>Bombax ceiba</i>	木棉	14.0	0.5	6.5	Poor	Poor	Fair	Poor	Low	a, b, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	borer on trunk, bark crack on trunk, imbalanced crown, restricted root		
T0791	<i>Acacia confusa</i>	台灣相思	8.0	0.5	8.0	Poor	Poor	Fair	Poor	Low	a, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	wound on trunk, borer on trunk, imbalanced crown, restricted root		
T0792	<i>Acacia confusa</i>	台灣相思	13.0	0.5	8.0	Poor	Poor	Fair	Poor	Low	a, b, c, f	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	tilted, codominant branches, imbalanced crown, restricted root		
T0665	<i>Bombax ceiba</i>	木棉	13.0	0.9	15.0	Fair	Fair	Fair	Poor	Low	a, d, f, i	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	vines on trunk, wound on root, restricted root, dead branch	Refer to Appendix III of this Plan for the Drawing No. 60340456/C2/SK118 showing the felled trees within the Queen's Hill Sewage Pumping Station approved by LandsD in accordance with Memo Ref. (41) in LM(2) in DLON 3/65/14 Pt.2 dated 6 November 2020	Refer to Appendix III of this Plan for the Drawing No. 60340456/C2/SK119 showing the compensatory trees (C18 and C19) within the Queen's Hill Sewage Pumping Station approved by LandsD in accordance with Memo Ref. (41) in LM(2) in DLON 3/65/14 Pt.2 dated 6 November 2020
T0789	<i>Bombax ceiba</i>	木棉	14.0	0.6	7.0	Good	Fair	Fair	Fair	Low	a, d, f, i	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	wound on trunk, imbalanced crown, restricted root, dead branch		
TA02	<i>Leucaena leucocephala</i>	鼠合歡	8.0	0.2	7.0	Fair	Fair	Fair	Fair	Low	a, g	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	tilted	Refer to Appendix III of this Plan for the Drawing No. 60340456/C1/SK005 showing the felled trees within the Queen's Hill Sewage Pumping Station approved by LandsD in accordance with Memo Ref. (28) in LM(2) in DLON 3/65/14 dated 13 September 2017	Refer to Appendix III of this Plan for the Drawing No. 60340456/C1/SK005 showing the compensatory trees (C20 and C21) outside the Queen's Hill Sewage Pumping Station approved by LandsD in accordance with Memo Ref. (28) in LM(2) in DLON 3/65/14 dated 13 September 2017
TA03	<i>Dimocarpus longan</i>	龍眼	9.5	0.3	7.0	Fair	Fair	Fair	Fair	Low	a, f, i	NIL	Fell	Location: Lung Ma Road within proposed sewage pumping station site; Justification: (iv)	restricted root, imbalanced crown, vines on crown, broken branches		

Remarks for Suitability for Transplanting

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

Remarks for Justification for Tree Felling /Transplanting

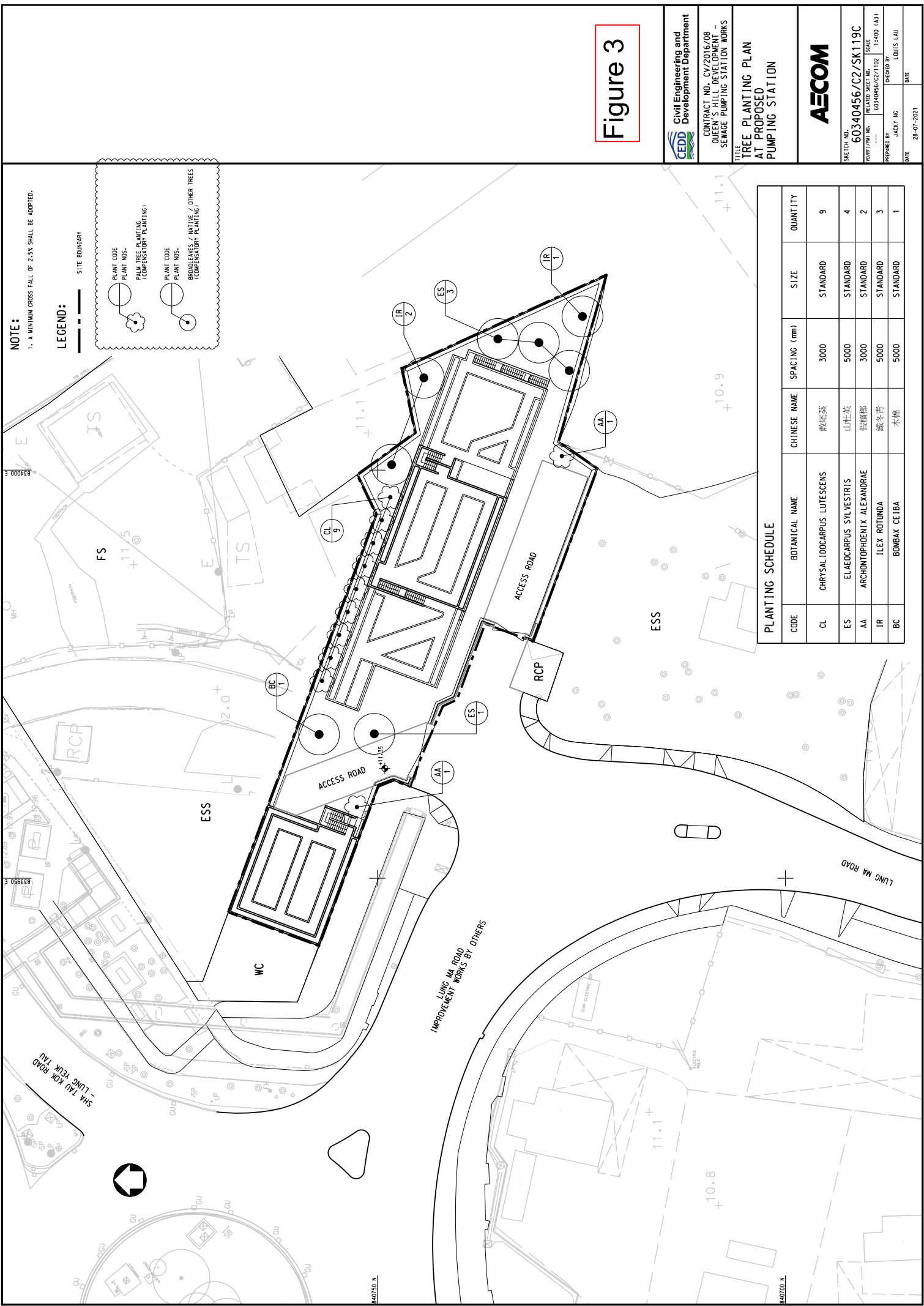
- (1) Tree located within proposed sewage pumping station site

Appendix III

Compensatory Planting Proposal

Confirmation from DSD for Compensatory
Planting Proposal

Approvals from LandsD for Tree Preservation
and Removal Proposal



NOTE:
1. A MINIMUM CROSS FALL OF 2.5% SHALL BE ADOPTED.

LEGEND:
--- SITE BOUNDARY

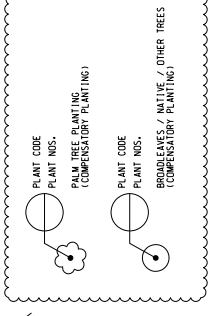


Figure 3

Civil Engineering and Development Department
 CEDD
 CONTRACT NO. CV/2016/09
 QUOTE NO. 60340456/02
 SEWAGE PUMPING STATION WORKS

AECOM

SKETCH NO. 60340456/C2/SK119C
 SCALE 1:400 (A3)
 PREPARED BY JACKY NG
 CHECKED BY LUDIS LAU
 DATE 28-01-2021

PLANTING SCHEDULE

CODE	BOTANICAL NAME	CHINESE NAME	SPACING (mm)	SIZE	QUANTITY
CL	CHRYSALIDOCARPUS LUTESEENS	散尾葵	3000	STANDARD	9
ES	ELAEOCARPUS SYLVESTRIS	山杜英	5000	STANDARD	4
AA	ARCHONTOPHENIX ALEXANDRAE	假棕櫚	3000	STANDARD	2
IR	ILEX ROTUNDA	鐵冬青	5000	STANDARD	3
BC	BOMBAX CEIBA	木棉	5000	STANDARD	1

By Fax**MEMO**

From District Lands Officer, North
 Ref. (41) in L/M (2) in DLON 3/65/14 Pt. 2
 Tel. No. 3692 4437
 Fax No. 2675 9224
 Email slenal@landsd.gov.hk
 Date 6 November 2020

To Project Team Leader/Project, CEDD
 (Attn.: Mr. Kevin Y. C. LEUNG)
 Your Ref. () in _____
 Dated _____
 Fax No. 2114 0195
 Total Pages 1

**Contract No. CV/2016/08
 Queen's Hill Development – Sewage Pumping Station Works**

Tree Felling and Compensatory Planting of Sewage Pumping Station

I refer to the Tree Felling and Compensatory Planting of Sewage Pumping Station proposed in AECOM's letter dated 20.7.2020 with ref. : (CV/2016/08)/C55/110/ (1137).


2. Approval has been given to the felling of 2 nos. of trees and compensatory planting of 2 nos. of trees as proposed in the Tree Felling and Compensatory Planting of Sewage Pumping Station.

3. The locations and the maintenance department for the compensatory trees are as follows :-

	Sketch No.	Maintenance Department
2 nos. of compensatory trees	60340456/C2/SK119	Drainage Services Department ("DSD")

4. I would like to reiterate that this office will not take up the maintenance responsibility of any compensated trees. You are required to arrange with the DSD for taking up the trees in question for maintenance upon completion of the required compensatory works.

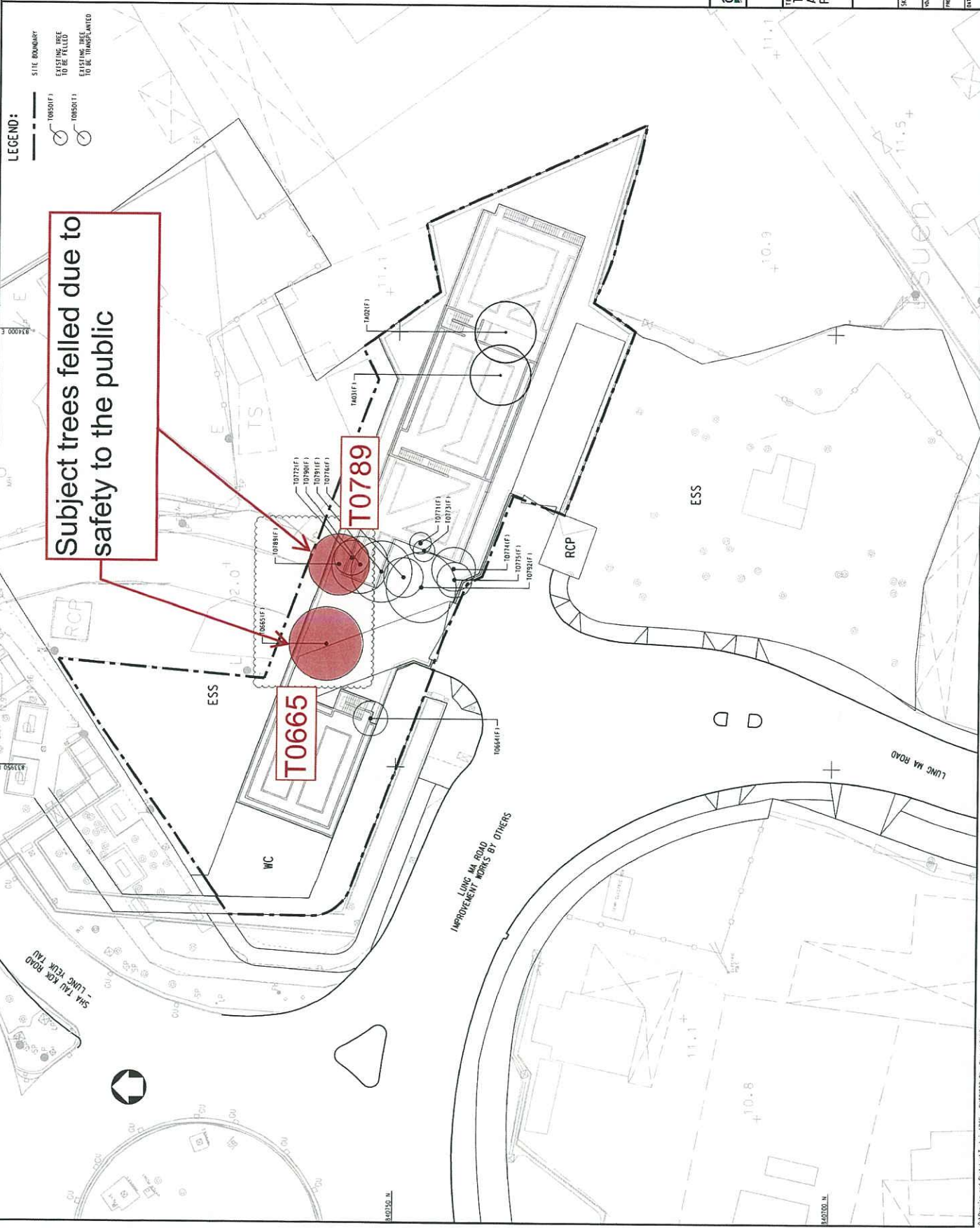
5. Should you have any enquiries, please contact Miss Almas YEUNG of this office at tel. no. 3692 4438.


 (Linda K. P. FONG)
 for District Lands Officer, North

c.c. (By Fax Only)

LA/HQ3, DSD	(Attn. : Mr. Peter LAM)	Fax. No. 2827 9352
CE/ST1, DSD	(Attn. : Mr. Paul CHAU)	Fax. No. 2827 8619
AECOM	(Attn. : Mr. CHAN Yiu-fai)	Fax. No. 2569 5199
AECOM	(Attn. : Mr. Robert CHAN)	Fax. No. 3922 9797

Internal c.c.
 DLON 15/14



Subject trees felled due to safety to the public

LEGEND:

- SITE BOUNDARY
- EXISTING TREES TO BE FELLED
- EXISTING TREES TO BE TRANSPLANTED

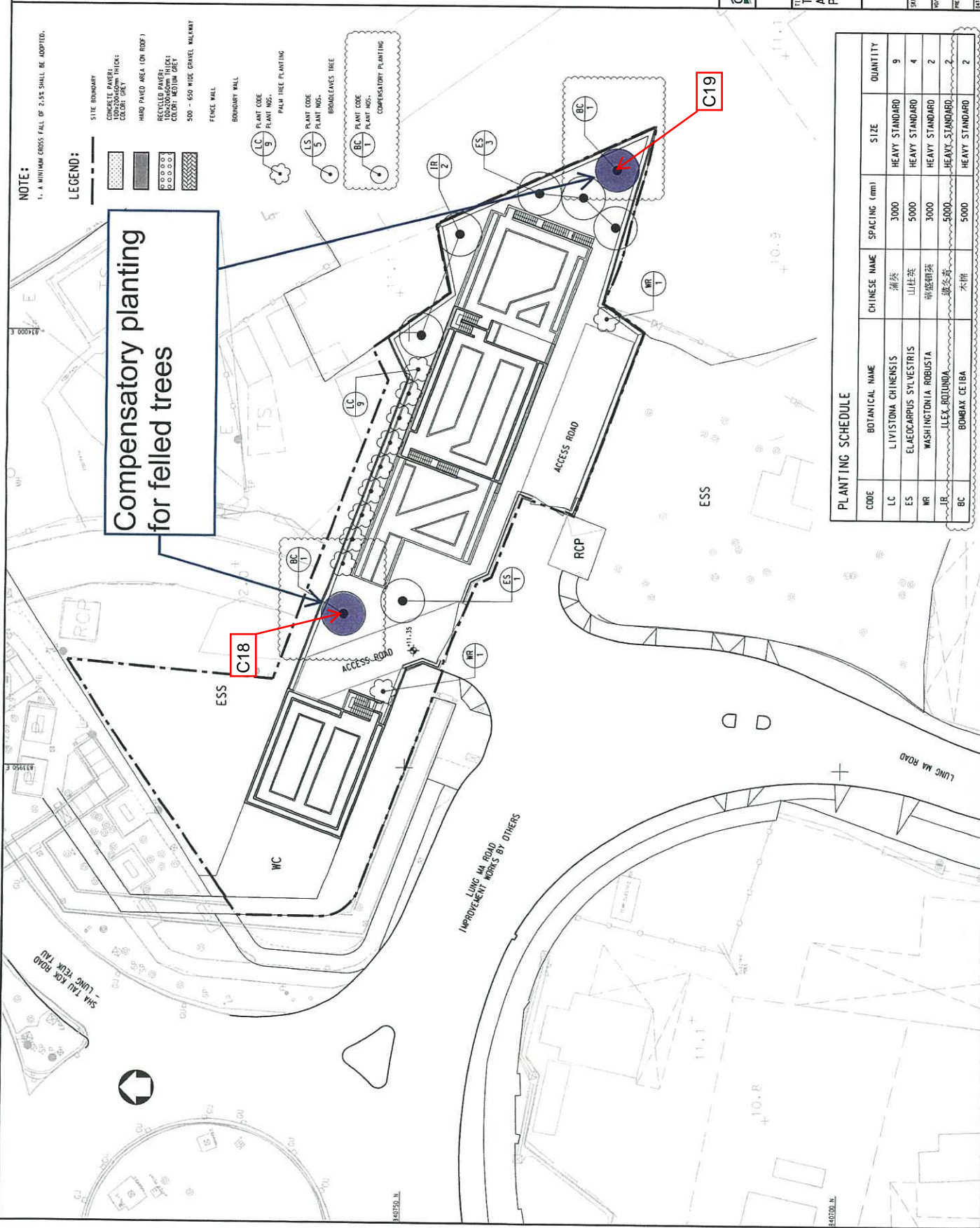
Civil Engineering and Development Department	CONTRACT NO. CM/2016/08 QUEEN'S HILL DEVELOPMENT - SEWAGE PUMPING STATION WORKS
	TITLE TREE TREATMENT PLAN AT PROPOSED PUMPING STATION
SHEET NO. 60340456/C2/SK118 PROJECT NO. 60340456/C2/101 1:1000 (A3)	DRAWN BY: CLAUIS LUTZ CHECKED BY: CLAUIS LUTZ DATE: 28-02-2020

NOTE:
1. A MINIMUM CROSS FALL OF 2.5% SHALL BE ADOPTED.

LEGEND:

- SITE BOUNDARY
- CONCRETE PAVEMENT
100x200x40mm THICK
COLOR: GREY
- HARD PAVED AREA (LOW ROOF)
- RECYCLED PAVEMENT
100x200x40mm THICK
COLOR: MEDIUM GREY
- 500 - 650 WIDE GRAVEL BALANRY
- FENCE WALL
- BOUNDARY HALL
- LC - PLANT CODE
PLANT NOS. 9
PALM TREE PLANTING
- LS - PLANT CODE
PLANT NOS. 5
BROADLEAVES TREE
- BC - PLANT CODE
PLANT NOS. 1
COMPENSATORY PLANTING

**Compensatory planting
for felled trees**



PLANTING SCHEDULE

CODE	BOTANICAL NAME	CHINESE NAME	SPACING (mm)	SIZE	QUANTITY
LC	LIVISTONIA CHINENSIS	蒲葵	3000	HEAVY STANDARD	9
ES	ELAEAGARPUS SYLVESTRIS	山杜英	5000	HEAVY STANDARD	4
WR	WASHINGTONIA ROBUSTA	华盛顿葵	3000	HEAVY STANDARD	2
JR	LILEX BOLUUDA	蓬冬草	5000	HEAVY STANDARD	2
BC	BOMBAX CEIBA	木棉	5000	HEAVY STANDARD	2

CEDD Civil Engineering and Development Department
 CONTRACT NO. CV/2016/08
 QUEEN'S HILL DEVELOPMENT - SEWAGE PUMPING STATION WORKS
 TITLE: TREE PLANTING PLAN AT PROPOSED PUMPING STATION
 AECOM
 SKETCH NO. 60340456/C2/SK119
 DRAWING NO. 60340456/C2/103
 SCALE 1:500 (A3)
 PREPARED BY JACKY NG
 CHECKED BY LOUIS LAM
 DATE 28-02-2020

By Fax

MEMO

From District Lands Officer, North
Ref. (28) in L/M (2) in DLON 3/65/14
Tel. No. 3692 4437 Fax. No. 2675 9224
Email slena1@landsd.gov.hk
Date 13 September 2017

To Principal Project Coordinator/
Housing Projects 1, CEDD
(Attn.: Ms. Ruth TSO)
Your Ref. in
dated Fax. No. 2714 0103
Total Pages 2 + Encl.

PWP No. B783CL

**Infrastructural Works for Developments at Queen's Hill, Fanling
2nd Tree Preservation and Removal Proposal (TPRP)**

2 out of 7 trees within SPS indicated at Sketch No. 60340456/C1/SK005 was approved to be felled. 2 Nos. of compensatory trees would be planted outside the SPS.

I refer to a letter dated 27 April 2017 (Ref.: (CV/2016/07)/C55/100/(0100)) and an email dated 27 July 2017 from AECOM, the consultant appointed by you regarding the captioned application.

2. Approval has been given to the felling of 7 trees indicated at Sketch No. 60340456/C1/SK005 (copy attached). The location and maintenance department of the compensatory trees are indicated at para. 12 of the TPRP.

3. AFCD has no comment on the subject TPRP. LCSD has no objection in principle for taking up the maintenance responsibility for the 7 nos. of compensatory trees subject to the following conditions:-

- (i) sufficient recurrent cost would be provided; and
- (ii) the trees could meet the LCSD general standards and maintenance requirements.

4. I wish to reiterate that this office will not take up the maintenance responsibility of any compensated trees or transplanted trees. Unless and until one or more other competent department(s) is/are identified and agree to take up the maintenance responsibilities of all compensated trees and transplanted trees, you are required to shoulder the maintenance responsibilities concerned during the interim period immediately commencing from the completion of the planting / replanting.

5. Should you have any enquiries, please contact my Land Executive, Miss Almas YEUNG at telephone no. 3692 4438.

(Raymond H.C. YU)
for District Lands Officer, North

Encl.

- Sketch No. 60340456/C1/SK005

c.c. (without encl.)

DLCS (Attn.: Mr. CHENG Chi-chung)

Fax No.: 2691 7264

DLCS (Attn: EA(P)3)

Fax No.: 2695 3886

DAFC (Attn: Ms. Aidia CHAN)

Fax No. : 2377 4427

Your Ref.: (5) in AF GR TF/NT 10/2016

AECOM (Attn: Mr. CHAN Yiu-fai)

Fax No. : 2472 6332

SAN WAI BARRACKS
SUNG YUK TAU
MA LIU SHUI
SAN TSUEN

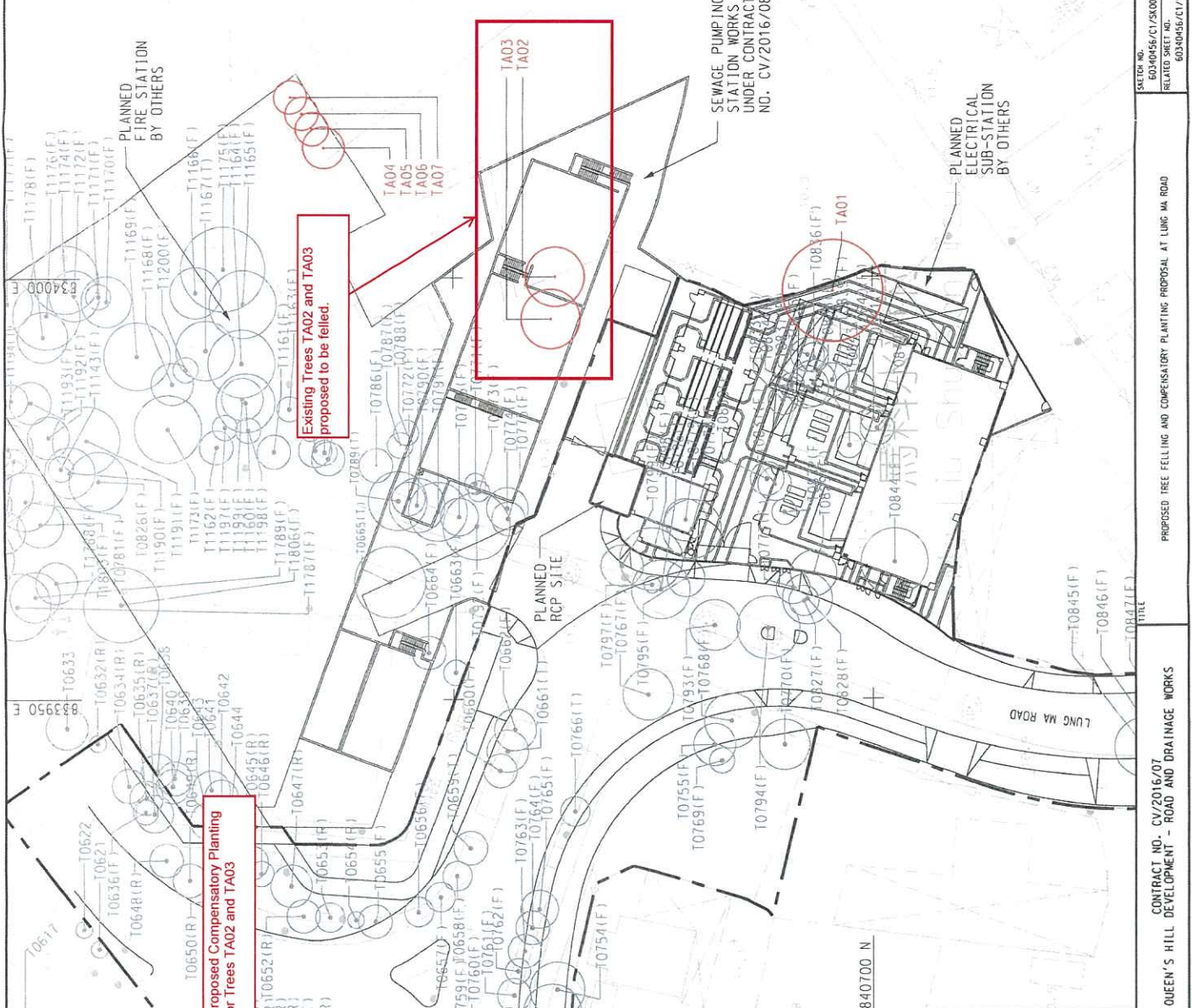
LUNG MA ROAD

KEY PLAN
N. T. S.

NOTES:

1. TREE NOS. TA02 AND TA03 ARE PROPOSED TO BE FELLED UNDER CONTRACT NO. CV/2016/08.
2. APPROVAL HAS BEEN GIVEN UNDER LANDS DEPARTMENT MEMO REF. (22) IN L/M(2) TO D/LON 3/65/14.

SCALE	1:500 (A3)	CHECKED BY	LOUIS LAU
REV.	-	PREPARED BY	KENNETH LEE
DATE	---	DATE	3-04-2017
PROJECT NO.	60340456/CT/5X005	SKETCH NO.	60340456/CT/5X005
RELATED SHEET NO.	60340456/CT/102		



840800 N

833900 E

LC 7

Proposed Compensatory Planting for Trees TA02 and TA03

C21

C20

LEGEND:

- SITE BOUNDARY
- TA01 EXISTING TREE TO BE FELLED
- COMPENSATORY PLANTING OF LIVISTONA CHINENSIS (LC)
- T0850(R) EXISTING TREE TO BE RETAINED BY OTHERS (SEE NOTE 2)
- T0850(F) EXISTING TREE TO BE FELLED BY OTHERS (SEE NOTE 2)
- T0850(T) EXISTING TREE TO BE TRANSPLANTED BY OTHERS (SEE NOTE 2)

By Fax

MEMO

From District Lands Officer, North
Lands Department

Ref. (22) in L/M(2) to DLON 3/65/14

Tel. No. 3692 4437

Fax No. 2675 9224

Date 24 June 2016

To Principal Project Coordinator/Housing
Projects 1, CEDD

(Attn.: Ms Fiona FONG)

Your Ref. (1DKZ5-01) in HPD PJ/783CL/00

dated 04.02.2016 Fax No. 2714 0103

Total Pages 2

RECEIVED ON

24 JUN 2016

HOUSING PROJECTS 1 UNIT

PWP No. B783CL

Infrastructural Works for Development at Queen's Hill, Fanling
Tree Preservation and Removal Proposal (TPRP)

I refer to your memos of 4 and 29 February 2016 regarding the captioned proposal.

12 out of 452 trees within SPS indicated at Sketch No. 60340456/TRA/TSP/128 in Appendix II of TPRP was approved to be felled. 17 Nos. of compensatory trees would be planted outside the SPS in accordance with the Sketch No. 60340456/TRA/TSP/115 in Appendix II of TPRP

2. Approval has been given to the felling of 452 trees (with 282 compensatory trees to be replanted) and to the transplanting of 38 trees indicated on Table 5.2 on page 5 and at the Appendix II of the TPRP which were in conflict with the construction of the captioned project works, subject to the following conditions :-

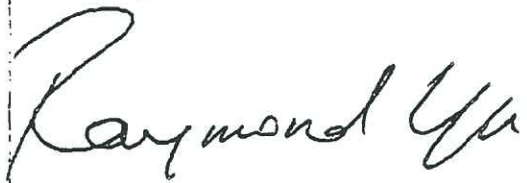
- (i) your implementation of the compensatory planting and maintenance arrangement; and
 - (ii) the comment of Director of Leisure and Cultural Services that "Having considered that the tree (T0849) is of high amenity value with unique feature, the Board¹ advised that the tree should be preserved as far as practicable from tree preservation point of view" raised on 16 May 2016. Copy of the said memo is attached at Appendix A for your reference.
3. Agriculture, Fisheries and Conservation Department and Leisure and Cultural Services Department have no comment on the proposed felling of the other 451 trees and transplant of another 38 trees.
 4. The location of the 282 compensatory trees and the new location of the 38 trees to be transplanted together with the maintenance departments are indicated at Appendices VII and VIII of the TPRP.
 5. It is noted that the Drawing No. of the Proposed Compensatory Planting Area (On site) Summary of Appendix VII is different from the plan attached thereto. The correct Drawing No. should be as follows:

Drawing No.	No. of Compensatory Trees	No. of Compensatory Trees to be maintained by LCSD	No. of Compensatory Trees to be maintained by DSD
60340456/TRA/CP/101	66	61+5=66	-
60340456/TRA/CP/102	20	16+4=20	-
60340456/TRA/CP/103	39	36+3=39	-
60340456/TRA/CP/104	19	19	-
60340456/TRA/CP/113	44	24+9+11=44	-
60340456/TRA/CP/115	17	-	9+4+4=17
Total	205	188	17

¹ Tree Preservation Board of Leisure and Cultural Services Department

6. I wish to reiterate that this office will not take up the maintenance responsibility of any compensated trees or transplanted trees. Unless and until one or more other competent department(s) is/are identified and agree to take up the maintenance responsibilities of all compensated trees and transplanted trees, you are required to shoulder the maintenance responsibilities concerned during the interim period immediately commencing from the completion of the planting / replanting.

7. Should you have any enquiries, please contact Mr. Stanley WONG at 3692 4439.

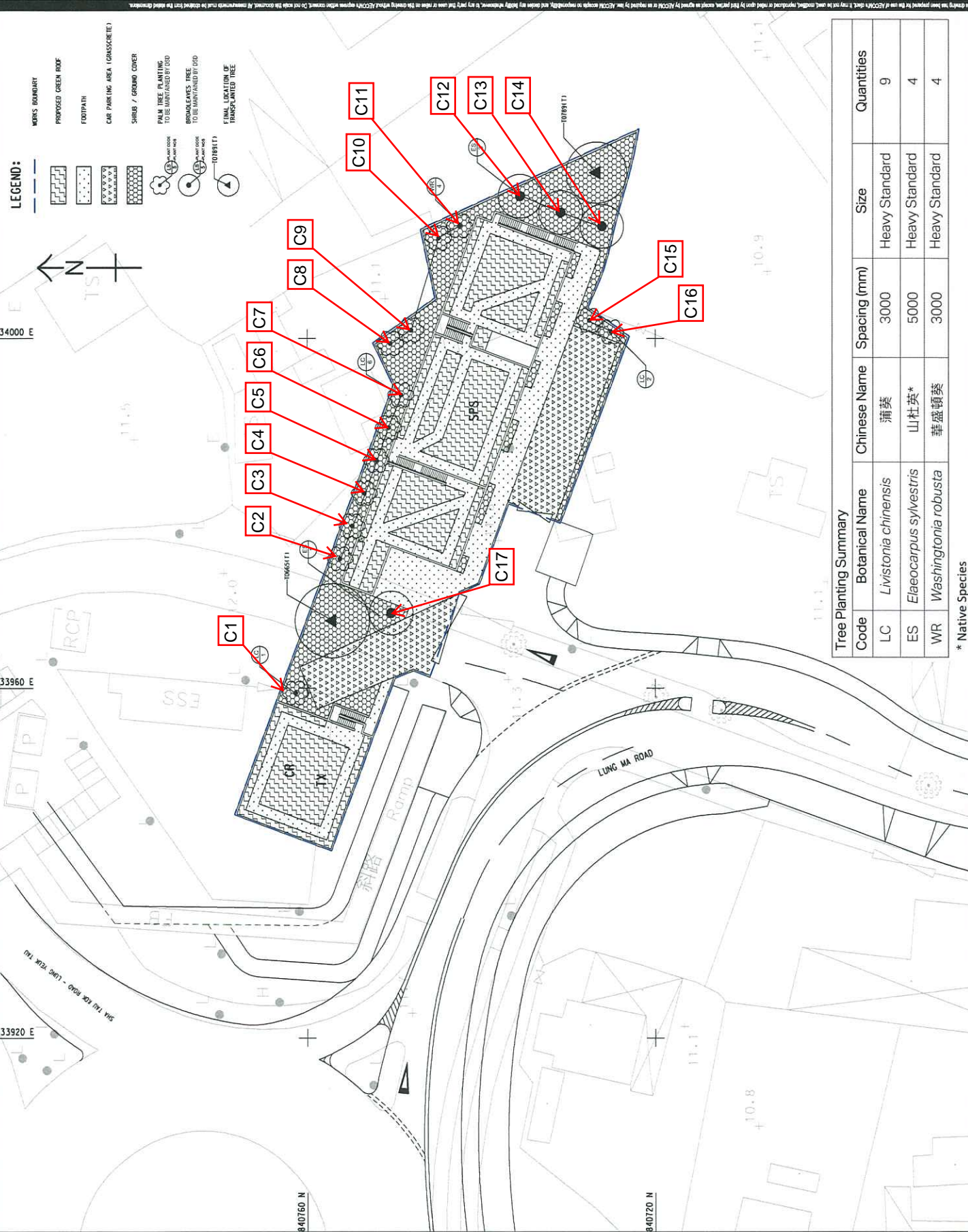
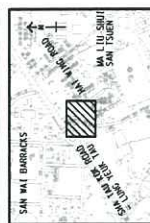


(Raymond H. C. YU)
for District Lands Officer, North

Encl.

c.c.(w/e): - By fax

	<u>Attn.</u>	<u>Fax No.</u>	<u>Reference</u>
DLCS	Ms Karen WONG	2695 3886	LCS 2/HQ 712/14 (3) IV
DAFC	Mr Eric KY LIU	2327 4427	(2) in AF GR TF/NT 10/2016
CE/MN, DSD	Mr Henry YU	2770 4761	(000MB8) in MN 8/0/CE0114/0



LEGEND:

- WORKS BOUNDARY
- PROPOSED GREEN ROOF
- FOOTPATH
- CAR PARKING AREA (GRASS/SCREE)
- SHRUB / GROUND COVER
- PALM TREE PLANTING TO BE MAINTAINED BY OSD
- BROADLEAF TREES TO BE MAINTAINED BY OSD
- FINAL LOCATION OF TRANSPLANTED TREE

Tree Planting Summary

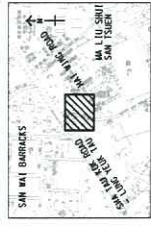
Code	Botanical Name	Chinese Name	Spacing (mm)	Size	Quantities
LC	<i>Livistonia chinensis</i>	蒲葵	3000	Heavy Standard	9
ES	<i>Elaeocarpus sylvestris</i>	山杜英*	5000	Heavy Standard	4
WR	<i>Washingtonia robusta</i>	華盛頓葵	3000	Heavy Standard	4

* Native Species

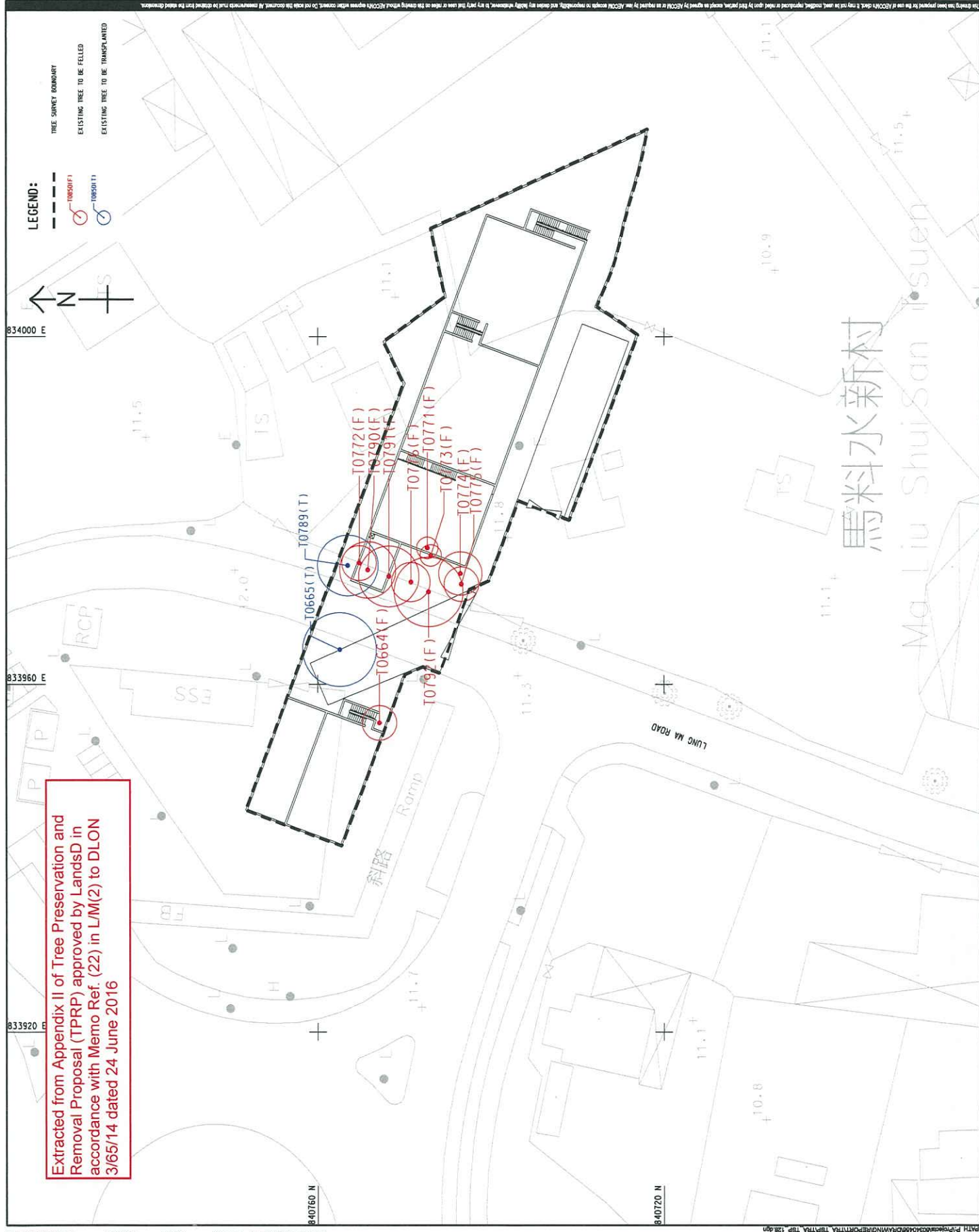
REVISION

NO.	DATE	DESCRIPTION	CHK BY

SCALE
 1:1:200
SCALE PLAN 1:1:1000



PROJECT NO. 60340456
CONTRACT NO. CE 632014 (CE)
SHEET TITLE TREE SURVEY PLAN AT SEWAGE PUMPING STATION (SITE B)
SHEET NUMBER 60340456/TRA/TSP/123



Extracted from Appendix II of Tree Preservation and Removal Proposal (TPRP) approved by LandsD in accordance with Memo Ref. (22) in L/M(2) to DLON 3/65/14 dated 24 June 2016

Appendix IV

Management and Maintenance Schedule

Our Ref.: YHH:RYLH:kchy:60340456/06.25-2016010200W

26 August 2016

By Hand

Housing Projects Division, Section 4
Civil Engineering Office
Civil Engineering and Development Department
3/F, Civil Engineering and Development Building,
101 Princess Margaret Rd,
Homantin, Kowloon

Attn.: Mr. John W. H. Chung

Dear Sir,

Agreement No. CE 63/2014 (CE)
Infrastructural Works for Proposed Developments at Queen's Hill, Fanling
– Investigation, Design and Construction


Submission of Management and Maintenance Schedule (Revised Final) (Revision 1)

Pursuant to Clause 6.3.5 of the Project Brief, we are pleased to submit a copy of Management and Maintenance Schedule (Revised Final) (Revision 1) of the captioned project for your retention.

Please be advised that the attached Management and Maintenance Schedule (Revised Final) (Revision 1) has been prepared by incorporating the comments received on the revised final version of the submission. Please note that all comments and queries from relevant government departments on the captioned report have been duly addressed and responded, and there are no outstanding issue that will incur change on the report. Response from relevant government departments are also enclosed herewith for your reference.

Concerning the foregoing, we would be appreciated if you could grant acceptance on the subject report.

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

PP 

Ruby Yew
Deputy Project Manager
Water & Urban Development

Encl.

Infrastructural Works for Proposed Developments at Queen's Hill, Fanling

Management and Maintenance Schedule

1.1 Introduction

1.1.1 In February 2015, AECOM Asia Co. Ltd. (AECOM) is commissioned by CEDD to undertake the Assignment of "Infrastructural Works for Proposed Developments at Queen's Hill, Fanling – Investigation, Design and Construction" under of Agreement No. CE 63/2014 (CE) (hereinafter called the "Project").

1.1.2 The Project comprises provision of the essential infrastructures, which shall cover at least road works, sewerage, drainage, waterworks and other infrastructural works including landscaping, to support the proposed housing development at the Site. For the avoidance of doubt, any infrastructures within the Queen's Hill site would not be covered under this Project.

1.1.3 The scopes of the infrastructural works recommended under EFS comprise the following essential elements:

- a) upgrading/widening of Lung Ma Road;
- b) junction improvement works along and in the vicinity of Sha Tau Kok Road;
- c) construction of a new sewerage system comprising primarily a pumping station together with the associated gravity sewers and rising mains; and
- d) associated infrastructural works including drainage, waterworks, landscaping, and tree felling and transplanting works.

1.1.4 To allow population intake at the future housing development in Queen's Hill by 2020/2021, the infrastructural works is scheduled to commence in late 2016 by completion in late 2019 tentatively.

1.2 Purpose of the Management and Maintenance Schedule

1.2.1 According to Clause 6.3.5(t) of the Brief, the Consultant shall prepare a Management and Maintenance Schedule identifying the management and maintenance authorities and their respective responsibilities, and obtain the agreement in principle from relevant maintenance authorities for taking up the maintenance responsibilities.

1.2.2 The management and maintenance responsibilities and handover requirements shall follow relevant Government Guidelines and Technical Circulars including:-

- HyD Structures Design Manual (2013 Edition);
- HyD Practice Notes No. BSTR/PN/003 Noise Barriers with Transparent Panels;
- HyD Public Lighting Design Manual;
- TD TPDM;
- DSD Sewerage Manual (Part 1 and 2);
- DSD Stormwater Manual;

- DSD Practice Note 1-2011 Design Checklist on O&M Requirements;
- DSD Administration Circular No. 5/2010 – Responsibility for Maintenance of Pressure Main;
- WSD Civil Engineering Design Manual;
- WSD Manual of Mainlaying Practice (2012 Edition);
- HyD Guidance Notes No. RD/GN/035 – Guidance Notes on Road Pavement Drainage Design;
- HyD Requirements for Handover of Vegetation to Highways Department;
- LCSD General Standards and Maintenance Requirements for Roadside Landscape Works to be Handed Over to LCSD for Maintenance;
- Latest General Requirement of Roadside Landscape Areas to be Handed over to LCSD; and
- DEVB TCW No. 6/2015 – Maintenance of Vegetation and Hard Landscape Features
- DEVB TCW No. 14/2004 – Maintenance of Stormwater Drainage Systems and Natural Watercourses

Appendix A - Management and Maintenance Schedule

1) Roadworks, Sewerage (Gravity Sewers), Drainage, Waterworks and Landscaping Works

Roadworks	–	Drawings No. 60340456/QH/501A to 510 and 60340456/EL/805 to 806;
Sewerage	–	Drawings No. 60340456/QH/401 to 402;
Drainage	–	Drawings No. 60340456/QH/441 to 445;
Waterworks	–	Drawings No. 60340456/QH/471 to 472,
Landscape	–	Drawings No. 60340456/SK0071 to SK0076 and 60340456/LGD_OFF/101 to 104

Table 1

Completed Works	Management Authority	Maintenance Agent
- Carriageway / Footpath / Cycle Track / Central Median / Refuge Island and associated Street Furniture ^{1 2 3}	TD	HyD/NTR Road Team
- Relocated / Completed Street Lighting / High Mast Lighting and associated cables	HyD/Lighting	HyD/Lighting
- Noise Barriers along widened Lung Ma Road	-	HyD/NTR Structural Team
- Gravity Sewers & Manholes	DSD/MN	DSD/MN
- Exclusive road drains including gully pits/sumps, gully connection pipes and carrier drains	-	HyD/NTR Road Team
- Stormwater drainage systems other than those to be maintained by HyD	DSD/MN	DSD/MN
- Box Culvert underneath widened Lung Ma Road and along Sha Tau Kok Road – Lung Yeuk Tau	DSD/MN	DSD/MN
- Watermains and Fire Hydrants along widened Lung Ma Road	WSD	WSD
- Hard Landscapes	-	HyD/NTR Road Team ⁴
- Roadside Soft Landscapes Areas and associated Irrigation System	-	LCSD ^{5 6}
- Off-site Planting Areas (soft landscapes) and associated Irrigation System	-	LCSD ^{5 6}

Note:-

¹ Existing Carriageway / Footpath / Maintenance Access / Roadside Amenity Areas and associated Street Furniture on top of newly constructed Gravity Sewers shall be managed by its original Management Authority and maintained by its original Maintenance Agent as shown in drawings.

² Section of Hai Wing Road connecting to widened Lung Ma Road as well as section of widened Sui Wan Road connecting to widened Sha Tau Kok Road – Lung Yeuk Tau shall be managed by DLO/N and maintained by DO/N as shown in drawing.

³ All traffic lights shall be managed by TD and maintained by HyD/E&M Team.

⁴ Completed hard landscapes shall be handed-over to HyD/NTR Road Team for maintenance.

⁵ Completed soft landscapes shall be handed-over to LCSD for maintenance.

⁶ EMSD is the work agent for the maintenance of the irrigation system where are necessary.

2) Queen's Hill Sewage Pumping Station (QHSPS) and associated Sewage Rising Mains

Drawings No. 60340456/QH/402 to 410 and 442; 60340456/PDR/PLD/003

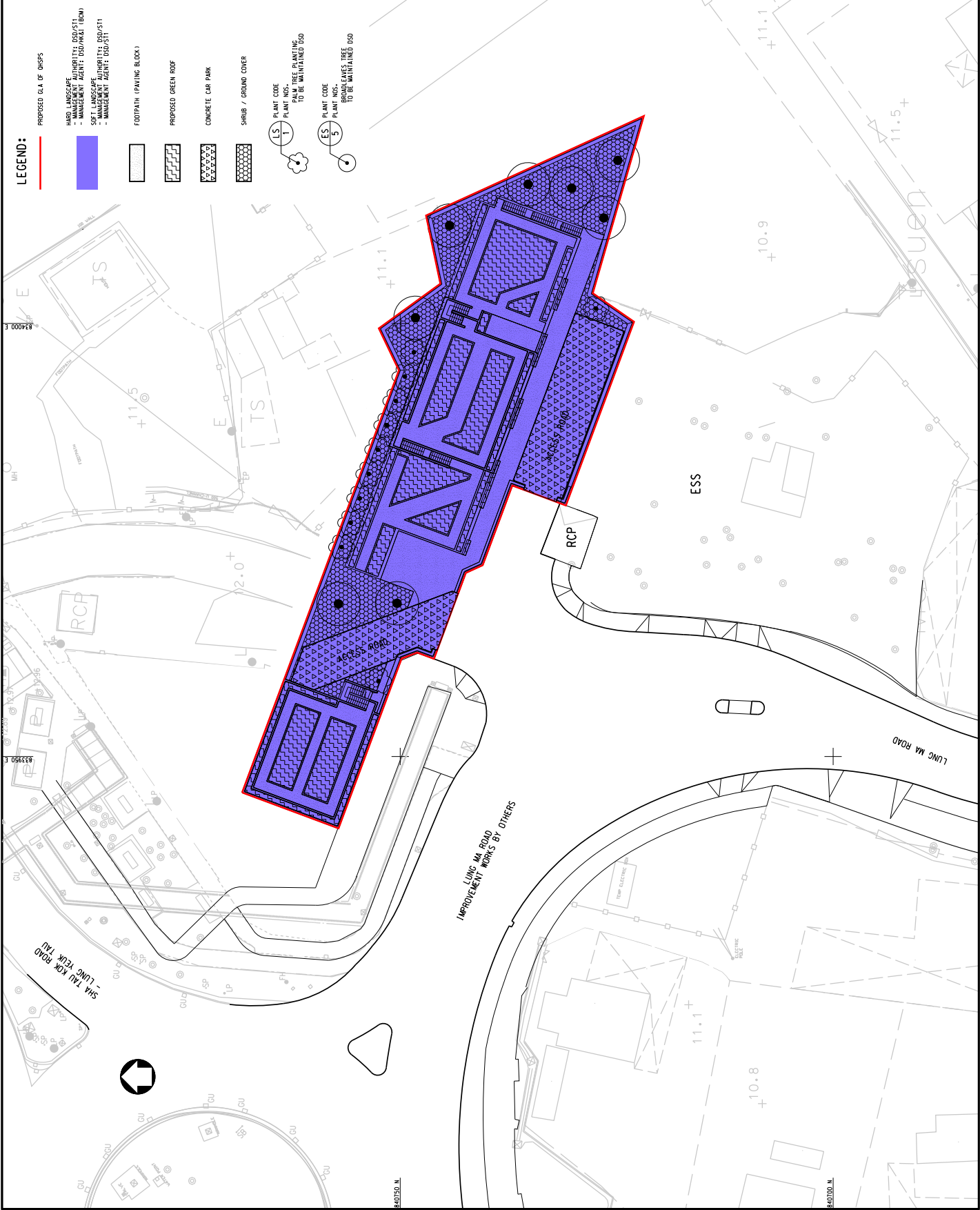
Table 2

Completed Works	Management Authority	Maintenance Agent
<i>Within the Boundary of QHSPS</i>		
- Civil & Structural Works	DSD/ST1	DSD/HK&I (BCM)
- Vehicular Access & Footpath	DSD/ST1	DSD/HK&I (BCM)
- Gravity Sewers & Manholes / Drainage Pipes & Manholes / Gullies & Gully Pipes / Catchpits & U-channels / Plumbing Services	DSD/ST1	DSD/HK&I (BCM)
- Sewage Rising Mains	DSD/ST1	DSD/ST1
- E&M Installations	DSD/ST1	DSD/ST1
- Hard Landscapes including planters, boundary fence walls, etc.	DSD/ST1	DSD/HK&I (BCM)
- Soft Landscapes	DSD/ST1	DSD/ST1
<i>Outside the Boundary of QHSPS</i>		
- Sewage Rising Mains ^{7 8}	DSD/ST1	DSD/ST1
<i>Within the Boundary of SWHSTW</i>		
- Sewage Rising Mains ⁷	DSD/ST1	DSD/ST1

Note:-

⁷ Existing Carriageway / Footpath / Maintenance Access / Roadside Amenity Areas and associated Street Furniture on top of newly constructed Sewage Rising Mains shall be managed by its original Management Authority and maintained by its original Maintenance Agent as shown in drawings.

⁸DSD/MN shall provide assistance to the civil works for the maintenance of the concerned SRM when requested by DSD/ST1.



- LEGEND:**
- PROPOSED CLA OF SHPS
 - HARD LANDSCAPE
 - AUTHORITY: DSD/S11
 - MANAGEMENT AUTHORITY: DSD/S11
 - SOFT LANDSCAPE
 - AUTHORITY: DSD/S11
 - MANAGEMENT AUTHORITY: DSD/S11
 - FOOTPATH (PAVING BLOCK)
 - PROPOSED GREEN ROOF
 - CONCRETE CAR PARK
 - SHRUB / GROUND COVER
 - PLANT CODE
 - LS PLANT NOS. TO BE MAINTAINED DSD
 - ES PLANT NOS. BROADLEAVES TREE TO BE MAINTAINED DSD

Civil Engineering and Development Department 	
CONTRACT NO.: CV/2016/08 QUEEN'S HILL DEVELOPMENT - SEWAGE PUMPING STATION WORKS	SKETCH NO.: 60340456/PDR/PLD/003 DRAWING NO.: 60340456/001 SCALE: 1:400 (A3)
TITLE LANDSCAPE MAINTENANCE RESPONSIBILITY FOR SEWAGE PUMPING STATION	
AECOM	
PREPARED BY: JACKY NG CHECKED BY: LOUIS LAU DATE:	SKETCH NO.: 60340456/PDR/PLD/003 DRAWING NO.: 60340456/001 SCALE: 1:400 (A3)



Drainage Services Department
Mainland North Division
14/F, Kowloon Government Offices,
405 Nathan Road, Kowloon

新界北渠務部
九龍彌敦道 405 號
九龍政府合署 14 樓

By Fax (3922 9797)

本署接獲 Our Ref: (000FUA) in MN 8/0/CE0114/0
來函檔號 Your Ref: YHH:RYLH::kchy:60340458/06.25-2016005845W
電話 Telephone: (852) 2300 1407
圖文傳真 Fax: (852) 2770 4761

24 May 2016

AECOM
8/F., Grand Central Plaza, Tower 2,
138 Shatin Rural Committee Road, Shatin,
Hong Kong
(Attn.: Ruby Yew)

Dear Sir/Madam,

Agreement No. CE 63/2014 (CE)
Infrastructural Works for Proposed Developments at Queen's Hill, Fanling
- Investigation, Design and Construction

Submission of Management and Maintenance Schedule (Revised Final)

I refer to your above referenced letter dated 12.5.2016 enclosing the captioned Report for comments.

DSD has no further comments on the above submission. This is a coordinated reply from Mainland North Division, Buildings / Civil Maintenance Team of the Hong Kong and Islands Division and the Sewage Treatment Division 1 and Electrical and Mechanical Project Division of DSD.

Yours faithfully,

Henry

(Henry YU)
for Chief Engineer/Mainland North
Drainage Services Department

c.c.

CE/HK&I, DSD - Attn: Mr. Liu Chun-lok
CE/ST1, DSD - Attn: Mr. Roy K Y LAU
CE/E&MP, DSD - Attn: Mr. Cyrus K K YIM
CE/SD(W), CEDD - Attn: Mr. John W. H. CHUNG

(by Fax)

(by Fax)

(by Fax)

(by Fax)

我們的抱負是提供世界級的污水和雨水處理排放服務，以促進香港的可持續發展。
Our mission is to provide world-class wastewater and stormwater drainage services enabling the sustainable development of Hong Kong.

ISO 9001 & 14001
CERTIFIED
2008



Drainage Services Department
Hong Kong and Islands Division
42/F, Revenue Tower, 5 Gloucester Road,
Wan Chai, Hong Kong

渠務署
香港及離島渠務部
香港灣仔告士打道5號
稅務大樓42樓

來函檔號 Your Ref: YHH:RYLH:kchy: 60340456/06.25-2016005845W
本署檔號 Our Ref: (10) in DSD HK8/CE632014 11.3
電話 Tel: (852) 2594 7233
傳真 Fax: (852) 2827 6657

By Fax (3922 9797)
16 May 2016

AECOM
8/F Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, Hong Kong
(Attn: Ruby Yew)

Dear Sir/Madam,

Agreement No. CE 63/2014 (CE)
Infrastructural Works for Proposed Developments at Queen's Hill, Fanling
- Investigation, Design and Construction

Submission of Management and Maintenance Schedule (Revised Final)

I refer to your above referenced letter. Please be informed that we have no further comments.

Yours faithfully,


(C E L I U)
for Chief Engineer/Hong Kong & Islands
Drainage Services Department 

我們的抱負是提供世界級的污水和雨水處理排放服務，以促進香港的可持續發展。
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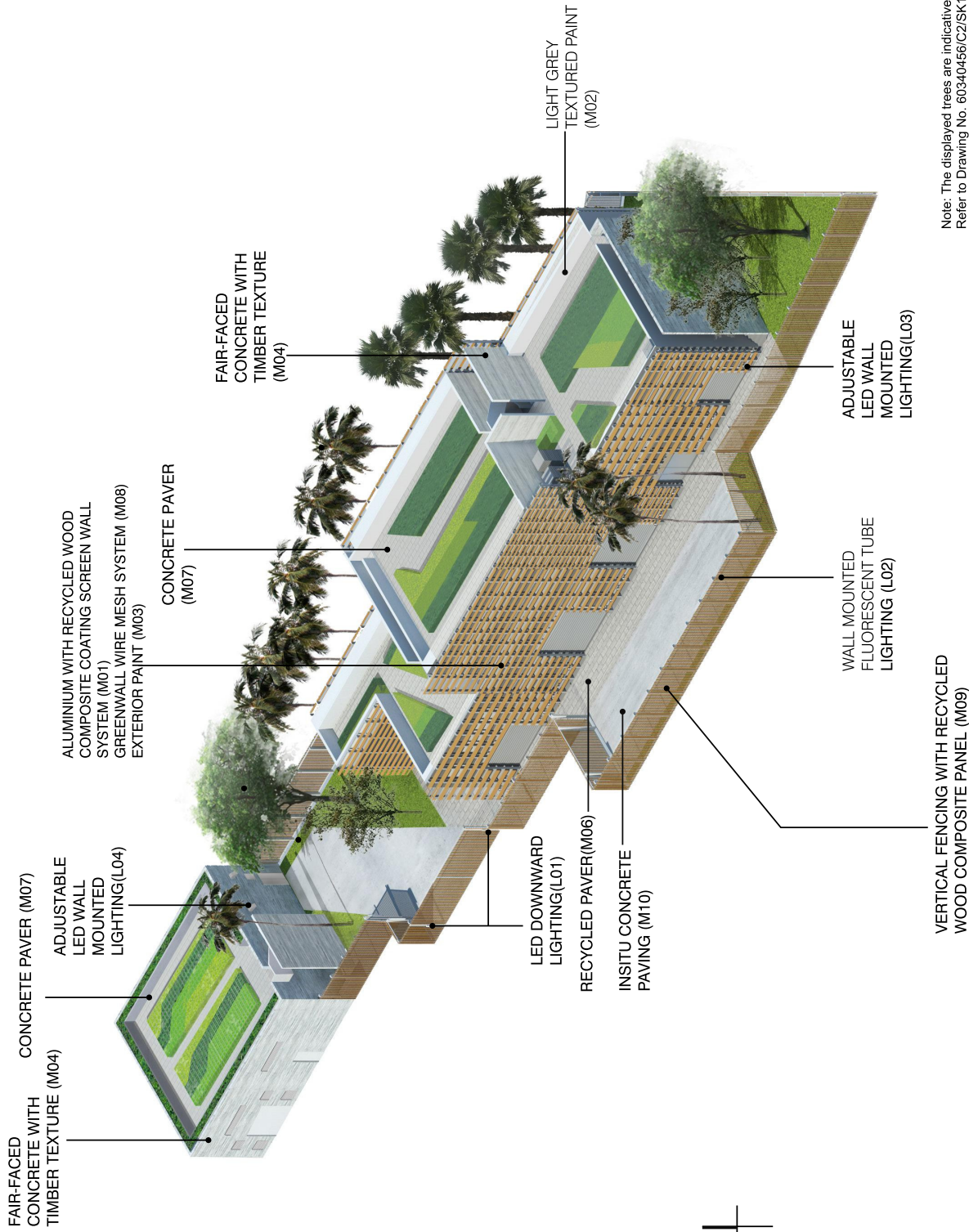
Appendix V

Hard Landscape Details for Sewage Pumping Station

2

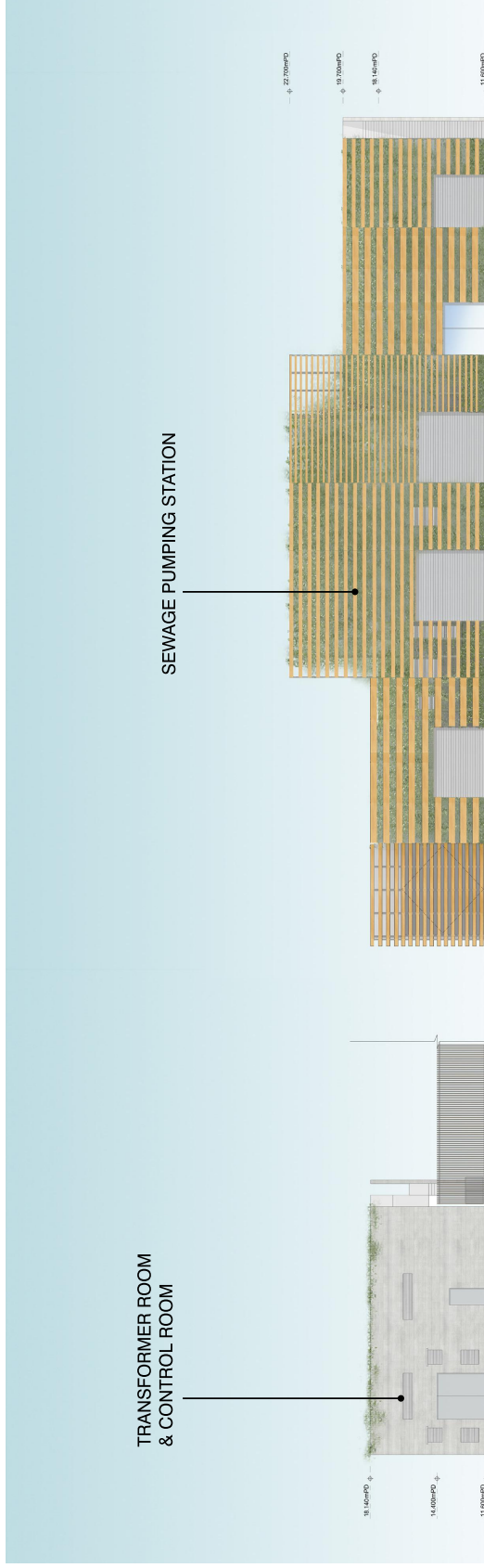
ARCHITECTURAL & LANDSCAPE DESIGN OF SEWAGE PUMPING STATION

General View



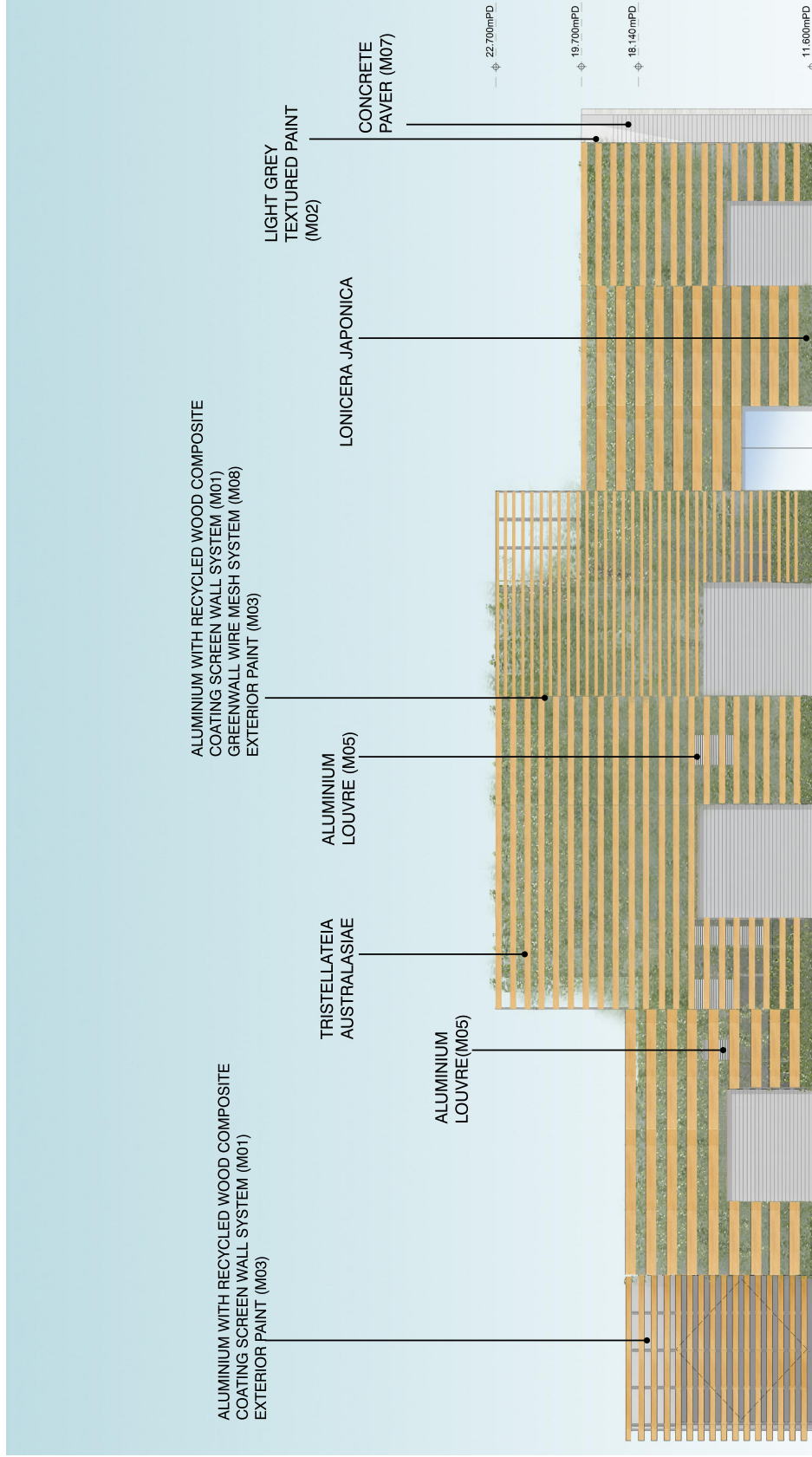
ARCHITECTURAL
& LANDSCAPE
DESIGN OF
SEWAGE
PUMPING STATION

Overall Elevation
(South)



ARCHITECTURAL
& LANDSCAPE
DESIGN OF
SEWAGE
PUMPING STATION

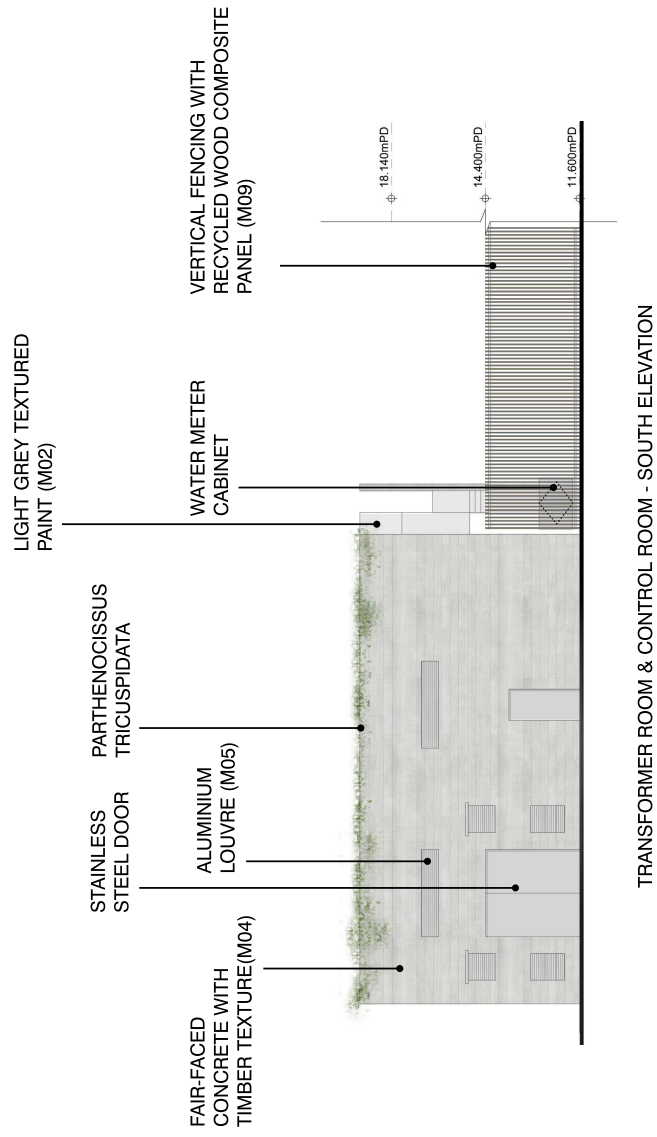
*Partial Elevation
(South)*



SEWAGE PUMPING STATION - SOUTH ELEVATION

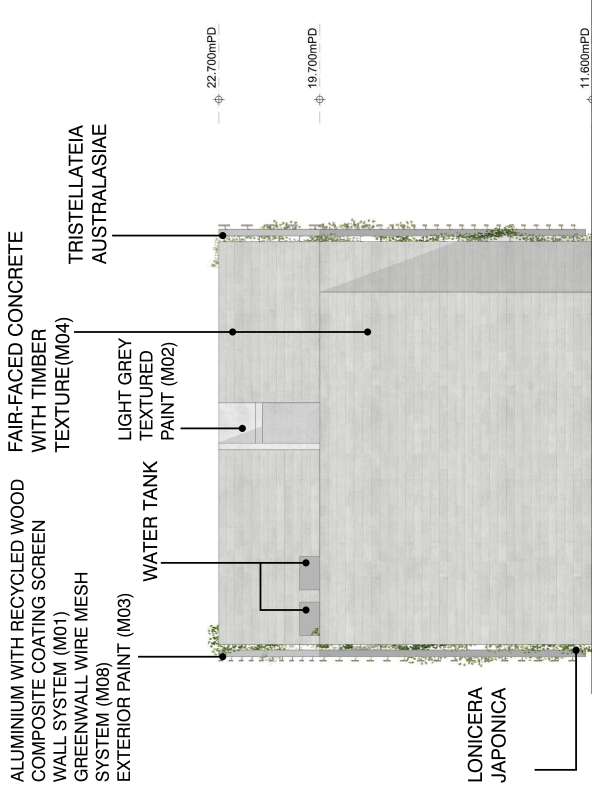
ARCHITECTURAL
& LANDSCAPE
DESIGN OF
SEWAGE
PUMPING STATION

*Partial Elevation
(South)*

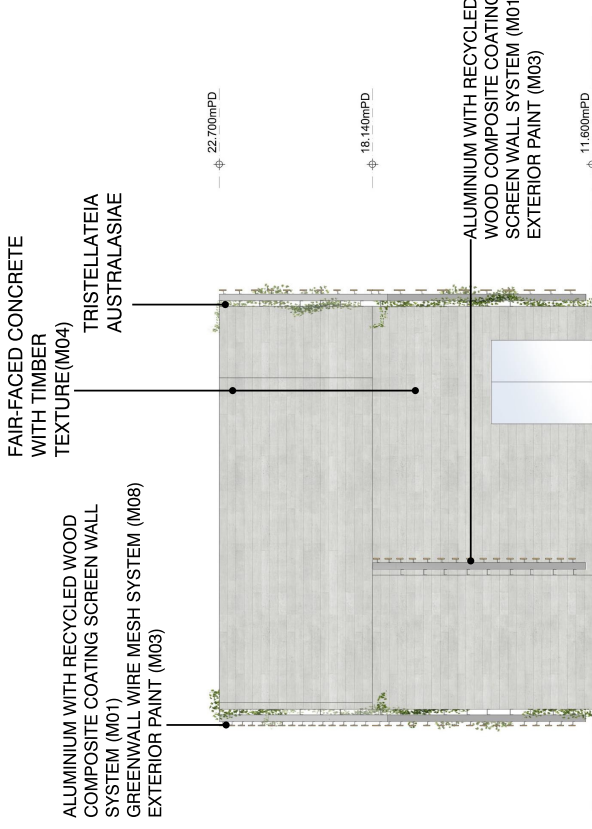


TRANSFORMER ROOM & CONTROL ROOM - SOUTH ELEVATION

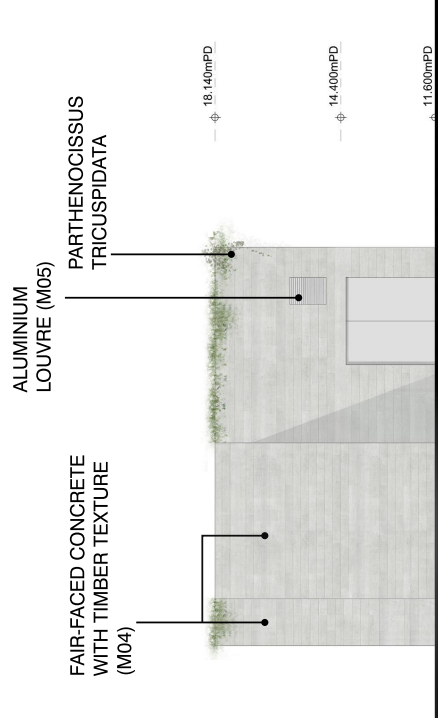
ARCHITECTURAL
& LANDSCAPE
DESIGN OF
SEWAGE
PUMPING STATION
Elevations
(East & West)



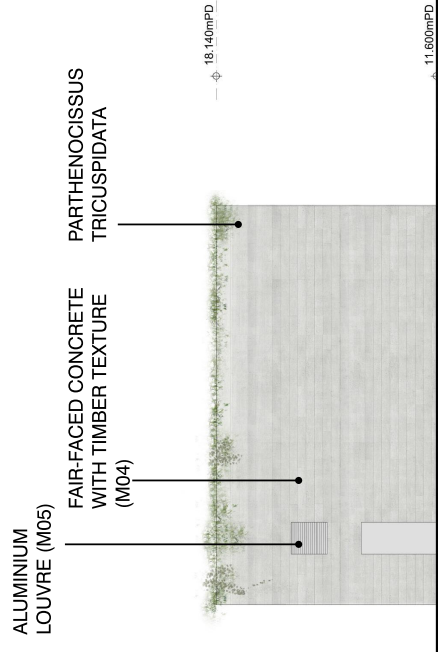
SEWAGE PUMPING STATION - EAST ELEVATION



SEWAGE PUMPING STATION - WEST ELEVATION



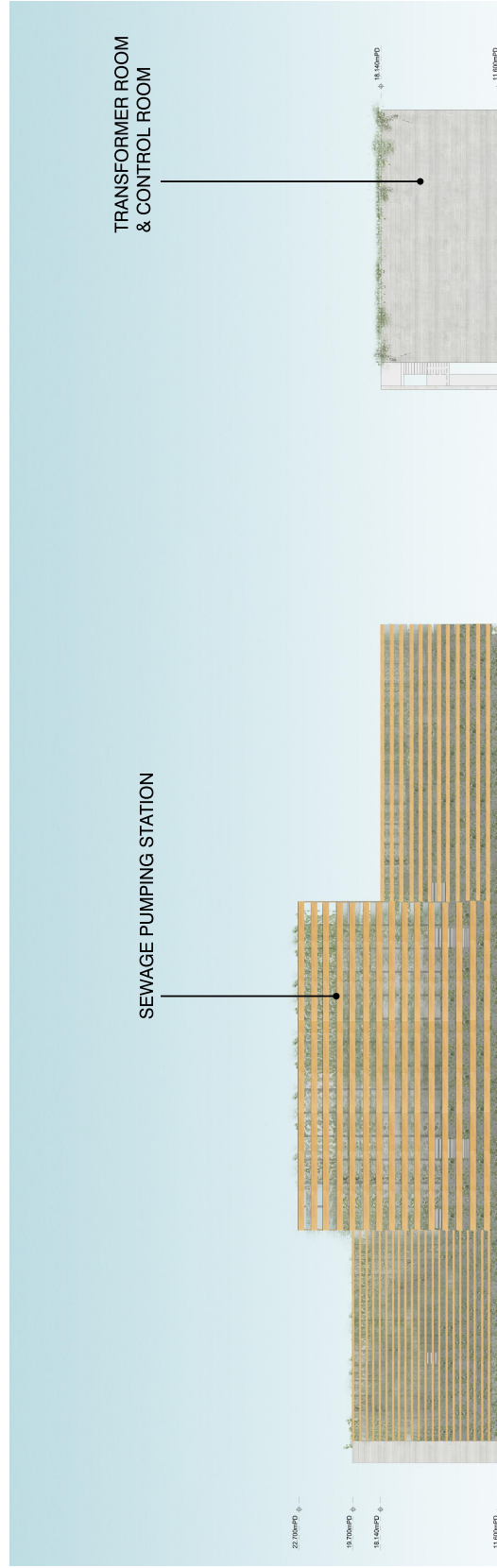
TRANSFORMER/CONTROL ROOM - EAST ELEVATION



TRANSFORMER/CONTROL ROOM - WEST ELEVATION

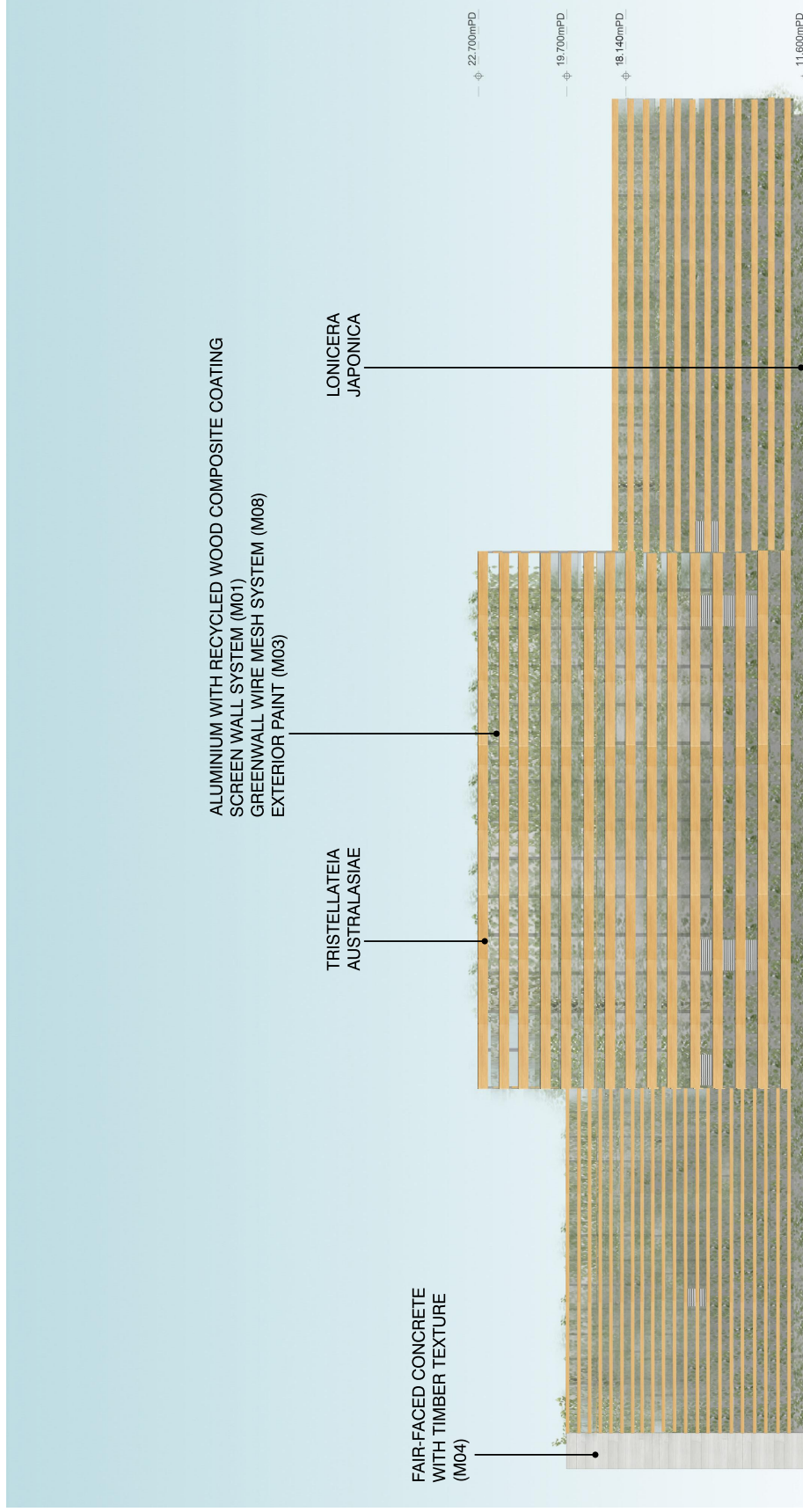
ARCHITECTURAL
& LANDSCAPE
DESIGN OF
SEWAGE
PUMPING STATION

Overall Elevation
(North)



ARCHITECTURAL
& LANDSCAPE
DESIGN OF
SEWAGE
PUMPING STATION

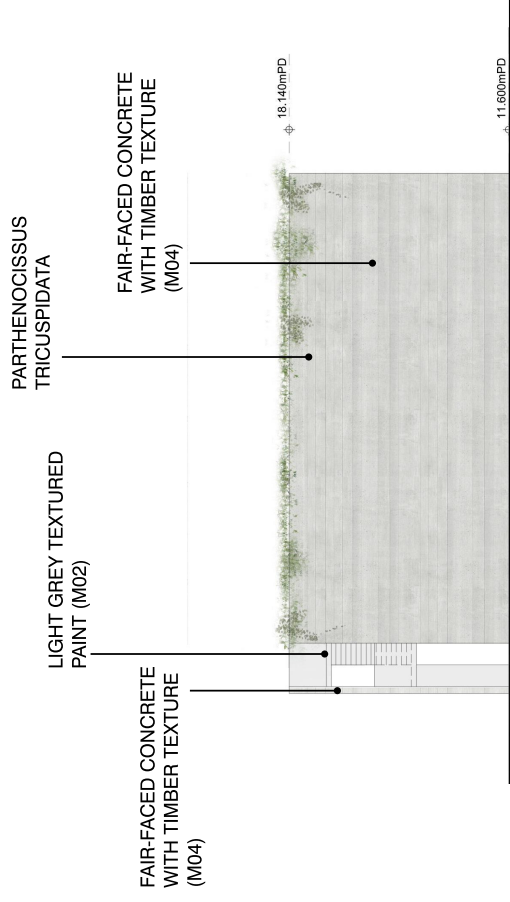
*Partial Elevation
(North)*



SEWAGE PUMPING STATION - NORTH ELEVATION

ARCHITECTURAL
& LANDSCAPE
DESIGN OF
SEWAGE
PUMPING STATION

Partial Elevation
(North)



TRANSFORMER ROOM & CONTROL ROOM - NORTH ELEVATION

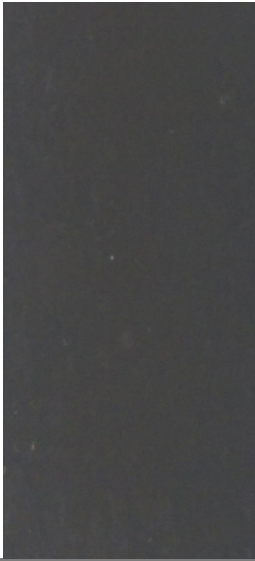
Proposed Materials



M01



M02



M03



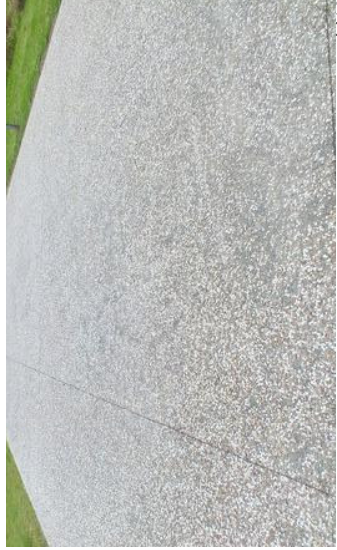
M04



M05



M06



M10



M07



M08



M09



L03



L04



L02



L01

- Materials
- M01 Aluminium with recycled wood composite coating screen wall system
 - M02 Light grey textured paint
 - M03 Exterior paint
 - M04 Fair-faced concrete with timber texture
 - M05 Aluminium louvre
 - M06 Recycled paver
 - M07 Concrete paver
 - M08 Greenwall wire mesh system
 - M09 Recycled wood composite panel
 - M10 In situ concrete paving
- Lighting Fixture
- L01 LED downward lighting
 - L02 Wall mounted fluorescent tube lighting
 - L03 Adjustable LED wall mounted lighting
 - L04 Adjustable LED wall mounted lighting

Specifications of Major

Building Materials

Code	Material	Color	Description	Application Location	Supplier Info for Reference Only
M01	Aluminium with recycled wood composite coating screen wall system	Sandy brown	200mm / 80mm x 30mm thick & 120mm wide x 35mm thick panel with aluminium section core. End cap provided at edge exposed panels.	Exterior wall of pumping station building (long elevations of SPS)	Greenitns Technology (Int'l) Ltd www.greenitns.com Tel: 2866 2683
M02	Exterior texture paint	Light grey FN-75	"Compo Silicon W" series proprietary coating system with skim coat & small mount texture finish JB-0088-14 (TL)	Staircase balustrade and parapet (roof planter)	SKK(HK) Co Ltd www.skkhk.com.hk Tel: 2529 3968
M03	Exterior paint	Dark grey FN-45	"Compo Silicon W" series proprietary coating system with skim coat	Exterior wall of pumping station building (long elevations of SPS)	SKK(HK) Co Ltd www.skkhk.com.hk Tel: 2529 3968
M04	Timber textured off-form fair-faced concrete (insitu)	Concrete original color & transparent primer	Concrete grade to be proposed by contractor. Formwork with "canadian douglas fir" wood plank, grading to the satisfaction of Architects. Plank size: 127-160x3600mm, with bevelled edge; Tie bolt at approx. 800x800mm c/c; top coat with proprietary water based penetrative type water repellent coating system: "Cerami Crete", or equivalent.	Exterior wall of transformer room, control room, partial fence wall, east and west facing facade of SPS	Fairfaced concrete insitu works by contractor; Water repellent system by: SKK(HK) Co Ltd www.skkhk.com.hk Tel: 2529 3968
M05	Aluminium louvre	Dark grey (to match M03)	Aluminium alloy 3005 to BS 1470, single bank louvre having louver blades at 50mm pitch, front louver blades clipped to structural supporting mullion to allow expansion and contraction. Mullions shall be concealed at 1250mm maximum centres and their points of support along their length shall be in accordance with prevailing site wind pressures in accordance with BS 6399 part 2, manufactured from 2mm sheet so that associated support steelwork is reduced to minimum. Cill and frames shall contain all peripheral fixings and be manufactured from 1.6mm sheet. Aerodynamic coefficient to EN 13030:2001, Airtel:0.43, Air extract:0.38 weathering classified EN13030:2001 ClassD1, louver system shall be drained internally through hollow section vertical mullions which shall discharge water onto cill.	Exterior wall of SPS	Colt Int'l Ltd. www.coltgroup.com Reference to Colt: Double Bank Universal Louver
M06	Recycled paver	Medium grey CGY404GH	Eco-Glass paving block: 100x200mm; 60mm thick; grade 30/10 : to BS6073:PT 1 with recycled glass cullet (at least 20-25% by weight of aggregates) materials	Ground floor pavement (outside building)	TIOSTONE Environmental Limited www.tiostone.com Tel: 2669 8222
M07	Concrete paver	Grey-0000	100x200mm; 60mm thick	Roof top pavement, staircase	Concord Holdings (HK) Ltd www.hk-concord.com Tel: 2786 0878
M08	Greenwall wire mesh system	Grade 316 stainless steel	components include 50mm dia. mounting (SS-A-01), connector (SS-A-02), holder (SS-A-03), 4mm dia. wire (SS-A-04)	Exterior wall of pumping station building (long elevations of SPS)	Greenitns Technology (Int'l) Ltd www.greenitns.com Tel: 2866 2683
M09	Recycled wood composite panel	Sandy Brown	100mm x 2790mm x 15mm thick	Fence wall	Greenitns Technology (Int'l) Ltd www.greenitns.com Tel: 2866 2683
M10	Insitu concrete paving	medium grey	Insitu concrete paving shall be constructed in accordance with Structural Concrete Work - Section 6 or if so specified in accordance with Concrete for Minor and Non-structural Works - Section 8.	Parking area	-

Appendix VI

Soft Landscape Details for Sewage Pumping Station

Photographs of
Planting Species



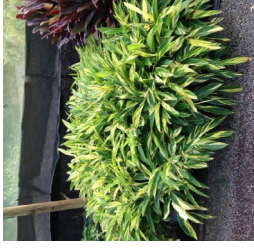
Loropetalum chinense var. *rubrum*
紅花繼木 (Shrubs, Evergreen)



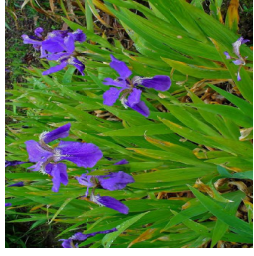
Ficus microcarpa cv. *golden leaves*
黃金榕 (Shrubs, Evergreen)



Hymenocallis littoralis
蜘蛛蘭 (Shrubs, Evergreen)



Alpinia zerumbet
薑山薑 (Shrubs, Evergreen)



Iris tectorum
鸞尾 (Shrubs, Evergreen)



Lonicera japonica
忍冬 (Climber, Evergreen)



Schefflera arboricola
八角木 (Shrub, Evergreen)



Chrysalidocarpus lutescens
散尾葵 (Tree, Evergreen)



Bombax ceiba
木棉 (Tree, Deciduous)



Archontophoenix alexandrae
假棕櫚 (Palm, Evergreen)



Ilex rotunda
鐵冬青 (Tree, Evergreen)



Elaeocarpus sylvestris
山杜英 (Tree, Evergreen)



Parthenocissus tricuspidata
爬牆虎 (Climber, Deciduous)



Arachis duranensis
蔓花生 (Groundcover, Evergreen)



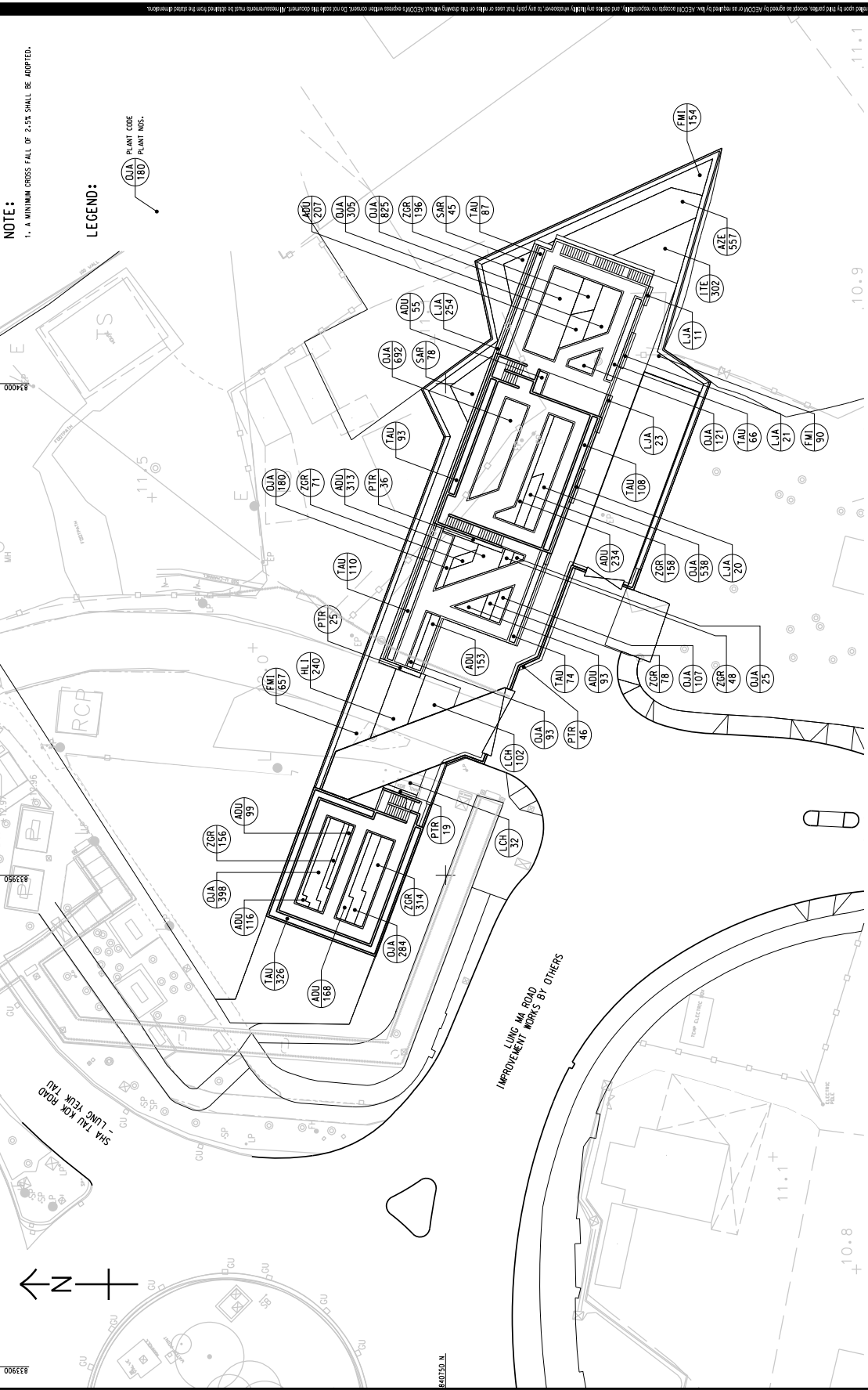
Zephyranthes grandiflora
風雨花 (Groundcover, Evergreen)



Ophiopogon japonicus
沿階草 (Groundcover, Evergreen)



Tristellateia australasica
三星果藤 (Climber, Evergreen)



AECOM
PROJECT

INFRASTRUCTURAL WORKS FOR
PROPOSED DEVELOPMENTS AT
QUEEN'S HILL FANLING
INVESTIGATION, DESIGN
AND CONSTRUCTION

CONTRACT TITLE
QUEEN'S HILL DEVELOPMENT -
SEWAGE PUMPING STATION WORKS

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KEY PLAN

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Figure 4

PLANTING SCHEDULE

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT(H) x SPREAD (S)	HEIGHT (m)	SPACING (mm)	NO./ m ²	QUANTITY
SAR	SCHIEFFELERA ARBORICOLA	八寶木	500(H) x 500(S)	500	400	7.25	123
LCH	LOROPETALUM CHINENSE F. RUBRUM	紅花檉木	500(H) x 500(S)	500	400	7.25	134
FMI	FICUS MICROCARPA CV. GOLDEN LEAVES	黃金榕	500(H) x 500(S)	500	400	7.25	901
HLJ	HYMENOCALLIS LITTORALIS	垂絲菊	500(H) x 500(S)	500	300	12.5	240
AZE	ALPINTIA ZERUMBERT	壽山薑	500(H) x 500(S)	500	300	12.5	557
ITE	IRIS TECTORUM	薔花	500(H) x 500(S)	500	300	12.5	302

PLANTING SCHEDULE

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT(H) x SPREAD (S)	HEIGHT (m)	SPACING (mm)	NO./ m ²	QUANTITY
OJA	OPHIPOGON JAPONICUS	滑精草	250(H) x 250(S)	250	200	29	3568
ZGR	ZEPHYRANTHES GRANDIFLORA	風鈴花	250(H) x 250(S)	250	200	29	1021
ADU	ARACHIS DURANENSIS	蔓花生	250(H) x 250(S)	250	200	29	1438
CLIMBER							
PTR	PARTHENOCISSUS TRICUSPIDATA	爬樹龍	300(H) x 300(S)	300	300	12.54	126
TAU	TRISTELATEIA AUSTRALASIAE	三星果藤	300(H) x 300(S)	300	300	12.54	864
LJA	LONICERA JAPONICA	忍冬	300(H) x 300(S)	300	300	12.54	329

Appendix VII

Implementation Schedule for Landscape and Visual Mitigation Measures

Relevant Mitigation Measures	Colour/ Type	Location	Location Reference from Appendix	Photo Reference from Appendix	Relevant Section of Plan	Funding and Implementation Agency	Time of Commencement and Completion	Duration of Maintenance Responsibility (DLP)	Maintenance Parties / Agents after DLP	
<p>Architectural treatment for the proposed SPS (OM1) Aesthetically pleasing design as regard to the form, material and finishes shall be incorporated to proposed SPS to blend in the structures to the adjacent landscape and visual context.</p>	Aluminium with recycled wood composite coating screen wall system	Sandy Brown	Exterior wall of pumping station building (long elevations of SPS)	Appendix V General View, M01	Appendix V Proposed Materials	Refer to Section 3.3 for design details and Appendix V details of the hard landscape.	China Geo-Engineering Corporation	31/08/2020 26/11/2020	365 Days after Completion Date	DSD/ST1 (Management) DSD/HK&I (BCM) (Maintenance)
	Exterior texture paint	Light Grey FN-75	Staircase balustrade and parapet (roof planter)	Appendix V General View, M02	Appendix V Proposed Materials					
	Exterior paint	Dark Grey FN-45	Exterior wall of pumping station building (long elevations of SPS)	Appendix V General View, M03	Appendix V Proposed Materials					
	Timber textured off-form fair-faced concrete (insitu)	Concrete original color & transparent primer	Exterior wall of transformer room, control room, partial fence wall; east and west facing facade of SPS	Appendix V General View, M04	Appendix V Proposed Materials					
	Aluminium louvre	Dark grey (to match M03)	Exterior wall of SPS	Appendix V Partial Elevation (South), M05	Appendix V Proposed Materials					
	Recycled paver	Medium grey CGY404GH	Ground floor pavement (outside building)	Appendix V General View, M06	Appendix V Proposed Materials					
	Concrete paver	Grey-0000	Roof top pavement, staircase	Appendix V General View, M07	Appendix V Proposed Materials					
	Greenwall wire mesh system	Grade 316 stainless steel	Exterior wall of pumping station building (long elevations of SPS)	Appendix V Elevations (East & West), M08	Appendix V Proposed Materials					
	Recycled wood composite panel	Sandy Brown	Fence wall	Appendix V General View, M09	Appendix V Proposed Materials					
	Insitu concrete paving	Medium Grey	Parking area	Appendix V General View, M10	Appendix V Proposed Materials					
	LED downward lighting	Aluminium	Fence gates of SPS	Appendix V General View, L01	Appendix V Proposed Materials					
	Wall mounted fluorescent tube lighting	Aluminium Grey	Fence wall and exterior walls of SPS	Appendix V General View, L02	Appendix V Proposed Materials					
	Adjustable LED wall mounted lighting	Aluminium	Ground floor pavement (outside building)	Appendix V General View, L03	Appendix V Proposed Materials					
Adjustable LED wall mounted lighting	Aluminium	Exterior walls of SPS	Appendix V General View, L04	Appendix V Proposed Materials						
<p>Greening for the proposed SPS (1) (OM2) Green Roof shall be proposed to the pumping station to enhance any potential adverse visual impact on adjacent visual sensitive receivers.</p>	Ophiopogon japonicus 沿階草	Ground cover	Roof planter	Appendix VI Figure 4	Appendix VI Photographs of Planting Species	Refer to Appendix VI for details of planting species.	China Geo-Engineering Corporation	31/08/2020 26/11/2020	365 Days after Completion Date	DSD/ST1
Zephyranthes grandiflora 風雨花	Ground cover	Roof planter	Appendix VI Figure 4	Appendix VI Photographs of Planting Species						
Arachis duranensis 蔓花生	Ground cover	Roof planter	Appendix VI Figure 4	Appendix VI Photographs of Planting Species						

Relevant Mitigation Measures	Colour/ Type	Location	Location Reference from Appendix	Photo Reference from Appendix	Relevant Section of Plan	Funding and Implementation Agency	Time of Commencement and Completion	Duration of Maintenance Responsibility (DLP)	Maintenance Parties / Agents after DLP	
<u>Greening for the proposed SPS (2) (CM3)</u> Vertical greening is proposed to key facade to soften the above ground structure.	Parthenocissus tricuspidata 爬墙虎	Climber	Along the short elevations exterior walls of SPS	Appendix VI Figure 4	Appendix VI Photographs of Planting Species	Refer to Appendix VI for details of planting species.	China Geo-Engineering Corporation	31/08/2020 26/11/2020	365 Days after Completion Date	DSD/ST1
	Tristellateia australasiae 三星果藤	Climber	Along the long elevations exterior walls of SPS	Appendix VI Figure 4	Appendix VI Photographs of Planting Species					
	Lonicera japonica 忍冬	Climber	Along the long elevations exterior walls of SPS	Appendix VI Figure 4	Appendix VI Photographs of Planting Species					
	Schefflera arboricola 八葉木	Shrub	Ground floor	Appendix VI Figure 4	Appendix VI Photographs of Planting Species					
	Loropetalum chinense var. rubrum 紅花繼木	Shrub	Ground floor	Appendix VI Figure 4	Appendix VI Photographs of Planting Species					
	Ficus microcarpa cv. golden leaves 黃金榕	Shrub	Ground floor	Appendix VI Figure 4	Appendix VI Photographs of Planting Species					
	Hymenocallis littoralis 蜘蛛蘭	Shrub	Ground floor	Appendix VI Figure 4	Appendix VI Photographs of Planting Species					
	Alpinia zerumbet 豔山薑	Shrub	Ground floor	Appendix VI Figure 4	Appendix VI Photographs of Planting Species					
	Iris tectorum 鸚尾	Shrub	Ground floor	Appendix VI Figure 4	Appendix VI Photographs of Planting Species					
<u>Conservation of trees (CM1)</u> Trees to be unavoidably affected shall be considered for transplanting where possible making reference to the latest Guidelines on Tree Transplanting issued by GLTM Section of DevB.	Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC(W) No. 10/2013.	No tree transplantation is proposed.	No tree transplantation is proposed.	No tree transplantation is proposed.	No tree transplantation is proposed.	Refer to Section 4 for approved planting proposal.	No tree transplantation is proposed.	No tree transplantation is proposed.	N/A	CEDD/ PU (During construction)
<u>Compensatory Planting for loss of existing trees (CM2)</u> Compensatory planting within the project boundary has been prepared in accordance with DEVB TC(W) No. 10/2013.	Chrysalidocarpus lutescens 散尾葵	Palm Tree	Ground floor			Refer to Section 4 for approved planting proposal and Appendix III for planting plan	China Geo-Engineering Corporation	31/08/2020 26/11/2020	365 Days after Completion Date	DSD/ST1
	Archontophoenix alexandrae 假檳榔	Palm Tree	Ground floor							
	Elaeocarpus sylvestris 山杜英	Native Broadleaf Tree	Ground floor							
	Ilex rotunda 鐵冬青	Tree	Ground floor							
	Bombax ceiba 木棉	Tree	Ground floor							
<u>Control of night-time lighting glare (CM3)</u> Night-time lighting glare shall be properly managed and control during construction so as to minimize any adverse visual impact on adjacent VSRs.	Lighting equipment would be carefully positioned to avoid the directions towards residents. Quantity of the site lightings at night would be minimized with optimized luminosity.	No site lighting is proposed at night. No lighting glare would be omitted.	No lighting glare would be omitted at night.	N/A	N/A	Refer to Section 5.3.1.	N/A	N/A	N/A	N/A

Relevant Mitigation Measures	Colour/ Type	Location	Location Reference from Appendix	Photo Reference from Appendix	Relevant Section of Plan	Funding and Implementation Agency	Time of Commencement and Completion	Duration of Maintenance Responsibility (DLP)	Maintenance Parties / Agents after DLP
<p><u>Erection of decorative screen hoarding compatible with the surrounding setting around the proposed SPS (CM4)</u></p> <p>The erection of coloured water-filled barrier can delineate the extent of construction site clearly. The water-filled barrier is more flexible be moved to the designated location, especially at the locations of the site entrance/exit which could be frequently relocated to suit the site condition. In addition, the water-filled barrier could be linked without gap even at the entrance/exit which provides linear coloured barriers surrounding the SPS during the construction period. Moreover, the hoarding usually made of steel panel would be founded with concrete footing and it would susceptible to rusting over a period. It cannot be easily be replaced and the deteriorated steel panel would be disposed off as metal scrap to landfill site. However, the water-filled barrier can be easily maintained in good condition that any defective water-filled barrier could be more easily replaced by a new one. The damaged water-filled barrier can be recovered for recycling. Furthermore, the colour of the water-filled barrier would effectively prevent the sight from the construction site being intruded to the nearby VSRs as it would be dominant in the field of view from</p>	Water filled barriers of 1.7m high in red colour with white panel on top were erected surrounding the SPS	Around the boundary of the SPS	Appendix I Figure 1	N/A	Refer to Section 5.3.1.	China Geo-Engineering Corporation	04/01/2017 29/12/2020	N/A	N/A
<p><u>Management of facilities on work sites which give control on the height and disposition/arrangement of all facilities on the works site to minimize visual impact to adjacent visual sensitive receivers. (CM5)</u></p> <p>The contractor frequently maintains the site in a neat and tidy state during construction to minimize visual impacts. The contractor was encouraged to delineate clearly the zones for material stockpiling, material lifting operation and waste management during the construction period. The height of the stockpiling material is restricted to be lower than the height of water-filled barrier. In addition, the erection of green nets for the entire temporary working platform surrounding the SPS under construction also prevent the construction works from intruding into the VSRs and minimize the visual impact of the construction works to the surrounding. Regular site inspection was conducted to ensure the exposed soil stockpile covered by tarpaulin sheet. The plant operators were also advised to lower the arm of excavator as far as practicable after use during the regular site inspection. Furthermore, frequent liaison with nearby villagers was made to ensure no complaint in relation to the visual impact from the construction works was received during the construction stage.</p>	N/A	Within the construction site of SPS	N/A	N/A	Refer to Section 5.3.1.	RSS/China Geo-Engineering Corporation	04/01/2017 29/12/2020	N/A	CEDD/ PU (During construction)

Appendix VIII

Landscape and Visual Mitigation Measures Plan

LEGEND 圖例:

- Site Boundary 工地邊界
- Proposed Vertical Greening 擬設垂直綠化
- Proposed Green Roof 擬設綠化屋頂
- Foot Path 行人徑
- Car Parking Area (Grasscrete) 停車場 (鋪砌草面物料)
- Shrub/Ground Cover 灌木 / 鋪地植物
- Palm Tree Planting 棕櫚樹種植



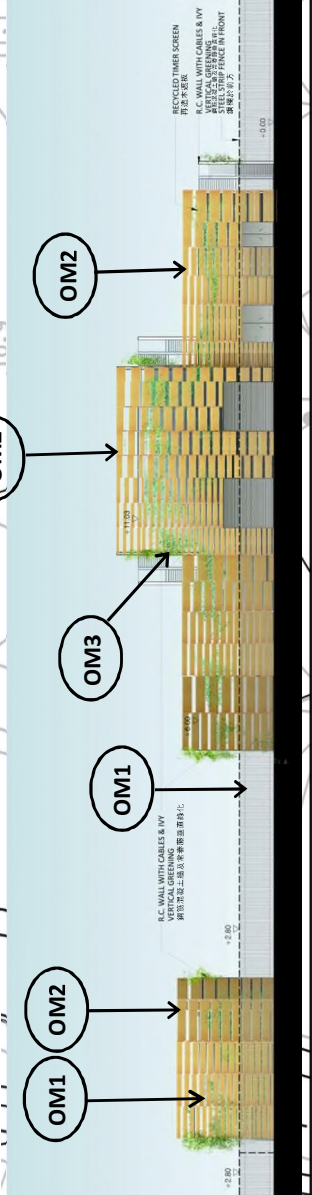
Note: The displayed trees are indicative only. Refer to Figure 3 in Appendix III for the approved tree planting plan (OM4).

Mitigation Measures during Construction Phase 施工期間的緩解措施

CM1	Trees to be unavoidably affected shall be considered for transplanting where possible making reference to the latest Guidelines on Tree Transplanting issued by GLTM Section of DevB 應參照發展局綠化、園境及樹木管理組最新的移植樹木指引考慮盡量移植不可避免地影響的樹
CM2	Compensatory planting shall be provided in accordance with DEVB TC(W) No. 10/2013 - Tree Preservation 依照發展局 TC(W) No. 10/2013—樹木保護法進行補償種植
CM3	Control of night-time lighting glare 夜間強光照明控制
CM4	Water filled barriers with hoarding shall be erected at 工程項目邊界豎立一些水馬和工地圍板

Mitigation Measures during Operational Phase 營運期間的緩解措施

OM1	Aesthetically pleasing design as regard to the form, material and finishes shall be incorporated to the proposed SPS so as to blend in the structures to the adjacent landscape and visual context. 擬建皇后山污水泵房的形式、建築物料和飾面應配合美學設計，以使新建建築物能融入周邊環境和減少對周邊景觀及視覺的不良影響
OM2	Green roof shall be proposed to the pumping station to minimize any potential adverse visual impact on adjacent VSRS. 污水泵房應納入綠化屋頂的設計，以減少對周邊視覺敏感的地方的不良影響。
OM3	Vertical greening is proposed to key facade to soften the above ground structure. 建議於主要建築物外牆以至垂直綠化柔化地面建築物。
OM4	Palm tree planting to soften the development edge 種植棕櫚樹以柔化發展範圍的邊緣



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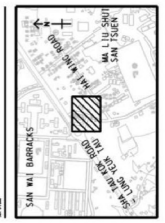
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PROJECT NO. 60340456
CONTRACT NO. CE 63/2014 (CE)
SHEET TITLE Landscape and Visual Mitigation Measures Plan 景觀及視覺緩解措施
SHEET NUMBER 60340456/PP/FIGURE 5.1

Appendix IX

Approval from Landscape Unit of Drainage
Services Department on VCAB Submission

re1

寄件者: lhhoi@dsd.gov.hk
寄件日期: 2016年8月24日 星期三 16:19
收件者: cclee@dsd.gov.hk; hskan@dsd.gov.hk; kltsang@dsd.gov.hk; michael.fong@dsd.gov.hk; rickyli@dsd.gov.hk; yiuwingchung@dsd.gov.hk
副本: fionafong@cedd.gov.hk; hltsang@dsd.gov.hk; Yeung, Ray
主旨: Re: VCAB: STAGE 2 Report - Agreement No. CE63/2014 - Queens Hill SPS
附件: QHSPS landscape drawings.pdf; VCAB revised stage 2 RtC_20160823.pdf

Dear Chairman and Committee Members,

Further to the comments given to the Project Proponent on the submission of Stage 2 VCAB Proposal, the Project Proponent submits the revised drawings with R to C for comment and approval.

The revised drawings and R to C are attached for your review. Please provide your comment directly to Ms. Fiona Fong - Engr/7 (Email: fionafong@cedd.gov.hk) on or before 5 September 2016 if any.

Landscape Unit of DSD has no adverse comment on the revised drawings and R to C.

Regards,
Stanley Hoi
LA/HQ2, DSD
T 2594 709

From: LH HOI/HQS/DSD/HKSARG
To: Chiu Chun LEE/DSD/HKSARG@DSD, HS KAN/DSD/HKSARG@DSD, KL TSANG/DSD/HKSARG@DSD, michaelfong@dsd.gov.hk, Ricky CL LI/DSD/HKSARG@DSD, Yiu Wing CHUNG/DSD/HKSARG@DSD,
Cc: fionafong@cedd.gov.hk, HL TSANG/HQS/DSD/HKSARG@DSD
Date: 21/07/2016 10:01
Subject: VCAB: STAGE 2 Report - Agreement No. CE63/2014 - Queens Hill SPS

Dear Chairman and Committee Members,

The project proponent submits the STAGE 2 VCAB Proposal of the captioned project subsequent to the first submission on 27 Jan 2016 (38th VCAB meeting).

The STAGE 2 VCAB Proposal is now saved under [Division Share Drive - Folder name: 20160718 STAGE 2 REPORT-Agreement no CE63 2014-Queens Hill SPS](#) for review. Please provide your comment directly to Ms.Fiona Fong - Engr/7 (Email: fionafong@cedd.gov.hk) by 1 August 2016 if any.

LU's comment related to landscape design issue will be given to the project proponent separately.

Regards,
Stanley Hoi
LA/HQ2, DSD
T 2594 709