

**Extension of Ma On Shan Salt Water Service Reservoir –
Construction of Ma On Shan No.3
Salt Water Service Reservoir**

Project Profile

**Design Division
Water Supplies Department**

(September 2007)

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1. BASIC INFORMATION

1.1 Project Title

Extension of Ma On Shan Salt Water Service Reservoir – Construction of Ma On Shan no. 3 Salt Water Service Reservoir.

1.2 Purpose and Nature of the Project

The project is the extension of Ma On Shan salt water service reservoir, namely, Ma On Shan No. 3 salt water service reservoir. A service reservoir will be constructed within the existing allocated land for Ma On Shan salt water service reservoir to increase the total capacity of the existing salt water service reservoir by 1200 m³.

The project is part of the proposed upgrading of Sha Tin salt water supply system to cope with the increase of population in Sha Tin and the adjacent area. Apart from this project, the upgrading of Sha Tin salt water system comprises upgrading of Sha Tin seafront salt water pumping station and Sha Tin salt water booster pumping station, laying of new water mains in Sha Tin areas and reconstruction of To Shek salt water service reservoir.

1.3 Name of Project Proponent

Water Supplies Department (WSD).

1.4 Location and Scale of Project and History of Site

The project falls within WSD's permanent Government Land Allocation for the Ma On Shan salt water service reservoir. The area is zoned "Government, Institution or Community" ("GI/C") on the Ma On Shan Outline Zoning Plan no. S/MOS/13 (the MA On Shan OZP). This area also falls within Ma On Shan Country Park and is at the edge of the country park. The project location plan is shown in [Figure 1](#). The perspective of the project is shown on the diagram at [Figure 2](#).

The salt water service reservoir was approved under the Country Parks Ordinance in 1983. A copy of the approval memo is shown in [Appendix A](#). The approved location and layout of the service reservoir is shown in [Figure 3](#). WSD's planned capacity for the service reservoir was 5500 m³ in 1985.

The updated capacity and year of commissioning of different stages of the service reservoir are as follows:

	<u>Capacity</u>	<u>Year of commissioning</u>
Stage I (namely, Ma On Shan salt water service reservoir)	3350 m ³	1994

Stage II (namely, Ma On Shan No. 2 salt water service reservoir)	1400 m ³	2002
Stage III (namely, Ma On Shan No. 3 salt water service reservoir)	1200 m ³	2011

Ma On Shan No. 3 salt water service reservoir, as stage III of the service reservoir, has a dimension of 19.9m x 21.3m and storage capacity of 1200 m³. The resulting total capacity of the service reservoir is 5950 m³.

The currently proposed layout is an updated layout due to topographical constraint (a stream present at the north of the existing salt water service reservoir) in providing the extension adjacent to the existing Ma On Shan No.2 salt service reservoir. It deviates from the original layout approved under the Country Parks Ordinance in 1983. To cater for this, a memo of no objection in principle to the extension works has been obtained from Country and Marine Parks Authority in July 2007. The no-objection memo is shown in Appendix B.

1.5 Number and Type of Designated Project Covered by the Project Profile

The salt water service reservoir falls within Ma On Shan Country Park and was approved under the Country Parks Ordinance in 1983. It is a designated project as defined under Q.1 of Part I of Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) and is exempted from the provisions of the EIAO pursuant to s.9(2) of the Ordinance.

The layout of proposed extension of Ma On Shan salt water service reservoir deviates from the approved layout in 1983. The location slightly encroaches into a piece of woodland in the country park, and tree felling will be involved. In this regard, the proposed extension works constitutes a material change to an exempted designated project, and an environmental permit is therefore required for construction and operation.

1.6 Name and Telephone Number of Contact Person(s)

Mr H Y Chow, Senior Engineer/Design (3), Water Supplies Department
Tel no. 2829 4471
Fax no. 2824 0578

Mr Thomas Chung, Engineer/Design (13), Water Supplies Department
Tel no. 2829 4476
Fax no. 2824 0578

2. OUTLINE OF PLANNING AND IMPLEMENTATION PROGRAMME

2.1 Responsibilities of Parties

WSD is the Project Proponent with overall responsibility for planning, design, construction and operation of the Project. Engineering design and supervision of construction work will be undertaken by in-house staff of WSD. Construction work will be implemented by a contractor to be appointed by WSD.

2.2 Project Time Table

The targeted key dates for the construction of Ma On Shan No.3 salt water service reservoir are as follows:

Finalization of engineering design and tendering for construction	Nov 2007
Commencement of construction work	Feb 2008
Completion of construction	Feb 2011

2.3 Interactions with Other Projects

There are no other projects likely to interact with the construction of Ma On Shan No. 3 salt water service reservoir.

3. POSSIBLE IMPACT ON THE ENVIRONMENT

3.1 Introduction

The construction of Ma On Shan No.3 salt water service reservoir includes a new service reservoir of capacity 1200m³ together with ancillary structures and associated earthwork, pipework and drainage work.

3.2 Construction Phase

3.2.1 Air Quality

The likely air quality impact associated with the construction activities will be dust nuisance and exhaust emissions from construction plant and vehicles. They can be reduced substantially with the use of suitable equipment.

3.2.2 Noise

During construction stage, noise will be generated from the use of powered equipment in various construction activities such as site formation and concreting work. Noisy site activities such as percussive piling will not be involved. By adopting good site practice and noise management measures as described in Section 5.1.3, noise impact is expected to be insignificant. The additional traffic generated during construction will be minimal and will not impose adverse noise impact.

3.2.3 Water Quality

During construction, site runoff and drainage and sewage from on-site construction workforce may have water quality impact on the environment. The impact on water quality will be temporary and small and can be alleviated through good site management practice and standard pollution control measures.

3.2.4 Waste

Waste will be generated during the construction phase of the project. Waste material comprises excavated material, construction and demolition materials and general refuse. However, the amount is small.

3.2.5 Visual Appearance and Landscape

During the construction phase, the presence of construction plants, stockpiled materials and on site construction activities will be the potential sources of unsightly visual appearance. However, this visual impact is considered temporary, localised and minimal.

Trees will be felled at the proposed site of Ma On Shan No.3 salt water service reservoir during construction. Such landscape impact, however, could be mitigated by compensatory planting, transplanting and landscaping works as detailed in Section 5.1.6.

3.2.6 Ecology

The project site is a vegetation area within WSD's permanent Government Land Allocation for the salt water service reservoir. We have visited the site several times. No mammals, birds, amphibians and reptiles were observed on site during the visits. Furthermore, we did not observe any butterfly or dragonfly. Given the paucity of fauna and presence of access road beside the proposed site, impact to fauna is considered to be negligible.

In view of the small scale construction activities of Ma On Shan No.3 salt water

service reservoir and the location being at the edge of the country park, the impact to ecology during the construction phase will be insignificant and the proposed work will not disturb linkage with higher value habitats (uphill towards the core of the country park).

Moreover, a memo of no objection in principle to the proposed extension works has been obtained from Country and Marine Parks Authority in July 2007.

3.2.7 Cultural Heritage

There are no archaeological features near the proposed site of Ma On Shan No.3 salt water service reservoir.

3.3 Operation Phase

3.3.1 Air Quality, Noise and Waste

The service reservoir does not involve any air emission, noise or waste sources. The potential air quality, noise and waste impact during the operation phase will be minimal, and no adverse environmental impact is envisaged.

3.3.2 Water Quality

Washwater will be generated from cleansing of the service reservoir which is an infrequent activity. There is no difference from the operation of the existing service reservoir. Washwater will be treated and discharged to comply with the Water Pollution Control Ordinance (WPCO).

3.3.3 Landscape and Visual Appearance

The site character after the extension work will be similar to the existing one. There will be loss of tree resulting from the construction of Ma On Shan No.3 salt water service reservoir. Such impact could be mitigated by compensatory planting and landscaping works. Details of proposed mitigation measures are described in Section 5.1.6.

A total of 238 trees were surveyed within the site boundary. The site is dominated by *Acacia auriculiformis* and *Dalbergia balansae* species. Other tree species found on site include *Acacia confusa*, *Hibiscus tiliaceus*, and *Macaranga tanarius*, which are all common plant species. A total of 87 trees need to be removed due to site formation work and construction of the service reservoir. Of these 87 trees, 59 trees are proposed to be transplanted to the Sha Tin Sewage Treatment Works (STSTW) for landscape enhancement of the STSTW site. Landscaping works will be carried out at

the service reservoir after completion of construction works. Appendix C shows the information and details of the trees to be affected.

4. MAJOR ELEMENTS OF THE SURROUNDING ENVIRONMENT

4.1 Existing and Planned Sensitive Receivers and Sensitive Parts of the Natural Environment

Ma On Shan No.3 salt water service reservoir is situated beside Ma On Shan Bypass (Trunk Road T7) and encroaches into the edge of Ma On Shan Country Park. The existing woodland of the Country Park is the major natural surrounding environment. However, the trees within and adjacent to the construction site are *Acacia auriculiformis* and *Dalbergia balansae* species which are commonly found in Hong Kong. The location of the proposed site is situated away from picnic and sitting areas of Ma On Shan Country Park.

The nearest resident sensitive receiver to the site is Kam Ying Court, located about 150m to the north west of the site.

Another sensitive receiver is a small village community which is about 200m to the south west of the proposed service reservoir and topographically blocked from the site. Furthermore, Tai Pak Primary School located inside Kam Ying Court is about 250m away from the project site and topographically blocked from the site.

4.2 Major Elements of the Surrounding Environment which might Affect the Area in which the Project is Located

There are no pollution blackspots, industrial activities, noisy commercial activities, noisy or dusty open storage uses and potentially hazardous installations nearby.

5. ENVIRONMENTAL PROTECTION MEASURES TO BE INCORPORATED INTO THE DESIGN AND ANY FURTHER ENVIRONMENTAL IMPLICATIONS

5.1 Measures to be Incorporated in the Design

5.1.1 General

The site will be screened by temporary hoarding during construction phase. In all circumstances, the contractor will be required to avoid unnecessary damage to existing vegetation outside the proposed site.

5.1.2 Air Quality

Dust nuisance and exhaust emissions from construction plant and vehicles are unlikely to be the major concerns for the construction of the new service reservoir due to the limited extent of construction works and in view of relatively long distances from the existing sensitive receivers.

Pollution control measures will be incorporated in the Contract Specifications to minimise dust emissions and to keep dust level within the acceptable limit. The contractor will be required to abide by the relevant provisions of the Air Pollution Control Ordinance and its subsidiary legislation, including Construction Dust Regulations.

5.1.3 Noise

Noise control requirements as stipulated in the Noise Control Ordinance will be employed at the work site throughout the construction phase. The impact will be alleviated by the use of quiet construction methods and plant. Evening or night-time work is not expected.

In general, good site practice and noise management measures will considerably reduce the impact of construction activities on nearby noise sensitive receivers (NSRs). The following measures will be incorporated into the Contract Specifications:

- (i) Only well maintained plant will be operated on-site and plant will be serviced regularly during construction period;
- (ii) Machines and plants used intermittently will be shut down between work periods or will be throttled down to a minimum;
- (iii) Silencers or mufflers on construction equipment will be utilized and will be properly maintained during construction period;
- (iv) Material stockpiles and other structures will be effectively utilized as barriers, where possible, and be orientated so that the noise is directed away from the nearby NSRs;
- (v) Mobile plant will be sited as far away from NSRs as possible.

By considering nature and scale of the project, the topography of the site and the location of the nearest NSR (about 150m away from the site), adverse noise impact is not expected.

5.1.4 Water Quality

Taking into consideration the scale of this project, the quantities of excavated and filling materials are small, and hence the effect of site formation on water quality is expected to be insignificant. Good practices outlined in ProPECC PN 1/94 “Construction Site Drainage” will be followed to control site runoff and drainage to ensure that adverse environmental impact will not be caused.

5.1.5 Waste

Good waste management practices such as minimising, reusing and recycling of construction waste will be adopted on site. For those materials needed to be disposed of from the site, on site sorting of construction and demolition material to inert (public fill) and non-inert material (construction and demolition waste) will be implemented for disposal to designated public filling area and designated landfill respectively. A trip ticket system in accordance with the guidelines stipulated in the latest Development Bureau (Works) Technical Circular will be followed to ensure the construction and demolition material is properly disposed of.

5.1.6 Landscape and Visual Appearance

Proper consideration has been given with a view to minimising landscape and visual impact and disturbance to the existing trees. The service reservoir will be designed to be partly buried in the ground. As vegetation clearance and tree felling will be necessary, re-vegetation works and planting of new trees will be undertaken using suitable native species. We have employed a landscape consultant to carry out all landscape related works and prepare submissions regarding tree felling.

According to our tree survey, 87 existing trees are identified to be removed. However, two-third of the trees to be removed are identified to be exotic trees. As compared with a total number of 238 existing trees surveyed, the landscape impact is considered to be of a small magnitude. Also, with the opening up of a small piece of the woodland area (about 20m x 20m) to more natural sunlight, more native plants can be established as an understorey. In addition to the landscape mitigation measures as described below, it is expected that the landscape character of the surrounding environment will be of low sensitivity to change due to the project.

In mitigating for the loss of existing woodland vegetation, a total of 44 new heavy standard sized native trees, 80 whip sized trees and about 1500 shrubs will be planted back to the site as compensation. No tree can be planted on top of the underground storage tank due to operation need. The selection of tree species for compensatory planting is mainly to reinstate the woodland loss due to the proposed tree felling in order to recreate an environment similar to the original state. Also, it is believed that with the compensatory planting of native trees, it will provide the opportunity for the site to establish into permanent climax woodland to form part of the country park in the long term. It is envisaged that the restored site will blend in with the surrounding natural landscape, and the overall impact on landscape is considered to be insignificant. Details of compensatory planting are shown in [Appendix D](#).

In addition, we have endeavored to transplant those affected trees that are suitable and have good value of transplanting to a suitable location as far as possible. As an estimate, 59 out of the 87 trees to be removed will be transplanted to the Sha Tin Sewage Treatment Works (STSTW), and this will bring about landscape enhancement to the STSTW site. Location of the transplantation site is also shown in [Appendix D](#). The agreement e-mail from Drainage Services Department for this transplantation is

shown in Appendix E.

Also, with the construction of the service reservoir underground, once completed, is believed to have minimal visual impact on the landscape, as the roof top of the service reservoir is slightly sunken, and will be planted with native shrub vegetation to provide a continued understorey vegetation in the landscape. The construction of the underground service reservoir will have insignificant visual impact on the existing landscape character, the overall context of the vicinity landscape and the Ma On Shan Country Park.

Therefore, with the landscape mitigation and enhancement measures as described above, residual landscape and visual impact is not expected. The landscape of the construction site will be restored in accordance with the detailed landscape design to be agreed with Country and Marine Parks Authority.

5.2 Duration of Possible Environmental Effects

Possible environment impact identified to occur during the construction phase will only last at most during the construction period (tentatively 36 months). Such effects are considered to be temporary and short term. Due to the small scale of construction activities for the proposed works, no insurmountable problem is expected. The environmental impact will be greatly reduced with good site practice and pollution control measures.

Proper consideration has been given to blend in Ma On Shan No.3 salt water service reservoir with the surrounding natural landscape, and the landscape mitigation and enhancement measures have been described in Section 5.1.6 above. Adverse landscape and visual impact on the surrounding will not be expected.

5.3 Public Consultation

Consultation with Sha Tin District Council has been carried out during the detailed design stage. The Council supports the project.

6. USE OF PREVIOUSLY APPROVED EIA REPORT

There is no previous approved or submitted EIA report applicable to the subject development.

Figure 1

Project Location Plan

圖一 工程項目的位置圖

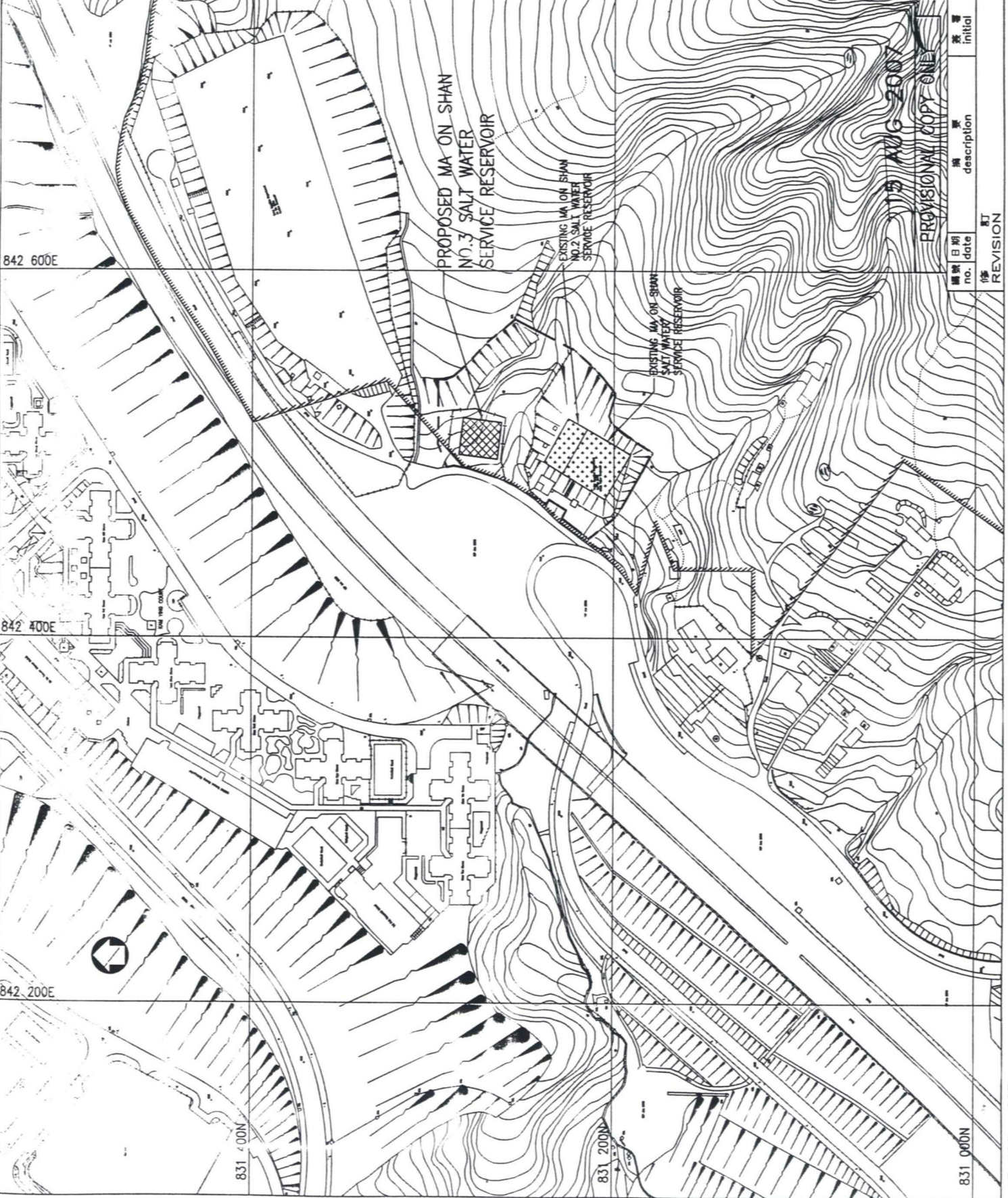
NOTES:
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1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM.
3. THE BASE PLAN IS EXTRACTED FROM SURVEY SHEET NOS. 7-NE-19C AND 24A.

LEGEND:

- BOUNDARY OF EXISTING WSD PERMANENT GOVERNMENT LAND ALLOCATION
- //// BOUNDARY OF MA ON SHAN COUNTRY PARK
- - - WORK SITE BOUNDARY

繪製 drawn	簽署 initial	日期 date
T. W. TSANG		
核對 checked	-	-
加蓋 endorsed	-	-
核准 approved		
合約編號 contract no.	H. W. CHUNG E/Design(13)	
檔案編號 file no.	-	
工務編號 PWP no.	046 WS	
圖則名稱 drawing title	UPGRADING OF SHA TIN SALT WATER SUPPLY SYSTEM - MA ON SHAN NO.3 SALT WATER SERVICE RESERVOIR	
圖則編號 drawing no.	比例 scale	
SK 20210/28	1 : 2000	



編號 no.	日期 date	描述 description	簽署 initial

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水務署
Water Supplies Department

Figure 2

**Perspective of the Ma On Shan no.3
Salt Water Service Reservoir**

圖二 工程項目的構想圖



Existing Ma On Shan
& Ma On Shan no.2
Salt Water Service
Reservoir

Proposed Ma On Shan no.3
Salt Water Service Reservoir

Perspective of the Proposed Ma On Shan no.3 Salt Water Service Reservoir

Figure 3

**Approved Location and Layout of
Ma On Shan Salt Water Service Reservoir**

圖三 批核的馬鞍山海水配水庫的位置及平面圖

NOTES:

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1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM.
3. SURVEY SHEET NOS. 74E-19C AND 24A WITH REFERENCE TO A WSD INTERNAL MA ON SHAN WATER SERVICE RESERVOIR IS PLANNED TO HAVE A CAPACITY OF 5500m³.
4. THE CAPACITY AND YEAR OF COMMISSIONING OF DIFFERENT STAGES OF MA ON SHAN SALT WATER SERVICE RESERVOIR ARE AS FOLLOWS:

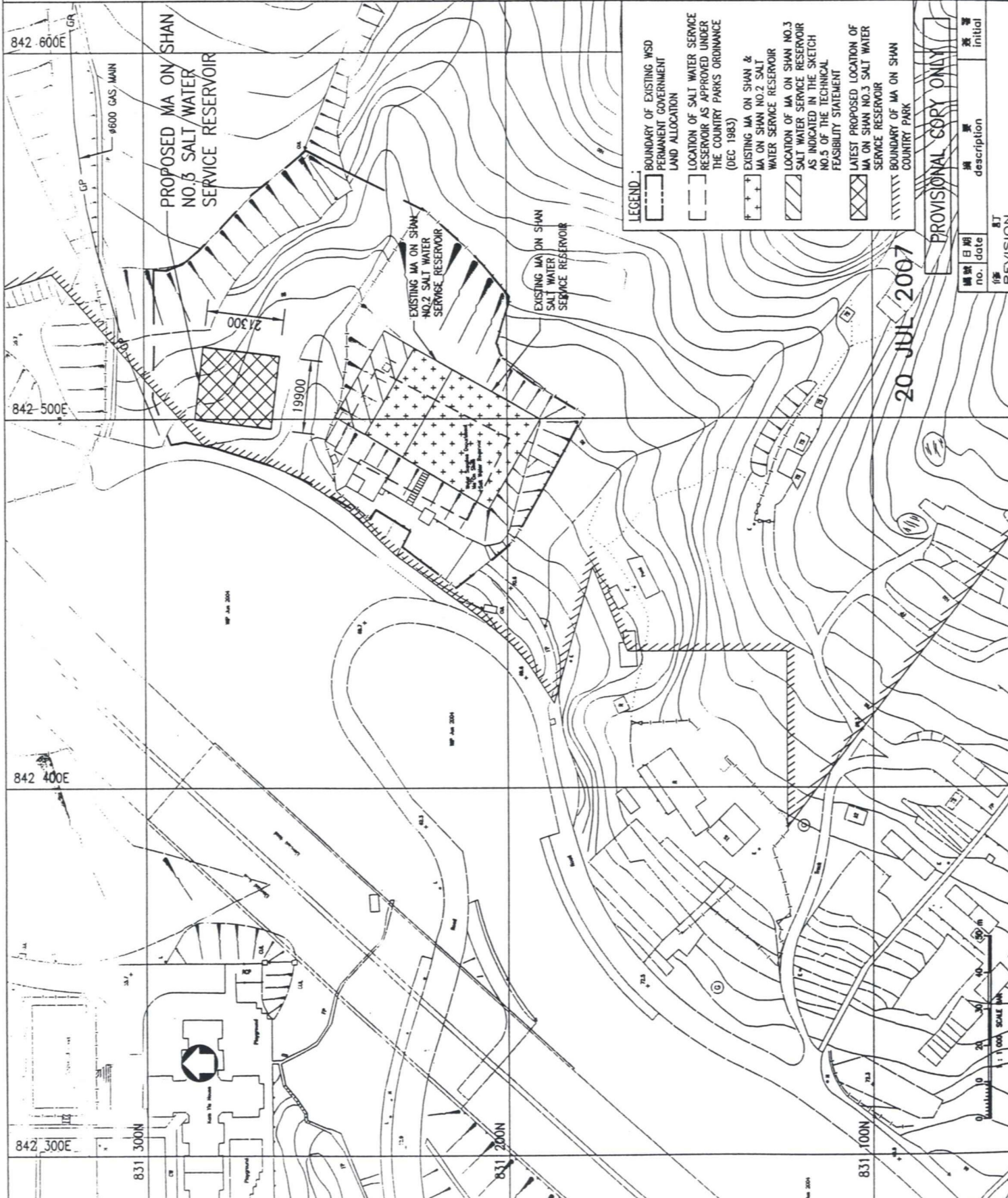
EXISTING MA ON SHAN (STAGE I)	CAPACITY	YEAR OF COMMISSIONING
3350m ³	1994	
1400m ³	2002	
1200m ³	2011	

THE FINAL CAPACITY OF MA ON SHAN SALT WATER SERVICE RESERVOIR WILL BE INCREASED SLIGHTLY TO 5950m³ UPON COMPLETION OF THE EXTENSION.

繪圖日期 drawn	簽署 initial	日期 date
校對 checked		
加簽 endorsed		
核准 approved		
合約編號 contract no.	H. W. CHUNG E/Design(13)	
檔案編號 file no.		
工務編號 PWP no.	046 WS	
圖則名稱 drawing title	UPGRADING OF SHA TIN SALT WATER SUPPLY SYSTEM - MA ON SHAN NO.3 SALT WATER SERVICE RESERVOIR	
圖則編號 drawing no.	比例 scale	
SK 20210/14	1 : 1000	



水務署
Water Supplies Department



LEGEND:

- BOUNDARY OF EXISTING WSD PERMANENT GOVERNMENT LAND ALLOCATION
- LOCATION OF SALT WATER SERVICE RESERVOIR AS APPROVED UNDER THE COUNTRY PARKS ORDINANCE (DEC 1983)
- EXISTING MA ON SHAN & MA ON SHAN NO.2 SALT WATER SERVICE RESERVOIR
- LOCATION OF MA ON SHAN NO.3 SALT WATER SERVICE RESERVOIR AS INDICATED IN THE SKETCH NO.5 OF THE TECHNICAL FEASIBILITY STATEMENT
- LATEST PROPOSED LOCATION OF MA ON SHAN NO.3 SALT WATER SERVICE RESERVOIR
- BOUNDARY OF MA ON SHAN COUNTRY PARK

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圖則日期 no. / date	描述 description	簽署 initial

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Appendix A

Approval Memo from Director of Agriculture and Fisheries (1983)

附錄 A 漁農署署長批核備忘錄(1983)



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Memo

From : Director of Agriculture
and Fisheries

To : Chief Engineer/Planning
Water Supplies Department
(Attn.: Mr. H.S. HU)

Ref. : (7) in S10 83/83/MOS

Tel. : 3-688111 Ext. 111

Your ref. : (49) in WWO 4615/82

Dated : 20.9.1983

20.9.83

Ma On Shan Development
Proposed Waterworks Reserve
for Fresh Water and Flushing Water Reservoirs

Thank you for your memo of 3.11.83.

52

2. Approval is now given under Section 10 of the Country Parks Ordinance (1976) for the construction of 2 service reservoirs at Wu Kai Sha, Ma On Shan Country Park, as marked on your plan (Plan No. 09689B). This approval is given subject to the attached conditions.

53A

3. The site, on completion of the construction, will be developed by this Department for recreational use.

(J.M. Riddell-Swan)
Director of Agriculture and Fisheries
Country Parks Authority

Encl.

c.c. District Lands Office, Shatin
SFO(C)
FO(MDS)

J:RS/AT/mf

Dec 6 12 14 PM '83

Application for approval under
Section 10 of the Country Parks
Ordinance (Cap. 208)

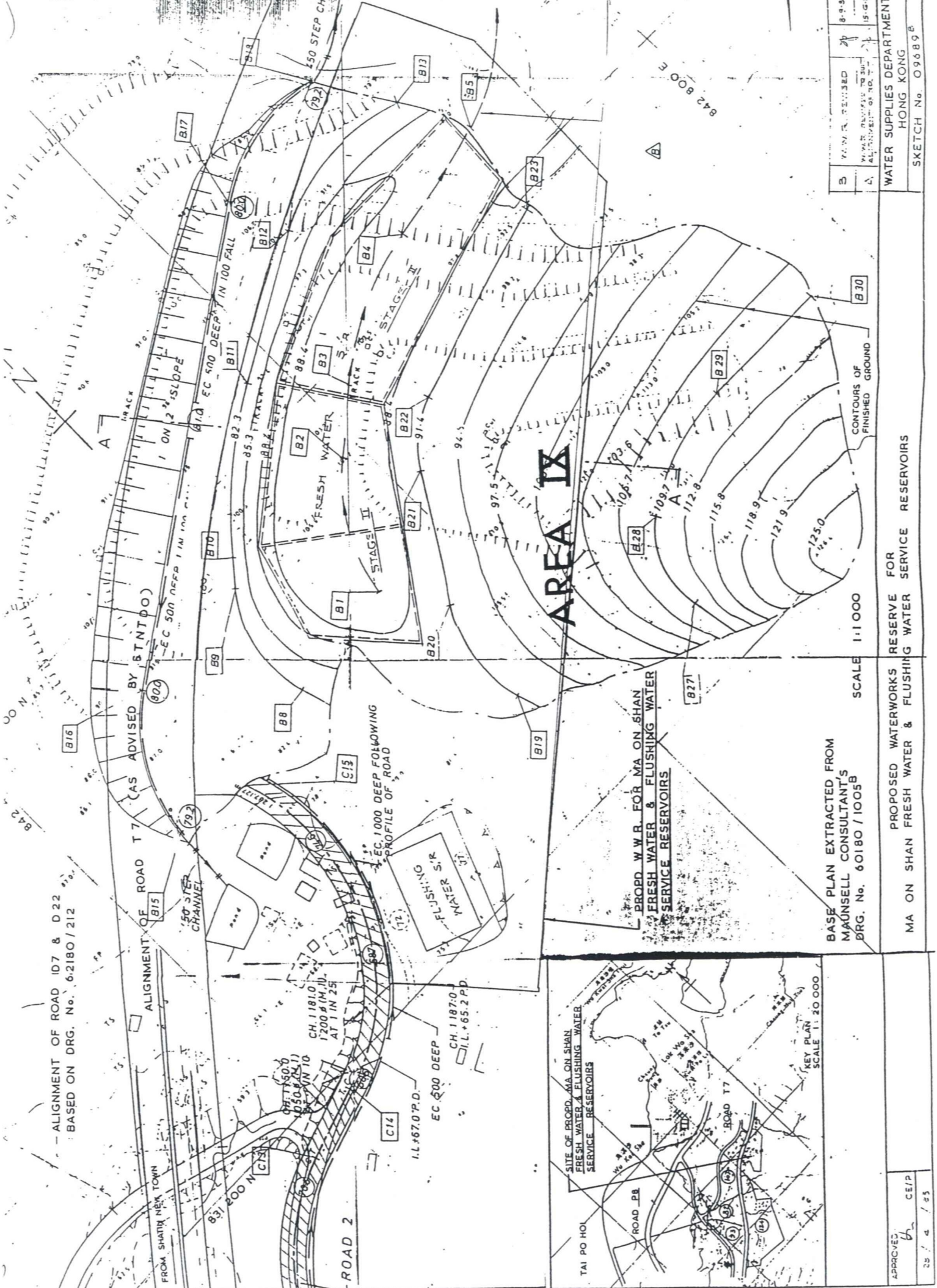
Ma On Shan Development
Proposed Waterworks Reserve
for Fresh Water and Flushing Water Reservoirs

Conditions :

1. All works and operations permitted under this approval shall be confined to the site area specified on the application plan (Plan No. 09689B).
2. The Country Parks Authority shall be notified of the commencement of working. You are advised to contact Mr. C.W. Chan, Field Officer of Ma On Shan Country Park, at telephone 3-2813823.
3. The design of the proposed reservoirs shall be submitted to the Country Parks Authority for approval prior to the commencement of development and shall be implemented to the satisfaction of the Authority. The design of the reservoirs shall allow the site for recreational use on completion of the construction. A pedestrian access to the site shall be included.
4. The Flushing Water Reservoir shall be covered for recreational use (subject to the approval of funds).
5. A comprehensive plan for the landscaping of the site, shall be submitted to the Country Parks Authority for approval prior to the commencement of development. The approved plan shall be implemented, to the satisfaction of the Country Parks Authority, not later than the end of the first planting season following the completion of building development, and the plants shall be maintained and replanted as necessary for a period of at least two years from first planting.
6. No new road, track or footpath shall be made within the Country Park or existing road, track or footpath be improved, without the written consent of the Country Parks Authority.
7. No working shall take place on Sundays or Public Holidays without the specific written permission of the Country Parks Authority.
8. Unless agreed in writing by the Country Parks Authority no fires or stoves shall be used within the Country Parks; and all necessary precautions shall be taken to prevent fire.
9. A copy of this approval letter shall be produced for inspection on site when requested by staff of the Country Parks Authority.

Country Parks Authority

ALIGNMENT OF ROAD ID7 & D 22
BASED ON DRG. No. 6.2180/212



ALIGNMENT OF ROAD T7 (AS ADVISED BY BTNTDO)

ALIGNMENT OF ROAD T7 FROM SHATIN NEW TOWN

EC. 1000 DEEP FOLLOWING PROFILE OF ROAD

FLUSHING WATER S.R.

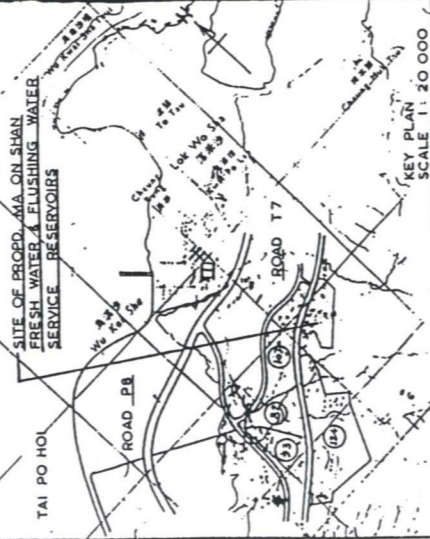
AREA IX

PROPD. W.W.R. FOR MA ON SHAN FRESH WATER & FLUSHING WATER SERVICE RESERVOIRS

BASE PLAN EXTRACTED FROM MAUNSELL CONSULTANT'S DRG. No. 6.0180/1005B

SCALE 1:1 000

PROPOSED WATERWORKS RESERVE FOR MA ON SHAN FRESH WATER & FLUSHING WATER SERVICE RESERVOIRS



KEY PLAN SCALE 1:20 000

APPROVED: *[Signature]* CE/P 25/4/85

8-9-83	8-9-83
19-10-83	19-10-83
WATER SUPPLIES DEPARTMENT	WATER SUPPLIES DEPARTMENT
HONG KONG	HONG KONG
SKETCH No. 09089E	SKETCH No. 09089E

Appendix B

**Memo of no objection from
Director of Agriculture, Fisheries and Conservation
(12 July 2007)**

附錄 B 漁農自然護理署署長
不反對工程項目的備忘錄 (27-7-07)

香港政府漁農自然護理署
郊野公園及海岸公園管理局

九龍長沙灣道三零三號
長沙灣政府合署五樓



Country & Marine Parks Authority
Agriculture, Fisheries and Conservation
Department

Cheung Sha Wan Government Offices
303 Cheung Sha Wan Road 5th floor
Kowloon, Hong Kong

MEMO

From : Director of Agriculture,
Fisheries and Conservation

To : District Lands Officer/Shah Tin
(Attn. Mr. K. Y. LIU)

Ref. : (2) in AF GR CPDAMOS/46/2007

Yr Ref. :

Tel. : 2150 6606

Fax : 2602 4093

Fax : 2311 3731

Date : 12 July 2007

Dated :

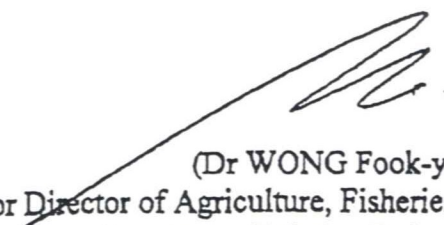
9046WS-Uprating of Sha Tin Salt Water Supply System Extension of Ma On Shan Salt Water Service Reservoir

I refer to an application dated 22 May & 21 June 2007 from Chief Engineer/Design, Water Supplies Department. A copy is attached.

2. I have no objection in principle to the proposed construction of Ma On Shan No. 3 salt water reservoir inside Ma On Shan Country Park, as shown on the application Plan SK 20210/9A and subject to the conditions attached.

3. Please ensure that the attached conditions are conveyed in full to the applicant when he is informed of the Administration's decision. Please send me a copy of your co-ordinated reply to the applicant.

4. Please contact Dr. Alice TANG at telephone no. 2150 6841 if you have any difficulties.


(Dr WONG Fook-ye)
for Director of Agriculture, Fisheries and Conservation
Country and Marine Parks Authority

Encl.

c.c. CE/Design, WSD (Attn. Mr. Thomas CHUNG) Ref. 15 in WSD 7423/11/10/05 Pt. 2
Fax 2824 0578
EPD (Attn. Mr. T S SO) Ref. 34 in EP 1/ST/MIS-OT/27 Fax 2591 0558
FO/MOS via SFO/C
R/C

AT/vc

**9046WS-Uprating of Sha Tin Salt Water Supply System
Extension of Ma On Shan Salt Water Service Reservoir**

Conditions

1. Scale and Extent of Works

All works and operations shall be confined to the site area specified in the application Plan SK 20210/9A. A copy of the approval given by the Government to the proposed works shall be produced on site when requested by Country and Marine Parks Authority Staff.

2. Commencement and Completion of Works

The proposed works shall be completed within 60 months from the date of this letter. The Country and Marine Parks Authority shall be notified of the commencement and completion of works. You are advised to contact Mr. TSANG Chi-pong, Country Park Ranger (Central) at telephone 24272670.

3. Activities Prohibited inside Country Park

The following are prohibited within country parks unless the specific written agreement of the Country and Marine Parks Authority is given:

- (i) making or upgrading of roads, tracks or paths;
- (ii) closure or blockage of any road, track or path. The Country and Marine Parks Authority reserves the right to have priority use of any such road, track or path at any time;
- (iii) erection of permanent signs, notices or advertisements;
- (iv) working on Sundays and Public Holidays;
- (v) working between the hours of 6 p.m. and 8 a.m.;
- (vi) using of vehicles;
- (vii) using fire or stove; and
- (viii) felling or trimming of trees.

4. Safety inside Country Park

All necessary precautions shall be taken to ensure public safety within the country parks; to prevent fires; and to avoid erosion or the slippage or wash of loose materials within or beyond the limits of the site. Appropriate directional and warning signs should be installed and maintained at strategic points as agreed and requested by the Country and Marine Parks Authority. Excavated area shall be properly covered when no work is in progress.

5. Reinstatement

On the completion of the proposed works, or phased completion of part of the proposed works, all site area(s) shall be properly reinstated to the original condition; any erosion and damage to roads, tracks, paths or country parks facilities shall be made good, all at the applicant's expense and without delay and the site(s) shall be left clean and tidy, to the satisfaction of the Country and Marine Parks Authority.

6. Restrictions on Access and Works for Fire Protection and Other Emergencies

The Country and Marine Parks Authority reserves the right to temporarily suspend the works and to impose restrictions on access and development work for fire protection or other emergencies.

7. Special Condition

- (i) Tree felling/removal for the proposed construction shall be kept to the absolute minimum and with full justifications. The tree felling/removal proposal attached to the application shall be revised to include justification for felling/transplanting individual trees and reduce the extent of tree disturbance where applicable.
- (ii) Compensatory replanting scheme to the satisfaction of the Country and Marine Parks Authority shall be implemented after the construction of the proposed reservoir.

8. Validity

Notwithstanding the conditions above, all the proposed works and reinstatement shall be completed by the end of June 2013.

9. Maintenance

The applicant shall be responsible for the maintenance of all the approved works to the satisfaction of the Country and Marine Parks Authority.

Country and Marine Parks Authority
July 2007







Appendix C

Information and Details of the Trees to be Affected

附錄 C 受影響樹木之詳細資料及位置

NOTES:
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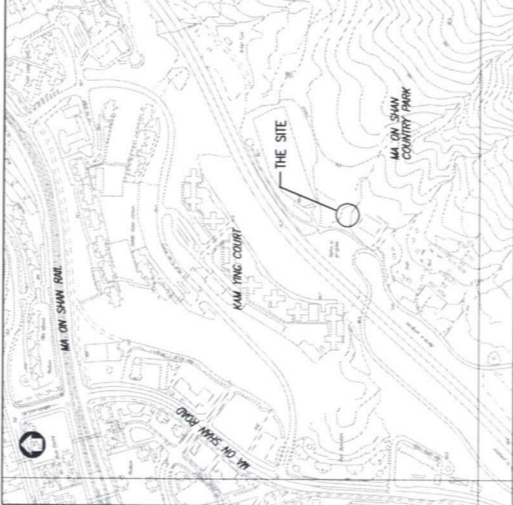
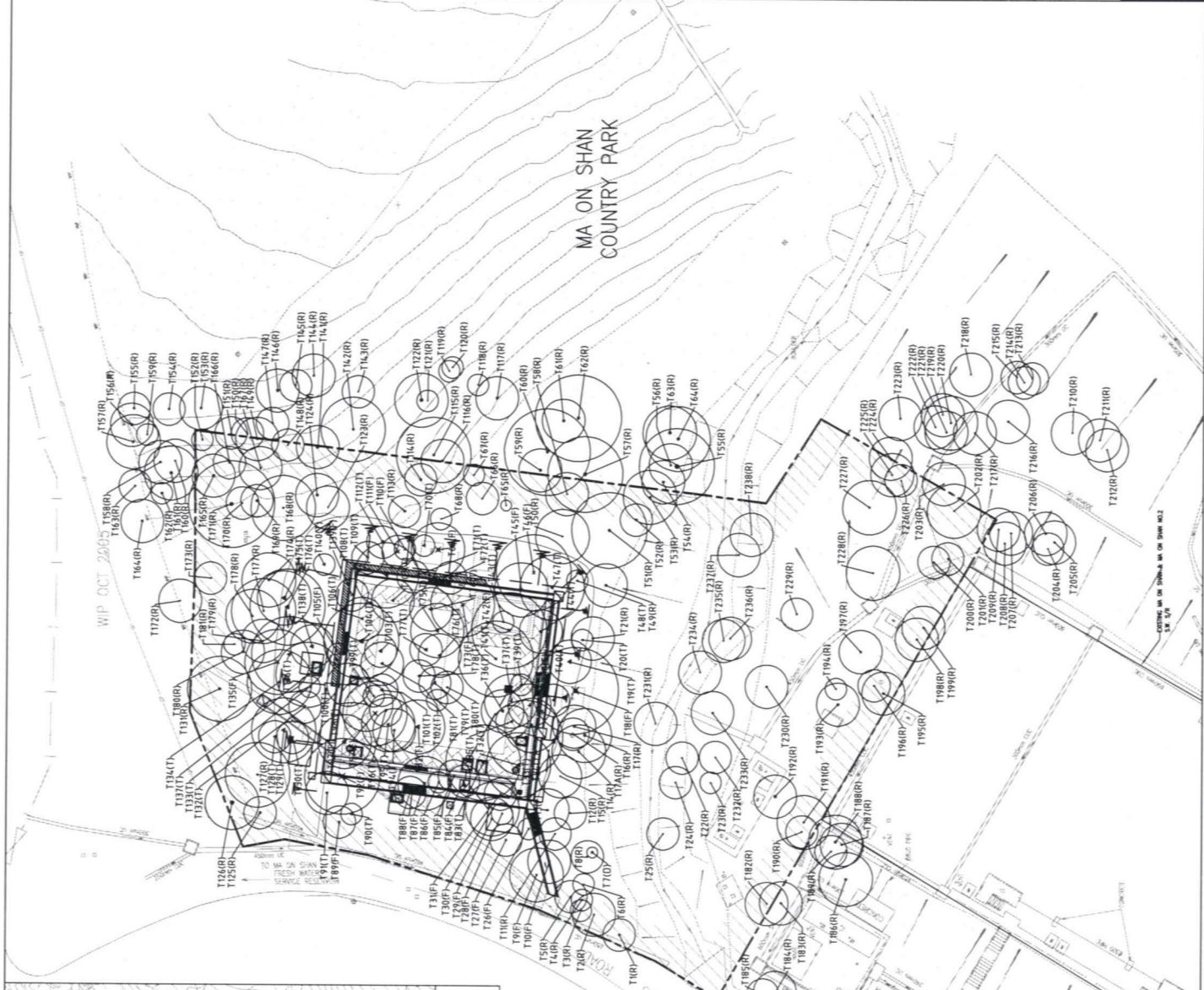
LEGEND :

-  WORKS BOUNDARY
-  EXTEND OF SITE FORMATION AREA
-  EXISTING TREE TO BE RETAINED
-  EXISTING TREE TO BE TRANSPLANTED
-  EXISTING TREE TO BE FELLED
-  EXISTING DEAD TREE TO BE REMOVED

A	NO	REVISED FORMATION	description	initial	日期
no.	date				date
			簽署	initial	日期
繪製					
drawn					
核對					
checked					
加蓋					
endorsed					
核准					
approved					
			H. W. CHUNG		
			E/Design(13)		

合約編號	contract no.	—
檔案編號	file no.	—
工務編號	PWP no.	046 WS
圖則名稱	drawing title	TREE SURVEY PLAN

圖則編號	drawing no.	WSD4/MOS/TS/01	比例	scale	1:400
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KEY PLAN
 SCALE: 1:500

TREE NO.	PHOTO NO.	BOTANICAL NAME	CHINESE NAME	LEVEL (m)	SIZE (m)			FORM (Poor/Fair/Good)	HEALTH & CONDITION (Poor/Fair/Good)	AMENITY VALUE (Low/Med/High)	SURVIVAL RATE AFTER TRANSPLANTING (Low/Med/High)	RECOMMENDATION	JUSTIFICATION	REMARKS
					Height	Diameter	Spread							
T1	1	Acacia auriculiformis	耳果相思	75.0	6	0.15	3	Fair	Fair	Med	Low	Retain		Climber growing on tree
T2	2	Acacia auriculiformis	耳果相思	75.4	7	0.13	4	Fair	Fair	Low	Low	Retain		Climber growing on tree
T3	3	Acacia auriculiformis	耳果相思	75.6	6	0.10	2	Fair	Fair	Med	Low	Retain		Leaning trunk with unbalanced crown, climber growing on tree
T4	4	Acacia auriculiformis	耳果相思	75.7	7	0.14	2	Fair	Fair	Med	Low	Retain		Bending trunk
T5	5	Acacia auriculiformis	耳果相思	75.7	9	0.15	3	Fair	Fair	Med	Low	Retain		Broken branch observed
T6	6	Acacia auriculiformis	耳果相思	75.5	7	0.10	2	Fair	Fair	Med	Low	Retain		Leaning trunk, climber growing on tree
T7	7	Dead Tree	死樹	75.7	3	0.12	1	-	-	-	-	Remove		Remove Dead Tree
T8	8,9	Acacia auriculiformis	耳果相思	75.9	9	0.14	3	Fair	Fair	Med	Low	Retain		Climber growing on tree
T9	10	Acacia auriculiformis	耳果相思	76.6	3	0.11	5	Poor	Fair	Low	Low	Fell		Bending trunk with unbalanced crown
T10	11	Acacia auriculiformis	耳果相思	76.6	7	0.14	4	Poor	Fair	Low	Low	Fell		Bending trunk with unbalanced crown
T11	12	Acacia auriculiformis	耳果相思	76.4	7	0.12	3	Fair	Fair	Low	Low	Retain		Climber growing on tree
T12	13	Acacia auriculiformis	耳果相思	76.9	7	0.13	3	Fair	Fair	Low	Low	Retain		Climber growing on tree
T13	14	Mearanga tanarius	血桐	77.7	5	0.11	4	Fair	Good	Low	High	Fell		Unbalanced crown
T14	15	Dalbergia balansae	南嶺黃櫨	78.7	5	0.20	5	Poor	Fair	Low	Med	Retain		Leaning trunk
T15	16	Mearanga tanarius	血桐	78.9	5	0.23	5	Fair	Fair	Low	High	Retain		Bending trunk and unbalanced crown
T16	17	Dalbergia balansae	南嶺黃櫨	78.4	3	0.10	4	Poor	Fair	Low	Med	Retain		Leaning trunk and unbalanced crown
T17	18	Hibiscus tiliaceus	黃槿	79.1	5	0.18	4	Poor	Fair	Low	High	Retain		Cavity found on trunk with die back branch
T17A	20	Dalbergia balansae	南嶺黃櫨	79.1	7	0.11	3	Fair	Fair	Med	High	Retain		Affected by site formation and const. of rodding pit works
T18	19	Dalbergia balansae	南嶺黃櫨	79.7	11	0.47	8	Fair	Good	Med	High	Fell		Tree size limitation, not suitable for transplanting.
T19	21	Dalbergia balansae	南嶺黃櫨	80.2	5	0.21	4	Fair	Fair	Med	Med	Transplant		Cavity found on trunk
T20	22	Dalbergia balansae	南嶺黃櫨	80.1	7	0.11	2	Fair	Good	Med	High	Transplant		Bending trunk
T21	23,24	Hibiscus tiliaceus	黃槿	80.1	6	0.17	4	Fair	Good	Med	High	Retain		Leaning trunk
T22	25	Trema tomentosa	山黃麻	76.3	3	0.11	3	Fair	Fair	Med	Med	Retain		Climber growing through tree
T23	27	Acacia auriculiformis	耳果相思	76.7	5	0.10	2	Good	Fair	Low	Low	Retain		Climber growing through tree
T24	26	Ficus fistulosa	水同木	75.8	6	0.13	3	Fair	Fair	Med	Med	Retain		Climber growing through tree, insect infestation on leaves.
T25	28	Mearanga tanarius	血桐	74.3	2	0.10	3	Poor	Fair	Low	Med	Retain		Climber growing through tree
T26	31	Acacia auriculiformis	耳果相思	77.8	7	0.11	2	Fair	Good	Low	Low	Fell		Affected by site formation & drainage channel const. works
T27	29	Acacia auriculiformis	耳果相思	78.0	6	0.13	3	Fair	Good	Low	Low	Fell		Affected by site formation & manhole const. works
T28	30	Acacia auriculiformis	耳果相思	78.6	7	0.10	2	Fair	Good	Low	Low	Fell		Affected by site formation & manhole const. works
T29	32	Acacia auriculiformis	耳果相思	78.6	5	0.10	4	Fair	Good	Low	Low	Fell		Affected by site formation & manhole const. works
T30	33	Acacia auriculiformis	耳果相思	78.8	8	0.14	5	Fair	Fair	Med	Low	Fell		Unbalanced crown
T31	35	Acacia mangium	大葉相思	79.0	7	0.12	3	Good	Good	Med	Low	Fell		Unbalanced crown
T32	34	Hibiscus tiliaceus	黃槿	79.3	9	0.19	6	Poor	Fair	Low	High	Transplant		Affected by reservoir const. works
T33	36	Dalbergia balansae	南嶺黃櫨	79.6	11	0.24	7	Good	Good	High	High	Transplant		Affected by reservoir const. works
T34	37	Hibiscus tiliaceus	黃槿	79.6	7	0.16	5	Fair	Good	Med	High	Transplant		Affected by reservoir const. works
T35	40	Dalbergia balansae	南嶺黃櫨	79.8	9	0.14	3	Fair	Fair	Med	Med	Transplant		Die back branch observed, unbalanced crown
T36	38	Hibiscus tiliaceus	黃槿	79.9	8	0.16	4	Fair	Fair	Med	High	Transplant		Leaning trunk
T37	39	Dalbergia balansae	南嶺黃櫨	79.9	9	0.14	5	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works
T38	41	Hibiscus tiliaceus	黃槿	80.1	6	0.13	4	Fair	Good	Med	High	Transplant		Affected by reservoir const. works
T39	42	Dalbergia balansae	南嶺黃櫨	80.1	6	0.14	2	Fair	Good	Med	High	Transplant		Affected by reservoir const. works
T40	43	Hibiscus tiliaceus	黃槿	79.6	5	0.10	3	Fair	Fair	Med	High	Transplant		Affected by reservoir const. works
T41	44	Dalbergia balansae	南嶺黃櫨	80.5	8	0.14	7	Fair	Fair	Med	Low	Transplant		Affected by reservoir const. works
T42	45	Acacia auriculiformis	耳果相思	80.5	11	0.19	7	Fair	Fair	Med	Med	Transplant		Multi-trunk
T43	46	Dalbergia balansae	南嶺黃櫨	80.7	4	0.10	2	Fair	Fair	Med	Med	Transplant		Leaning trunk, die-back branch observed
T44	47	Dalbergia balansae	南嶺黃櫨	80.4	11	0.17	4	Fair	Fair	Med	Med	Transplant		Bark damage observed, unbalanced crown
T45	49	Dalbergia balansae	南嶺黃櫨	80.7	13	0.18	5	Fair	Poor	Med	Low	Transplant		Cavity found on trunk, Leaning trunk
T46	48,50	Dalbergia balansae	南嶺黃櫨	80.8	9	0.19	7	Good	Poor	Med	Low	Fell		Affected by reservoir const. works
T47	51	Dalbergia balansae	南嶺黃櫨	80.6	9	0.18	6	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works
T48	52	Dalbergia balansae	南嶺黃櫨	80.4	5	0.10	2	Fair	Fair	Med	Med	Transplant		With disease, die-back branch observed.
T49	53,54,55	Dalbergia balansae	南嶺黃櫨	80.2	7	0.19	4	Fair	Good	Med	Med	Transplant		Affected by site formation works
T50	56	Mearanga tanarius	血桐	80.6	7	0.12	5	Fair	Good	Low	High	Retain		Bark damage
T51	57	Mearanga tanarius	血桐	80.4	6	0.21	7	Fair	Fair	Med	High	Retain		Cavity found on trunk
T52	59	Dalbergia balansae	南嶺黃櫨	80.3	6	0.18	3	Fair	Fair	Med	High	Retain		Die-back branch observed
T53	58	Dalbergia balansae	南嶺黃櫨	80.3	6	0.16	5	Fair	Poor	Med	Med	Retain		With disease and cavity found on trunk
T54	60	Dalbergia balansae	南嶺黃櫨	80.3	5	0.20	4	Fair	Poor	Med	Low	Retain		With disease, Bending trunk and unbalanced crown.
T55	61	Vernicia montana	木油桐	80.3	13	0.38	7	Good	Good	High	High	Retain		
T56	63	Dalbergia balansae	南嶺黃櫨	80.4	7	0.16	4	Fair	Fair	Med	Med	Retain		Cavity found on trunk
T57	62	Acacia auriculiformis	耳果相思	80.5	16	0.29	7	Good	Good	High	Low	Retain		With disease and die-back branch
T58	64	Dalbergia balansae	南嶺黃櫨	80.9	6	0.11	4	Fair	Poor	Med	Low	Retain		Bending trunk
T59	66	Acacia auriculiformis	耳果相思	80.9	13	0.22	4	Good	Fair	Med	Low	Retain		With disease

TREE NO.	PHOTO NO.	BOTANICAL NAME	CHINESE NAME	LEVEL (mpd)	SIZE (M)			FORM (Poor/Fair/Good)	HEALTH & CONDITION (Poor/Fair/Good)	AMENITY VALUE (Low/Med/High)	SURVIVAL RATE AFTER TRANSPLANTING (Low/Med/High)	RECOMMENDATION	JUSTIFICATION	REMARKS
					Height	Diameter	Spread							
T60	66	Acacia auriculiformis	耳果相思	80.9	16	0.22	8	Fair	Good	Med	Low	Retain		
T61	67	Acacia auriculiformis	耳果相思	83.4	11	0.22	4	Fair	Fair	Med	Low	Retain		Bending trunk with unbalance crown. Die-back branch observed
T62	67	Acacia auriculiformis	耳果相思	80.9	17	0.24	8	Fair	Good	Med	Low	Retain		Bending trunk
T63	68	Vernicia montana	木油桐	80.6	14	0.25	5	Good	Good	High	Med	Retain		
T64	69	Dalbergia balansae	南嶺黃櫨	80.4	13	0.25	6	Good	Fair	Med	Med	Retain		Die-back branch observed
T65	65	Dalbergia balansae	南嶺黃櫨	81.1	4	0.10	1	Fair	Poor	Med	Low	Retain		Half-trunk die-back.
T66	70	Dalbergia balansae	南嶺黃櫨	81.3	4	0.11	3	Fair	Good	Med	Med	Retain		Leaning trunk
T67	71	Dalbergia balansae	南嶺黃櫨	81.3	5	0.11	2	Fair	Fair	Med	Med	Retain		Leaning trunk with disease
T68	72	Bauhinia purpurea	紅花羊蹄甲	81.4	6	0.10	2	Good	Good	Med	High	Retain		
T69	73	Acacia auriculiformis	耳果相思	81.3	16	0.36	5	Good	Fair	Med	Low	Fell		Affected by site formation and const. of rodding pit works With disease
T70	74	Dalbergia balansae	南嶺黃櫨	81.3	6	0.15	2	Fair	Fair	Med	Med	Transplant		Die-back branch observed
T71	75	Dalbergia balansae	南嶺黃櫨	81.3	6	0.13	3	Fair	Fair	Med	Med	Transplant		Unbalanced crown
T72	76	Dalbergia balansae	南嶺黃櫨	81.2	7	0.12	3	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works Unbalanced crown
T73	77	Acacia auriculiformis	耳果相思	81.2	9	0.20	6	Good	Fair	Med	Low	Fell		Affected by reservoir const. works With disease
T74	78	Dalbergia balansae	南嶺黃櫨	81.3	8	0.20	4	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works Bending trunk
T75	80	Dalbergia balansae	南嶺黃櫨	81.2	7	0.21	5	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works Bending trunk. Unbalanced crown
T76	79	Hibiscus ilicicus	黃槿	80.9	6	0.16	4	Fair	Good	Med	High	Transplant		Affected by reservoir const. works Leaning trunk
T77	82	Dalbergia balansae	南嶺黃櫨	81.0	7	0.18	3	Fair	Good	High	High	Transplant		Affected by reservoir const. works Bending trunk
T78	83	Bauhinia spp.	洋路巨鵝植物	80.8	6	0.13	3	Good	Fair	Med	High	Transplant		Affected by reservoir const. works Die-back branch observed
T79	84,85	Hibiscus ilicicus	黃槿	80.7	5	0.15	3	Fair	Fair	Med	High	Transplant		Affected by reservoir const. works Leaning trunk
T80	86	Dalbergia balansae	南嶺黃櫨	80.6	5	0.11	3	Fair	Good	Med	High	Transplant		Affected by reservoir const. works Leaning trunk
T81	87	Dalbergia balansae	南嶺黃櫨	80.5	5	0.11	2	Fair	Fair	Med	High	Transplant		Affected by reservoir const. works Leaning trunk
T82	88	Dalbergia balansae	南嶺黃櫨	80.4	5	0.11	2	Fair	Fair	Med	High	Transplant		Affected by reservoir const. works Leaning trunk
T83	81	Hibiscus ilicicus	黃槿	79.5	6	0.13	7	Poor	Fair	Low	High	Transplant		Affected by reservoir const. works Unbalanced crown. Dead stub observed
T84	89	Macaranga tanarius	血桐	79.4	5	0.15	3	Fair	Fair	Low	High	Fell		Affected by reservoir const. works Leaning trunk
T85	89	Macaranga tanarius	血桐	79.6	6	0.11	3	Fair	Fair	Low	High	Fell		Affected by reservoir const. works Leaning trunk
T86	90	Macaranga tanarius	血桐	79.6	6	0.10	2	Fair	Fair	Low	High	Fell		Affected by reservoir const. works Leaning trunk
T87	91	Macaranga tanarius	血桐	79.6	6	0.16	5	Fair	Fair	Low	High	Fell		Affected by reservoir const. works Unbalanced crown
T88	92,93	Macaranga tanarius	血桐	79.6	4	0.20	3	Fair	Fair	Med	High	Fell		Affected by reservoir const. works Twin trunk
T89	94	Acacia auriculiformis	耳果相思	80.0	5	0.14	3	Fair	Fair	Med	Low	Fell		Affected by site formation works With disease. Bending trunk
T90	95	Dalbergia balansae	南嶺黃櫨	79.9	4	0.14	2	Fair	Fair	Med	Med	Transplant		Affected by site formation works With disease
T91	96,97	Hibiscus ilicicus	黃槿	80.6	5	0.11	4	Poor	Fair	Low	Med	Transplant		Affected by site formation & reservoir const. works Bending trunk
T92	98,99	Acacia auriculiformis	耳果相思	80.5	11	0.39	7	Fair	Fair	Med	Low	Fell		Affected by reservoir const. works Die-back branch observed
T93	101	Dalbergia balansae	南嶺黃櫨	80.6	11	0.22	5	Good	Fair	Med	High	Transplant		Die-back branch observed
T94	100	Hibiscus ilicicus	黃槿	80.9	6	0.12	4	Good	Good	Med	High	Transplant		Affected by reservoir const. works
T95	102,103	Dalbergia balansae	南嶺黃櫨	80.7	6	0.14	5	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works With disease
T96	104	Dalbergia balansae	南嶺黃櫨	80.9	7	0.12	3	Fair	Fair	Med	Med	Transplant		Unbalanced crown
T97	105	Acacia auriculiformis	耳果相思	80.9	14	0.30	6	Good	Good	High	Low	Fell		Affected by reservoir const. works Unbalanced crown
T98	107	Dalbergia balansae	南嶺黃櫨	81.1	5	0.14	5	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works Unbalanced crown. Twin-trunk with disease
T99	106	Bauhinia spp.	洋路巨鵝植物	81.0	4	0.11	2	Fair	Fair	Med	High	Transplant		Affected by reservoir const. works With disease. Bark damage observed
T100	109	Dalbergia balansae	南嶺黃櫨	81.3	8	0.12	4	Good	Fair	Med	Med	Transplant		Affected by reservoir const. works With disease
T101	110	Dalbergia balansae	南嶺黃櫨	81.1	6	0.16	3	Good	Good	High	High	Transplant		Affected by reservoir const. works
T102	111	Hibiscus ilicicus	黃槿	81.2	6	0.15	4	Fair	Good	Med	High	Transplant		Affected by reservoir const. works
T103	112	Dalbergia balansae	南嶺黃櫨	81.3	6	0.18	3	Good	Fair	Med	Med	Transplant		Affected by reservoir const. works With disease
T104	113,114	Dalbergia balansae	南嶺黃櫨	81.6	13	0.25	7	Good	Fair	Med	Med	Transplant		Affected by reservoir const. works Die-back branch observed
T105	115	Acacia confusa	臺灣相思	81.7	5	0.10	2	Fair	Fair	Low	Low	Fell		Affected by reservoir const. works
T106	116,117	Dalbergia balansae	南嶺黃櫨	81.8	12	0.12	4	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works Cavity found on trunk. Leaning trunk
T107	108	Hibiscus ilicicus	黃槿	81.5	5	0.14	4	Fair	Good	Med	High	Transplant		Affected by reservoir const. works Leaning trunk
T108	119	Dalbergia balansae	南嶺黃櫨	81.6	13	0.20	6	Fair	Fair	Med	Med	Transplant		Affected by reservoir const. works Leaning trunk
T109	118	Dalbergia balansae	南嶺黃櫨	82.1	15	0.11	3	Good	Fair	Med	Med	Transplant		Affected by reservoir const. works With disease
T110	120	Acacia auriculiformis	耳果相思	81.4	16	0.16	2	Fair	Fair	Med	Low	Transplant		Affected by reservoir const. works With disease
T111	121	Acacia auriculiformis	耳果相思	81.5	11	0.22	3	Fair	Fair	Med	Low	Fell		Affected by site formation works Leaning trunk and unbalanced crown
T112	118	Dalbergia balansae	南嶺黃櫨	81.7	7	0.16	3	Fair	Fair	Med	Med	Transplant		Die-back branch observed and leaning trunk
T113	122,123	Dalbergia balansae	南嶺黃櫨	81.7	14	0.19	3	Good	Fair	Med	Med	Transplant		Affected by site formation works Twin trunk
T114	125	Vernicia montana	木油桐	82.2	12	0.21	3	Good	Fair	High	High	Retain		Roots exposed
T115	126	Acacia auriculiformis	耳果相思	83.5	11	0.19	7	Fair	Fair	Med	High	Retain		Die-back branch observed
T116	127	Acacia auriculiformis	耳果相思	82.2	16	0.18	4	Good	Good	High	Low	Retain		Twin-trunk
T117	128	Acacia auriculiformis	耳果相思	84.9	10	0.21	4	Good	Good	High	Low	Retain		Die-back branch observed
T118	130	Dalbergia balansae	南嶺黃櫨	81.2	5	0.10	2	Fair	Fair	Med	Med	Retain		V-shape branch
T119	124	Dalbergia balansae	南嶺黃櫨	83.3	8	0.11	2	Poor	Poor	Low	Low	Retain		Broken trunk
T120	129	Schinus molle	木荷	84.6	7	0.10	2	Good	Good	High	Med	Retain		
T121	132,135	Schinus molle	木荷	84.6	11	0.10	2	Good	Good	High	Med	Retain		Trunk grow in touch with T122
T122	132,133,135	Acacia auriculiformis	耳果相思	84.6	9	0.28	5	Fair	Good	High	Med	Retain		Leaning trunk
T123	131	Macaranga tanarius	血桐	84.3	6	0.10	4	Fair	Good	Low	High	Retain		Leaning trunk
T124	136	Acacia confusa	臺灣相思	83.8	15	0.22	4	Fair	Fair	Med	Low	Retain		Die-back branch observed

TREE NO.	PHOTO NO.	BOTANICAL NAME	CHINESE NAME	LEVEL (mpd)	SIZE (M)			FORM (Poor/Fair/Good)	HEALTH & CONDITION (Poor/Fair/Good)	AMENITY VALUE (Low/Med/High)	SURVIVAL RATE AFTER TRANSPLANTING (Low/Med/High)	RECOMMENDATION	JUSTIFICATION	REMARKS
					Height	Diameter	Spread							
T125	134	Acacia auriculiformis	耳果相思	80.7	7	0.21	3	Fair	Good	Med	Low	Retain		
T126	137-138	Acacia auriculiformis	耳果相思	81.0	10	0.34	5	Good	Fair	Med	Low	Retain		Bark damage observed
T127	139	Hibiscus tiliaceus	黃槿	81.3	7	0.15	6	Fair	Good	Med	High	Retain		Leaning trunk
T128	140	Hibiscus tiliaceus	黃槿	81.3	4	0.11	3	Good	Good	High	High	Transplant		With disease
T129	141	Dalbergia balansae	南嶺黃攏	81.2	9	0.21	6	Fair	Fair	Med	Med	Transplant		Affected by site formation works
T130	142	Dalbergia balansae	南嶺黃攏	81.1	5	0.11	3	Fair	Fair	Med	Med	Transplant		Affected by site formation works
T131	143	Dalbergia balansae	南嶺黃攏	82.0	9	0.21	6	Fair	Fair	Med	Med	Transplant		mainhole const. works
T132	144	Dalbergia balansae	南嶺黃攏	81.5	8	0.14	3	Fair	Fair	Med	Med	Retain		Unbalanced crown
T133	147	Dalbergia balansae	南嶺黃攏	81.7	10	0.13	2	Fair	Fair	Med	Med	Transplant		Affected by siter formation works
T134	148	Dalbergia balansae	南嶺黃攏	81.7	11	0.15	6	Fair	Good	Med	Med	Transplant		Affected by site formation works
T135	149	Acacia auriculiformis	耳果相思	82.0	15	0.25	6	Good	Fair	Med	Med	Fell		Unbalanced crown
T136	150	Dalbergia balansae	南嶺黃攏	82.0	14	0.18	7	Fair	Fair	Med	Med	Transplant		With disease, Unbalanced crown
T137	151	Dalbergia balansae	南嶺黃攏	81.7	13	0.16	6	Fair	Good	Med	Med	Transplant		Affected by site formation works
T138	152	Dalbergia balansae	南嶺黃攏	82.0	15	0.19	4	Fair	Good	Med	Med	Transplant		Affected by site formation works
T139	145	Acacia auriculiformis	耳果相思	82.5	5	0.15	3	Fair	Fair	Med	Med	Transplant		Unbalanced crown
T140	146	Dalbergia balansae	南嶺黃攏	82.6	13	0.15	2	Fair	Fair	Med	Med	Fell		Affected by reservoir const. works
T141	153	Acacia confusa	臺灣相思	85.5	15	0.22	4	Fair	Fair	Med	Low	Transplant		Affected by site formation works
T142	154	Schinus molle	木荷	85.2	11	0.19	6	Good	Good	High	Med	Retain		Twin-trunk and bending trunk. Die-back branch observed
T143	155	Schinus molle	木荷	86.1	7	0.11	3	Good	Good	High	Med	Retain		Leaning trunk with die-back branch
T144	156	Acacia confusa	臺灣相思	87.7	9	0.16	4	Fair	Fair	Med	Low	Retain		Die-back branch and bark damage observed
T145	157	Acacia confusa	臺灣相思	87.6	6	0.13	3	Poor	Poor	Low	Low	Retain		With disease
T146	158	Lophospermum confertus	紅膠木	87.8	11	0.23	4	Good	Fair	Med	Low	Retain		Die-back branch observed
T147	159	Acacia confusa	臺灣相思	86.5	6	0.13	3	Fair	Fair	Med	Low	Retain		Unbalanced crown
T148	160	Acacia confusa	臺灣相思	85.8	6	0.11	3	Fair	Fair	Med	Low	Retain		Die-back branch observed
T149	161	Acacia confusa	臺灣相思	86.2	9	0.17	4	Fair	Fair	Med	Low	Retain		Unbalanced crown
T150	162	Acacia confusa	臺灣相思	86.3	9	0.13	3	Fair	Fair	Med	Low	Retain		Die-back branch observed
T151	163	Casuarina equisetifolia	木麻黃	86.4	9	0.14	2	Fair	Good	Med	Low	Retain		Three main trunk. Leaning trunk. Die-back branch observed
T152	164	Acacia confusa	臺灣相思	87.3	12	0.18	4	Fair	Fair	Med	Low	Retain		Unbalanced crown
T153	165	Acacia confusa	臺灣相思	87.3	13	0.18	4	Fair	Fair	Med	Low	Retain		Twin-trunk. Leaning trunk with disease
T154	166	Acacia confusa	臺灣相思	87.2	12	0.16	3	Fair	Fair	Med	Low	Retain		Bending trunk
T155	168	Acacia confusa	臺灣相思	87.3	12	0.16	3	Fair	Fair	Med	Low	Retain		Climber growing on tree. Leaning trunk
T156	167-168	Lophospermum confertus	紅膠木	86.9	11	0.23	4	Good	Fair	Med	Low	Retain		Bark damage observed
T157	170	Lophospermum confertus	紅膠木	86.4	12	0.17	5	Good	Good	High	Low	Retain		
T158	172	Lophospermum confertus	紅膠木	85.5	13	0.17	4	Good	Good	High	Low	Retain		
T159	173	Acacia confusa	臺灣相思	86.5	9	0.13	2	Fair	Fair	Med	Low	Retain		Leaning trunk
T160	169	Acacia confusa	臺灣相思	85.5	6	0.12	4	Fair	Fair	Med	Low	Retain		Unbalanced crown and leaning trunk
T161	172	Lophospermum confertus	紅膠木	85.3	13	0.25	5	Good	Fair	Med	Low	Retain		With disease
T162	174	Lophospermum confertus	紅膠木	84.7	8	0.19	2	Fair	Fair	Med	Low	Retain		Head being hard pruned
T163	171,175	Lophospermum confertus	紅膠木	85.0	11	0.16	3	Good	Fair	Med	Low	Retain		Unbalanced crown and bark damage observed
T164	176	Lophospermum confertus	紅膠木	84.1	12	0.25	4	Good	Fair	Med	Low	Retain		Unbalanced crown and bark damage observed
T165	177	Lophospermum confertus	紅膠木	85.1	13	0.25	4	Good	Good	High	Low	Retain		
T166	178	Lophospermum confertus	紅膠木	85.5	9	0.16	3	Good	Good	High	Low	Retain		
T167	179	Acacia confusa	臺灣相思	85.2	8	0.16	4	Fair	Fair	Med	Low	Retain		Multi-trunk. Die-back trunk observed
T168	181	Acacia confusa	臺灣相思	83.8	10	0.15	6	Fair	Fair	Med	Low	Retain		Multi-trunk. Die-back trunk observed
T169	182	Lophospermum confertus	紅膠木	83.9	12	0.18	3	Good	Fair	Med	Low	Retain		With disease. Die-back branch observed
T170	183	Acacia confusa	臺灣相思	84.0	6	0.10	3	Fair	Fair	Med	Low	Retain		Leaning trunk. Bark damage observed
T171	184	Acacia confusa	臺灣相思	84.0	12	0.30	8	Fair	Fair	Med	Low	Retain		Leaning trunk with disease
T172	180	Micrantha lananias	血桐	83.0	4	0.12	3	Fair	Good	Low	High	Retain		Leaning trunk
T173	185	Dalbergia balansae	南嶺黃攏	83.0	4	0.12	3	Fair	Fair	Med	High	Retain		Die-back branch observed
T174	186	Dalbergia balansae	南嶺黃攏	82.8	16	0.20	5	Good	Good	High	High	Retain		Unbalanced crown and die-back branch observed
T175	188	Dalbergia balansae	南嶺黃攏	82.6	13	0.24	5	Fair	Fair	Med	Med	Transplant		Unbalanced crown
T176	188	Dalbergia balansae	南嶺黃攏	82.5	15	0.23	7	Fair	Fair	Med	Med	Transplant		Affected by site formation works
T177	187	Dalbergia balansae	南嶺黃攏	82.5	11	0.16	6	Fair	Fair	Med	Med	Retain		Affected by site formation works
T178	189	Schinus molle	木荷	82.5	7	0.12	5	Fair	Good	Med	Med	Retain		Leaning trunk
T179	191	Dalbergia balansae	南嶺黃攏	82.1	9	0.11	4	Fair	Good	Med	High	Retain		Bending trunk
T180	192	Dalbergia balansae	南嶺黃攏	82.3	13	0.18	4	Fair	Good	Med	High	Retain		Unbalanced crown
T181	192	Schinus molle	木荷	82.4	14	0.12	2	Good	Good	High	Med	Retain		
T182	190	Acacia auriculiformis	耳果相思	75.1	7	0.12	4	Fair	Fair	Low	Low	Retain		
T183	190	Acacia auriculiformis	耳果相思	75.3	7	0.16	4	Fair	Fair	Med	Low	Retain		
T184	193	Acacia auriculiformis	耳果相思	73.2	7	0.13	3	Fair	Fair	Low	Low	Retain		
T185	193	Acacia auriculiformis	耳果相思	73.2	7	0.13	3	Fair	Fair	Low	Low	Retain		
T186	194	Acacia auriculiformis	耳果相思	76.6	9	0.22	5	Fair	Fair	Med	Low	Retain		
T187	195	Acacia auriculiformis	耳果相思	77.9	7	0.16	4	Fair	Fair	Med	Low	Retain		
T188	196	Acacia auriculiformis	耳果相思	77.9	7	0.20	5	Fair	Fair	Med	Low	Retain		
T189	197	Acacia auriculiformis	耳果相思	77.3	7	0.13	3	Fair	Fair	Low	Low	Retain		
T190	198	Acacia auriculiformis	耳果相思	77.5	6	0.10	3	Fair	Fair	Low	Low	Retain		

TREE NO.	PHOTO NO.	BOTANICAL NAME	CHINESE NAME	LEVEL (mpd)	SIZE (M)			FORM (Poor/Fair/Good)	HEALTH & CONDITION (Poor/Fair/Good)	AMENITY VALUE (Low/Med/High)	SURVIVAL RATE AFTER TRANSPLANTING (Low/Med/High)	RECOMMENDATION	JUSTIFICATION	REMARKS
					Height	Diameter	Spread							
T191	198	Acacia auriculiformis	耳果相思	77.7	7	0.14	5	Fair	Fair	Med	Low	Retain		
T192	199	Acacia auriculiformis	耳果相思	77.5	7	0.24	4	Good	Fair	Med	Low	Retain		
T193	200	Acacia auriculiformis	耳果相思	77.7	6	0.20	4	Fair	Good	Med	Low	Retain		
T194	200	Acacia auriculiformis	耳果相思	77.6	6	0.13	2	Fair	Good	Med	Low	Retain		
T195	201	Acacia auriculiformis	耳果相思	78.1	7	0.20	4	Fair	Fair	Med	Low	Retain		
T196	202	Acacia auriculiformis	耳果相思	78.0	6	0.13	3	Fair	Fair	Med	Low	Retain		
T197	203	Acacia auriculiformis	耳果相思	77.8	7	0.17	4	Fair	Fair	Med	Low	Retain		With disease, Damage found on trunk
T198	204	Acacia auriculiformis	耳果相思	78.2	7	0.16	4	Good	Fair	Med	Low	Retain		Unbalanced crown
T199	205	Acacia auriculiformis	耳果相思	78.2	8	0.14	4	Fair	Fair	Med	Low	Retain		
T200	206	Acacia auriculiformis	耳果相思	78.4	7	0.11	3	Fair	Fair	Low	Low	Retain		
T201	207	Acacia auriculiformis	耳果相思	78.4	7	0.11	3	Fair	Fair	Low	Low	Retain		
T202	208	Acacia auriculiformis	耳果相思	79.2	8	0.12	5	Fair	Fair	Low	Low	Retain		With disease, Bending trunk
T203	209	Acacia auriculiformis	耳果相思	79.9	7	0.10	4	Fair	Fair	Low	Low	Retain		
T204	210	Acacia auriculiformis	耳果相思	79.2	7	0.10	3	Fair	Fair	Low	Low	Retain		Unbalanced crown
T205	211	Acacia auriculiformis	耳果相思	79.5	8	0.17	4	Fair	Fair	Med	Low	Retain		
T206	212	Acacia auriculiformis	耳果相思	79.5	8	0.15	4	Fair	Fair	Med	Low	Retain		
T207	213	Acacia auriculiformis	耳果相思	79.1	8	0.15	4	Fair	Fair	Med	Low	Retain		
T208	214	Acacia auriculiformis	耳果相思	78.7	7	0.14	4	Fair	Fair	Med	Low	Retain		Leaning trunk
T209	215	Acacia auriculiformis	耳果相思	79.0	9	0.13	4	Fair	Fair	Med	Low	Retain		Unbalanced crown
T210	216	Acacia auriculiformis	耳果相思	82.2	8	0.13	4	Fair	Fair	Med	Low	Retain		Unbalanced crown
T211	217,218	Acacia auriculiformis	耳果相思	82.4	7	0.11	4	Fair	Fair	Low	Low	Retain		Cavity found on trunk
T212	219	Acacia auriculiformis	耳果相思	82.6	7	0.12	4	Fair	Fair	Low	Low	Retain		
T213	220	Acacia auriculiformis	耳果相思	82.8	8	0.10	3	Fair	Fair	Low	Low	Retain		Unbalanced crown
T214	221	Acacia auriculiformis	耳果相思	82.5	7	0.10	3	Poor	Fair	Low	Low	Retain		Bending trunk and unbalanced crown
T215	222	Acacia auriculiformis	耳果相思	82.6	7	0.12	3	Fair	Good	Low	Low	Retain		
T216	223	Acacia auriculiformis	耳果相思	81.5	8	0.14	4	Good	Fair	Med	Low	Retain		
T217	224	Acacia auriculiformis	耳果相思	81.0	7	0.12	4	Poor	Fair	Low	Low	Retain		Bending trunk and unbalanced crown
T218	225	Acacia auriculiformis	耳果相思	82.5	8	0.10	4	Fair	Fair	Low	Low	Retain		Unbalanced crown
T219	226	Acacia auriculiformis	耳果相思	81.5	7	0.10	4	Fair	Fair	Low	Low	Retain		
T220	227	Acacia auriculiformis	耳果相思	81.3	8	0.15	5	Fair	Good	Med	Low	Retain		
T221	228	Acacia auriculiformis	耳果相思	81.0	7	0.14	4	Fair	Fair	Med	Low	Retain		
T222	229	Acacia auriculiformis	耳果相思	81.2	5	0.11	4	Fair	Fair	Low	Low	Retain		With disease, climber growing on tree
T223	230	Acacia auriculiformis	耳果相思	81.4	8	0.13	4	Fair	Fair	Med	Low	Retain		With disease
T224	231	Acacia auriculiformis	耳果相思	80.7	7	0.14	4	Fair	Fair	Med	Low	Retain		With disease
T225	232	Acacia auriculiformis	耳果相思	80.5	6	0.11	4	Fair	Fair	Low	Low	Retain		With disease
T226	232	Acacia auriculiformis	耳果相思	80.2	6	0.10	3	Fair	Fair	Low	Low	Retain		
T227	233	Acacia auriculiformis	耳果相思	80.0	6	0.15	5	Poor	Fair	Med	Low	Retain		Leaning trunk, unbalanced crown
T228	234	Acacia auriculiformis	耳果相思	78.7	6	0.12	5	Fair	Fair	Low	Low	Retain		
T229	235	Acacia auriculiformis	耳果相思	78.0	6	0.15	3	Good	Good	Med	Low	Retain		Climber growing through tree
T230	236	Acacia auriculiformis	耳果相思	76.9	6	0.14	4	Fair	Fair	Med	Low	Retain		Leaning trunk, Climber growing on tree
T231	237	Trema tomentosa	山黃麻	75.2	5	0.10	4	Fair	Fair	Med	High	Retain		
T232	239	Acacia auriculiformis	耳果相思	76.7	5	0.11	3	Fair	Fair	Low	Low	Retain		Climber growing on tree
T233	241	Macaranga tanarius	血桐	76.5	5	0.16	4	Fair	Fair	Low	High	Retain		Climber growing on tree
T234	238	Macaranga tanarius	血桐	76.4	5	0.10	4	Fair	Fair	Low	High	Retain		Bending trunk, Climber growing on tree
T235	242	Macaranga tanarius	血桐	76.5	6	0.12	4	Fair	Good	Low	High	Retain		Leaning trunk, Climber growing on tree
T236	244	Macaranga tanarius	血桐	76.6	6	0.11	4	Fair	Good	Low	High	Retain		Climber growing on tree
T237	240	Trema tomentosa	山黃麻	77.2	5	0.15	4	Fair	Fair	Med	Low	Retain		Leaning trunk, Climber growing on tree
T238	243	Macaranga tanarius	血桐	78.1	5	0.10	4	Fair	Fair	Low	Low	Retain		Climber growing on tree

Appendix D

Details of Landscape Mitigation Measures

附錄 D 景觀緩解措施之詳細資料

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LEGEND :

- WORKS BOUNDARY
- PROPOSED FENCE BOUNDARY
- EXISTING TREE TO BE RETAINED
- PROPOSED HEAVY STANDARD TREES
- PROPOSED WOODLAND MIX PLANTING
- PROPOSED SHRUB PLANTING

A	NO./DATE	REVISED FORMATION	DESCRIPTION	INITIAL	DATE
	no.	date	簽署	initial	日期
繪製	drawn				
核對	checked				
加簽	endorsed				
核准	approved				

H. W. CHUNG
 E/Design(13)

合約編號
 contract no.

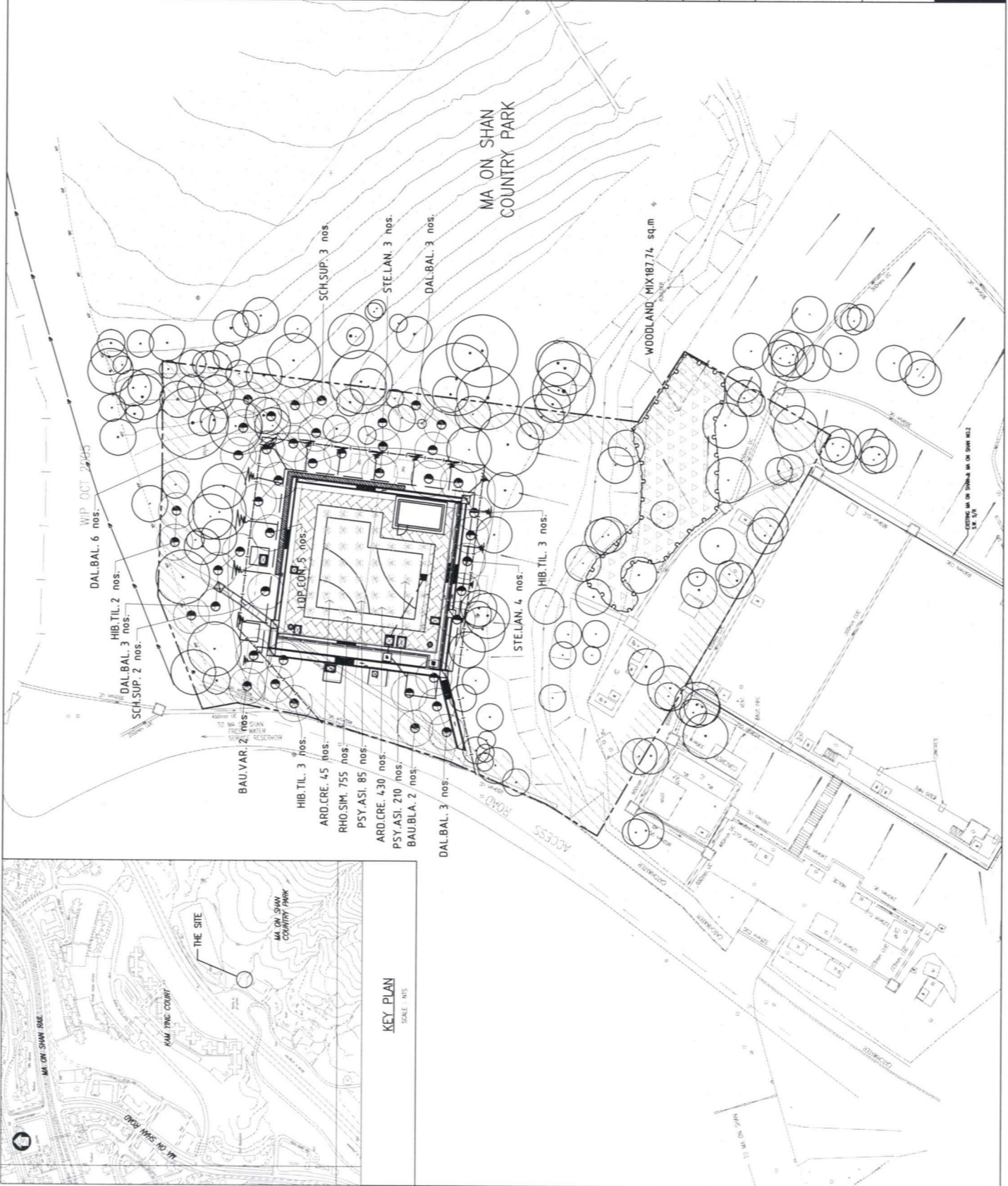
檔案編號
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工務編號
 PWP no. 046 WS

圖則名稱 drawing title
 COMPENSATORY PLANTING PLAN

圖則編號
 drawing no. WSD4/MOS/CP/01

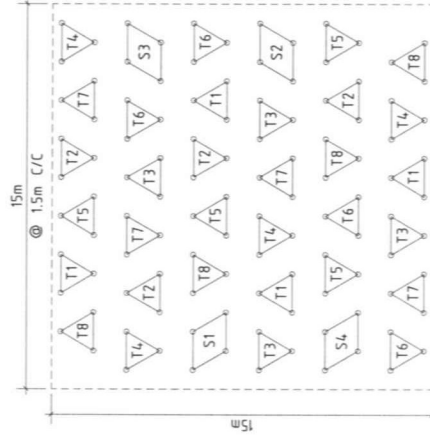
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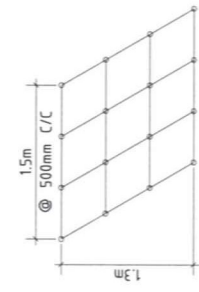
KEY PLAN
 SCALE : 1:1000

PLANTING SCHEDULE

Abb.	Scientific Name	Chinese Name	Size (Ht x Sp)/mm	Spacing (mm)	Remark	Quantity
Tree						
BAU.BLA.	Bauhinia blakeana	洋紫荊	Heavy Standard	As shown		2
BAU.VAR.	Bauhinia variegata	宮粉羊蹄甲	Heavy Standard	As shown		2
DAL.BAL.	Dalbergia balansae	南嶺黃檀	Heavy Standard	As shown		15
HIB.TIL.	Hibiscus tiliaceus	黃槿	Heavy Standard	As shown		8
LOP.CON.	Lophostemon confertus	紅膠木	Heavy Standard	As shown		5
SCH.SUP.	Schima superba	木荷	Heavy Standard	As shown		5
STE.LAN.	Sterculia lanceolata	假蘋婆	Heavy Standard	As shown		7
Shrub						
ARD.CRE.	Ardisia crenata	朱砂槲	400 x 300	500		475
PSY.ASI.	Psychotria asiatica	九節	400 x 300	500		295
RHO.SIM.	Rhododendron simsii	紅杜鵑	300 x 200	300		755
Woodland Mix Planting						
Trees (Whip Size)						
T1	Acronychia pedunculata	山油柑	Whip	1500		10
T2	Cyclobalanopsis myrsinaefolia	小葉黃岡	Whip	1500		10
T3	Gordonia axillaris	大頭茶	Whip	1500		10
T4	Machilus breviflora	短序潤楠	Whip	1500		10
T5	Michelia figo	含笑	Whip	1500		10
T6	Reevesia thyrsoides	梭羅樹	Whip	1500		10
T7	Schima superba	木荷	Whip	1500		10
T8	Syzygium hancei	韓氏蒲桃	Whip	1500		10
Shrubs (medium size)						
S1	Gardenia jasminoides	梔子	500 x 300	500		13
S2	Melastoma sanguineum	毛萼	300 x 200	500		13
S3	Raphiolepis indica	車輪梅	500 x 300	500		13
S4	Rhodomyrtus tomentosa	桃金娘	300 x 200	500		13



WOODLAND MIX PLANTING MATRIX
(PLANT SPACING @ 1.5m C/C)



ENLARGED SHRUB
GROUP LAYOUT (TYP.)
(S1-S4)

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LEGEND :
TREE SPECIES IN WHIP SIZE
(REFER TO PLANT SCHEDULE)
SHRUB SPECIES IN MEDIUM
SIZE (REFER TO PLANT
SCHEDULE)

A	NO.	DATE	REVISION NUMBER	DESCRIPTION	INITIAL
				簽署	日期
				initial	date

繪製
drawn

核對
checked

加
endorsed

核准
approved

合約編號
contract no.

檔案編號
file no.

工務編號
PWP no.

圖則名稱
drawing title

COMPENSATORY PLANTING
SCHEDULE

H. W. CHUNG
E/Design(13)

圖則編號
drawing no.

比例
scale

WSD4/MOS/CP/02

N.T.S.



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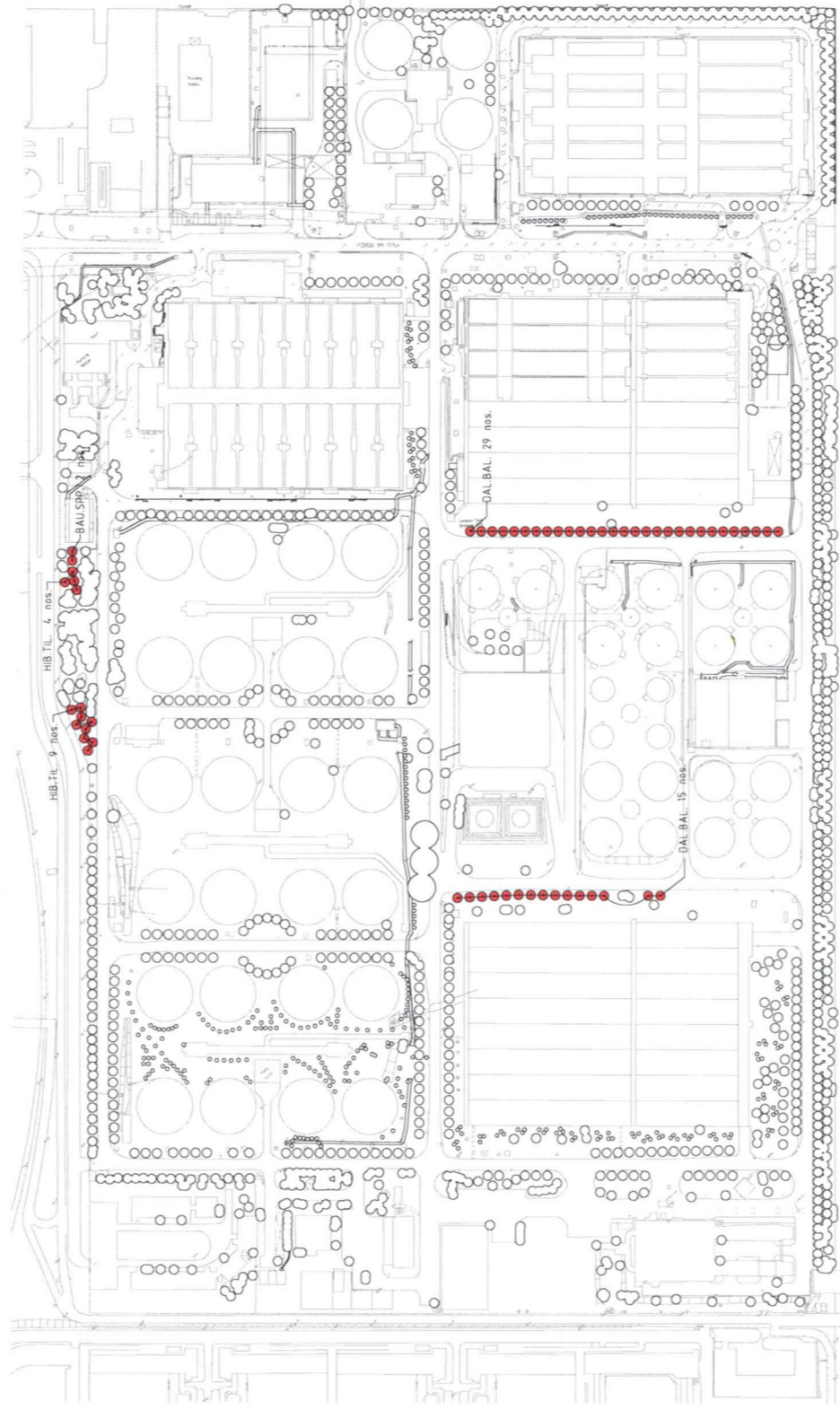
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METERS ABOVE P.A.S.L.
3. THE LOCATION OF EXISTING TREES ARE INDICATED ONLY.
4. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE DRAWING TEND TO CONSTRUCTION OF THE WORKS.

LEGENDS :

- EXISTING TREES
- NEW PLANTED TREES

TRANSPLANTED TREES SCHEDULE

ABB.	SCIENTIFIC NAME	CHINESE NAME	SPACING	PHI	SIZE	PHI	REMARKS	QTY
BAL.SPP	BALANSA SPP.	洋銀甲樹	AL	1000	1000	1000	HENRY SITE	2
DAL.BAL	DALBERGIA BALANSAE	兩葉黃連	AL	1000	1000	1000	HENRY SITE	44
HIB.TIL.	HIBISCUS TILAGEUS	黃 葵	AL	1000	1000	1000	HENRY SITE	11



NO.	DATE	BY	REVISION
1	17 AUG 17	AK	ISSUE FOR PERMIT
2	17 AUG 17	AK	ISSUE FOR CONTRACT
3	17 AUG 17	AK	ISSUE FOR CONSTRUCTION

PROJECT NO. 046 WS
DRAWING TITLE: UPRATING OF SHATIN SALT WATER SUPPLY SYSTEM - MA ON SHAN NO.3 SALT WATER SERVICE RESERVOIR

PROPOSED TRANSPLANT TREES RECEPTION SITE AT SHATIN SEWAGE TREATMENT WORKS

DRAWING NO. WSD4/TW/01
SCALE 1:1000



Appendix E

Agreement e-mail from Drainage Services Department

附錄 E 渠務署對移植計劃贊同的電子郵件

From: freddietsang@dsd.gov.hk [mailto:freddietsang@dsd.gov.hk]

Sent: Thursday, August 23, 2007 15:27

To: Tuan Huy Tran

Cc: Bonnie Pang; David Morkel; Jan Poon; thomas_hw_chung@wsd.gov.hk; fedrickkan@dsd.gov.hk; kkchoi@dsd.gov.hk; kpip@dsd.gov.hk; wschui@dsd.gov.hk; yklam@dsd.gov.hk; tmyip@dsd.gov.hk; tonychang@dsd.gov.hk; mktsang@dsd.gov.hk; kfwai@dsd.gov.hk; tochan@dsd.gov.hk

Subject: WSD4 - Upgrading of Ma On Shan No. 3 Salt Water Service Reservoir - Proposed Receptor Sites for Transplant Trees

Dear Mr. Tran,

Your e-mail of 8.8.2007 refers.

Having considered your responses to our previous queries, our O&M colleagues agree in principle to your proposal of transplanting trees to Shatin STW.

As discussed (Tran/Tsang) today, please provide further details of the tree transplanting such as programme and works arrangement well in advance for comments and agreement by our O&M colleagues. You are also reminded to allow adequate permanent vehicular access when arranging the transplanted trees along PST 9 to AT 9, i.e. (a) at the inlet side of PST 9 with the existing Ferric Chloride Storage Tanks & (b) the area facing to the staircase for accessing to PST and AT No. 9.

Also for your information and planning, three (3) forthcoming contracts involving civil and E&M works in Shatin STW will commence in early 2008. Liaison on works interface will therefore be required.

Regards,

Freddie Tsang
E/S1, Sewerage Projects Division
Drainage Services Department
Tel: 2594 7459
Fax: 2827 8700