

**PROJECT PROFILE
FOR
PROPOSED INSTALLATION
OF
INTEGRATED
MOBILE PHONE BASE STATION
AT
MA ON SHAN COUNTRY PARK**

Under Environmental Impact Assessment Ordinance (Cap. 499) S.5(1)(b) & S.5(11)

Project Profile for Proposed Installation of Integrated Mobile Phone Base Station at Ma On Shan Country Park

Basic Information

Project Title

1. Proposed Installation of Integrated Mobile Phone Base Station at Ma On Shan Country Park.

Purpose and Nature of the Project

2. Since the Pat Sin Leng Hill Fire, an inter-departmental Investigation Team has recommended to encourage mobile phone operators to provide full coverage of their services in the countryside. The project is therefore a joint development of all the mobile phone operators with Government to improve the mobile phone coverage in order to provide alternative communication means to the visitors in country park.

Name of Project Proponent

3. Smartone Mobile Communications Limited.

Location and Scale of the Project

4. The integrated mobile phone base station is proposed to be built on a slope within the area of Ma On Shan Country Park as shown on the location plan at Appendix 1. There are a BBQ area and an AFD office located at 150 metres in the direction of S45°E and at 220 metres in the direction of S10°E of the site respectively. It will occupy an area of 82.5 square metres [11m (l) x 7.5m (w)]. There will be fences surrounding the base station in which mobile phone equipment, two aerial poles of 13 metres high and two small houses of 2.5 metres high for public utilities will be erected.
5. Country and Marine Parks Authority have agreed to the establishment of an integrated mobile phone base station at the proposed location. The relevant project leader, namely SmarTone Mobile Communications Limited has accepted District Lands Office offer of a Short Term Tenancy (STT No.1070).

6. Public utilities such as electricity supply and telecommunication lines will be installed for the integrated mobile phone base station.
7. The radio coverage and the impact on the environment are the salient factors in the site selection process. The proposed sites are considered to provide significant radio coverage to the country park. Other alternatives have also been considered. However the other locations would either provide inferior radio coverage or have more impact on the environment especially the laying of power and telephone facilities for the operation of the Integrated Mobile Phone Base Station.

Number and Types of Designated Projects to be Covered

8. The project involves an integrated mobile phone base station to be installed at the proposed location as shown in Appendix 1. According to EIAO Schedule 2, PART I, Section Q.1, the proposed project is a designated project as it involves building works in an existing country park and it is not under exceptional cases in Section Q1(a) to (j).

Name and Telephone Number of Contact Person

9. The contact person for this project

Outline of Planning and Implementation Programme

Planning and Implementation

10. The project is planned by SmarTone Mobile Communications Limited and there will be a total of eleven mobile phone networks to be installed at the proposed location.
11. Upon the grant of short term tenancy and environmental permit by the District Lands Office and Environmental Protection Department, the project leader, SmarTone Mobile Communications Limited, will start the construction work in accordance with the work schedule.

Work Schedule

12. The construction work including the equipment and antennas installation is proposed to be commenced in mid-January 2000 and to be completed in mid-May 2000. It is proposed that the mobile phone station will be put into operation in mid-August 2000. The proposed work schedule is given at Appendix 2.

Possible Impact on the Environment

Construction Impacts

13. The landscape and visual impact during construction and after completion of work is considered and addressed in item no. 23.
14. Noise emission during the construction and on completion of the projects is considered to be minimal and addressed in item no. 24.
15. Disposal of waste including some surplus construction material and some general refuse is considered and addressed in item no. 25.
16. Dust impact from construction activities is considered to be minimal and is addressed in item no. 26.
17. Earthworks operation is nearly not required and there will be no blasting operation.
18. Night time work is not required for the construction of the projects.
19. No ecological impact is anticipated during the construction and on completion of the project.

Operational Impacts

20. In order to reduce the visual intrusion, the proposed site is situated away from prominent roadside and virgin hilltops. For the tree felling works, the proponent (Smartone Mobile Communications Limited) will follow the following guidelines:
- a) irreplaceable rare tree species will not be cut;
 - b) tree felling, if any, will not cause series environment impact;
 - c) all tree felling works are of genuine development need; and
 - d) compensatory planting, to the satisfaction of Country and Marine Parks Authority will be undertaken (to comply with the special condition in the Short Term Tenancy(STT No.1070)).

The tree survey report for the tree to be felled is at Appendix 4.

21. Completion of the Integrated Mobile Phone Base Station will not cause any significant change to the environment. Unsightly visual appearance is not anticipated as the site is surrounded by trees and shrubs and compensatory planting will be taken. The site layout plan, isometric view of site and photographs are shown in Appendix 3 to illustrate the appearance of the Integrated Mobile Base Station.

Major Elements of the Surrounding Environment

22. The major elements of the surrounding environment are as follows: -

Countryside setting

The site is situated away from the picnic area and the rest area of Ma On Shan Country Park. Adjacent to the site is the footpath leading to top of the hill situated on either sides of the proposed station. There are a latrine, a BBQ area and an AFD's office of 150 metres or more apart. No existing and planned noise sensitive receiver is located in the surrounding environment. Furthermore no ecological sensitive receiver and heritage sensitive receiver is located in the surrounding environment. Therefore the installation will not affect the present setting of the countryside as substantial compensatory planting will be arranged to screen off the proposed base station.

Surrounding by trees and shrubs

The site is surrounded by trees and 4 nos. of young trees (2 are Eucalyptus Robusta and 2 are Acacia Confusa) in the proposed site area which are commonly found in Hong Kong would unavoidably to be felled to provide the necessary area for the installation of the proposed base station and the survey report for these trees is attached in Appendix 4 for reference. Compensatory planting will be provided to screen off the base station from the adjacent footpath and to minimise the landscape and visual impact on the environment.

Environmental Protection Measures to be Incorporated in the Design and any Further Environmental Implications

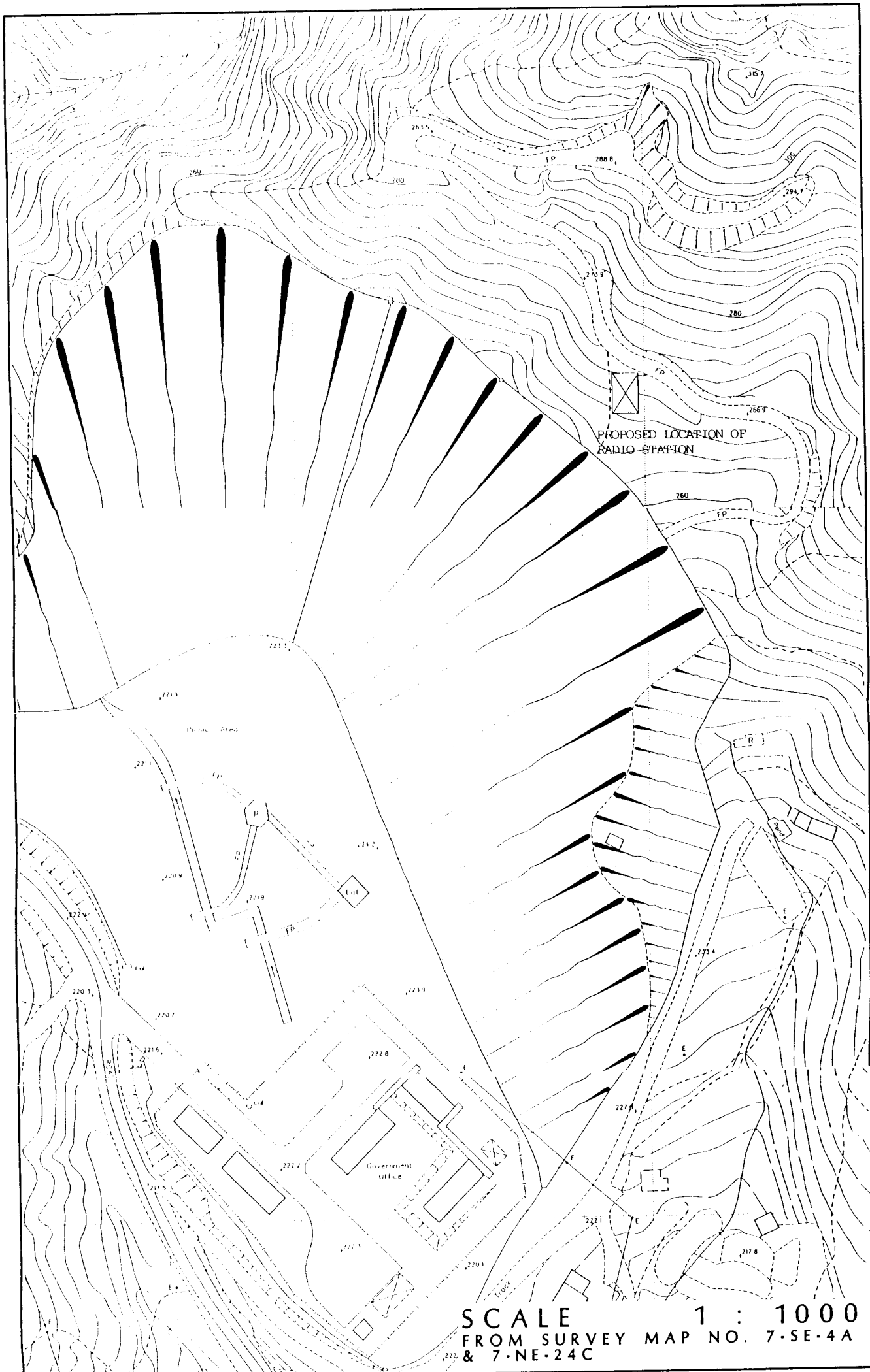
23. The site layout and building design was planned with the comments of Country and Marine Park Authority incorporated. The project proponent (Smartone Mobile Communications Limited) will carry out plantation of trees around the site according to the instruction of Country and Marine Parks Authority to screen off the base station from the adjacent footpath and to minimise the landscape and visual impact on the environment. In order to further avoid the visual impact of the station, the equipment and the antenna pole will be painted in subdued colour to match the surroundings.
24. Although noise impact is anticipated to be minimal during the construction, construction activities will be carried out in daytime as far as possible (9:00 – 19:00). Since there will be hikers enjoying their recreational activities in the Country Park at the weekend and public holidays, no construction work will be scheduled on Saturday, Sunday and public holidays in order to minimise the impact on the hikers.
25. The sites will be screened by temporary hoarding during construction. The waste materials will be stockpiled inside the site area and will be removed off site as soon as possible.
26. The site will be completely water down to minimise any dust that may be generated during the construction stage.
27. The Standard Pollution Mitigation Measures will be incorporated in relevant works contracts during the construction phase of the works. The operation of the proposed sites is unmanned and will not generate noise nor have effect on air quality and water quality.

28. The operation of the proposed Integrated Mobile Phone Base Station will strictly comply with the “Code of Practice for the Protection of Workers and Members of Public Against Non-Ionising Radiation Hazards from Radio Transmitting Equipment” issued by OFTA. The proposed location of the station is quite remote from the area for human activities, e.g. BBQ area and AFD office and the area for inhabitancy. Furthermore, the location of the emitter of the station is at least 10 metres above the human head pointing away from the inhabitance. In this regard, a non-ionising radiation hazard has no significant impact on the public is expected.
29. The Integrated Mobile Base Station will be cleaned and painted every year if necessary to maintain the good condition of the site. In case of any trouble shooting and emergency repair, the periodic inspection will only be carried out every three months in the first year and once a year afterwards. The low inspection frequency will therefore not give any significant impact on the environment.

Appendices

Appendix 1	Site Location Plan
Appendix 2	Proposed Work Schedule
Appendix 3	Site Layout Plan, Isometric View Plan and Site Photos
Appendix 4	Tree Survey Report

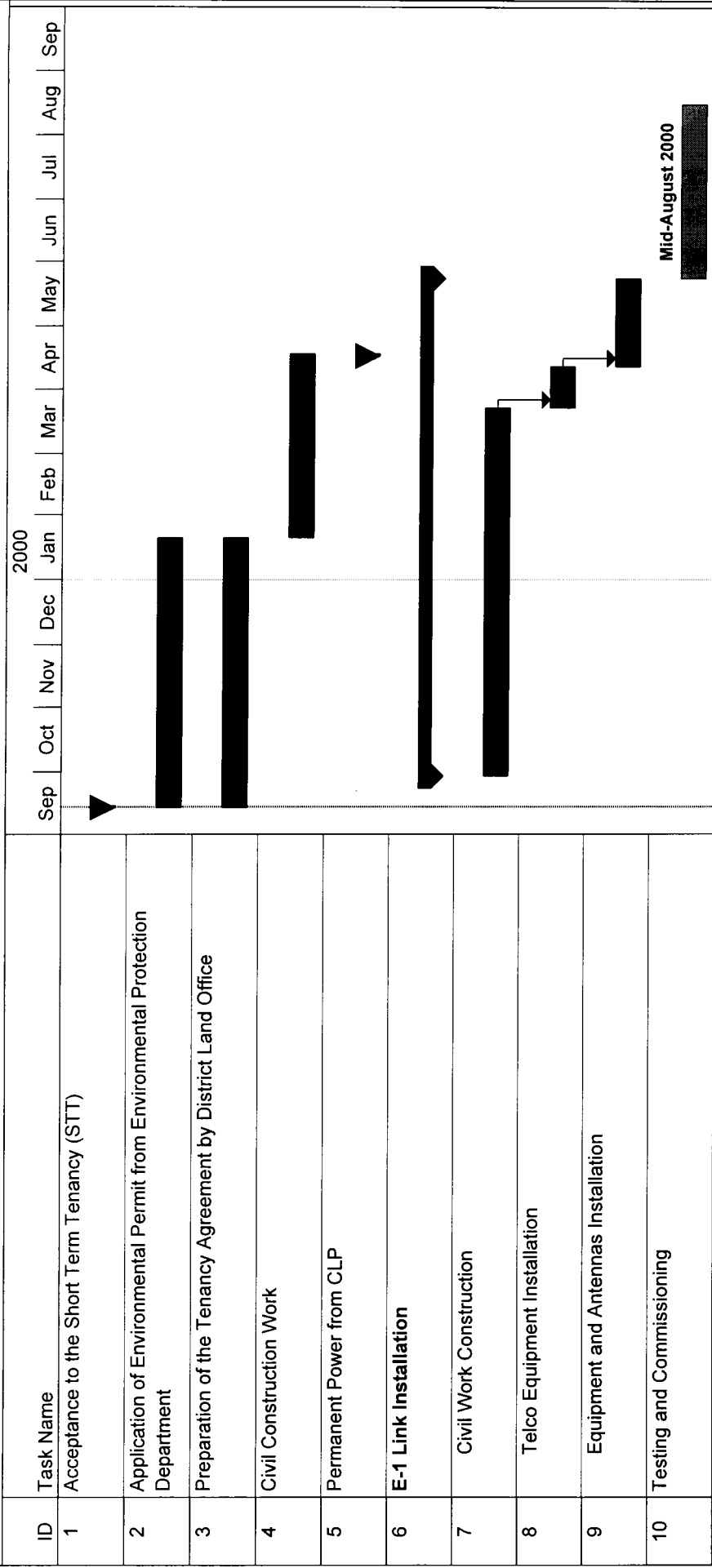
APPENDIX 1



SCALE 1 : 1000
FROM SURVEY MAP NO. 7-SE-4A
& 7-NE-24C

APPENDIX 2

Tentative Project Timeline for Ma On Shan Country Park

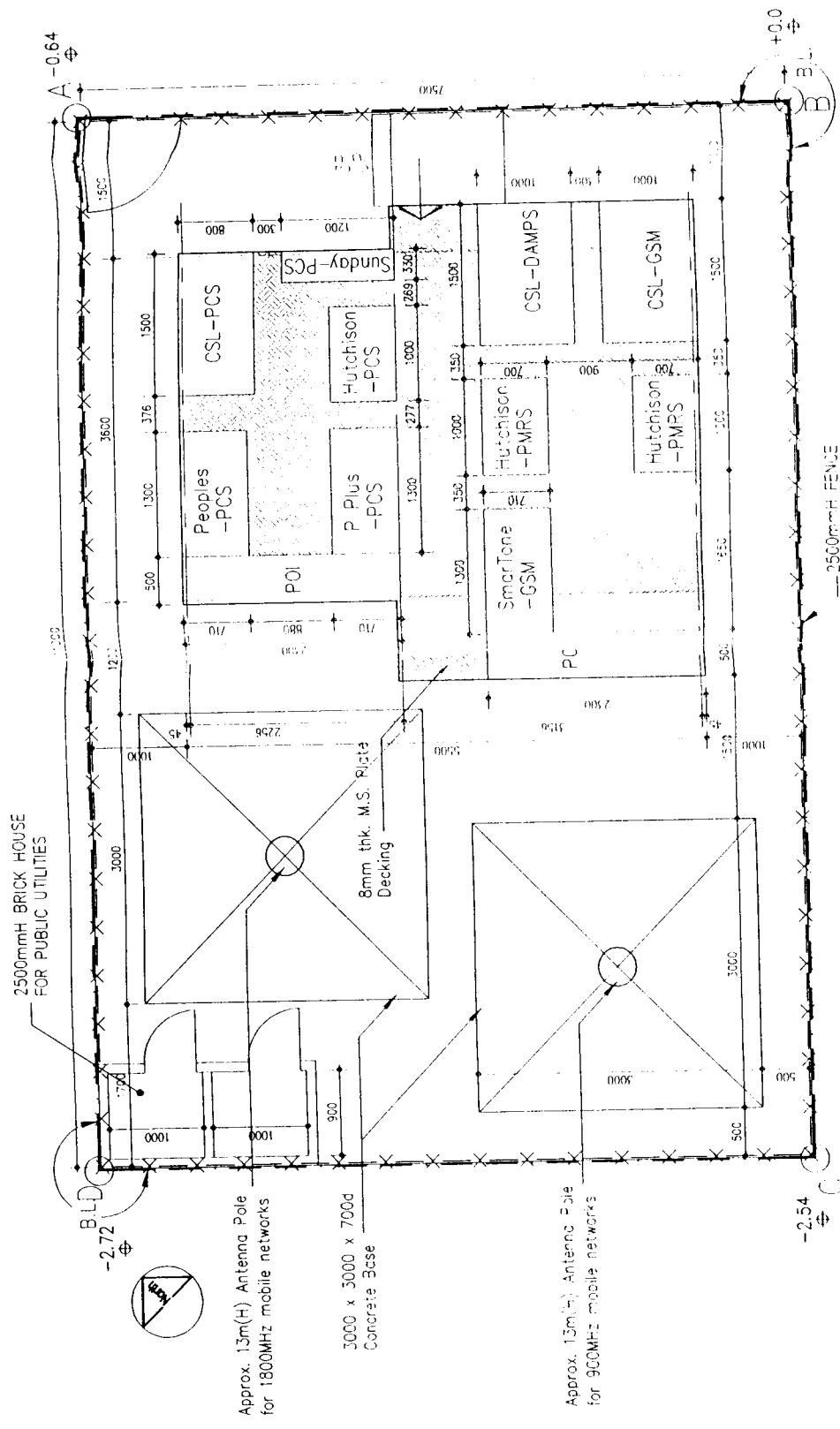


Project: Ma On Shan Country Park
 Date: Tue 14-09-99 By: Jeremy Chan
 Remarks: Saturday, Sunday & Public Holiday - OFF

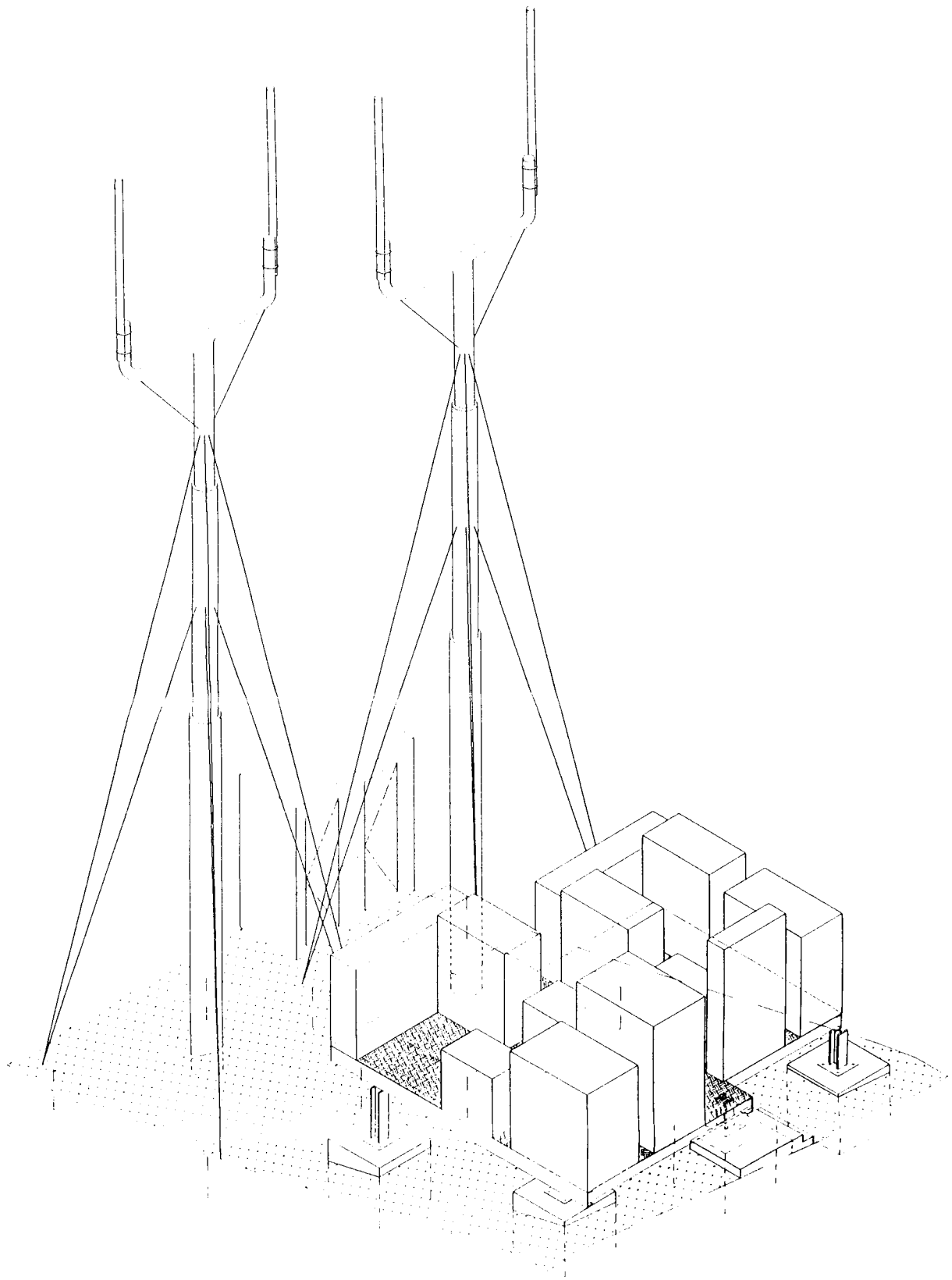
Task Summary Milestone

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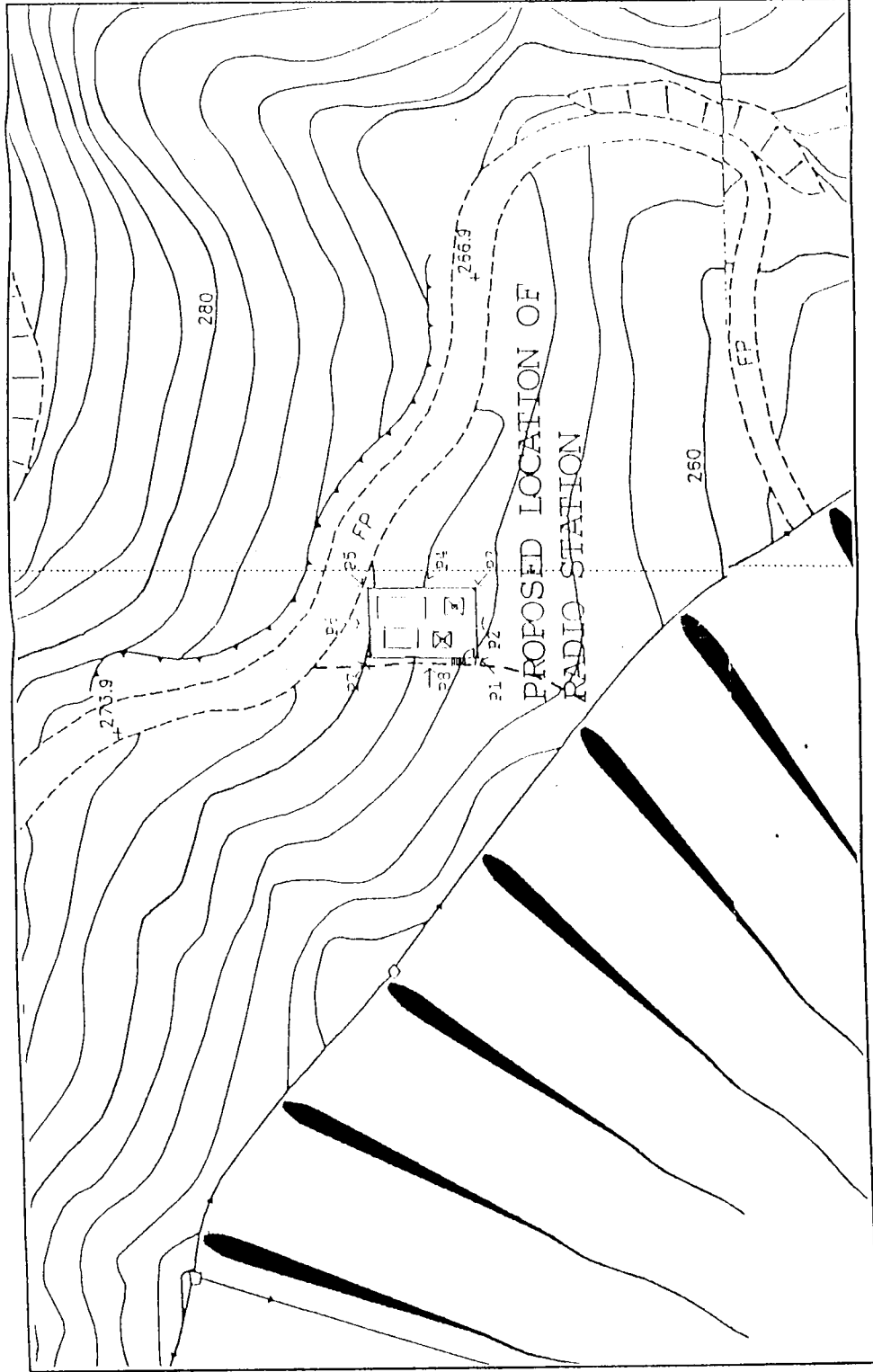
APPENDIX 3



SITE LAYOUT PLAN



ISOMETRIC VIEW



PHOTOS MARKING PLAN

MA ON SHAN COUNTRY PARK



PHOTO 1

SmarTone Mobile Communications Limited

MA ON SHAN COUNTRY PARK



PHOTO 2

SmarTone Mobile Communications Limited

MA ON SHAN COUNTRY PARK

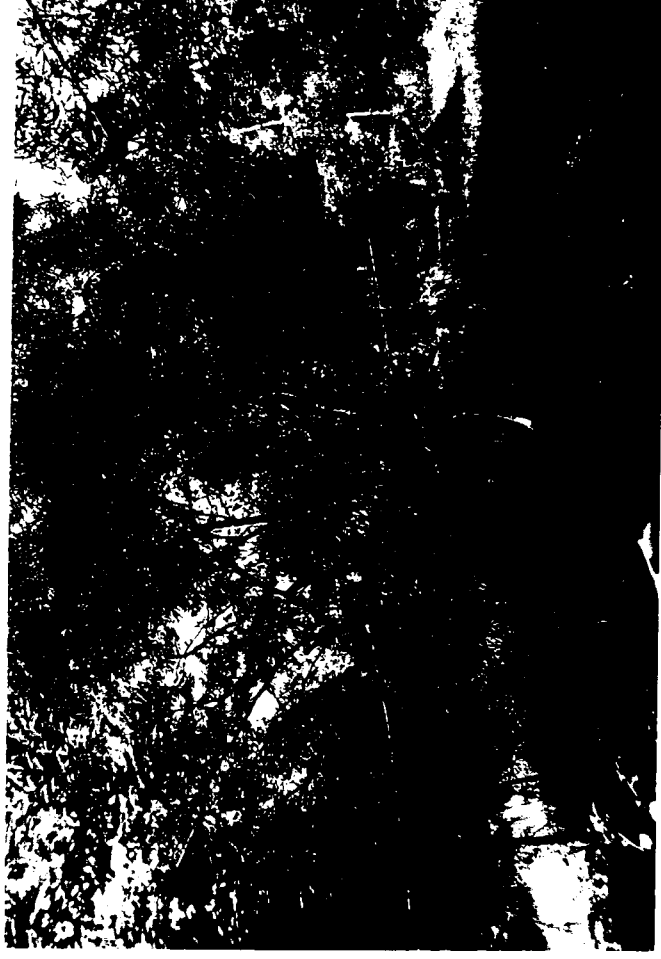


PHOTO 3

SmarTone Mobile Communications Limited

MA ON SHAN COUNTRY PARK



PHOTO 4

SmarTone Mobile Communications Limited

MA ON SHAN COUNTRY PARK



PHOTO 5

MA ON SHAN COUNTRY PARK



PHOTO 6

SmarTone Mobile Communications Limited

MA ON SHAN COUNTRY PARK



PHOTO 7

MA ON SHAN COUNTRY PARK



PHOTO 8

SmarTone Mobile Communications Limited

APPENDIX 4

TREE SURVEY REPORT

for

RADIO BASE SITE DEVELOPMENT

at

MA ON SHAN COUNTRY PARK

TREE SURVEY REPORT
- Ma On Shan Country Park

Introduction

The site is located on a slope about 260m above datum level. This document is used to seek approval for felling of tree species within the proposed area which will be affected by the construction of the new radio base station. Only existing trees of diameters exceeding 95mm are identified in this report as requested.

Tree Felling Works

Tree felling works proposed responds to The guidelines as outlined in the Hong Kong Government Project Administration Handbook April 1993. Appendix 4.5 Lands Administration Office Instruction - Section D-12. These inter alia state that: -

- a) No irreplaceable rare tree species shall be allowed for tree felling works will be observed.
- b) Felling will not cause serious environment impact.
- c) A genuine development need to fell the tree species exists.
- d) Compensatory planting to Government's satisfaction in major tree felling task will be undertaken.

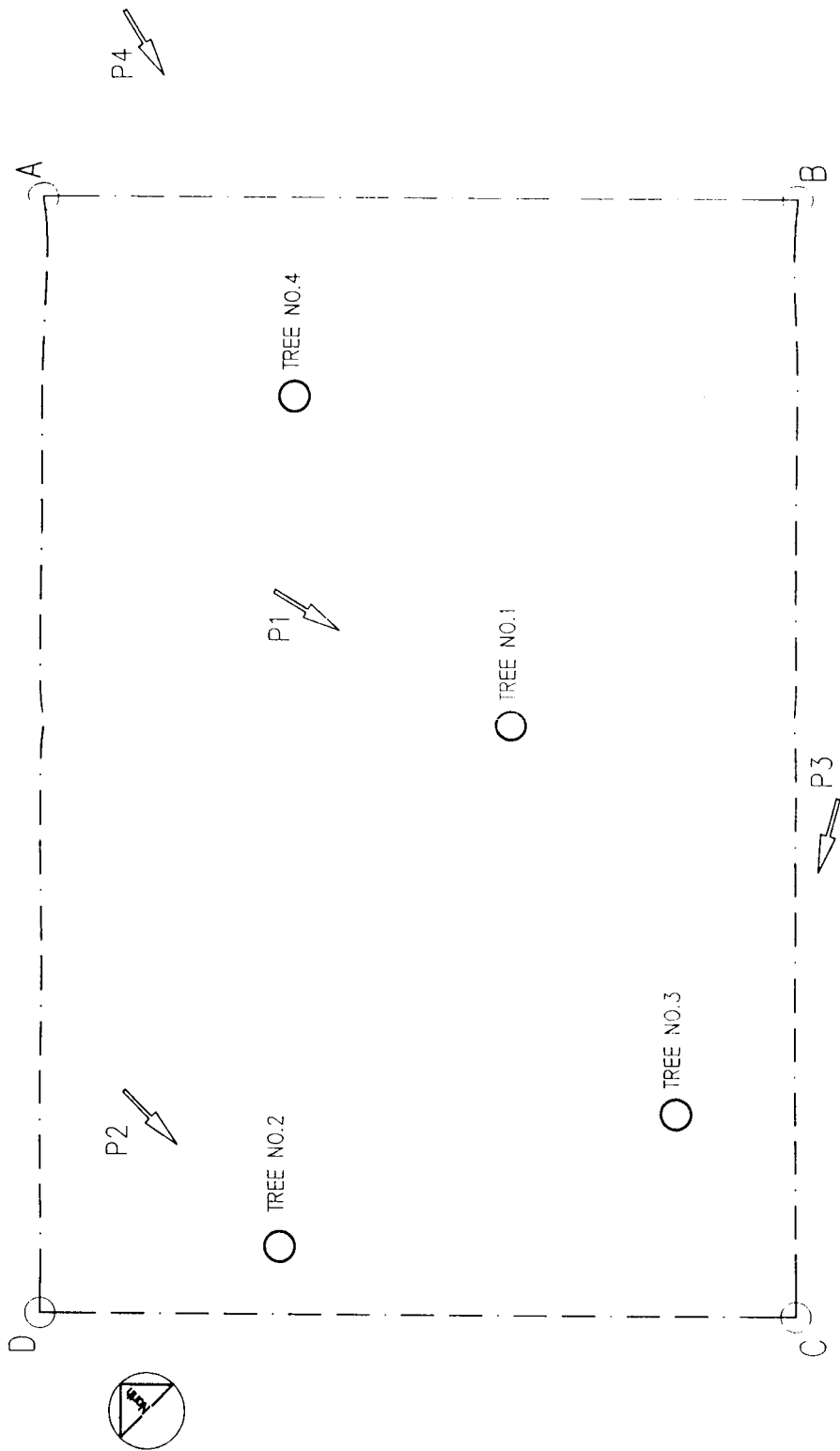
A total of 4 trees to be cut are identified with information given below:

Tree List

Tree no.	Botanical Name	Chinese Name	Dia (m)	Est. Ht (m)	Spread (m)	Remarks	Proposed Status	Photo no.
1	Eucalyptus Robusta	大葉桉	0.15	5	6.8	Fair	Fell	Photo 1
2	Eucalyptus Robusta	大葉桉	0.27	5	5.0	Fair	Fell	Photo 2
3	Acacia Confusa	台灣相思	0.20	4	7.0	Fair	Fell	Photo 3
4	Acacia Confusa	台灣相思	0.19	3	4.0	Fair	Fell	Photo 4

Compensation

Striving to limit the extent of area to be occupied by the Radio Base Station, there is no unnecessary encroachment onto the surrounding area. Consequently, there is no available space with the RBS for compensatory planting. Compensatory plant in somewhere else, if required by AFD may be carried out subject to further discussion.



TREE FELLING PLAN

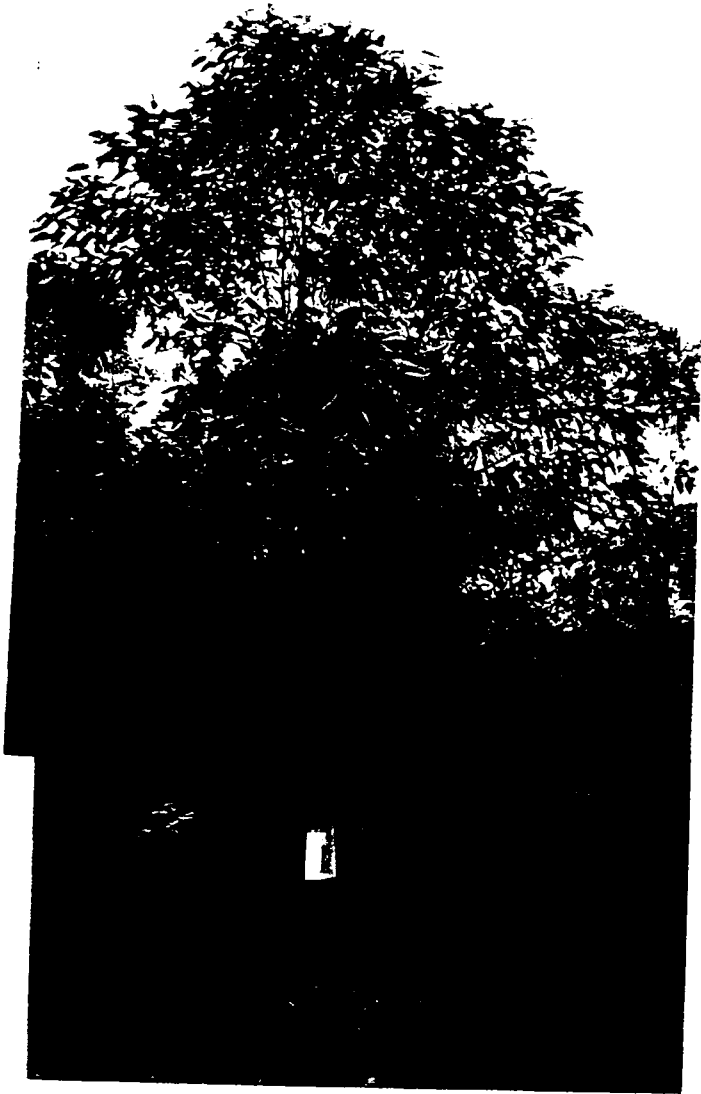


Photo 1

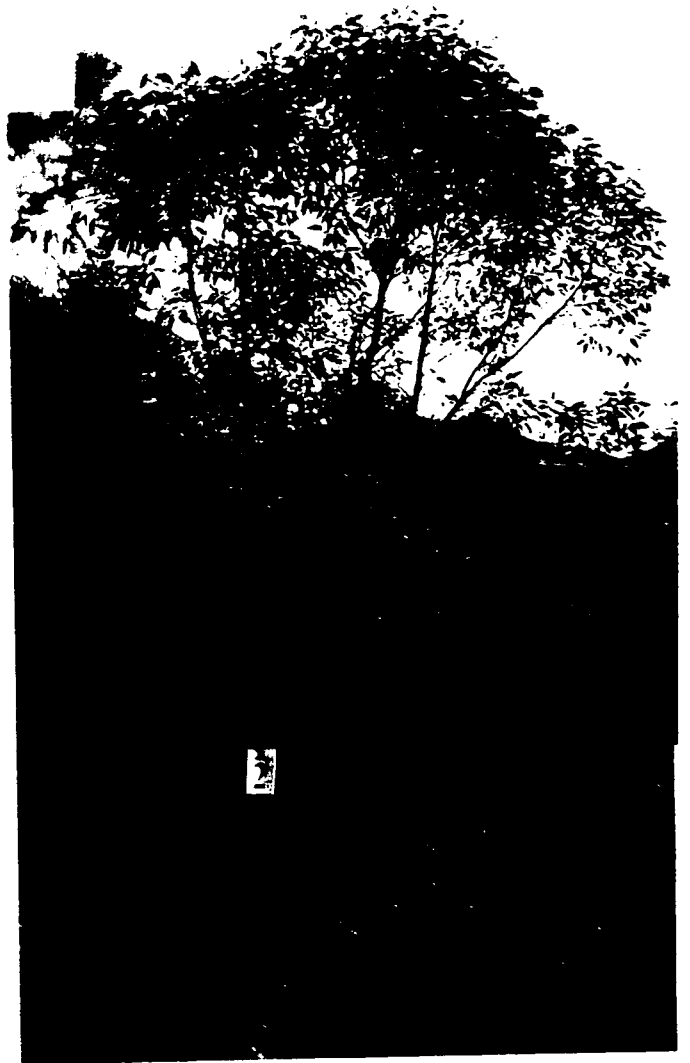


Photo 2



Photo 3



Photo 4