

Proposed Installation of
Integrated Mobile Phone Base Station
In
Sai Wan Shan
Sai Kung East Country Park
Sai Kung
New Territories

Project Profile

China Mobile Hong Kong Company Limited

Prepared by: JEG Engineering Co. Ltd.

(Tel. no. : 2117 9500)

August 2009

Table of Contents

	Page no.
1. Basic Information	
1.1 Project Title	1
1.2 Propose and Nature of the Project	1
1.3 Name of Project Proponent	1
1.4 Location and Scale of Project	1
1.5 Number and Types of designated projects to be covered by the project profile	1
1.6 Correspondence between Agriculture, Fisheries and Conservation Department and China Mobile Hong Kong Company Limited	1
1.7 Name and Telephone Number of Contact Person	1
2. Outline of Planning and Implementation Programme	
2.1 Planning and Implementation of the Proposed Project	2
2.2 Work Schedule	2
2.3 Interactions with Broader Programme Requirements Other Projects	2
3. Major Elements of the Surrounding Environment	
3.1 Noise	3
3.2 Air Quality	3
3.3 Ecology	3
3.4 Landscape and Visual	3
4. Possible Impacts on the Environment	
4.1 Process Involved	4
4.2 Summary of Potential Environment Impacts	4
4.3 Environmental Protection Measures to be Incorporated in the Design and any Further Environmental Implications	
4.3.1 Noise	4
4.3.2 Liquid Effluents, Discharges, or Contaminated Runoff	4
4.3.3 Generation of Waste or By-products	5
4.3.4 Unsightly Visual Appearance	5
4.3.5 Ecological Impacts	5
4.3.6 Risk of Accidents which Result in Pollution or Hazard	5
4.3.7 Others	6
5. Previously Approval Similar Environmental Assessments	7
6. Conclusion	7

List of Attachments

Attachment I	Site Location Plan of Construction Works
Attachment II	Correspondence between Agriculture, Fisheries and Conservation Department and China Mobile Hong Kong Company Limited
Attachment III	Works Schedule
Attachment IV	Site Mark-up Photo
Attachment V	Power Supply Facilities Proposal from China Light & Power Company Limited
Attachment VI	Calculation of Plane Wave Power Density

1.0 BASIC INFORMATION

1.1 Project Title

Proposed installation of Integrated Mobile Phone Base Station in Sai Wan Shan, Sai Kung East Country Park, Sai Kung, New Territories.

1.2 Purpose and Nature of the Project

The project is a development involving mobile phone network operator China Mobile Hong Kong Company Limited (open for participation by other mobile operators) aimed to improve the mobile phone coverage for hikers and visitors and to ensure that tele-communications for the general public is maintained in case of emergency. This requires a Integrated Mobile Phone Base Station to be constructed in Sai Wan Shan in Sai Kung East Country Park.

1.3 Name of Project Proponent

China Mobile Hong Kong Company Limited (CMHK)

1.4 Location and Scale of Project

The proposed Integrated Mobile Phone Base Station will be constructed in Sai Wan Shan, Sai Kung East Country Park, Sai Kung, New Territories as shown in the location plan at Attachment I. The station will comprise of an equipment platform (3.0m(L) x 3.0m(W) x 0.8m(D)) with an area of 9.0 square metres. The equipment platform, consist one fibre glass equipment shelter and one transmission antenna post of 4 metres in height, will be erected on the hill at level around 200.0mPD.

Also, a service trench of 0.3 metre in depth and 35 metres in length will be constructed by CLP from the proposed CLP facilities box to the proposed Integrated Mobile Phone Station for installation of proposed power conduit.

The location plan of the construction works are shown in Attachment I.

1.5 Number and Types of Designated Projects to be Covered by the Project Profile

Only one designated project to be covered by this project profile. The proposed project is a designated project in accordance with EIAO, Schedule 2, Part 1, Section Q as it involves building works in an existing country park and it is not considered exempt under Section Q1 (a) to (j). Therefore, an Environment Permit under the EIA Ordinance must be obtained prior to the commencement of construction.

1.6 Correspondence Between Agriculture, Fisheries and Conservation Department and China Mobile Hong Kong Company Limited

Correspondence between Agriculture, Fisheries and Conservation Department (AFCD) and China Mobile Hong Kong Company Limited (CMHK) are shown in Attachment II.

1.7 Name and Telephone Number of Contact Person

The contact person for this project is Mr. Samuel Chuang of China Mobile Hong Kong Company Limited, Telephone number 2945 8441 and facsimile number 2421 4962 & Mr. Lam Man Kit of JEG Engineering Company Limited, Telephone number 2117 9500 and facsimile number 3103 8077.

2.0 OUTLINE OF PLANNING AND IMPLEMENTATION PROGRAMME

2.1 Planning and Implementation of the Proposed Project

The project is planned and managed by China Mobile Hong Kong Company Limited and they will install their own mobile phone network at the proposed station.

Upon the grant of a Short Term Tenancy and Environmental Permit by the District Lands Office (DLO) and Environment Protection Department (EPD) respectively, China Mobile Hong Kong Company Limited will start and complete the construction work in accordance with the work schedule.

Besides, CMHK will obtain BD approval before commencement of work.

2.2 Work Schedule

The construction works including the equipment and antennae installation are proposed to commence at the end of 2009 and to be completed within 4 months. It is proposed that the mobile phone station will be put into operation in the beginning of 2010. The proposed work schedule as shown in Attachment III.

2.3 Interactions with Broader Programme Requirements Other Projects

There is no planning project near our proposed site. As such, cumulative environmental impacts would not result.

3.0 MAJOR ELEMENTS OF THE SURROUNDING ENVIRONMENT

3.1 Noise

The proposed mobile base station will be located in remote hilltop locations. The separation distance of the nearest Noise Sensitive Location from the works area is over 610m (Village House at Sai Wan Tsuen), residents in there will only be subject to negligible nuisances within the construction works; after the works completed, operation of the mobile station will not produce noise effect so residents in village will not be subject to noise impact.

3.2 Air Quality

The proposed mobile base station will be located away from Sai Wan Tsuen which are over 610m, therefore, within the construction works, residents in village will not expected to be affected, hikers in the country parks will only be subject to negligible nuisances; after the works completed, operation of the mobile station will not have air pollution impact.

3.3 Ecology

During the ecological survey it was noted that the site (the equipment platform and the receiver pole) and surrounding areas found a type of plant "Enkianthus quinqueflorus" and also mainly of wild grass of common habitats in Hong Kong; none of creature / insect or their habitats were found.

Also, 60 plants of "Enkianthus quinqueflorus" found in proposed site location will be transplanted to the new location of 5 metres radius away from the proposed site.

The plan of the proposed location is shown in Attachment I.

3.4 Landscape and Visual

The main visual sensitive receivers in the area are located to the Maclehorse Trail in Sai Kung East Country Park, Sai Kung. 50 nos. of new screen planting to be provided after the mobile base station installation works completed, they will be located at the 215m knoll top to address the visual impact from lookout point.

The plan of the proposed location is shown in Attachment I.

4.0 POSSIBLE IMPACTS ON THE ENVIRONMENT

4.1 Process Involved

The Station base will be traditional reinforced concrete raft with all concrete works cast in-situ. The antenna tower will be made of galvanized mild steel members and will be prefabricated members to be bolt connected on site.

Raft Foundation will be proposed for the station building as the structure is not large and massive. No haul road will be formed for the construction and operation of the project. Delivery of construction materials and equipments will be by helicopter and hand-carry only.

Small-sized excavator will be arranged for the site formation works and excavation works as the excavation work is mainly to excavate the raft of size 7m(L) x 7m(W) x 0.8m (max.) depth, the excavation work will be completed within 1 month. The excavation work will only start when the forecast weather for the coming week is good. During the excavation work, the exposed base soil surface will be covered by canvas sheeting and to be removed as soon as possible to disposal landfill site by workers.

4.2 Summary of Potential Environmental Impacts

The construction and operational impacts associated with the mobile base stations are summarized in below and described in details in the following sections:

- Noise
- Liquid Effluents, Discharges, or Contaminated Runoff
- Generation of Waste or By-products
- Unsightly Visual Appearance
- Ecological Impacts
- Risk of Accidents which Result in Pollution or Hazard
- Others

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

4.3.1 Noise

Noise Sensitive Receivers (NSRs) are not closed to the Project Works Sites and the site works are expected to be small in scale. Thus noise generated during the construction works are not expected to result in impacts to NSRs. The nearest Noise Sensitive Receivers (NSRs), village house in Sai Wan Tsuen, which is located over 610m from the Project Works.

4.3.2 Liquid Effluents, Discharges, or Contaminated Runoff

During construction works, measures will be undertaken to avoid untreated site discharges from inadvertently entering stream courses, including the implementation of temporary site drainage measures to control runoffs from the site in according with the ProPECC Note PN 1/94 "Construction Site Drainage". Actually, these would not be any major activity for this project for liquid effluents, and only a few workers are required for this work. No kitchen or canteen allowed. Besides, there will be no effluent discharge during the operation of the mobile base station and no water quality impacts are expected.

4.3.3 Generation of Waste or By-products

During construction phase, only a small amount of construction and demolition (C&D) materials such as timber formwork, general refuse etc. will be generated during construction of the mobile base station. As this design is mainly pre-fabricated members to be bolted on site, very small amount of waste will be expected. Disposal of the non-inert portion of C&D materials will be removed by site worker.

Only very small quantities of chemical waste will be generated along with municipal waste from construction works. Correct handling, storage and removal of this waste will be undertaken and adverse impacts on the environment are not anticipated.

During operation phase, the mobile base station will be unmanned with no waste generation expected during the operation. Debris that may be generated from the annual maintenance works, such as general maintenance & grass cutting; they will be removed by contractors directly upon completion of works and disposed of properly.

4.3.4 Unsightly Visual Appearance

The new transmission tower will rise to a height of approximately 4m on the hill at level 200.0 mPD. In order to further minimize the visual impact of the station, the transmission pole will be painted or coated in "Antique" (B.S. 10B25 or Pantone 462U) or similar colour to match the surroundings. Also, 50 nos. of new plants to be provided after the mobile base station works completed, they will be located at the 215m knoll top to minimize the unsightly visual appearance from Maclehose Trail. So the relative impact on the visual landscape of this station is small.

4.3.5 Ecological Impacts

In order to further minimize the primary ecological impacts from the construction and operation of the mobile base station, the site boundary and work sites have been minimized. Only negligible nuisance of impact to the wild grass while the excavation works of mobile station and cable trench construction works. None of creature / insect or their habitats was found therefore no life impact will be occurred. Also, 60 plants of "Enkianthus quinqueflorus" found in proposed site location will be transplanted to the new location of 5 metres radius away from the proposed site by China Mobile Hong Kong Company Limited. To avoid damage on those existing "Enkianthus quinqueflorus" plants, the plant transplanting works will be done by landscaping professional firm.

4.3.6 Risk of Accidents which Result in Pollution or Hazard

The operation of the proposed Mobile Base Station will strictly comply with the code "Code of Practice for the Protection of Workers and Members of Public Against Non-Ionizing Radiation Hazards from Radio Transmitting Equipment" issued by OFTA. The proposed location of the antenna transmitter and microwave receiver are far away from footpath. In this case, the non-ionizing radiation has no signification impact on the public.

4.3.7 Others

Odour

No odour impacts are expected to occur as a result of this project.

Disruption of Water Movement or Bottom Sediment

By nature of the project, it will not result in any impact on water movement or bottom sediment.

Gaseous Emissions & Dust

Only a small quantity of gaseous emissions (SO₂ and NOX) from the equipment would be generated during construction. These emissions will not impact Air Sensitive Receivers (ASRs). The site was considered as small scale and there is no major excavation work around this area. Limited amount of soil stockpiling is expected but will be covered by tarpaulin sheets and have them bonded to ground. Therefore generation of dust would be within acceptable limit.

Night-time Operations

It is expected that all construction works will be performed during normal working hours only.

Traffic Generation

Helicopter and hand-carry method to be used for transport of materials, no serious traffic jam for vehicular access will be occurred.

Manufacturing, Storage, Use, Handling, Transport, or Disposal of Dangerous Goods

No dangerous goods will be involved in this Project.

5.0 PREVIOUSLY APPROVAL SIMILAR ENVIRONMENTAL ASSESSMENTS

References have been made to the following Project Profiles submitted for Applications for Permission to Apply Directly for an Environmental Permit:

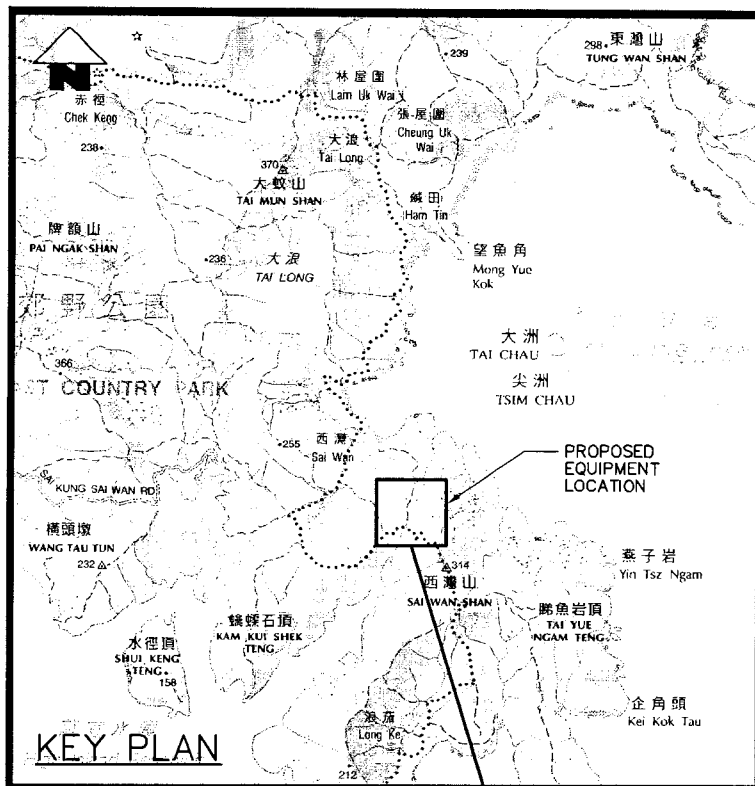
- 1) Proposed Installation of Integrated Mobile Phone Base Station at Tai Tong Nursery, Tai Tong Shan Road, Yuen Long, N.T. (Application no. DIR 176/2009)
- 2) Proposed Installation of Integrated Mobile Phone Base Station at Shek Pik Fire Lookout, Lantau Island, N.T. (Application no. DIR 152/2007)
- 3) Proposed Installation of Integrated Mobile Phone Base Station at Tai Long Au, Sai Kung East Country Park, Tai Po, N.T. (Application no. DIR 151/2007)
- 4) Proposed Installation of Integrated Mobile Phone Base Station at South Lantau Island Country Park, Man Cheung Po, Tai O, Hong Kong (Application no. DIR 148/2007)
- 5) Proposed Installation of Integrated Mobile Phone Base Station at Pat Sin Leng Country Park Chung Pui, Tai Po (Application no. DIR 144/2006)
- 6) Proposed Installation of Integrated Mobile Phone Base Station at Twisk Management Centre within Tai Lam Country Park, Tsuen Wan. (Application no. DIR 111/2004)
- 7) Proposed Installation of Integrated Mobile Phone Base Station at Yuen Ng Fan, Sai Kung East Country Park (Application no. DIR 110/2004)

6.0 CONCLUSION

The environmental impacts expected from the mobile base station are considered to be minor. With the implementation of the recommended mitigation measures, no adverse residual environmental impacts are anticipated.

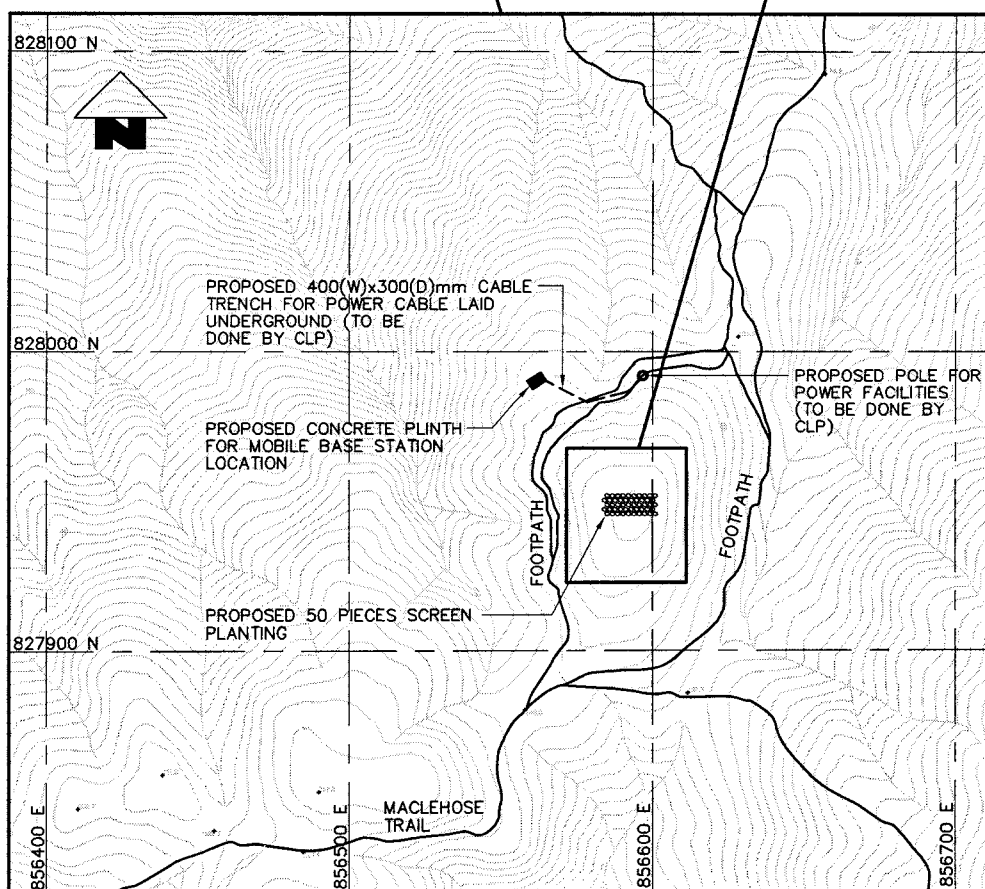
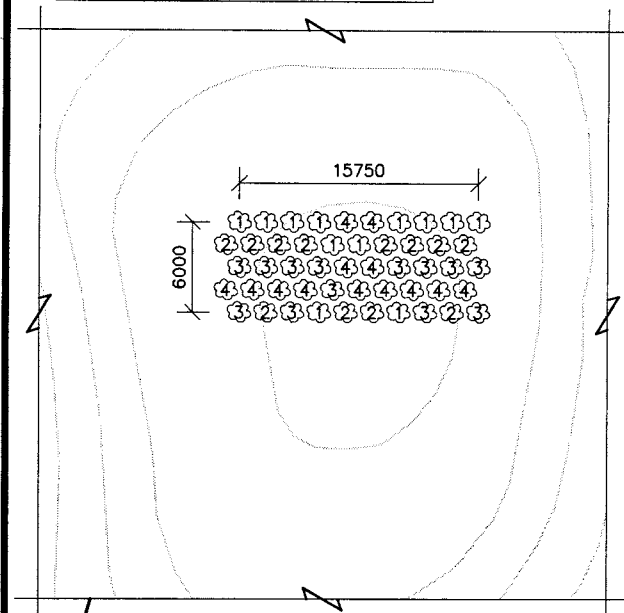
As impacts are not expected to be adverse and with the mitigation measure proposed, the requirements of the Technical Memorandum on Environmental Impact Assessment Process will be achieved and complied with full. As such, CMHK is applying directly for an Environmental Permit under Section 5(11) of the EIAO.

Attachment I **Site Location Plan of Construction Works**



LEGEND (TYPE OF PLANTS)

- ① GORDONIA AXILLARIS
- ② LITSEA ROTUNDIFOLIA
- ③ MELASTOMA CANDIDUM
- ④ RHAPPHIOLEPIS INDICA



PROJECT :
CMHK CO. LTD. PROPOSED
BTS IN SAI WAN SHAN
SAI KUNG EAST
COUNTRY PARK

創域工程有限公司
JEG Engineering Co. Ltd.

PROJECT No.

J8001

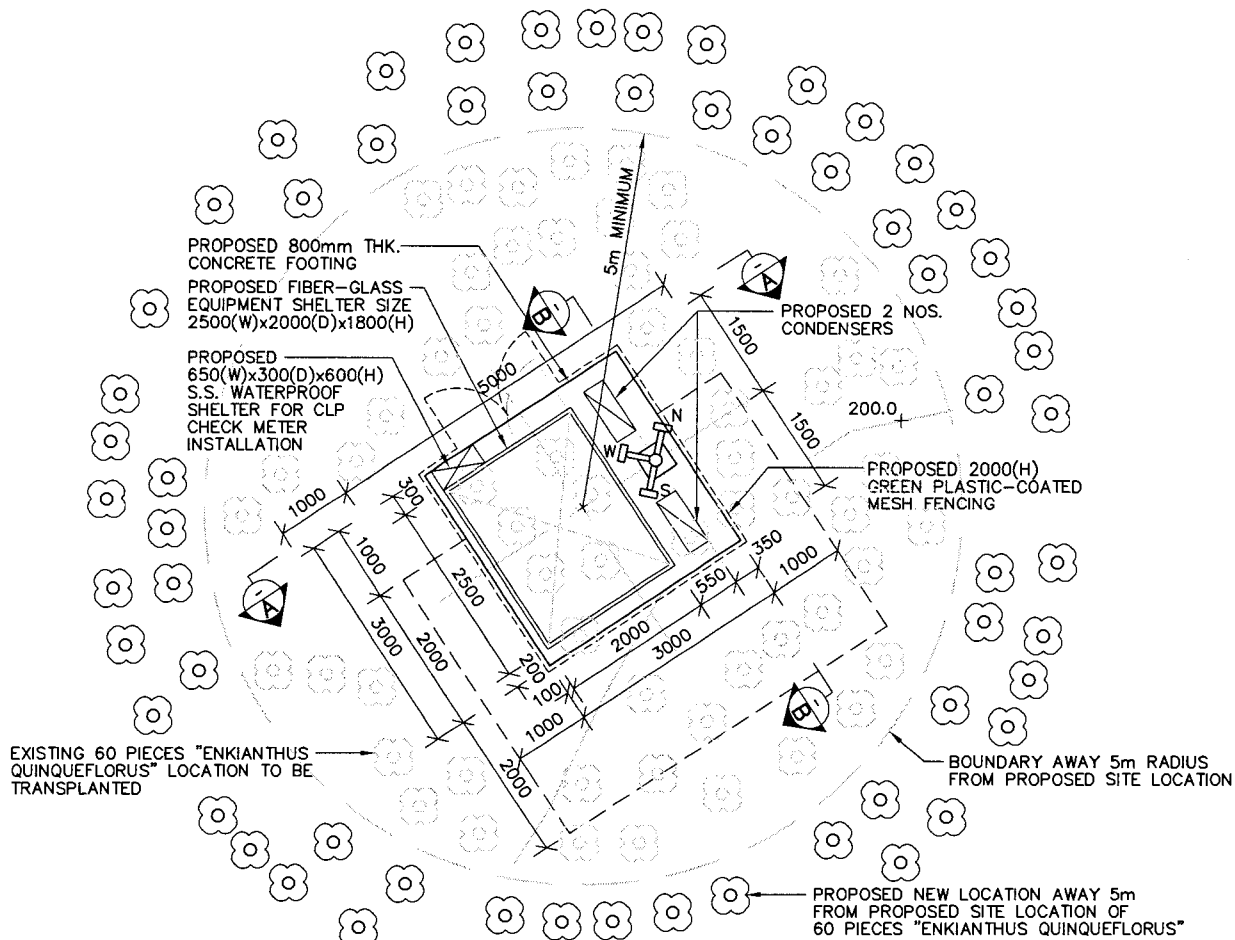
SCALE :
AS SHOWN

DRAWING No. :

S531-D1

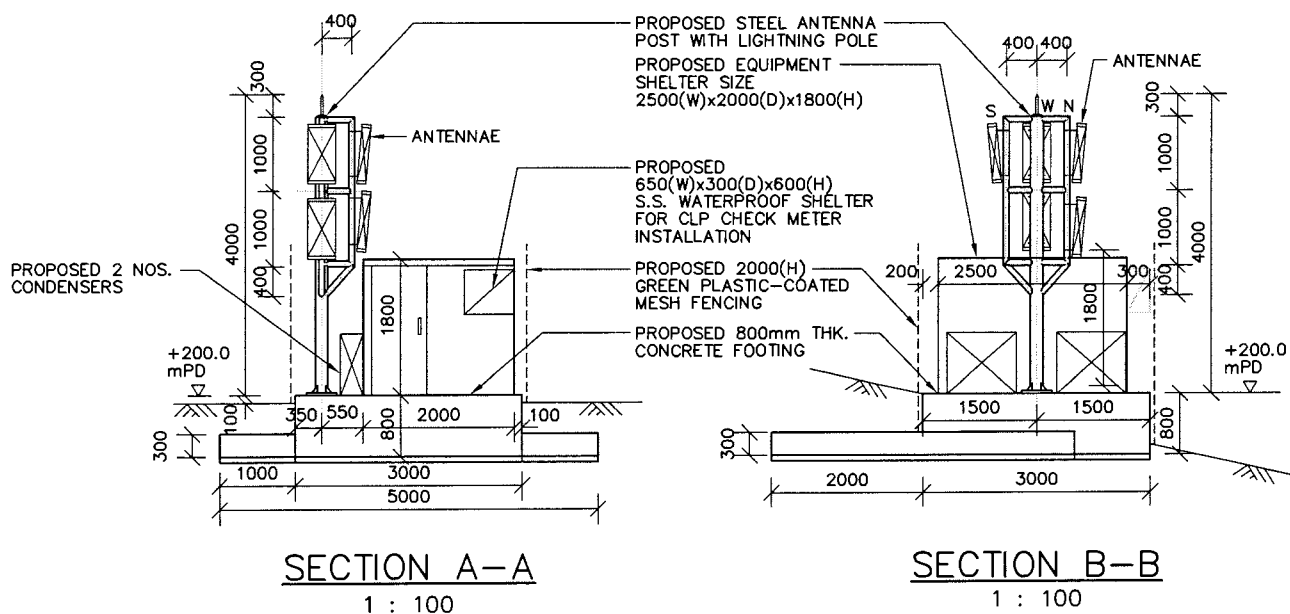
DATE :

AUG., 2009



EQUIPMENT SHELTER & ANTENNA STEEL POST LOCATION PLAN

1 : 100



PROJECT :
CMHK CO. LTD. PROPOSED
BTS IN SAI WAN SHAN
SAI KUNG EAST
COUNTRY PARK

創域工程有限公司
JEG Engineering Co. Ltd.

PROJECT No.

J8001

SCALE :
AS SHOWN

DRAWING No. :

S531-D2

DATE :

AUG., 2009

Attachment II **Correspondence Between Agriculture, Fisheries
and Conservation Department and China Mobile
Hong Kong Company Limited**



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香港新界葵涌葵昌路51號九龍貿易中心1座20樓
Level 20, Tower 1, Kowloon Commerce Centre,
No. 51 Kwai Cheong Road,
Kwai Chung, New Territories, Hong Kong
Website: www.hk.chinamobile.com

中國移動香港有限公司
China Mobile Hong Kong Co. Ltd.

Our Ref: PS09168

9 April, 2009

Agriculture, Fisheries and Conservation Department
6/F, Cheung Sha Wan Government Offices,
303 Cheung Sha Wan Road,
Kowloon.

By Fax & Mail
Fax: 2317-0482

Attn: Mr. Dennis Mok – Country Parks Officer

Dear Sir,

**Re: Application for Installation of Radio Base Station at Sai Wan Shan, Sai Kung,
New Territories**

Thank you for the meeting dated 13 March 2009 and subsequent site visit with your goodself on 17 March 2009 regarding the captioned subject.

We would like to revise technical proposal and highlight several major points for this Radio Base Station:

Revise technical proposal:

The followings are the revised technical design of Radio Base Station Installation for your consideration:-

- 1) 1 antenna pole (Height: 4m) for installation of Five (5) Outdoor Antennae will be floor mounted;
- 2) 1 Fibre Glass Equipment Shelter [Dimension: 2.5m (W) x 2.0m (D) x 1.8m (H)] will be installed;
- 3) Other accessories: air-conditioners, electrical power source and antenna feeder cables will be connected with our proposed antennae and equipment shelter; and
- 4) A concrete plinth [Dimension: 3.0m (W) x 3.0m (D) x 0.3m (H)] will be set up for the above installation and the Radio Base Station will be fenced with mesh fencing.

The revised co-ordinates of the four corners of the Radio Base Station (A, B, C & D) are:

A: 856562E, 827993N

B: 856567E, 827993N

C: 856562E, 827988N

D: 856567E, 827988N

Visual Impact

Compared with the proposal we submitted to you on 6 May 2008, we propose to install a 4m(H) antenna pole instead of 5m(H) antenna pole, a smaller equipment Shelter [Dimension: 2.5m (W) x 2.0m (D) x 1.8m (H)], and the Radio Base Station location is



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slightly relocated. The colour of proposed antenna pole and equipment shelter will be matched with the surrounding environment. Moreover, we propose to plant 50 pieces sapling at hilltop in order to cover our Radio Base Station from lookout points. We are confident that our Radio Base Station would have minimal visual impact on the surrounding.

Protected Species

We will replant "Chinese New Year Flowers" (if any) in our proposed Radio Base Station location to nearby our proposed Radio Base Station location during our installation.

Access and Maintenance Footpath

New access or maintenance footpath will not be constructed for our Radio Base Station.

Enclosed please find the following documents for your approval and comment:

- 1) Lot Index Plan No.: 8-SE-8D showing our proposed site location;
- 2) General Layout Plan (Dwg No.: 2367-01 REV. - 2.0);
- 3) Details of outdoor antenna post and fibre glass shelter (Dwg No. 2367-02 REV. - 2.0);
- 4) 3 pages of Site Photos; and
- 5) Specification of proposed equipment (RBS 2216) and antennae (CNBPX303F & Motorola PTP 600)

Grateful if you could comment/approve our application at your earliest convenience. Should you have any queries or wish to have further information, please feel free to contact the undersigned at 2945-8441 or by fax no.: 2421-4962 for further discussion.

Looking forward to your earliest reply.

Yours faithfully,

Samuel Chuang
Implementation Department

Encl.

RW/sc

c.c. OFTA - Mr. Tony W. Y. Yip (Fax: 2180-8588)
Lands Department - Ms. Yvonne W.F. Cheng (Fax: 2792-0706)

漁農自然護理署

九龍長沙灣道三零三號

長沙灣政府合署五樓



AGRICULTURE, FISHERIES AND
CONSERVATION DEPARTMENT

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

本處檔號 OUR REF: (4) in AF GR CPDA SKE/72/2009
來函檔號 YOUR REF. PS09168
電話 Tel. No.: 2150 6842
電郵地址 E-mail Address: mailbox@afcd.gov.hk
圖文傳真 Faxline No.: (852) 2311 3731

China Mobile
Level 20, Tower 1
Kowloon Commerce Centre
51 Kwai Cheong Road
Kwai Chung, NT
(Attn: Mr. Samuel Chuang)

23 April 2009

Dear Sir,

**Installation of Radio Base Station
at Sai Wan Shan, Sai Kung**

Thank you for your letter of 9 April 2009.

Your proposal follows most of the agreements made in our meeting on 13 March and site meeting on 17 March. Most of the mitigation measures would be stipulated as conditions in the consent given by the Country and Marine Parks Authority. We have the following comment:

- (a) Green plastic-coated mesh fencing should be used.
- (b) 5 rows of native trees and shrubs at 1m spacing will be planted on the 215m knoll top for screening purpose. A species list is attached for your information.

Please advise us the implementation programme in due course. We would process the application to the Country and Marine Parks Authority after hearing from you.

Yours faithfully,

(Dennis Mok)

for Director of Agriculture, Fisheries and Conservation

c.c. DLO/SK
D-G of Telecommunications

Fax 2792 9896
Fax 2180 8588

(Attn. Ms. Yvonne WF Cheng)
(Attn. Mr. Tony Yip)

Species list for screen planting for "Installation of Radio Base Station at Sai Wan Shan"

Species	Size	Spacing	Quantity
<i>Gordonia axillaris</i> (大頭茶)	seedling	1m	10
<i>Litsea rotundifolia</i> (豺皮樟)	seedling	1m	10
<i>Melastoma candidum</i> (野牡丹)	seedling	1m	10
<i>Rhapphiolepis indica</i> (車輪梅)	seedling	1m	10
<i>Daphniphyllum calycinum</i> (牛耳楓)	seedling	1m	10



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Kwai Chung, New Territories, Hong Kong
Website: www.hk.chinamobile.com

中國移動香港有限公司
China Mobile Hong Kong Co. Ltd.

Our Ref: ET09606

26 May, 2009

Agriculture, Fisheries and Conservation Department
6/F, Cheung Sha Wan Government Offices,
303 Cheung Sha Wan Road,
Kowloon.

By Fax & Mail
Fax: 2317-0482

Attn: Mr. Dennis Mok – Country Parks Officer

Dear Sir,

**Re: Application for Installation of Radio Base Station at Sai Wan Shan, Sai Kung,
New Territories**

Thank you for letter [ref: (4) in AF GR CPDA SKE/72/2009] dated 23 April 2009 regarding the captioned subject.

Please be advised that your comments mentioned in the said letter are noted and observed. Besides, we would carry out the captioned work upon obtaining approvals from relevant government departments such as Lands Department, Environmental Protection Department and Buildings Department. 4 months of installation work will be required, please refer to attached working schedule for details.

Grateful if you could process the application to the Country and Marine Parks Authority and provide the consent to be given by Country and Marine Parks Authority at your earliest convenience.

Should you have any queries or wish to have further information, please feel free to contact the undersigned at 2945-8441 or by fax no.: 2421-4962 for further discussion.

Looking forward to your earliest reply.

Yours faithfully,

Samuel Chuang
Implementation Department

Encl.

RW/sc

c.c. OFTA - Mr. Tony W. Y. Yip (Fax: 2180-8588)
Lands Department – Ms. Yvonne W.F. Cheng (Fax: 2792-0706)

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



TO 21808588 P.01/06
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

Ref. : (8) in AF GR CPDA/SKE/72/2009

Tel. : 2150 6606

Fax : 2311 3731

Date : 4 June 2009

To : District Lands Officer/Sai Kung
(Attn. Ms Yvonne W F Cheng)

Your Ref. : () in DLO/SK SX3768

Fax : 2972 0706

Dated :

Installation of Radio Base Station at Sai Wan Shan, Sai Kung

1. I refer to an application dated 9 April 2009 from China mobile Hong Kong Ltd. (copy attached).

2. I have no objection in principle to the proposed installation of radio base station near Sai Wan Shan within the Sai Kung East Country Park as shown on the plan No. 2367-01 and 02 dated 26 February 2008 subject to the conditions attached.

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

4. For enquiries, please contact Mr. Dennis Mok at telephone no. 2150 6842.

(Joseph SHAM)
for Director of Agriculture, Fisheries and Conservation
Country and Marine Parks Authority

Encls.

c.c. DG of OFTA

Fax: 2180 8588

Internal
FO/PTC via SFO/SK
RI/SK

Ref. : (8) in AF GR CPDA SKE/72/2009

Installation of Radio Base Station at Sai Wan Shan, Sai KungConditions1. Scale and extent of Works

All works and operations shall be confined to the site area specified in the plans No. 2367-01 and 02 dated 26 February 2008. 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 10 months from the date of this letter. The Country and Marine Parks Authority shall be notified in advance of the commencement and completion of works. You are advised to contact Mr. Lee Kwok-hang, Country Park Ranger (Sai Kung) at telephone 2791 5841.

3. Activities Prohibited inside Country Parks

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 of trees.

4. Safety inside Country Park

All necessary precautions shall be taken to ensure public safety within 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.

- 2 -

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 and landscaped; any erosion and damage to roads, tracks, paths or Country and Marine Parks Authority 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. Validity

Notwithstanding the conditions above, all the proposed works and reinstatement shall be completed by the end of April 2010.

8. Future Maintenance of the Approved Works

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

9. Special Conditions

- (a) *Enkianthus quinqueflorus* in the 5m radius of the Radio Base Station shall be transplanted to the nearby location before works starts.
- (b) The antennae pole and equipment shelter shall be painted in 'Antique' (B.S. 10B25 or Pantone 462U) or similar subdued colour to the satisfaction of the Country and Marine Parks Authority.
- (c) Green plastic-coated mesh fencing shall be used for the equipment shelter.
- (d) Screening planting with 5 rows of *Gordonia axillaris*, *Litsea rotundifolia*, *Melastoma candidum*, *Rhaphiolepis indica*, *Daphniphyllum calycinum* shall be undertaken at the 215m knoll top on completion of the Radio Base Station.

Country and Marine Parks Authority
Agriculture, Fisheries and Conservation Department
June 2009



中国移动通信
CHINA MOBILE

香港新界葵青葵昌路51號九喜貿易中心1座20樓
Level 20, Tower 1, Kowloon Commerce Centre,
No. 51 Kwai Cheong Road,
Kwai Chung, New Territories, Hong Kong
Website: www.hk.chinamobile.com

中國移動香港有限公司
China Mobile Hong Kong Co. Ltd.

Our Ref: ET⁹¹⁸⁰⁹~~09743~~

15 June, 2009

Agriculture, Fisheries and Conservation Department
6/F, Cheung Sha Wan Government Offices,
303 Cheung Sha Wan Road,
Kowloon.

By Fax & Mail
Fax: 2317-0482

Attn: Mr. Dennis Mok – Country Parks Officer

Dear Sir,

**Re: Application for Installation of Radio Base Station at Sai Wan Shan, Sai Kung,
New Territories**

Reference is made to your memo [ref: (8) in AF GR CPDA SKE/72/2009] dated 6 June 2009 regarding the captioned subject.

Please be advised that your conditions mentioned in the said memo are noted and observed except point 9 (d). Since we could not find *Daphniphyllum calycinum*, we propose to plant the followings at the 215m knoll top on completion of the Radio Base Station:-

<u>Species</u>	<u>Size</u>	<u>Quantity</u>
Gordonia axillaries	seedling	12
Litsea rotundifolia	seedling	12
Melastoma candidum	seedling	13
Rhaphiolepis indica	seedling	13

Attached please find the quotation provided by Chun Hing Landscaping Co. Ltd. dated 9 June 2009 for your reference.

Grateful if you could accept the above suggestion and provide a revised consent to be given by Country and Marine Parks Authority to us at your earliest convenience.

Should you have any queries or wish to have further information, please feel free to contact the undersigned at 2945-8441 or by fax no.: 2421-4962 for further discussion.



中国移动通信
CHINA MOBILE

Looking forward to your earliest reply.

Yours faithfully,


Samuel Chuang
Implementation Department

Encl.

RW/sc

c.c. OFTA - Mr. Tony W. Y. Yip (Fax: 2180-8588)
Lands Department - Ms. Yvonne W.F. Cheng (Fax: 2792-0706)

漁農自然護理署

九龍長沙灣道三零三號
長沙灣政府合署五樓



AGRICULTURE, FISHERIES AND
CONSERVATION DEPARTMENT

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

本處檔號 OUR REF: (11) in AF GR CPDA SKE/72/2009
來函檔號 YOUR REF. PS09168
電話 Tel. No.: 2150 6842
電郵地址 E-mail Address: mailbox@afcd.gov.hk
圖文傳真 Faxline No.: (852) 2311 3731

China Mobile
Level 20, Tower 1
Kowloon Commerce Centre
51 Kwai Cheong Road
Kwai Chung, NT

(Attn: Mr. Samuel Chuang)

19 June 2009

Dear Sir,

**Installation of Radio Base Station
at Sai Wan Shan, Sai Kung**

Thank you for your letter of 15 June 2009.

Your proposed amendment of the species mix to be planted is acceptable.

Yours faithfully,

(Dennis Mok)

for Director of Agriculture, Fisheries and Conservation

c.c. DLO/SK
D-G of Telecommunications

Fax 2792 9896
Fax 2180 8588

(Attn. Ms. Yvonne WF Cheng)
(Attn. Mr. Tony Yip)

Attachment III **Works Schedule**

Proposed Installation of Integrated Mobile Phone Station in Sai Wan Shan, Sai Kung East Country Park, Sai Kung, N.T.		
ID	Task Name	Duration
1	Submit the project profile for permission to apply directly for Environmental Permit	Around 45 days
2	Permission to apply directly for Environmental Permit	Around 30 days
3	Apply submission to BD for approval	Around 90 to 100 days
4	Notification of commencement work	Around 7 to 14 days
5	Construction of proposed works	Around 100 to 120 days
6	Cultivation of screen plants	Around 15 to 20 days
7	Testing and commission of equipments	Around 5 to 10 days

Title: Working Schedule table

Date: Aug-09

Remarks:

The expected duration of this working schedule table will be varied because of the approval period.

Attachment IV Site Mark-up Photo

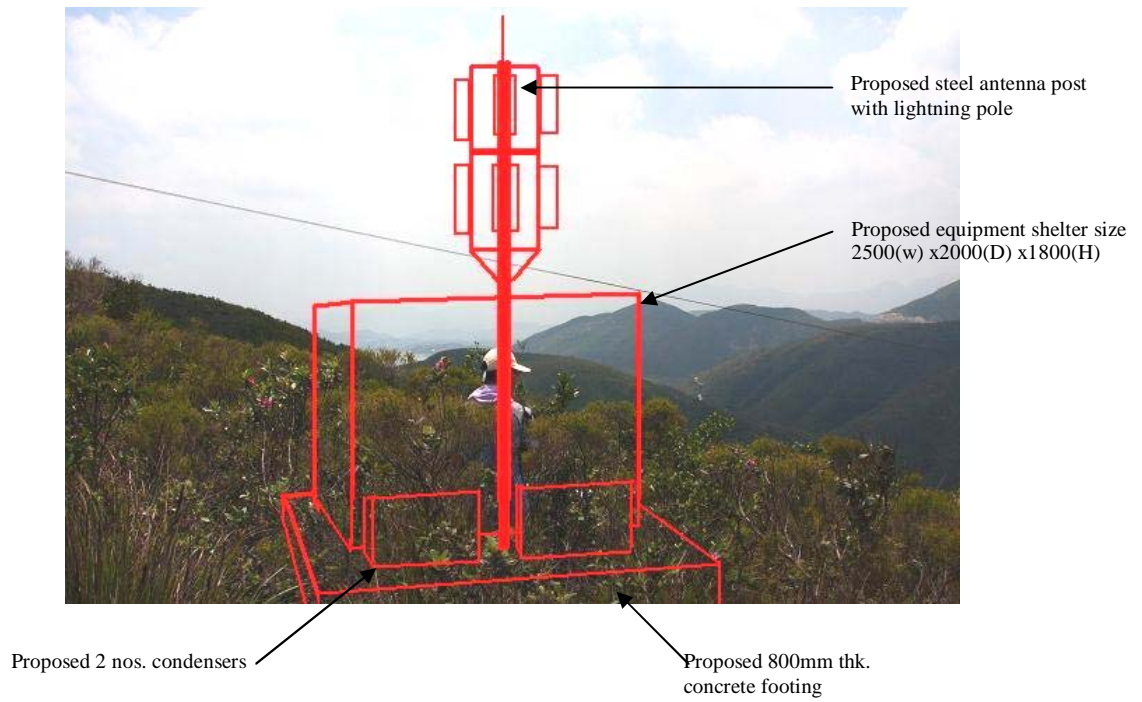


Photo 1: Showing the proposed equipment and antenna post location

Attachment V

**Power Supply Facilities Proposal from
China Light & Power Company Limited**

Date: 27 NOV 2000

China Mobile Peoples Telephone Co Ltd
8/F, Manhattan Centre,
8 Kwai Cheong Road,
Kwai Chung, N.T.

Our Ref: RE/L3041/08/KLW/KFF/KTL

Dear Sir,

Electricity Supply for

Telc, Nr SW Line P118, SW Shan County Park, Sai Wan, Sai Kung
Order# 2000893104 AC# 82811102925

中華電力有限公司
CLP Power Hong Kong Limited

東區
East Region

香港九龍慈雲山沙田坳道171號
171 Shatin Pass Road, Tsz Wan Shan
Kowloon, Hong Kong

電話 Tel (852) 2678 1511
傳真 Fax (852) 2678 1468
網址 Website www.clpgroup.com

Thank you for the above application of electricity supply.

We are pleased to inform you that we shall carry out all necessary work to afford a low voltage three phase four wire 380/220 volt 50 hertz supply subject to our Supply Rules and the following conditions:-

1. That permission be obtained from Government and from owners of any private property concerned for us to carry out the work.
2. All materials provided by us will remain our property and be maintained in good order by this Company.
3. Any reinstatement necessary on your property will be carried out by you at no cost to this Company.
4. You are required to provide and install, at no cost to this Company, a typical stainless steel meter box, a draw-pits and cable ducts as shown on the enclosed drawings Nos. T-GEN-25500-D-E33-0205-01-A, T-GEN-25500-D-E33-01-A, T-GEN-25500-D-E33-0238-01-A and SK2008 /0685/M/P-KTL.
5. Under the Electricity Supply Regulation, you are required to submit the work completion certificate on completion of your work.

To be continued...../2



Our Ref: RE/L3041/08/KLW/KFF/KTL

This condition letter is valid for 3 months from the date of this letter. We look forward to receiving your acceptance of our terms and conditions. To facilitate this, please sign and return the copy of this letter to us as soon as possible before the supply connection is required.

Should you have queries, please contact our Construction Engineer, Mr. K.K. Siu at 2678 1324 or at pager 7116 3131 a/c 7487. (e-mail address: kksiu@clp.com.hk)

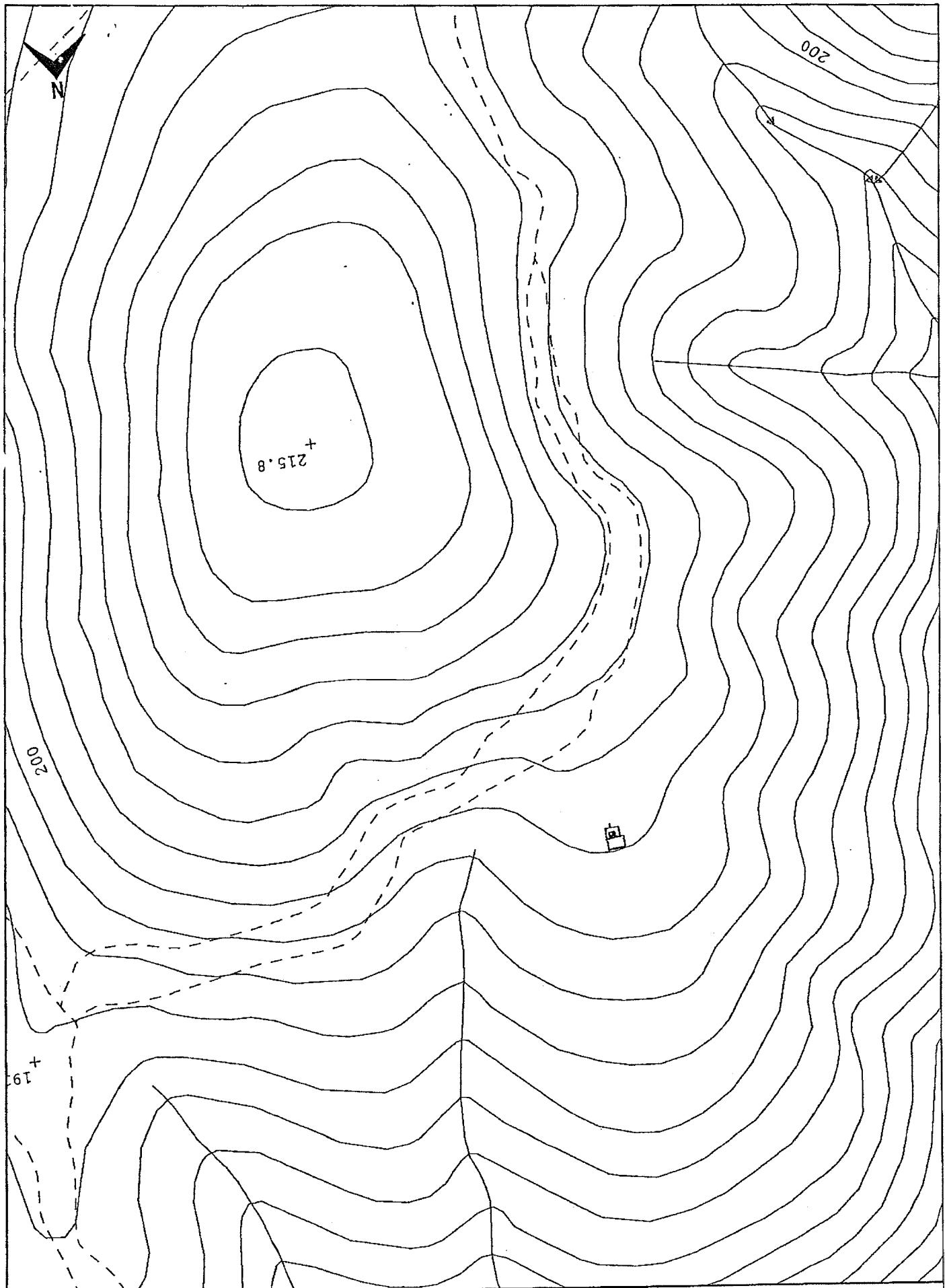
Yours faithfully,
For and On behalf of
CLP Power Hong Kong Limited

K.L. Wong
Planning & Design Manager
East Region

Encl.: As stated

klw:kff:ktl:sc

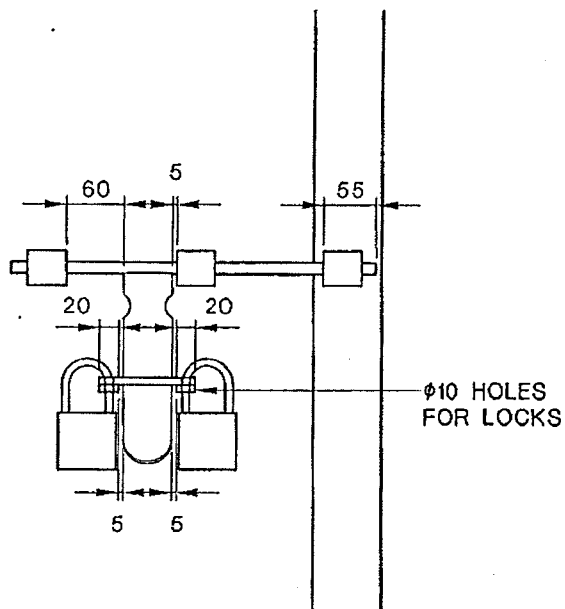
c.c. Project scheme SK2008-0685



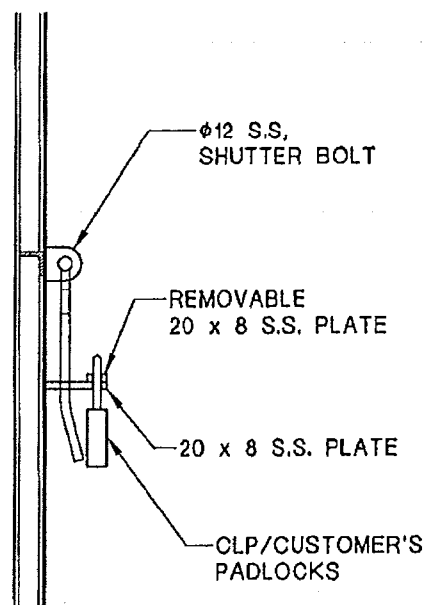
Scale: 1:500	Date of print: 21-NOV-2008	Remarks: <input checked="" type="checkbox"/> 金支箱 — 2x150mm Duct
Map No: 08SE08D		<input type="checkbox"/> 沙井 600mm X 600mm X 600mm (D)

Map data reproduced with permission of the Director of Lands, (C) Hong Kong.
 Reproduction in any form must be approved by CLP Power.

VIEW 'A'



FRONT VIEW



VIEW 'A'

NOTE: ALL DIMENSIONS ARE IN mm.

CLP 中電

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											

TITLE :

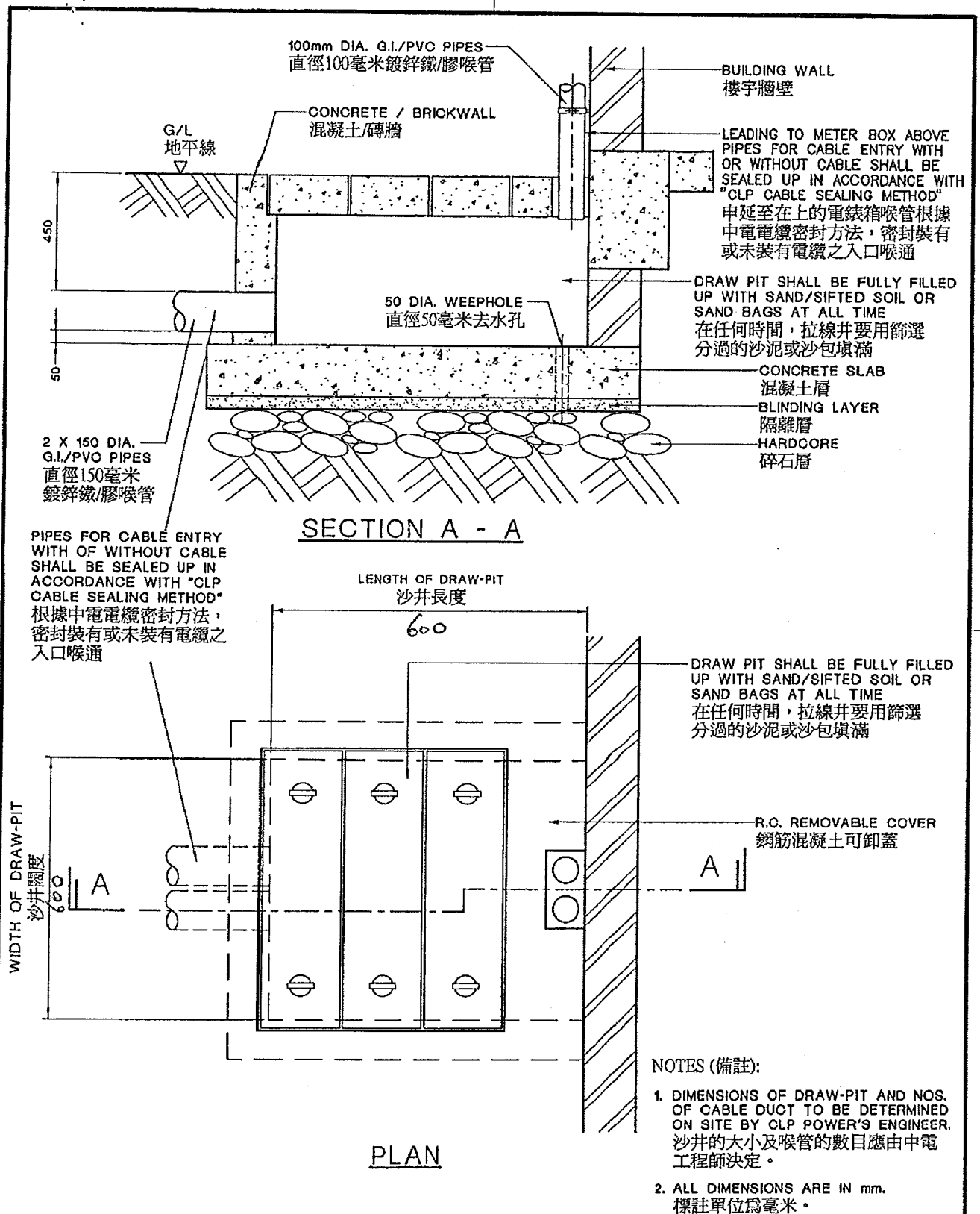
DUAL LOCKS FOR SINGLE-LEAF DOOR

DRAWN: C W WONG	DATE: 30 APR., 2008
CHECKED: TOMMY HOI	APPROVED: W B LEE
SCALE: N. T. S.	SHEET(S) IN SET: 2

PROJECT NO. CONTRACT NO.

ASSET MANAGEMENT	DRG. NO. T G E N 2 5 5 0 0 D E 3 3 0 2 3 8 0 1 - A
------------------	--

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CLP 中電

DRAWN: C W WONG DATE: 17 MAR., 2008
CHECKED: TOMMY HOI APPROVED: W B LEE
SCALE: 1:20 SHEET(S) IN SET: 1

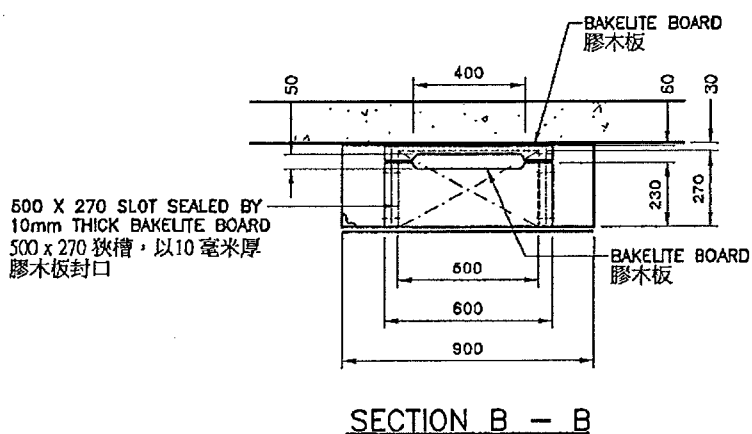
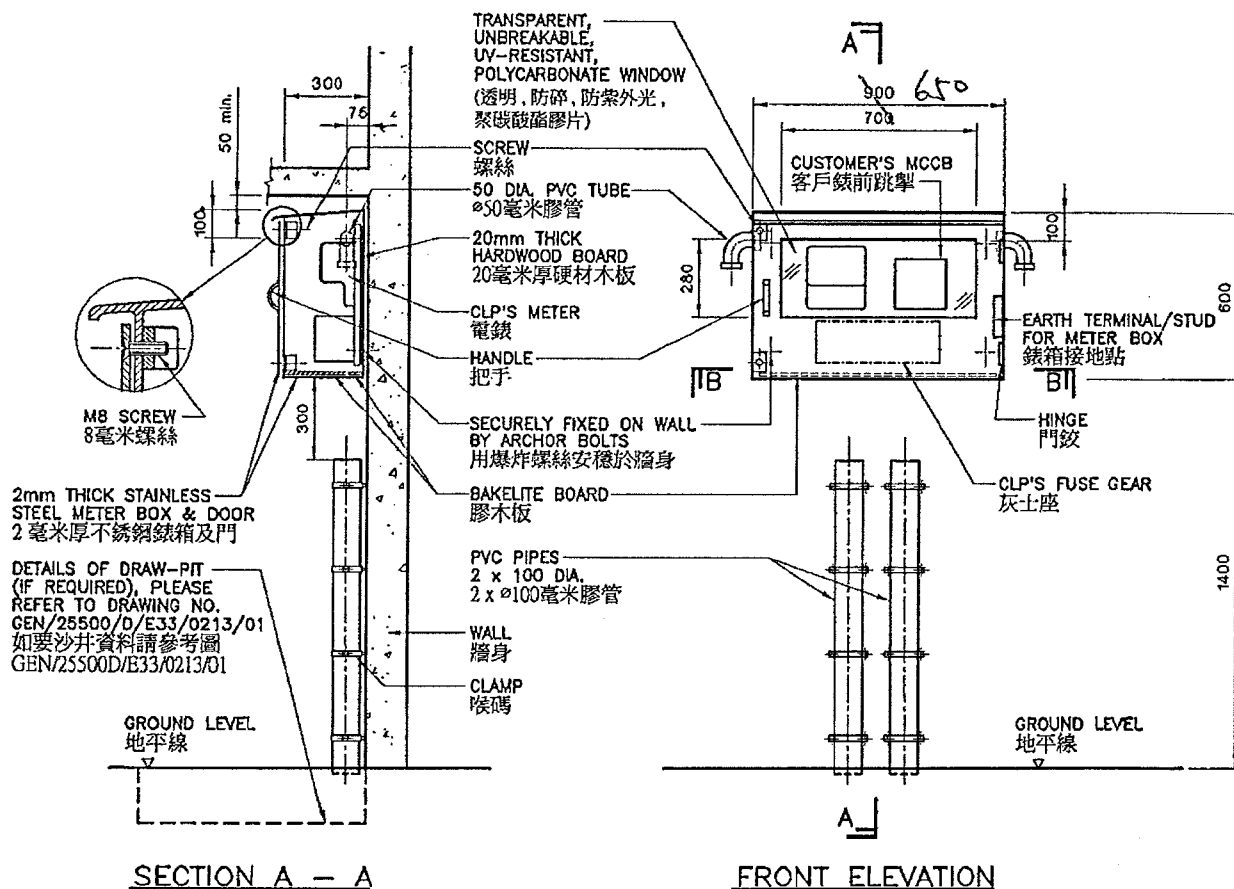
REVS. INITIAL A B C D E F G H J K L

TITLE TYPICAL DETAIL OF 1-WAY CABLE DRAW-PIT FOR VILLAGE HOUSES (STRAIGHT)
村屋單向電纜沙井的標準詳圖(直視圖)

PROJECT NO. CONTRACT NO.

ASSET MANAGEMENT DRG. NO. T GEN 26500 DE 33 0213 01 - A

ALL RIGHTS RESERVED AND REPRODUCTION IN ANY FORM MUST BE APPROVED BY CLP POWER



NOTES (備註):

1. ALL DIMENSIONS ARE IN mm.
標註單位為毫米。

CLP 中電

DRAWN: C W WONG DATE: 17 MAR., 2008
CHECKED: TOMMY HOI APPROVED: K K LEUNG
SCALE: 1:25 SHEET(S) IN SET: 1

ASSET MANAGEMENT

REVS.	A	B	C	D	E	F	G	H	J	K	L
INITIAL											
TITLE :											
TYPICAL WEATHER-PROOF STAINLESS STEEL METER BOX 標準防水不銹鋼錶箱 - 60/100 A 1 x 三相 或 3 x 三相											
PROJECT NO.						CONTRACT NO.					
DRG. NO. T GEN 25500 D E33 0205 01 - A											

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Attachment VI **Calculation of Plane Wave Power Density**

Calculation of Plane Wave Power Density at CP-Sai Wan Shan Site 2367a

$$S = \frac{RGP}{4\pi r^2} \text{ W/m}^2$$

$$S_n(r, \theta) = \frac{S(r, \theta) r_n}{r} \text{ W/m}^2$$



S - Plane Wave Power Density (Far - Field); S_n - Plane Wave Power Density (Near - Field)

R - Radiation Pattern(Normalised to unity in the direction of maximum radiation)

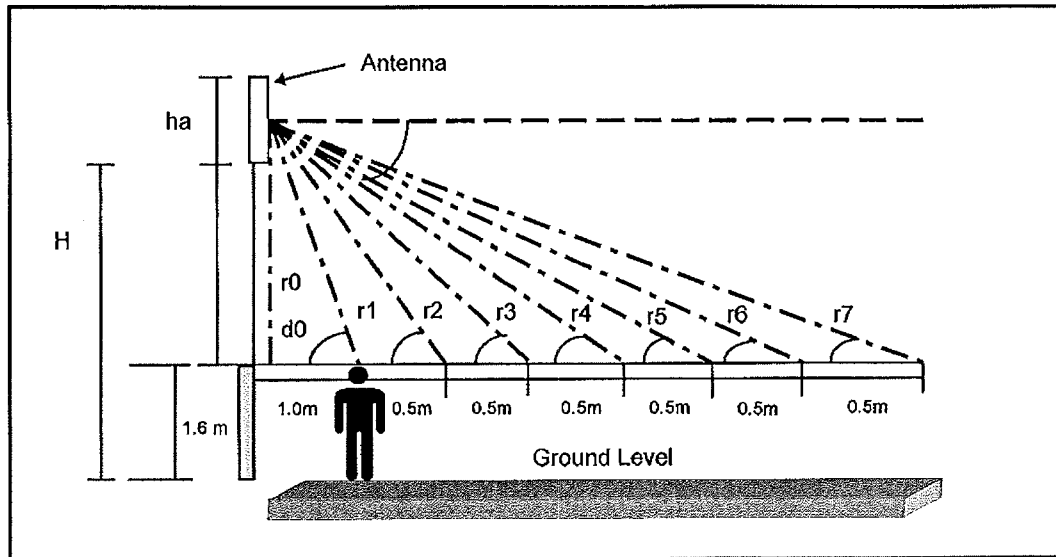
G - Antenna Gain

P - Antenna input power

r - Distance from the observation point to the antenna.

d - Distance from antenna to the cut over point

r_n - Rayleigh Distance (ha² / 2λ)



Ant / Sector Name :- S1

Antenna Specification :-

Ant. Type = CNBPX303F
Ant.Length = 0.86 m

Antenna Configuration :-

D/t = 4 °(α)
G = 9.82 dBd = 9.594
P = 9.51 W
H = 1.7 m
ha = 0.86 m
r_n = 2.25 m

Loss :	dB
Cable loss	1.52
Jumper cable	0.4
Triplexer	0.3
Splitter	0
Total	2.22

dx (m)	r ² (m ²)	r(m)	α-φ (°)	Attu.(dB) (Ref Pattern)	Rx	S(W/m ²)	S _n (W/m ²)
0.0	2.89	1.70	-94	-45.0	0.00003	0.0000794	0.00010538
1.0	3.89	1.97	-63	-24.1	0.00389	0.0072614	0.00830174
1.5	5.14	2.27	-52	-28.3	0.00148	0.0020893	0.00207802
2.0	6.89	2.62	-44	-30.2	0.00095	0.0010064	0.00086450
2.5	9.14	3.02	-38	-24.4	0.00363	0.0028842	0.00215117
3.0	11.89	3.45	-33	-19.8	0.01047	0.0063942	0.00418139
3.5	15.14	3.89	-29	-19.0	0.01259	0.0060373	0.00349869
4.0	18.89	4.35	-27	-20.2	0.00955	0.0036706	0.00190435
4.5	23.14	4.81	-24	-23.3	0.00468	0.0014676	0.00068794
5.0	27.89	5.28	-22	-23.8	0.00417	0.0010852	0.00046336

*Refer to the "IRPA Guideline on Limits of Exposure to Radiofrequency",
the general public exposure limits is 9.226 - 9.275 W/m²
for our 1845.2 - 1855.0 MHz system.