

計劃於大澳萬丈布南大嶼山郊野公園  
安裝綜合流動電話收發站

工程項目簡介

數碼通電訊有限公司

由測建行有限公司制定

二零零七年三月

## 基本資料

### 工程項目名稱

- 1 計劃於大澳萬丈布南大嶼山郊野公園安裝綜合流動電話收發站。

### 工程項目的目的及性質

- 2 本工程項目是由數碼通電訊有限公司流動電話網絡商進行，旨在為遠足人士及郊野公園的旅遊人士提供另一種的通訊方法和在危急的情況下確保旅遊人士可以使用通訊服務，因此需要於大澳萬丈布南大嶼山郊野公園安裝流動電話收發站。

### 工程項目倡議人名稱

- 3 數碼通電訊有限公司

### 工程項目的地點及規模

- 4 擬建的無線電收發站將在附件一的位置圖所顯示的南大嶼山郊野公園範圍內興建，地點共佔 80 平方米的郊野公園用地[10 米 (長度) x 8 米 (闊度)] 並興建於山上(+184.2mPD)。工程將包括建做一個混凝土平台裝置十三(13)個無線電話儀器與兩支 5 米高的天線桿其他設備包括電力供應及電話線。以上基台將會被鐵絲網包圍由圍欄混凝土。所有建築材料、天線桿、天線和設備基台由直升機運送，而廢料由直昇機運走。上述工程不會興建小徑。
- 5 地政總署現還未發出短期租約信，但已初步同意在建議地點興建一個綜合流動電話收發站。地政總署應該會在三月中發出短期租約信是項工程項目主管，數碼通電訊有限公司，已接受由離島區地政處提出的短期租約 (STT No.CX1803)。
- 6 公共設施包括電力供應及電話線將會安裝在本流動電話收發站內。
- 7 電訊覆蓋範圍及對環境的影響是選址的重要因素，建議地點被認為是提供南大嶼山郊野公園覆蓋範圍的最佳地點。其他地點亦曾被考慮，但覺得不適合。

### 指定工程項目

- 8 是項工程是於附件一中所指的擬建工地上興建無線電收發站。根據環境影響評估條例附表 2 第 I 部 Q1 項，基於是項工程含有在郊野公司範圍內進行建築工程，故此是項工程乃指定工程項目，並不列入 Q1 項 (a) 至 (j) 的例外工程中。

### 聯絡人的姓名及電話號碼

- 9 工程之聯絡人為數碼通電訊有限公司彭逸謙先生，聯絡電話 2597 6523，傳真號碼 2597 6560。

### 規劃大綱及工程項目的執行

- 10 是項工程項目是由數碼通電訊有限公司規劃及管理，目的在建議地點裝置電訊設備以提供網絡。
- 11 在取得離島區地政處批出短期租約及由環保署所發出的許可證和屋宇署的開工同意書後，工程項目主管，數碼通電訊有限公司，將會根據工程編制表展開及完成工程。結構圖則已在 2007 年 10 月 27 日遞交于屋宇署審批，並在 2007 年 12 月 20 日獲得批核。其它的政府部門如地區規劃處、水務處、漁農自然護理處、地政處和建築處對上述報告書沒有異議。請參考屋宇處於 2007 年 12 月 20 日發出的批則信載於附件四。

### 工程項目時間表

- 12 預期工程，包括安裝天線及電訊設備將預期於 2007 年五月中動工，為期一個月，並預期於 2007 年 6 月竣工。預計電話收發站將於 2007 年 7 月上旬投入服務。工程編制表載於附件三。

### 對環境可能造成的影響

#### 建築期間

- 13 有關建築期間直至完工之環境及視覺影響，請參閱第 23 項。
- 14 有關建築期間直至完工之所產生的噪音將會減至最少，詳情請參閱第 24 項。
- 15 有關建築期間直至完工之廢料管理影響，包括建築及多餘物料將會減至最少，詳情請參閱第 25 項。
- 16 有關建築期間所產生的沙塵將會減至最少，詳情請參閱第 26 項。
- 17 由於挖掘深度不足 350 毫米及不需岩石爆破，此項目並不涉及大形挖泥工程或泥土運輸。
- 18 是項工程並不需要晚間工作。
- 19 預料建築期間直至完工，將不會對生態或環境造成任何影響。

### 運作期間

- 20 該流動電話收發站竣工後將不會對周圍環境造成嚴重影響。電訊設備詳圖，及有關相片載於附件三。

### 周圍環境的主要元素

- 21 周圍環境的主要元素如下：

#### 背景

設備基台位於山上。基台給雜草、矮樹叢圍繞。位於北方和西方是斜坡。而南方是小徑。位於東方是一座大澳 ATV 轉播站。該處沒有溪流。目前該處並無已落成或籌劃中的噪音監測站。另外，該處亦無輻射監測站，生態監測站及古蹟監測站。因此，是項工程並不會影郊野公園的現狀。

擬建工地被一般在香港常見的雜草及矮樹叢包圍。工地範圍內沒有樹木，故此項工程並不需要砍伐樹木。

### 將採取的環保措施

- 22 電訊設備之位置及設計會附合郊野公園及海岸公園管理局之意見。為了減低周圍環境造成視覺及景觀影響，天線及電訊設備將髹上油漆以配合周圍環境。
- 23 雖然工程項目將不會產生顯著的噪音影響，但是工程亦只會於日間(上午九時至下午五時)進行。由於星期六、日及公眾假期時，郊野公園的遊人會較多，因此，於上述日子將會暫停有關的建築工程。
- 24 工程所產生的建築廢料將會積聚在擬建工地內及會由直升機盡快運走。
- 25 擬建工地將會保持濕潤以防止於工程中產生塵埃。

### 周圍環境的主要元素

- 26 是項工程中將會導入”Standard Pollution Mitigation Measures”。流動電話收發站之運作無須任何工作人員，因此將不會產生噪音或對空氣或水質造成影響。
- 27 流動電話收發站之運作將會遵守電訊管理局所發出之 ”Code of Practice for the Protection of Workers and Members of Public Against Non-Ionizing

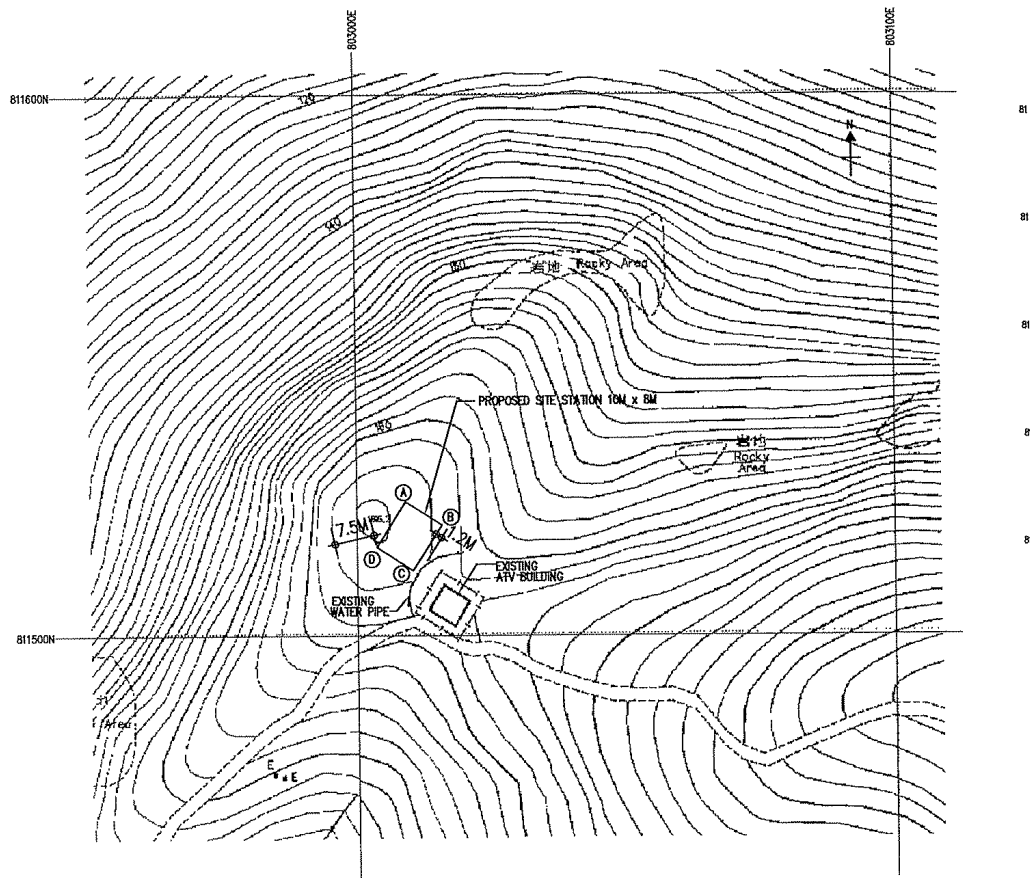
Radiation Hazards from Radio Transmitting Equipment”。擬建工地遠離郊野公園遊人活動範圍(例如燒烤場)。另外，收發站的訊息所發放儀器位於遊人頭頂水平上最少二百零四米以上。因此，收發站所發放的輻射將不會對公眾造成影響。

- 28 如有需要，數碼通電訊有限公司將會派人每年清潔流動電話收發站及重新上油。除非當收發站發生問題或需要緊急維修，將會在第一年派人每三個月一次及往後每年一次進行定期檢查。如此低密度的維修將不會對環境造成明顯的影響。

附件

- |     |                       |
|-----|-----------------------|
| 附件一 | 工地位置圖                 |
| 附件二 | 工程編制表                 |
| 附件三 | 設備基台詳圖及有關相片           |
| 附件四 | 屋宇署於2007年12月20日發出的批則信 |

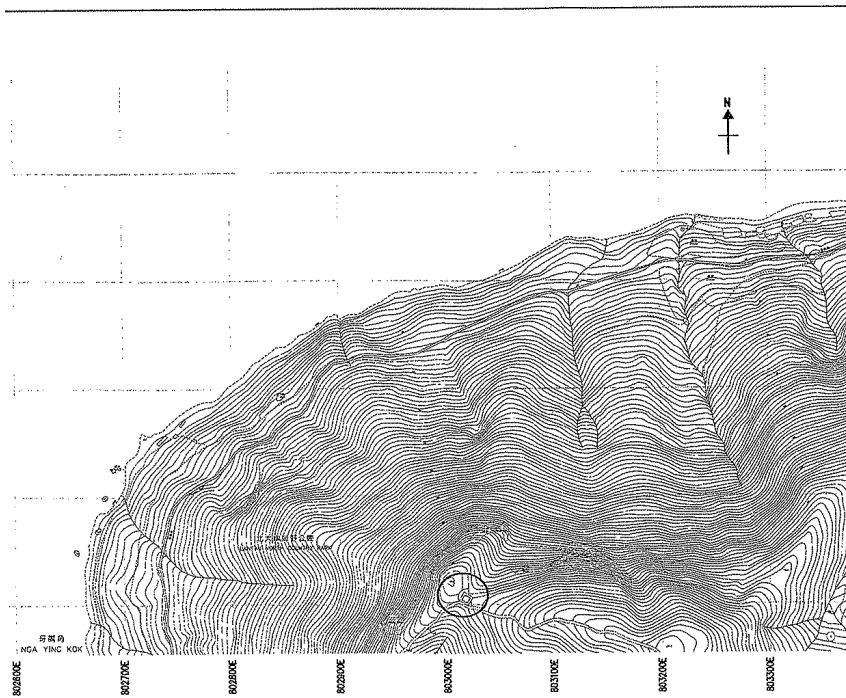
附件 一



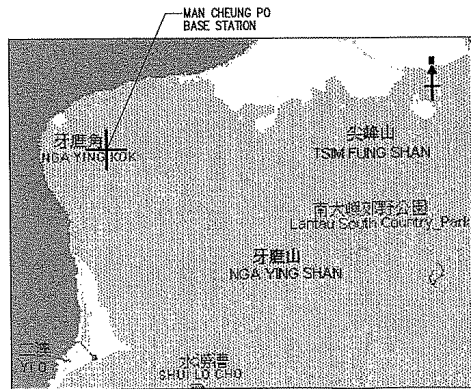
**PROPOSED SITE STATION LAYOUT PLAN**

SCALE: 1:1000

POINT	EAST / NORTH
A	803009E / 811524N
B	803015E / 811520N
C	803010E / 811512N
D	803003E / 811516N



**SITE MAP**  
N. T. S.



**LOCATION MAP**  
N. T. S.

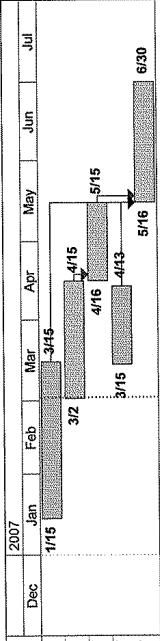
CLIENT :				
SmarTone		vodafone		
CONSULTANT :				
測建行		PRUDENTIAL SURVEYORS (INTL) LTD TEL. 25078333 FAX. 25986576		
AUTHORIZED PERSON :				
Dennis W.C. Wong BSc (Eng), MSc (Eng), MPhil, MICE, MIE, IPE, IPE, Authorized Person Registered Structural Engineer				
REGISTERED STRUCTURAL ENGINEER :				
Lee Chi-Pui BSc (Eng), MSc (Struct. Eng), MPhil, MICE, MIE, IPE, Authorized Person Registered Structural Engineer				
PROJECT TITLE :				
PROPOSED TRIAL PIT LOCATION AT MAN CHEUNG PO				
DRAWING TITLE :				
LOCATION PLAN				
DATE	DRAWN	DESIGNED	CHECKED	SCALE
7/12/08	WS	AT	DW	AS SHOWN
JOB NO. :		DRAWING NO. :		
B1774		A-01		
FILING CODE:				
STATUS : 1ST SUBMISSION				



## 附件二

Proposed Installation of Integrated Mobile Phone Base Station at Man Cheung Po, Tai O, N.T.

ID	Task Name	Duration	Start	Finish
1	Apply for permission to District Lands Office (DLO)	60 days	Mon 1/15/07	Thu 3/15/07
2	Apply for permission to apply directly for Environmental Permit (EP)	45 days	Fri 3/2/07	Sun 4/15/07
3	Apply for EP	30 days	Mon 4/16/07	Tue 5/15/07
4	Apply for consent and submission of SSP	30 days	Thu 3/15/07	Fri 4/13/07
5	Civil works construction and equipment installation	46 days	Wed 5/16/07	Sat 6/30/07



Project: works schedule\_v2  
Date: Fri 3/2/07

Task	Summary	Rolled Up Progress	Group By Summary
Critical Task	Rolled Up Task	Split	
Progress	Rolled Up Critical Task	External Tasks	
Milestone	Rolled Up Milestone	Project Summary	

### 附件 三





**THE PROTECTION OF EARTHWORKS AGAINST HEAVY RAINFALL**

- a) SURFACE WATER FLOWING INTO THE SITE FROM ADJACENT GROUND SHALL BE INTERCEPTED AND CONDUCTED FROM THE SITE TO AN INDICATED SAFE DISCHARGE POINT.
- b) ALL EARTHWORKS SHALL BE GRADED AND SEALED TO ENSURE RUN-OFF AND TO AVOID PONDING.
- c) A METHOD OF WORKING SHALL BE ADOPTED TO MINIMIZE THE EXPOSED BARE SOIL AT ANY TIME.
- d) WHERE TEMPORARY BARE EARTH SLOPE FACES ARE UNAVOIDABLE THEY SHALL BE PROTECTED WITH SHEETING WELL-SECURED AGAINST THE WIND. WHERE SLOPE FACES ARE TO BE TEMPORARILY EXPOSED FOR MORE THAN TWO WEEKS TEMPORARY HARD SURFACING SHALL BE PROVIDED AND TEMPORARY SHALL BE INSTALLED.

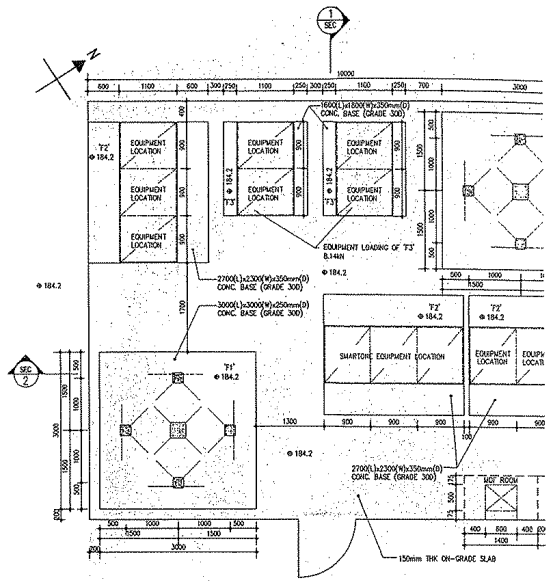
**COMPACTION :**

- 1) THE IN-SITU FIELD DRY DENSITIES OF COMPACTED MATERIALS SHALL NOT BE LESS THAN 95% OF THE MAXIMUM DRY DENSITY DESCRIBED

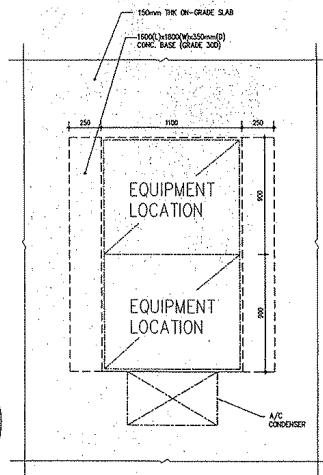
TABLE 1 :

DESCRIPTION	SIZE OF AREA OF FILL IN BATCH <sup>x</sup>	NO OF DETERMINATIONS PER BATCH <sup>x</sup>
FILL IN EXCAVATIONS	0-100m <sup>3</sup>	3
	100-500m <sup>3</sup>	2 FOR EACH 100m OR PART THEREOF
	EXCEEDING 500m <sup>3</sup>	1 FOR EACH 100m OR PART THEREOF

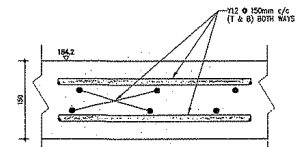
<sup>x</sup> A BATCH OF FILL MATERIAL IS ANY QUANTITY OF FILL MATERIAL OF THE SAME TYPE, AND HAS SIMILAR PROPERTIES THROUGHOUT.



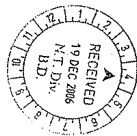
**LAYOUT PLAN FOR FOUNDATION**  
SCALE: 1:50



**DETAIL E**  
SCALE: 1:20



**150mm THK. ON-GRADE SLAB DETAIL**  
SCALE: 1:5



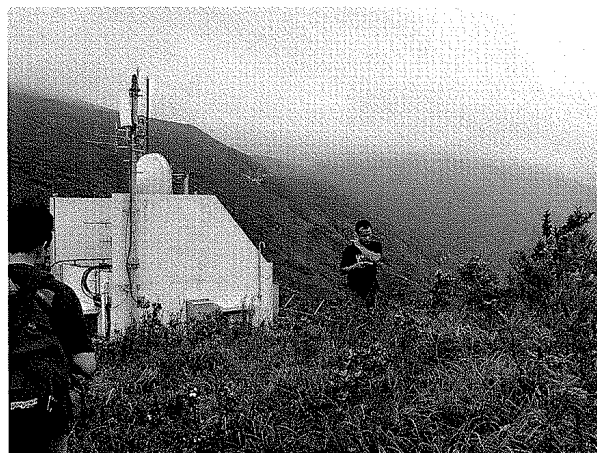


## 附件 四





相片 1: 建議興建無線發射站之位置



相片 2: 建議興建無線發射站之位置

## 附件 五



YOUR REF 來函編號：  
OUR REF 本署檔號： **BD 2/9158/06**  
FAX 圖文傳真： **2845 1559**  
TEL 電話： **2626 1278**  
www.bd.gov.hk

Mr. WONG Wing-cheung Dennis

12/F,  
Asian House,  
1 Hennessy Road,  
Hong Kong

9

20 December 2006

Dear Sir,

**South Lantau Island Country Park, Man Cheung Po,  
Tai O, Lantau Island - STT CX 1803**

I refer to your application dated received on 27 October 2006 and the supplementary information received on 19 December 2006 for approval of proposals in respect of Building, Foundation and Superstructure.

2. Your submission of plans has been checked under the curtailed check system announced in Practice Notes for Authorised Persons & Registered Structural Engineers 272. On this basis, I am satisfied that your submission is fundamentally acceptable and may be approved.

3. You are reminded that the curtailed check system covers only the fundamental issues of a building proposal. Although non-fundamental issues will not be raised as reasons for disapproving a submission, I expect that all contraventions of the Buildings Ordinance and its subsidiary legislation are rectified as and when they are discovered and in any event, before completion of the works is certified. In this connection, I ask you to note that the Building Authority attaches great importance to the proper assumption of duties and responsibilities by authorised persons and registered structural engineers.

4. In accordance with the provisions of regulation 30(1) of the Building (Administration) Regulations, this is to notify that the above - mentioned plans submitted with your application dated received on 27 October 2006 and the supplementary information received on 19 December 2006 are hereby approved. One set of the said plans, on which I have signified my approval, is enclosed. Your client has been sent a copy of this letter but I would request that you ensure that the contents are understood by him.

5. This approval should not be deemed to confer any title to land or to act as a waiver of any term in any lease or licence. This approval does **NOT** authorise the commencement or the carrying out of any works shown in the approved plans. Section 14(2) of the Buildings Ordinance refers.

6. Please see attached sheet.

c.c. **Smartone Mobile Communication Ltd.**  
12/F, Somerset House,  
979 King's Road,  
Quarry Bay, Hong Kong

DPO/SK & Is      DLO/Is  
CGE/MW, GEO      DFS  
DAF&C              CO/SM

Yours sincerely,

(LO Cho-ki)  
Chief Building Surveyor  
for Building Authority

S.L. 9 (02/2004)

Our ref.: BD 2/9158/06

6. This approval is subject to the conditions and requirements detailed in Appendices A, B and C.
7. Under Building (Administration) Regulation 10, you are required to submit the ground investigation report to verify the design bearing capacity of the founding stratum. Consent to the commencement and carrying out of the foundation works now approved will not be given until the above ground investigation report has been submitted and found satisfactory. Section 16(3) (ba) of the Buildings Ordinance refers.
8. Chief Geotechnical Engineer/Mainland West, Geotechnical Engineering Office, Civil Engineering and Development Department (contact officer: Mr. K.C. LAU at tel. 2762 5210) has no geotechnical objection in principle. However, please be informed of the conditions and requirements as set out in Appendix D.
9. District Planning Officer/Sai Kung & Islands, Planning Department (contact officer: Mr. Lawrence CHAU tel. 2158 6158) has the comments in Appendix E.
10. Director of Agriculture, Fisheries and Conversation (contact officer: Mr. K. T. CHAN at tel. 2150 6843) has the comments in Appendix F.
11. Your submission of plans has been referred to District Lands Officer/Islands for direct comment.
12. It is noted that you/RSE amended the plans on 14.12.2006 and additional drawings were submitted on 19.12.2006. Please forward a copy of the approved plans to all the concerned departments for reference.

*to submit  
to SE,  
& logging  
report is  
sufficient, no  
and is*

Ref : BD 2/9158/06

Address : South Lantau Island Country Park, Man Cheung Po, Tai O, Lantau Island - STT CX 1803

Appendix A to approval dated 20 DEC 2006

### Reinforced Concrete Works

In giving this approval of plans, I hereby impose the following conditions under item 6 in section 17(1) of the Buildings Ordinance:

- (a) Sampling and testing of steel reinforcement should be carried out in accordance with Practice Note for Authorized Persons and Registered Structural Engineers 122 (PNAP 122) current at the date of this approval. Testing should be carried out by a laboratory\* accredited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for the particular test concerned. Test results should be reported on a HOKLAS Endorsed Certificate and submitted within 60 days of the delivery of the steel reinforcement to the site. The test reports should be appended with a statement signed by the Authorized Person/Registered Structural Engineer to confirm the following:
  - (i) All steel reinforcement used for the construction and the test specimens covered by the test reports are in accordance with the types and grades of steel shown in the approved plans.
  - (ii) Sampling and testing of steel reinforcement used have been carried out in accordance with the current PNAP 122.
  - (iii) The acceptance criteria appropriate to each type and grade of steel reinforcement used have been complied with.
  - (iv) All steel reinforcement tests have been carried out by a laboratory\* accredited under HOKLAS.
- (b) Sampling of concrete and compression testing of concrete test cubes should be carried out in accordance with the methods specified in CS1:1990. Testing should be carried out by a laboratory\* accredited under HOKLAS for the particular test concerned. Test results should be reported on a HOKLAS Endorsed Certificate and submitted within 21 days after testing. The test reports<sup>#</sup> should be appended with a statement signed by the Authorized Person/Registered Structural Engineer to confirm the following:

- (i) All concrete used for the construction and concrete cubes covered by the test reports are in accordance with the concrete grades shown in the approved plans.
  - (ii) Concrete cube sizes, rates of sampling fresh concrete for testing and acceptance criteria for compressive strength set out in Building (Construction) Regulations have been complied with.
  - (iii) All concrete cube tests have been carried out by a laboratory\* accredited under HOKLAS and in accordance with the methods specified in CS1:1990.
- (c) Qualified site supervision of the reinforced concrete works and of the sampling of concrete and making and curing of test cubes, by an experienced and competent person, should be provided to ensure that the works are carried out in accordance with the plans approved and that the required standards are complied with.

\* A Directory of Accredited Laboratories in Hong Kong is obtainable from the Hong Kong Accreditation Service (HKAS) Executive, Innovation and Technology Commission.

Up-to-date information on accredited laboratories and their scopes of accreditation are available on the internet at the HKAS website at <http://www.info.gov.hk/itc/hkas/>.

A laboratory's accreditation for an individual test or calibration may be granted, modified or withdrawn at any time. To ensure that the test that you commission the laboratory to conduct is within its scope of accreditation, please always insist on test results be reported on a HOKLAS Endorsed Certificate.

# The test reports, when submitted, should be appended with a summary which contains information on locations of concerned structural elements, concrete grades and dates of cast. The summary should also include previous summary information of concrete cube test reports in chronological order.

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Ref : BD 2/9158/06

Address : South Lantau Island Country Park, Man Cheung Po, Tai O, Lantau Island - STT CX 1803

Appendix B to approval dated 20 DEC 2006

### **Structural Steel Works**

In giving this approval of plans, I hereby impose the following conditions under item 6 in section 17(1) of the Buildings Ordinance:

- (a) Qualified site supervision of the structural steel works, including fabrication, erection and examination of the structural elements, by an experienced and competent person should be provided to ensure that the works are carried out in accordance with the plans approved and that the required standards are complied with.
- (b) For welding of structural steel works, welding procedures and welders should be assessed/tested in accordance with the appropriate provisions of British Standards BS 4870, BS 4871 and BS 4872.

2. Under Building (Administration) Regulation 10, a copy of mill certificates of the structural steel used, is required to be submitted which should be appended with a statement signed by the authorized person/registered structural engineer to confirm that the requirements of chemical composition and mechanical properties appropriate to the type of steel have been complied with.

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Ref : BD 2/9158/06

Address : South Lantau Island Country Park, Man Cheung Po, Tai O, Lantau Island - STT  
CX 1803

Appendix C to approval dated 20 DEC 2006

### **Foundation Works (Spread Footings/Rafts)**

In giving this approval of plans, you are reminded that site supervision of the foundation works by a team of supervisors shall be provided each by the Authorized Person, the Registered Structural Engineer and the Registered Specialist Contractor / Registered General Building Contractor in accordance with the Technical Memorandum for Supervision Plans and the Code of Practice for Site Supervision to ensure that the quality of the foundation works is up to standard and that the works are carried out in accordance with the plans approved and in such a manner as not to render inadequate the margin of safety of, or impair the stability of, or cause danger to any building, structure, land, street or services. Details of site supervision for the foundation works shall be included in the supervision plan and submitted prior to or at the time of application for consent to the commencement of the foundation works.

2. In connection with paragraph 1 above regarding inspection of bearing stratum to check for compliance with approved plans, site investigation reports and design assumptions, the Buildings Department should be notified of the time and date of the inspection so that it may be witnessed by a representative from the Department.

3. Under Building (Administration) Regulation 10, two sets of foundation record plans and report together with the Form BA 14 stipulated in Building (Administration) Regulation 25 to certify the completion of the foundation works are required to be submitted. The record plans should show the characteristic features of the site and the identification, location, size and founding level of each foundation unit as constructed



Ref: BD 2/9158/06

Address: South Lantau Island Country Park, Man Cheung Po, Tai O, Lantau Island –  
STT CX 1803

APPENDIX \_\_\_\_\_ TO APPROVAL DATED 20 DEC 2006  
BUILDING PLAN SUBMISSION

1. Please be informed that site formation submissions should contain the following information, failing which approval may be refused under the Buildings Ordinance Section 16(1):
  - 1.1 Site formation plans and appropriate supporting geotechnical documentation taking into consideration the requirements of Building (Admin) Regulation 8(1)(bb) with particular emphasis on : -
    - 1.1.1 the provision of support and strengthening of existing retaining walls and/or slopes both during construction and in the long term, and a report of an investigation of the effects of intended construction works on existing walls and/or slopes, including demonstration of compliance with B(C)R 20.

From	District Planning Officer/ Lantau and Islands, Plan D	To	Chief Building Surveyor/NTE- Buildings Department
Our Ref.	( ) in L/L/TO/24	(Attn.:	Mr Y K YIM
Tel. No.	2158 6158	Your Ref.	(4) in BD 2/9158/06
Fax No.	2890 5194	dated	6.11.2006 Fax. No. 2845 1559
Date	27 November 2006	Total Page(s)	1

**STT CX 1803**  
**South Lantau Island Country Park, Man Cheung Po**  
**Tai O, Lantau Island**

I refer to your above-quoted memo and the accompanying building plan (Drawing No. MCP-01) received by this Office on 9.11.2006.

Statutory Comment

2. The subject site is not covered by any statutory town plans.

Other Comment

3. However, it falls within the Lantau North Country Park. Subject to AFCD's comment, we have no objection to the development proposal as shown on the submitted building plan.
4. The above comments on the building plan submitted may be subject to revision should there be a change in circumstances before a decision on the building plan is made by the Building Authority.

*Lawrence Chou*

(Lawrence CHAU)  
for District Planning Officer/  
Lantau and Islands  
Planning Department

*Jmc* c.c. Site Record  
LYCC/kyl

Appendix F

<i>From</i> Director of Agriculture, Fisheries & Conservation	<i>To</i> Chief Building Surveyor/NTE, Building Department
<i>Ref.</i> (9) in AF GR CPDA LN/98/2006	<i>(Attn.)</i> Mr. Y. K. YIM
<i>Tel No.</i> 2150 6843	<i>Your Ref.</i> (6) in BD 2/9158/06
<i>Fax No.</i> 2199 7044	<i>Dated</i> 7 November 2006 <i>Fax No.</i> 2845 1559
<i>Date</i> 20 November 2006	<i>Total Pages</i> 1

**South Lantau Island Country Park, Man Cheung Po, Tai O**  
**Lantau Island – STT CX 1803**

I refer to your memo under reference.

2. I have the following comments on the proposed installation of Mobile Phone Base Station:-

- i) All antenna poles should be painted in Pantone 462U, BS10B25 or similar subdue colours upon completion to match with the surrounding environment.
- ii) All temporarily disturbed areas should be reinstated back to their original states with hydroseeding of grasses and/or vegetation planting.



(K. T. CHAN)

for Director of Agriculture, Fisheries & Conservation

c.c.  
Prudential Surveyors International Ltd. (Attn.: Mr. Dennis W. C. WONG) 2598 6576

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