

計劃於元朗大棠山山頂 297 號
安裝流動電話收發站

工程項目簡介

和記電訊有限公司

由測建行有限公司制定

二零零八年十月

基本資料

工程項目名稱

- 1 計劃於元朗大棠山山頂 297 號安裝流動電話收發站。

工程項目的目的及性質

- 2 本工程項目是由和記電訊有限公司流動電話網絡商進行，旨在為遠足人士及自然保育區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，因此需要於元朗大棠山山頂 297 號安裝流動電話收發站。

工程項目倡議人名稱

- 3 和記電訊有限公司

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元朗大棠山山頂 297 號範圍內興建，三地點共佔 37.02 平方米的郊野公園用地。工程將包括裝置一個無線電話設備基台[7.0 米(長度)×3.5 米(闊度)]，安裝一支 7.5 米高的天線桿地台[2.6 米(長度)×2.6 米(闊度)]，安裝一支 6.5 米高的天線桿地台[2.4 米(長度)×2.4 米(闊度)]及其他設備包括電力供應及電話線。以上裝置將會被鐵絲網包圍。所有建築材料、天線桿、天線和設備基台將由直昇機運送，而廢料亦會由直昇機直接運走。上述工程不會興建小徑。
- 5 本公司已於 2007 年 6 月提交計劃書予地政總署，地政總署以中介角色轉介至各有關政府部門，如土木工程拓展署，規劃署和環保署。土木工程拓展署註釋上述工程對附近斜坡之影響作出調查及研究。規劃署根據分區計劃大綱圖編號 S/YL-TYST/10 對上述工地已劃入為自然保育區。根據分區計劃大綱圖之註解，上述工程列為 '公用事業設施裝置' 用途。根據分區計劃大綱圖，上述工地列為 '自然保育區'，所以環境保護署評論上述工程需向該署申請環保許可證。而上述各政府部門之意見現正處理當中，地政署將會於上述政府部門給予批准或同意後發給短期租約了申請人。
- 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元朗大棠山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自然保育區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 工程之聯絡人為和記電訊有限公司陳仲興先生, 聯絡電話 2128 5838, 傳真號碼 3152 2751。

規劃大綱及工程項目的執行

- 10 是項工程項目是由和記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 在取得元朗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, 和記電訊有限公司, 將會根據工程編制表展開及完成工程。結構圖則現正準備中, 預計於 2008 年 10 月下旬遞交于屋宇署審批, 並估計會在 2008 年 12 月下旬獲得批核。

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 2009 年 1 月尾動工, 為期一個半月, 並預期於 2009 年 3 月中完工。預計電話收發站將於 2009 年 3 月尾投入服務。工程編制表載於**附件三**。

泥頭將會由直昇機盡快運走。避免積水和山泥傾瀉開坑的地方將會用英泥沙或草鞋蓋上。

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 22 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 23 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 24 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 25 項。
- 17 由於挖掘深度不足 600 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

一支 6.5 米高的天線桿基台和一支 7.5 米高的天線桿基台，設備基台位於山上。三個基台給雜草、矮樹叢圍繞。設備基台的兩個天線桿基台的四方給斜坡圍繞，擬建工地的周圍沒有溪流。設備基台和一支 6.5 米高的天線桿基台的東南方是一個無線電視電訊收發站。

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，空氣監測站，噪音監測站，生態監測站及古蹟監測站。因此，是項工程並不會影響自然保育區的現狀。

擬建工地被一般在香港常見的雜草包圍。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 爲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 擬建工程只會使用輕巧工具，大形工具不會使用。加上噪音監測站離開工地多於 600 米，所以工程項目將不會產生顯著的噪音影響。工程亦只會於日間(上午九時至下午七時)進行。由於星期六、日及公眾假期時，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由直昇機盡快運走。
- 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”。擬建工地遠離遊人活動範圍。另外，收發站的訊息所發放儀器位於遊人頭頂水平上最少 6.5 米以上。因此，收發站所發放的幅射將不會對公眾造成影響。
- 28 如有需要，和記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 工地位置圖及局部平面圖
- 附件 二 工程編制表
- 附件 三 設備基台詳圖及有關相片

附件 一

工地位置圖及局部平面圖

屯門
Tuen Mun

插圖
Inset



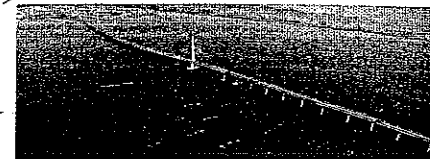
龍鼓洲
LUNG KWU CHAU

沙洲及龍鼓洲
海岸公園
SHA CHAU AND LUNG KWU CHAU
MARINE PARK

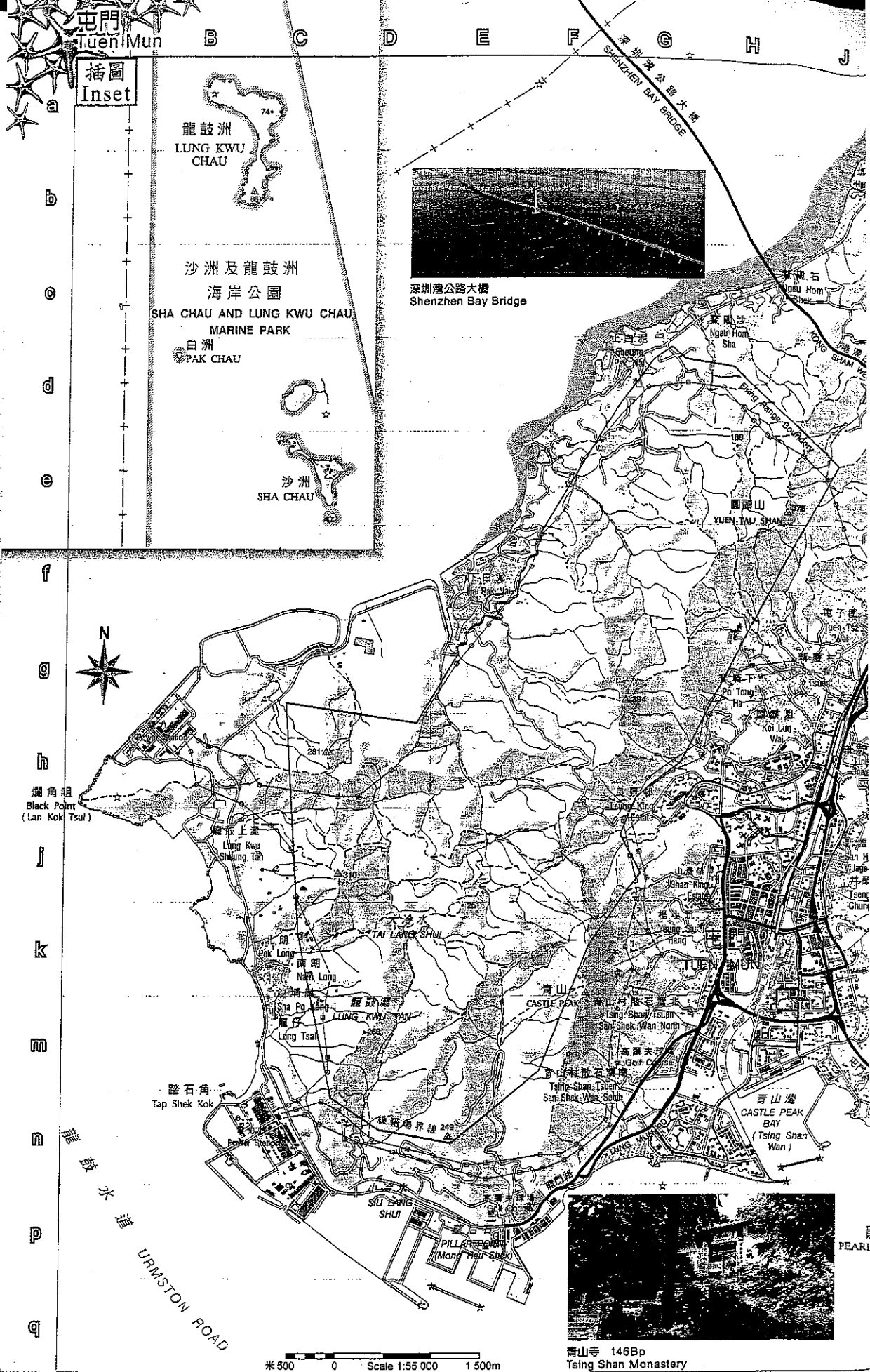
白洲
PAK CHAU



沙洲
SHA CHAU



深圳灣公路大橋
Shenzhen Bay Bridge



黑角咀
Black Point
(Lan Kok Tsui)

踏石角
Tap Shek Kok

龍鼓水道
URMSTON ROAD



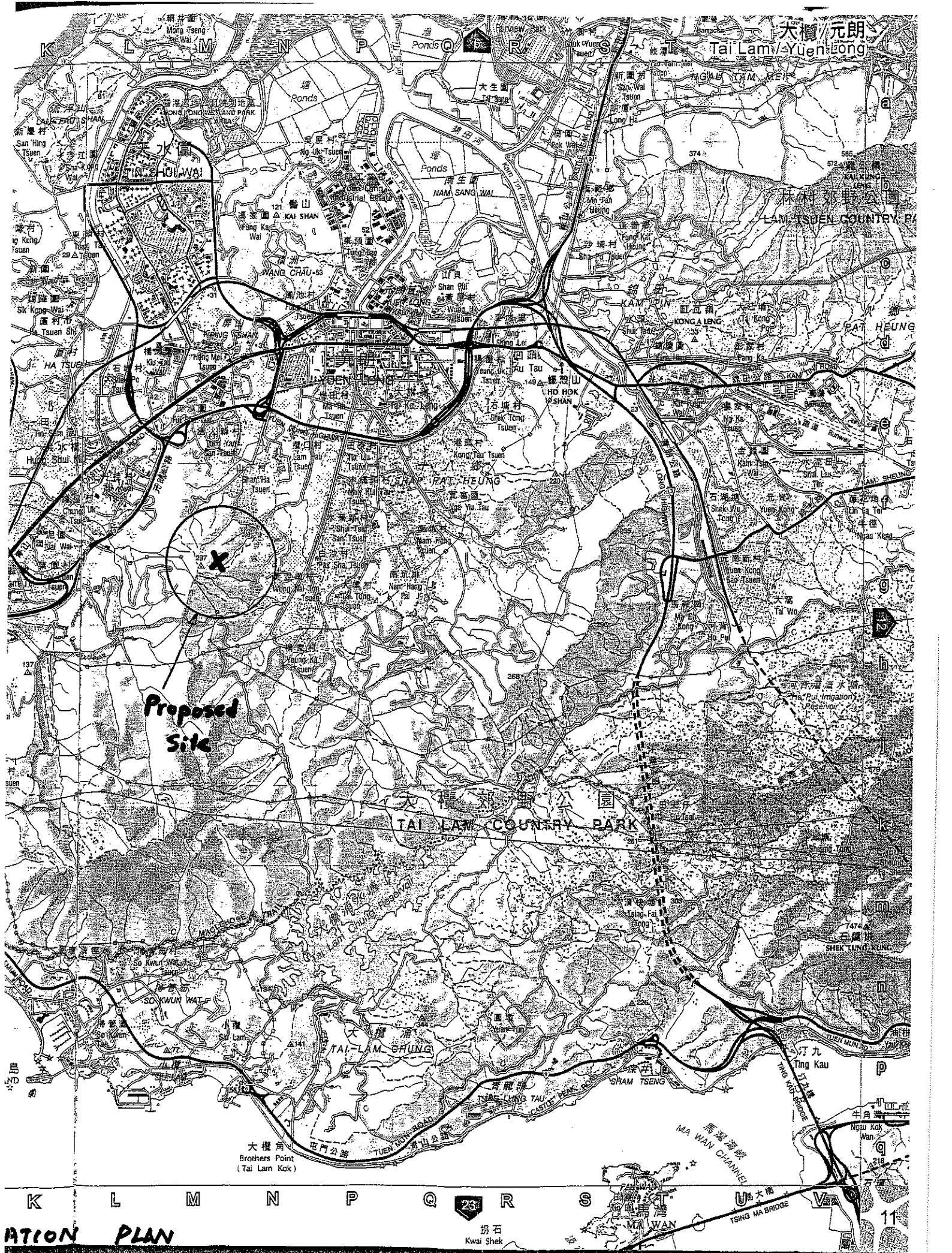
青山寺 146Bp
Tsing Shan Monastery

米 500 0 Scale 1:55 000 1 500m

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22

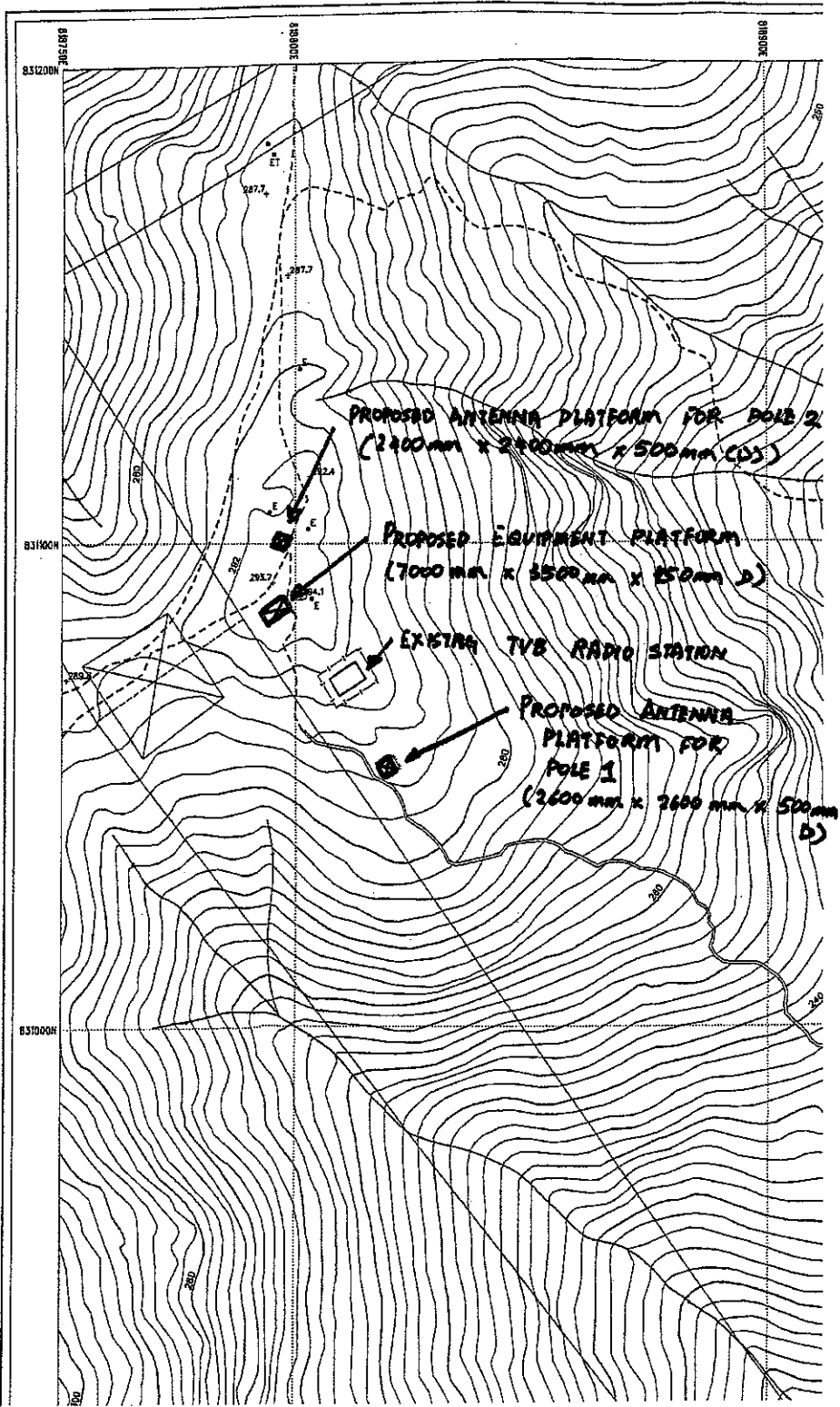
SITE LC



ACTION PLAN

23
 拐石
 Kwai Shek

11

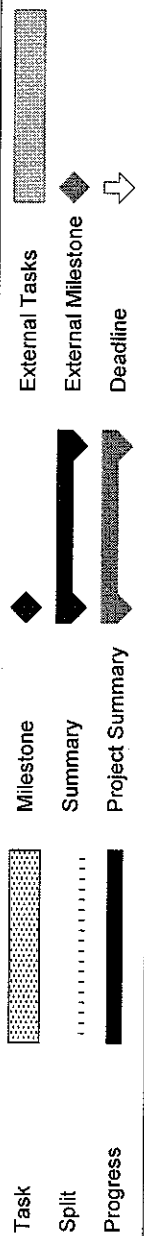


PART PLAN

附件二
工程編制表

Proposed Installation of Mobile Communications Radio Base Station at Tai Tong, Yuen Long, N.T.

ID	Task Name	Duration	Start	Finish	2009					
					Oct	Nov	Dec	Jan	Feb	Mar
1	Submission for approval by Buildings Department (BD)	60 days	Fri 10/24/08	Mon 12/22/08						
2	Submission of Project Profile (PP) / Apply for permission to apply directly for Environmental Permit (EP)	45 days	Wed 10/22/08	Fri 12/5/08						
3	Permission from EPD for apply for EP directly	5 days	Sat 12/6/08	Wed 12/10/08						
4	Apply for EP	30 days	Thu 12/11/08	Fri 1/9/09						
5	Apply for consent and submission of SSP	30 days	Tue 12/23/08	Wed 1/21/09						
6	Notification of commencement of work	7 days	Thu 1/22/09	Wed 1/28/09						
7	Mobilization	7 days	Thu 1/29/09	Wed 2/4/09						
8	Carry out excavation work	21 days	Thu 2/5/09	Wed 2/25/09						
9	Construction of footing	14 days	Thu 2/26/09	Wed 3/11/09						
10	Equipment and Antenna installation	7 days	Thu 3/12/09	Wed 3/18/09						
11	Testing and Commission	5 days	Thu 3/19/09	Mon 3/23/09						



Project: works schedule_1
Date: Tue 10/21/08

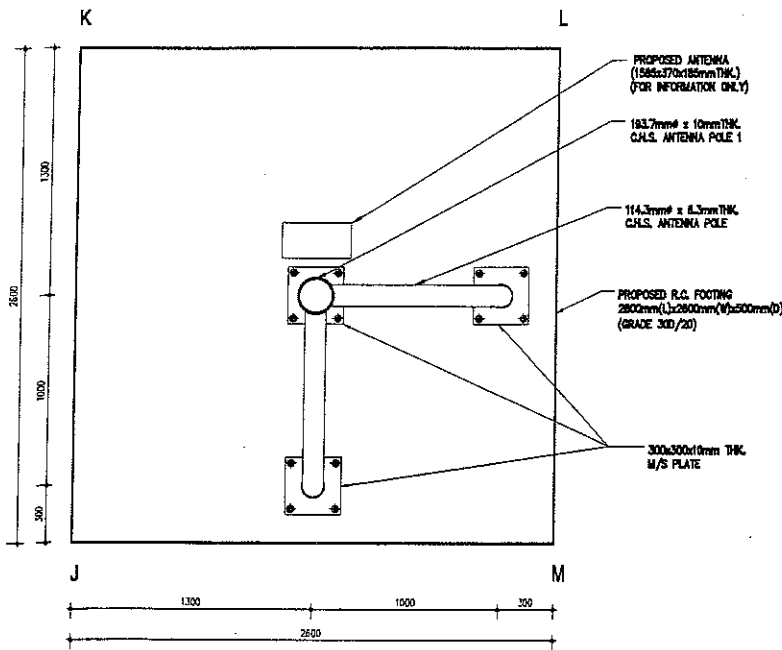
Task
 Split
 Progress

Milestone
 Summary
 Project Summary

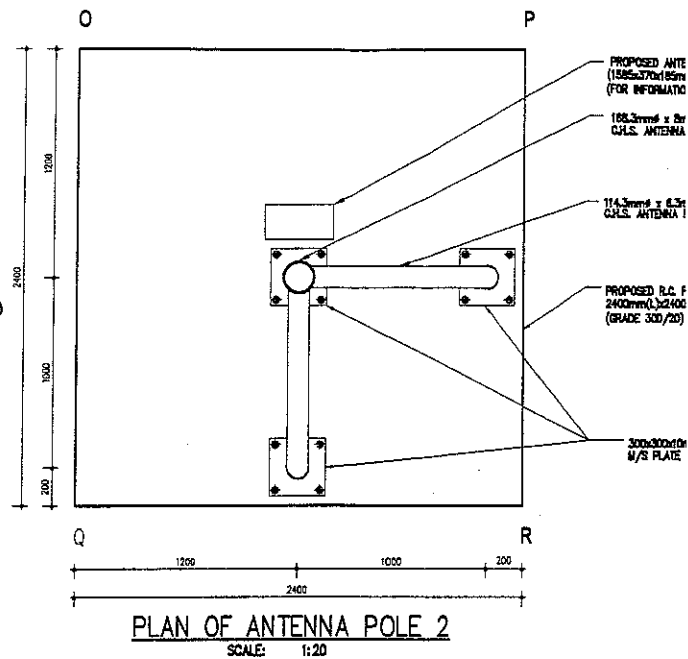
External Tasks
 External Milestone
 Deadline

附件 三

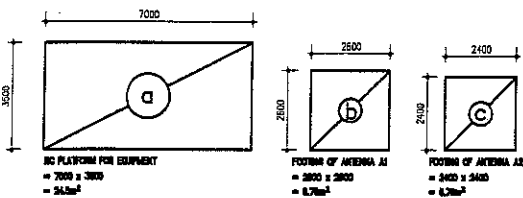
修正結構圖則及有關相片



PLAN OF ANTENNA POLE 1
SCALE: 1:20

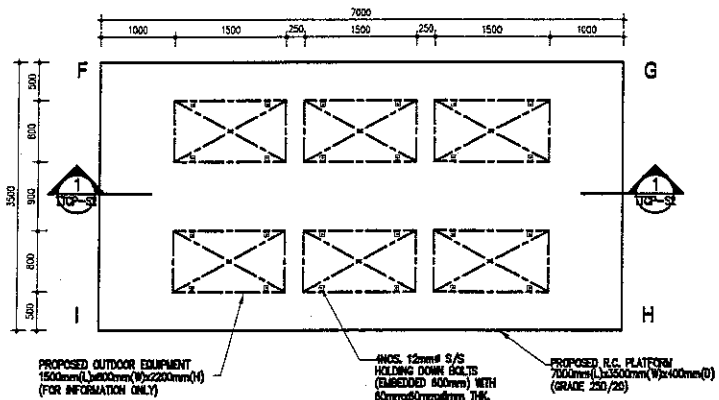


PLAN OF ANTENNA POLE 2
SCALE: 1:20

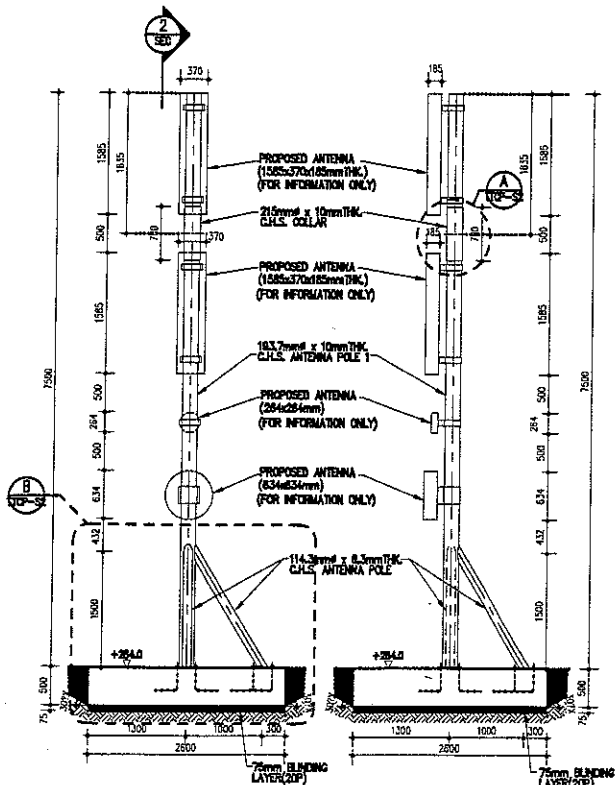


TOTAL TENANCY AREA = 37.02m²

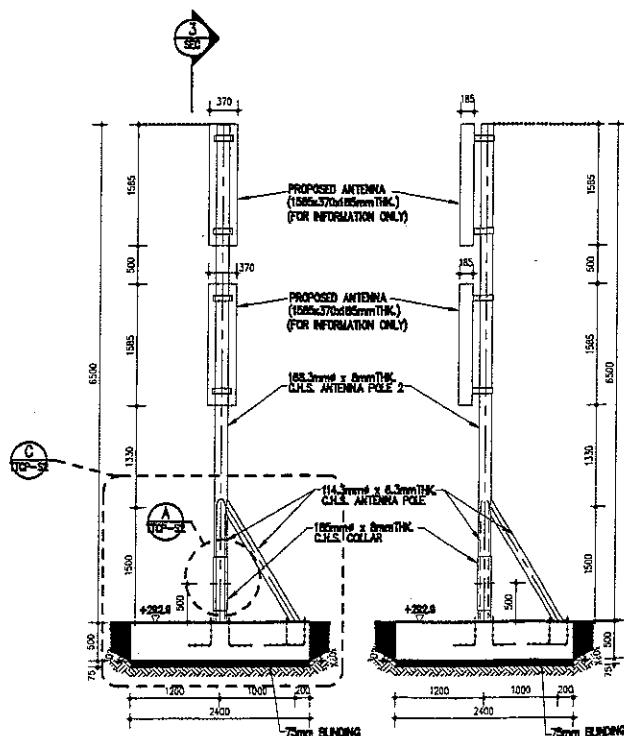
TENANCY AREA
SCALE: 1:20



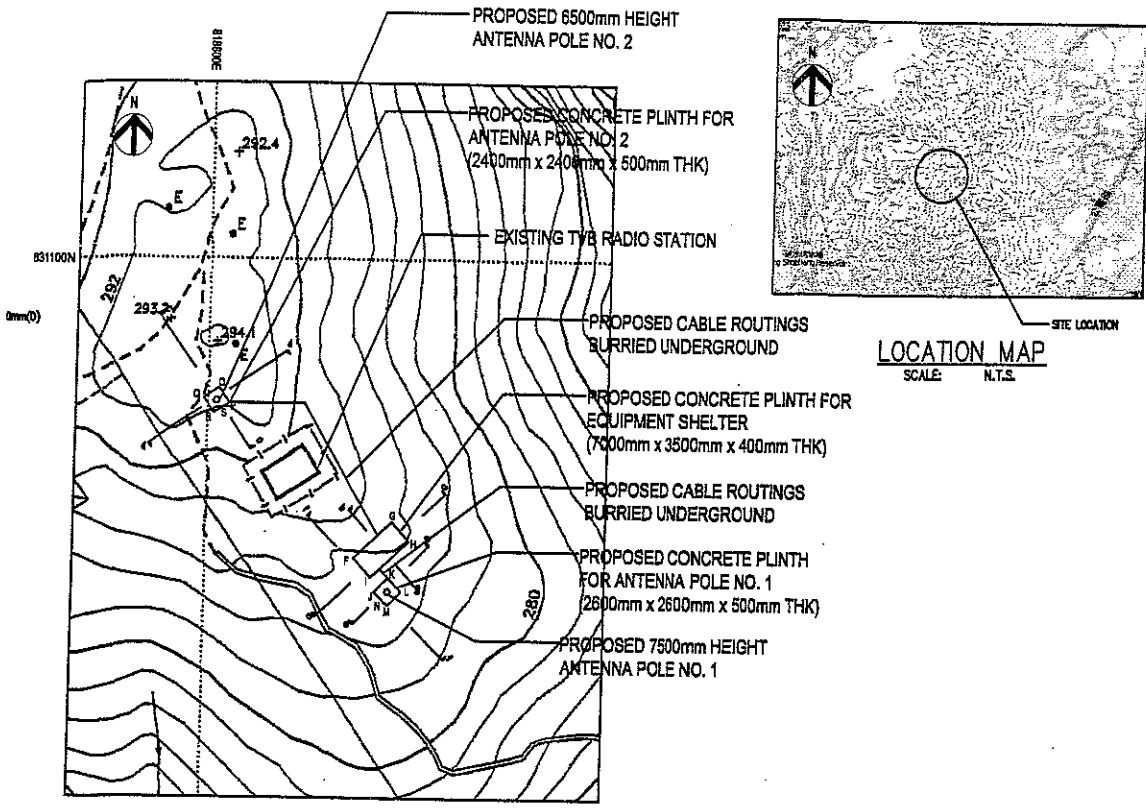
LAYOUT PLAN OF CONC. PLATFORM FOR OUTDOOR EQUIPMENT
SCALE: 1:50



ELEVATION OF ANTENNA POLE 1 SECTION 2-2
SCALE: 1:50



ELEVATION OF ANTENNA POLE 2 SECTION 3-3
SCALE: 1:50



B.D. REF :

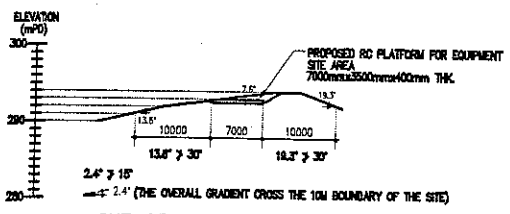
F.S.D. REF :

NOTES:

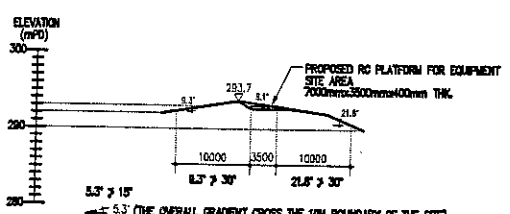
1. WORK FROM FIGURED DIMENSIONS ONLY.
2. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT SPECIFICATIONS, CONDITIONS OF CONTRACT AND ALL OTHER RELEVANT DRAWINGS. THE AUTHORIZED PERSON / REGISTERED STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
4. THIS DRAWING IS NOT VALID FOR CONSTRUCTION OR OTHER PURPOSES UNLESS IT HAS BEEN SIGNED BY THE AUTHORIZED PERSON / REGISTERED STRUCTURAL ENGINEER.
5. ALL WORKS SPECIFIED ON THIS DRAWING SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH PROVISIONS OF THE BUILDING ORDINANCE AND REGULATIONS.
6. COPY RIGHT OF THIS DRAWING IS RESERVED BY THE AUTHORIZED PERSON / REGISTERED STRUCTURAL ENGINEER. NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT HIS WRITTEN CONSENT.

REVISION	DESCRIPTION	DATE

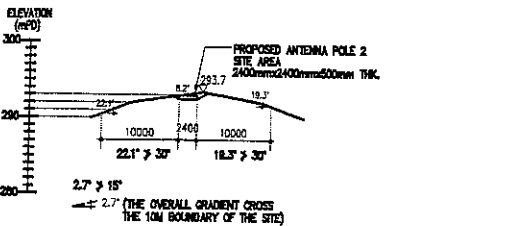
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G	81825.133	831065.872	K	81824.719	831058.253	P	81802.750	831080.880
H	81827.519	831063.012	L	81828.570	831058.427	Q	81799.418	831081.818
I	81822.387	831058.240	M	81824.744	831054.578	R	81806.785	831079.831
			N	81824.732	831058.416	S	81801.983	831081.298



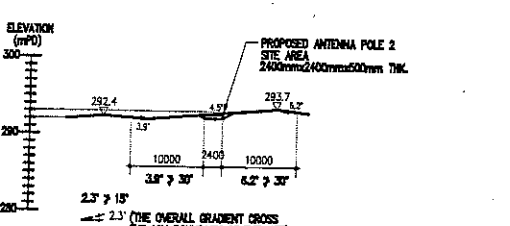
CUT-SECTION a-a SHOWING TYPICAL SITE FOUNDATION
SCALE: 1:500



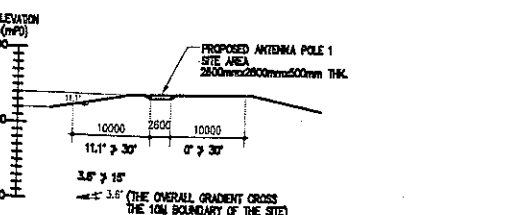
CUT-SECTION b-b SHOWING TYPICAL SITE FOUNDATION
SCALE: 1:500



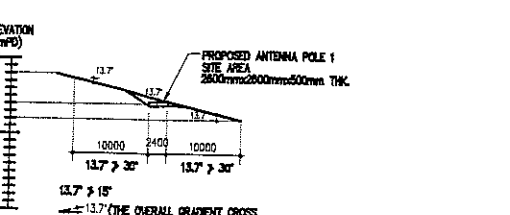
CUT-SECTION c-c SHOWING TYPICAL SITE FOUNDATION
SCALE: 1:500



CUT-SECTION d-d SHOWING TYPICAL SITE FOUNDATION
SCALE: 1:500



CUT-SECTION e-e SHOWING TYPICAL SITE FOUNDATION
SCALE: 1:500



CUT-SECTION f-f SHOWING TYPICAL SITE FOUNDATION
SCALE: 1:500

CONSULTANT :

測 繪 行

PRUDENTIAL SURVEYORS (INTL) LTD
TEL 25078333 FAX 25986576

AUTHORIZED PERSON & REGISTERED STRUCTURAL ENGINEER :

Dennis W.C. Wong
11th Floor, 188-190C, 188C, 188D, WING LOK BLDG., 188 Wing Lok Street, Kowloon, Hong Kong
Registered Structural Engineer

REGISTERED STRUCTURAL ENGINEER :

Lee Chi-Pui
11th Floor, 188-190C, 188C, 188D, WING LOK BLDG., 188 Wing Lok Street, Kowloon, Hong Kong
Registered Structural Engineer

PROJECT TITLE :

PROPOSED RADIO BASE STATION AT TAI TONG, YUEN LONG N.T.

DRAWING TITLE :

LAYOUT PLAN OF FOUNDATION FOR ANTENNAS & OUTDOOR EQUIPMENT

DATE	DRAWN	DESIGNED	CHECKED	SCALE
24/08/08	WS	LK	DW	AS SHOWN

JOB NO. : B2015

DRAWING NO. : TTCP-S1

FILING CODE : T: B2015\DET

STATUS : 1ST SUBMISSION

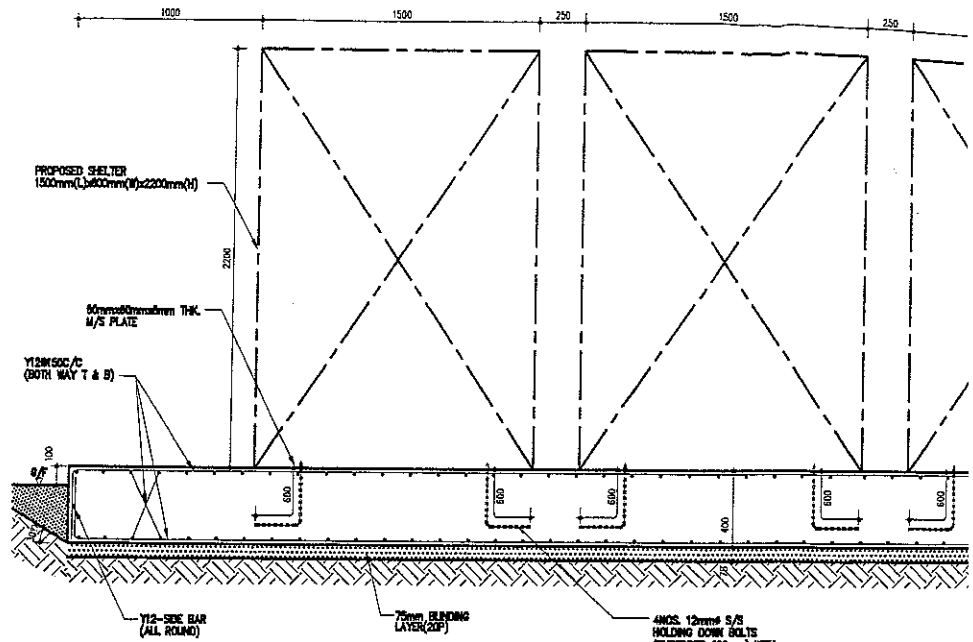
GENERAL NOTES:

STRUCTURAL WORKS

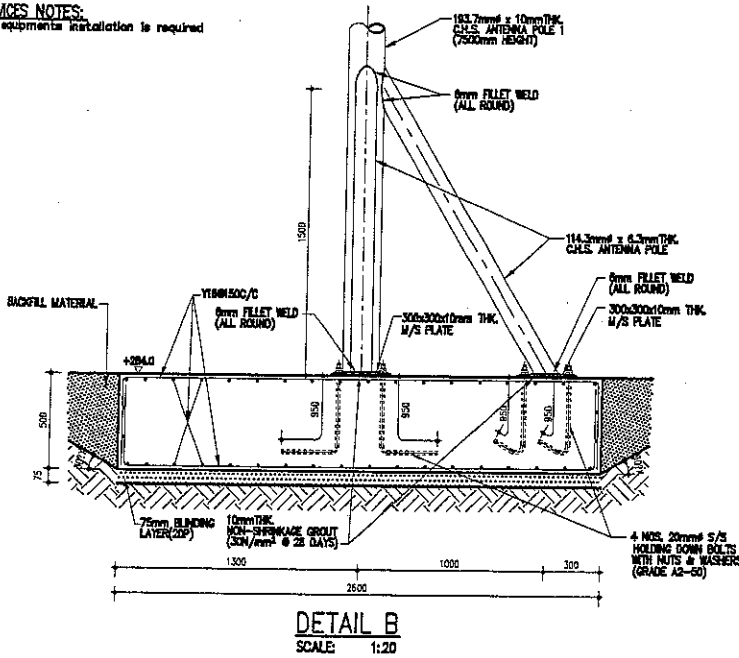
- The design of superstructure is in accordance with "Building (Construction) Regulation 1947", "The Structural Use of Steel 2005, Hong Kong" and "The Structural Use of Concrete 2004".
- The wind analysis to be in accordance with "Code of Practice on Wind Effects, Hong Kong -- 2007"
Basic wind pressure = 3.41 kPa (Below 300.00m)
Pressure factor = 2 (for antenna)
= 1.5 (for Pole)
= 1.05 (for outdoor equipment)
- All structural steel to be Grade S275 and complies with BS EN 10025:2004.
- Welding design to be complies with BS EN-1011 PART 1 & 2. All surfaces of site weld to be touch up with 2-coats of anti-corrosive cold galvanized primer.
- All welding shall be carried out by qualified welders having satisfactorily completed the appropriate welding tests specified in B.S. 4871 (1985) prior to the commencement of structural work.
- All structural steel bolts and nuts shall be grade A2-50 and complies with BS 6105.
- The structural steel shall be hot-dip galvanized conforming to BS EN 1461:1998 and coated with a layer of anti-corrosion paint.
- The fabrication, erection and welding of structural steel shall conform to the Hong Kong Building (Construction) Regulations 1980 and Code of Practice for Structural Use of Steel 1987.
- All weld shall be tested in accordance with B.S.3623 (1985).
- Certificates of origin and chemical composition of the structural steel to be used shall be submitted to the Engineer prior to the commencement of fabrication work.
- Adequate supervision shall be carried out by the Engineer during execution of the proposed work.
- Test reports on bolts and weldings shall be submitted to the EO office for record purpose.
- The Contractor shall appoint a professionally qualified and technical competent person to supervise the execution of works.
- All non-ethylene grout shall be complied with SAA MP20 part 3.
- Concrete grade to be 300/20 to CSI. Concrete cover to be 50mm.
- All reinforcement to be Grade 250/480 complies with CS2:1983.
- Soil bearing capacity = 50 kPa.

FIRE SERVICES NOTES:

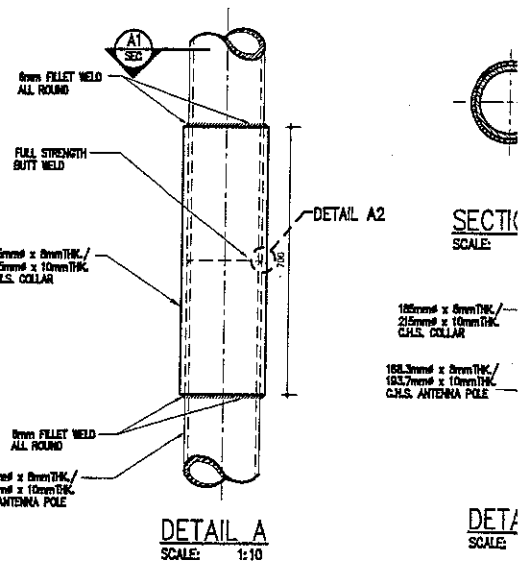
- No F.S. equipments installation is required



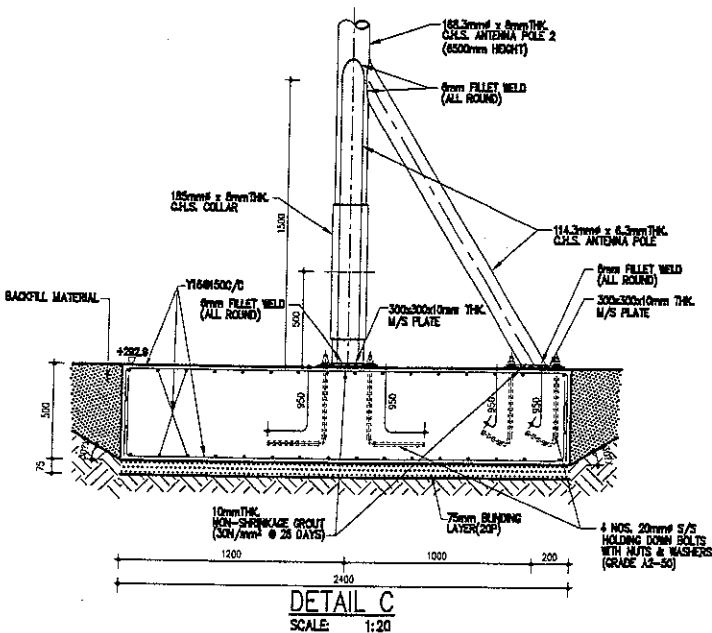
SECTION 1-1 OF CONC. PLATFORM FOR OUTDOOR EQUIPMENT
SCALE: 1:20



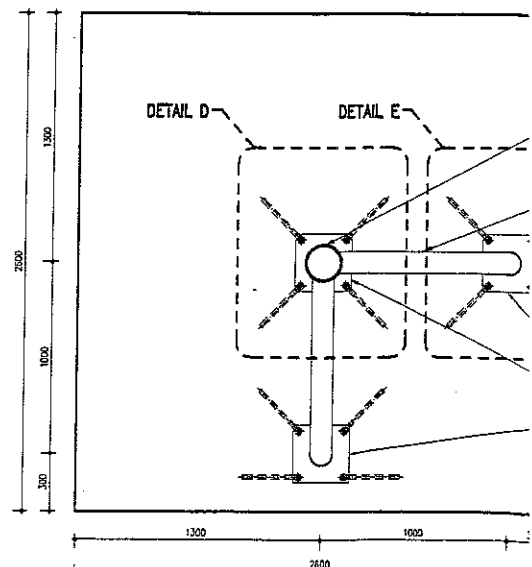
DETAIL B
SCALE: 1:20



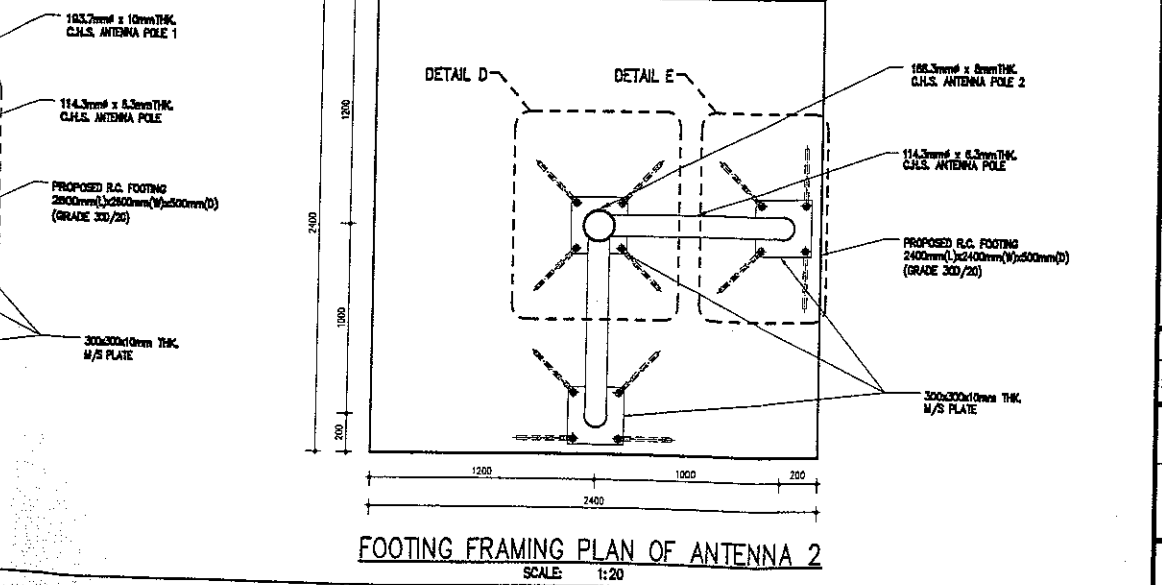
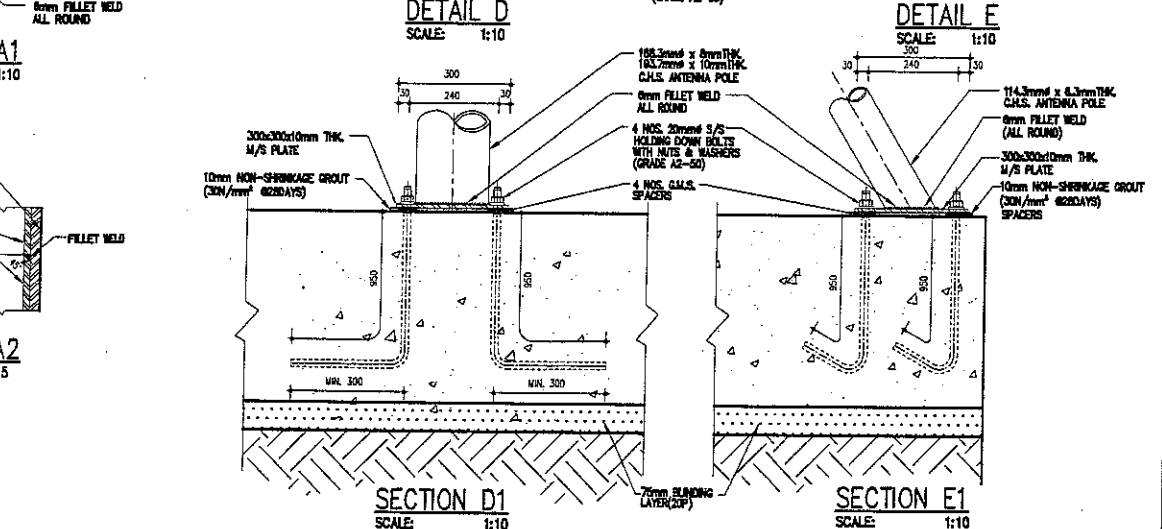
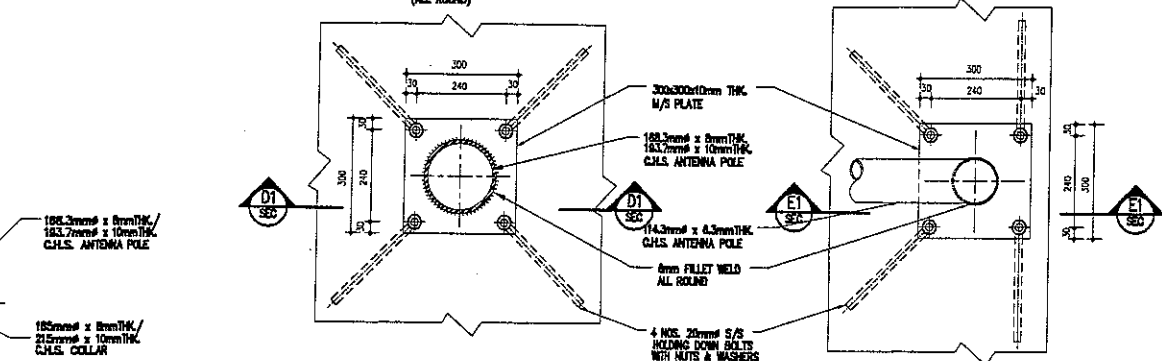
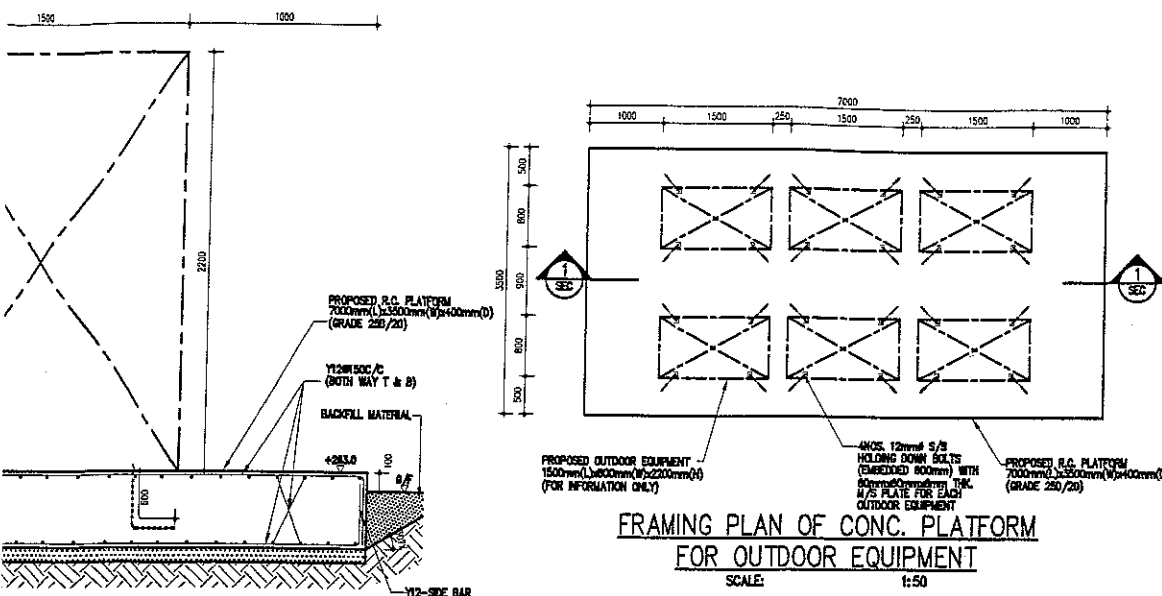
DETAIL A
SCALE: 1:10



DETAIL C
SCALE: 1:20




FOOTING FRAMING PLAN OF ANTENNA
SCALE: 1:20



B.D. REF :
F.S.D. REF :

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 2. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR.
 3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT SPECIFICATIONS, CONDITIONS OF CONTRACT AND ALL OTHER RELEVANT DRAWINGS. THE AUTHORIZED PERSON / REGISTERED STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
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REVISION	DESCRIPTION	DATE

CONSULTANT :

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TEL 25078333 FAX 25986576

AUTHORIZED PERSON & REGISTERED STRUCTURAL ENGINEER :

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Professional Person
Registered Structural Engineer

REGISTERED STRUCTURAL ENGINEER :

PROJECT TITLE :
PROPOSED RADIO BASE STATION AT TAI TONG, YUEN LONG N.T.

DRAWING TITLE :
GENERAL NOTES, ANTENNA & OUTDOOR EQUIPMENT MOUNTING DETAILS

DATE	DRAWN	DESIGNED	CHECKED	SCALE
24/08/08	WS	LK	DW	AS SHOWN
JOB NO. : B2015		DRAWING NO. :		
FILING CODE : T:\B2015\DET		TTCP-S2		
STATUS : 1ST SUBMISSION				

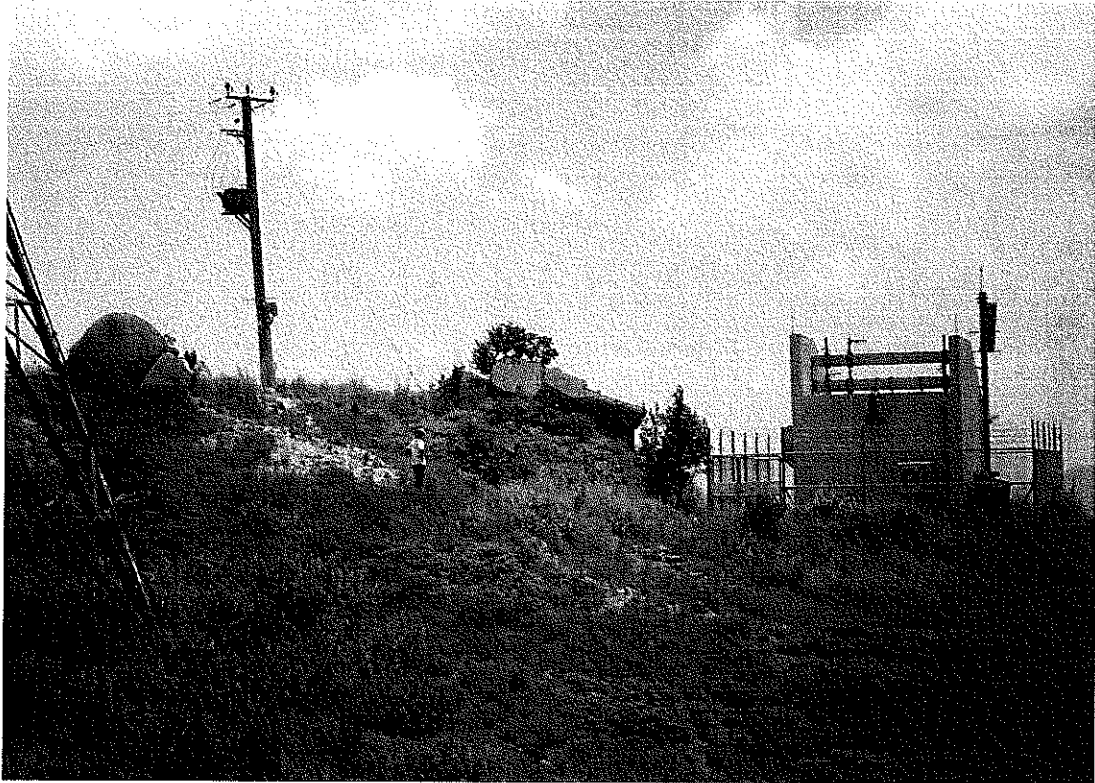


Photo 1: General view of the proposed area



Photo 2: General view of the proposed area

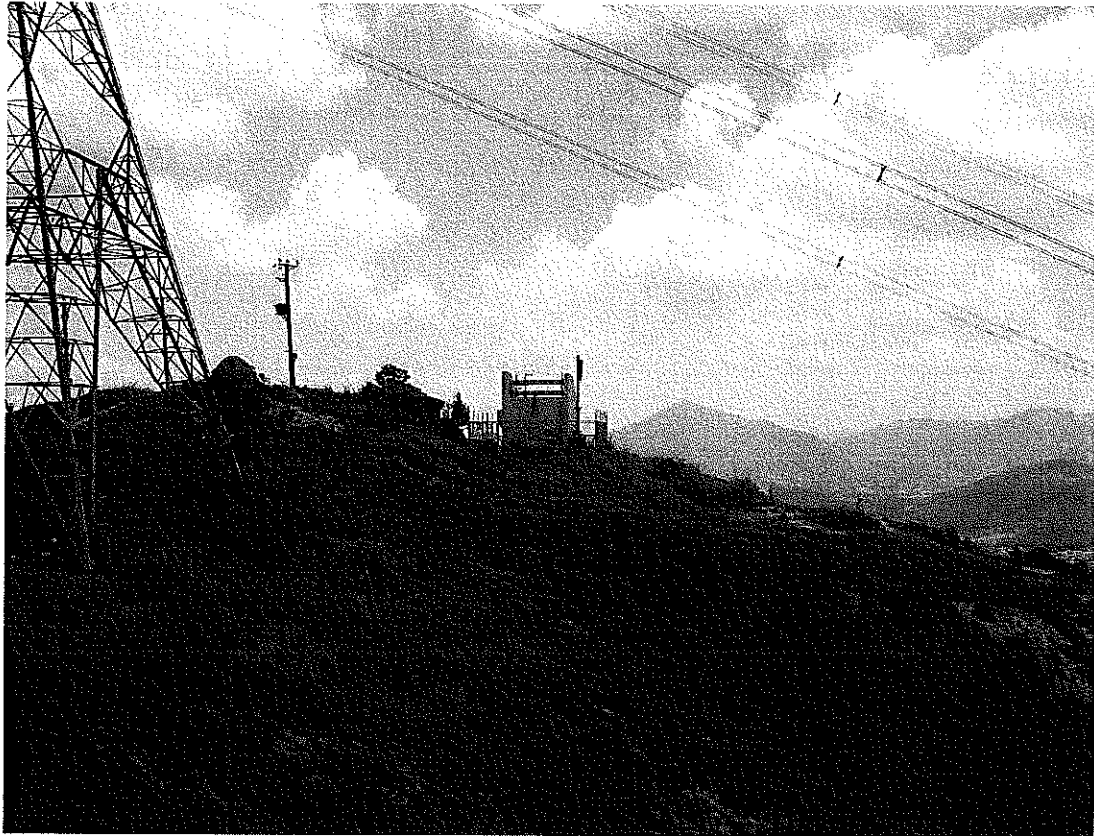


Photo 3: General view of the proposed area