

2023年 12月 1 9日

此文件在 收到・城市規劃委員會
只會在收到所有必要的資料及文件後才正式確認收到
申請的日期。

Appendix I of RNTPC
Paper No. A/YL-KTS/984

This document is received on 19 DEC 2023
The Town Planning Board will formally acknowledge
the date of receipt of the application only upon receipt
of all the required information and documents.

Form No. S16-III
表格第 S16-III 號

**APPLICATION FOR PERMISSION
UNDER SECTION 16 OF
THE TOWN PLANNING ORDINANCE
(CAP. 131)**

根據《城市規劃條例》(第131章)
第16條遞交的許可申請

**Applicable to Proposal Only Involving Temporary Use/Development of Land
and/or Building Not Exceeding 3 Years in Rural Areas or Regulated Areas,
or Renewal of Permission for such Temporary Use or Development***

**適用於祇涉及位於鄉郊地區或受規管地區土地上及/或建築物內進行
為期不超過三年的臨時用途/發展或該等臨時用途/發展的許可續期的建議***

**Form No. S16-I should be used for other Temporary Use/Development of Land and/or Building (e.g. temporary use/developments in the Urban Area) and Renewal of Permission for such Temporary Use or Development.*

**其他土地上及/或建築物內的臨時用途/發展 (例如位於市區內的臨時用途或發展) 及有關該等臨時用途/發展的許可續期，應使用表格第 S16-I 號。*

Applicant who would like to publish the notice of application in local newspapers to meet one of the Town Planning Board's requirements of taking reasonable steps to obtain consent of or give notification to the current land owner, please refer to the following link regarding publishing the notice in the designated newspapers:
https://www.tpb.gov.hk/en/plan_application/apply.html

申請人如欲在本地報章刊登申請通知，以採取城市規劃委員會就取得現行土地擁有人的同意或通知現行土地擁有人所指定的其中一項合理步驟，請瀏覽以下網址有關在指定的報章刊登通知：
https://www.tpb.gov.hk/te/plan_application/apply.html

General Note and Annotation for the Form

填寫表格的一般指引及註解

"Current land owner" means any person whose name is registered in the Land Registry as that of an owner of the land to which the application relates, as at 6 weeks before the application is made

「現行土地擁有人」指在提出申請前六星期，其姓名或名稱已在土地註冊處註冊為該申請所關乎的土地的擁有人的人

& Please attach documentary proof 請夾附證明文件

^ Please insert number where appropriate 請在適當地方註明編號

Please fill "NA" for inapplicable item 請在不適用的項目填寫「不適用」

Please use separate sheets if the space provided is insufficient 如所提供的空間不足，請另頁說明

Please insert a 「✓」 at the appropriate box 請在適當的方格內上加上「✓」號

2303232

15.12.2023 By Hand Form No. S16-III 表格第 S16-III 號 4

For Official Use Only 請勿填寫此欄	Application No. 申請編號	A/TL-KTS/984
	Date Received 收到日期	19 DEC 2023

- The completed form and supporting documents (if any) should be sent to the Secretary, Town Planning Board (the Board), 15/F, North Point Government Offices, 333 Java Road, North Point, Hong Kong.
申請人須把填妥的申請表格及其他支持申請的文件 (倘有), 送交香港北角渣華道 333 號北角政府合署 15 樓城市規劃委員會(下稱「委員會」)秘書收。
- Please read the "Guidance Notes" carefully before you fill in this form. The document can be downloaded from the Board's website at <http://www.tpb.gov.hk/>. It can also be obtained from the Secretariat of the Board at 15/F, North Point Government Offices, 333 Java Road, North Point, Hong Kong (Tel: 2231 4810 or 2231 4835), and the Planning Enquiry Counters of the Planning Department (Hotline: 2231 5000) (17/F, North Point Government Offices, 333 Java Road, North Point, Hong Kong and 14/F, Sha Tin Government Offices, 1 Sheung Wo Che Road, Sha Tin, New Territories).
請先細閱《申請須知》的資料單張, 然後填寫此表格。該份文件可從委員會的網頁下載 (網址: <http://www.tpb.gov.hk/>), 亦可向委員會秘書處 (香港北角渣華道 333 號北角政府合署 15 樓 - 電話: 2231 4810 或 2231 4835) 及規劃署的規劃資料查詢處 (熱線: 2231 5000) (香港北角渣華道 333 號北角政府合署 17 樓及新界沙田上禾輦路 1 號沙田政府合署 14 樓) 索取。
- This form can be downloaded from the Board's website, and obtained from the Secretariat of the Board and the Planning Enquiry Counters of the Planning Department. The form should be typed or completed in block letters. The processing of the application may be refused if the required information or the required copies are incomplete.
此表格可從委員會的網頁下載, 亦可向委員會秘書處及規劃署的規劃資料查詢處索取。申請人須以打印方式或以正楷填寫表格。如果申請人所提交的資料或文件副本不齊全, 委員會可拒絕處理有關申請。

1. Name of Applicant 申請人姓名/名稱

(☐ Mr. 先生 / ☐ Mrs. 夫人 / ☐ Miss 小姐 / ☐ Ms. 女士 / ☒ Company 公司 / ☐ Organisation 機構)

Hang Tone Drainage Engineering Ltd. 恒通渠務工程有限公司

2. Name of Authorised Agent (if applicable) 獲授權代理人姓名/名稱 (如適用)

(☐ Mr. 先生 / ☐ Mrs. 夫人 / ☐ Miss 小姐 / ☐ Ms. 女士 / ☒ Company 公司 / ☐ Organisation 機構)

Top Bright Consultants Limited

3. Application Site 申請地點

(a) Full address / location / demarcation district and lot number (if applicable) 詳細地址/地點/丈量約份及地段號碼 (如適用)	Lot 455RP(Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
(b) Site area and/or gross floor area involved 涉及的地盤面積及/或總樓面面積	☒ Site area 地盤面積 1,650 sq.m 平方米 ☐ About 約 ☒ Gross floor area 總樓面面積 878 sq.m 平方米 ☐ About 約
(c) Area of Government land included (if any) 所包括的政府土地面積 (倘有)	Nil sq.m 平方米 ☐ About 約

(d) Name and number of the related statutory plan(s) 有關法定圖則的名稱及編號	Approved Kam Tin South Outline Zoning Plan No. S/YL-KTS/15
(e) Land use zone(s) involved 涉及的土地用途地帶	"Other Specified Uses" annotated "Rural Use" ("OU(RU)")
(f) Current use(s) 現時用途	Temporary Site Office and Service Depot for Drainage and Sewerage Works (If there are any Government, institution or community facilities, please illustrate on plan and specify the use and gross floor area) (如有任何政府、機構或社區設施，請在圖則上顯示，並註明用途及總樓面面積)

4. "Current Land Owner" of Application Site 申請地點的「現行土地擁有人」

The applicant 申請人 -

- ☐ is the sole "current land owner" (please proceed to Part 6 and attach documentary proof of ownership).
是唯一的「現行土地擁有人」 (請繼續填寫第 6 部分，並夾附業權證明文件)。
- ☐ is one of the "current land owners" (please attach documentary proof of ownership).
是其中一名「現行土地擁有人」 (請夾附業權證明文件)。
- ☒ is not a "current land owner".
並不是「現行土地擁有人」。
- ☐ The application site is entirely on Government land (please proceed to Part 6).
申請地點完全位於政府土地上 (請繼續填寫第 6 部分)。

5. Statement on Owner's Consent/Notification

就土地擁有人的同意/通知土地擁有人的陳述

- (a) According to the record(s) of the Land Registry as at (DD/MM/YYYY), this application involves a total of "current land owner(s)".
根據土地註冊處截至 年 月 日的記錄，這宗申請共牽涉 名「現行土地擁有人」。

(b) The applicant 申請人 -

- ☐ has obtained consent(s) of "current land owner(s)".
已取得 名「現行土地擁有人」的同意。

Details of consent of "current land owner(s)" obtained 取得「現行土地擁有人」同意的詳情		
No. of 'Current Land Owner(s)' 「現行土地擁有人」數目	Lot number/address of premises as shown in the record of the Land Registry where consent(s) has/have been obtained 根據土地註冊處記錄已獲得同意的地段號碼/處所地址	Date of consent obtained (DD/MM/YYYY) 取得同意的日期 (日/月/年)

(Please use separate sheets if the space of any box above is insufficient. 如上列任何方格的空間不足，請另頁說明)

- ☐ has notified "current land owner(s)"[#]
已通知 名「現行土地擁有人」[#]。

Details of the "current land owner(s)" [#] notified 已獲通知「現行土地擁有人」 [#] 的詳細資料		
No. of 'Current Land Owner(s)' 「現行土地擁有人」數目	Lot number/address of premises as shown in the record of the Land Registry where notification(s) has/have been given 根據土地註冊處記錄已發出通知的地段號碼／處所地址	Date of notification given (DD/MM/YYYY) 通知日期(日/月/年)

(Please use separate sheets if the space of any box above is insufficient. 如上列任何方格的空間不足，請另頁說明)

- ☒ has taken reasonable steps to obtain consent of or give notification to owner(s):
已採取合理步驟以取得土地擁有人的同意或向該人發給通知。詳情如下：

Reasonable Steps to Obtain Consent of Owner(s) 取得土地擁有人的同意所採取的合理步驟

- ☐ sent request for consent to the "current land owner(s)" on _____ (DD/MM/YYYY)^{#*}
於 _____ (日/月/年)向每一名「現行土地擁有人」[#]遞送要求同意書^{*}

Reasonable Steps to Give Notification to Owner(s) 向土地擁有人發出通知所採取的合理步驟

- ☐ published notices in local newspapers on _____ (DD/MM/YYYY)^{*}
於 _____ (日/月/年)在指定報章就申請刊登一次通知^{*}
- ☒ posted notice in a prominent position on or near application site/premises on
28/11/2023 (DD/MM/YYYY)^{*}
於 _____ (日/月/年)在申請地點／申請處所或附近的顯明位置貼出關於該申請的通知^{*}
- ☒ sent notice to relevant owners' corporation(s)/owners' committee(s)/mutual aid committee(s)/management office(s) or rural committee on 29/11/2023 (DD/MM/YYYY)^{*}
於 _____ (日/月/年)把通知寄往相關的業主立案法團/業主委員會/互助委員會或管理處，或有關的鄉事委員會^{*}

Others 其他

- ☐ others (please specify)
其他（請指明）

Note: May insert more than one 「✓」.

Information should be provided on the basis of each and every lot (if applicable) and premises (if any) in respect of the application.

註: 可在多於一個方格內加上「✓」號

申請人須就申請涉及的每一地段（倘適用）及處所（倘有）分別提供資料

6. Type(s) of Application 申請類別	
(A) Temporary Use/Development of Land and/or Building Not Exceeding 3 Years in Rural Areas or Regulated Areas 位於鄉郊地區或受規管地區土地上及/或建築物內進行為期不超過三年的臨時用途/發展 (For Renewal of Permission for Temporary Use or Development in Rural Areas or Regulated Areas, please proceed to Part (B)) (如屬位於鄉郊地區或受規管地區臨時用途/發展的規劃許可續期，請填寫(B)部分)	
(a) Proposed use(s)/development 擬議用途/發展	(Please illustrate the details of the proposal on a layout plan) (請用平面圖說明擬議詳情)
(b) Effective period of permission applied for 申請的許可有效期	☐ year(s) 年 ☐ month(s) 個月
(c) Development Schedule 發展細節表	
Proposed uncovered land area 擬議露天土地面積	sq.m ☐ About 約
Proposed covered land area 擬議有上蓋土地面積	sq.m ☐ About 約
Proposed number of buildings/structures 擬議建築物/構築物數目	.....
Proposed domestic floor area 擬議住用樓面面積	sq.m ☐ About 約
Proposed non-domestic floor area 擬議非住用樓面面積	sq.m ☐ About 約
Proposed gross floor area 擬議總樓面面積	sq.m ☐ About 約
Proposed height and use(s) of different floors of buildings/structures (if applicable) 建築物/構築物的擬議高度及不同樓層的擬議用途 (如適用) (Please use separate sheets if the space below is insufficient) (如以下空間不足，請另頁說明)	
.....	
Proposed number of car parking spaces by types 不同種類停車位的擬議數目	
Private Car Parking Spaces 私家車車位	.....
Motorcycle Parking Spaces 電單車車位	.....
Light Goods Vehicle Parking Spaces 輕型貨車泊車位	.....
Medium Goods Vehicle Parking Spaces 中型貨車泊車位	.....
Heavy Goods Vehicle Parking Spaces 重型貨車泊車位	.....
Others (Please Specify) 其他 (請列明)	.....
Proposed number of loading/unloading spaces 上落客貨車位的擬議數目	
Taxi Spaces 的士車位	.....
Coach Spaces 旅遊巴車位	.....
Light Goods Vehicle Spaces 輕型貨車車位	.....
Medium Goods Vehicle Spaces 中型貨車車位	.....
Heavy Goods Vehicle Spaces 重型貨車車位	.....
Others (Please Specify) 其他 (請列明)	.....

Proposed operating hours 擬議營運時間			
.....			
.....			
(d) Any vehicular access to the site/subject building? 是否有車路通往地盤/ 有關建築物?	Yes 是	☐ There is an existing access. (please indicate the street name, where appropriate) 有一條現有車路。(請註明車路名稱(如適用))	
	No 否	☐ There is a proposed access. (please illustrate on plan and specify the width) 有一條擬議車路。(請在圖則顯示, 並註明車路的闊度) ☐	
(e) Impacts of Development Proposal 擬議發展計劃的影響 (If necessary, please use separate sheets to indicate the proposed measures to minimise possible adverse impacts or give justifications/reasons for not providing such measures. 如需要的話, 請另頁註明可盡量減少可能出現不良影響的措施, 否則請提供理據/理由。)			
(i) Does the development proposal involve alteration of existing building? 擬議發展計劃是否包括現有建築物的改動?	Yes 是	☐ Please provide details 請提供詳情	
	No 否	☐	
(ii) Does the development proposal involve the operation on the right? 擬議發展是否涉及右列的工程?	Yes 是	☐ (Please indicate on site plan the boundary of concerned land/pond(s), and particulars of stream diversion, the extent of filling of land/pond(s) and/or excavation of land) (請用地盤平面圖顯示有關土地/池塘界線, 以及河道改道、填塘、填土及/或挖土的細節及/或範圍) ☐ Diversion of stream 河道改道 ☐ Filling of pond 填塘 Area of filling 填塘面積 sq.m 平方米 ☐ About 約 Depth of filling 填塘深度 m 米 ☐ About 約 ☐ Filling of land 填土 Area of filling 填土面積 sq.m 平方米 ☐ About 約 Depth of filling 填土厚度 m 米 ☐ About 約 ☐ Excavation of land 挖土 Area of excavation 挖土面積 sq.m 平方米 ☐ About 約 Depth of excavation 挖土深度 m 米 ☐ About 約	
	No 否	☐	
(iii) Would the development proposal cause any adverse impacts? 擬議發展計劃會否造成不良影響?	On environment 對環境 Yes 會 ☐ No 不會 ☐ On traffic 對交通 Yes 會 ☐ No 不會 ☐ On water supply 對供水 Yes 會 ☐ No 不會 ☐ On drainage 對排水 Yes 會 ☐ No 不會 ☐ On slopes 對斜坡 Yes 會 ☐ No 不會 ☐ Affected by slopes 受斜坡影響 Yes 會 ☐ No 不會 ☐ Landscape Impact 構成景觀影響 Yes 會 ☐ No 不會 ☐ Tree Felling 砍伐樹木 Yes 會 ☐ No 不會 ☐ Visual Impact 構成視覺影響 Yes 會 ☐ No 不會 ☐ Others (Please Specify) 其他 (請列明) Yes 會 ☐ No 不會 ☐		

	Please state measure(s) to minimise the impact(s). For tree felling, please state the number, diameter at breast height and species of the affected trees (if possible) 請註明盡量減少影響的措施。如涉及砍伐樹木，請說明受影響樹木的數目、及胸高度的樹幹直徑及品種(倘可)
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(B) Renewal of Permission for Temporary Use or Development in Rural Areas or Regulated Areas 位於鄉郊地區或受規管地區臨時用途/發展的許可續期	
(a) Application number to which the permission relates 與許可有關的申請編號	A/ <u>YL-KTS</u> / <u>875</u>
(b) Date of approval 獲批給許可的日期	<u>26.2.2021</u> (DD 日/MM 月/YYYY 年)
(c) Date of expiry 許可屆滿日期	<u>26.2.2024</u> (DD 日/MM 月/YYYY 年)
(d) Approved use/development 已批給許可的用途/發展	Temporary Site Office and Service Depot for Drainage and Sewerage Works
(e) Approval conditions 附帶條件	☐ The permission does not have any approval condition 許可並沒有任何附帶條件 ☒ Applicant has complied with all the approval conditions 申請人已履行全部附帶條件 ☐ Applicant has not yet complied with the following approval condition(s): 申請人仍未履行下列附帶條件： Reason(s) for non-compliance: 仍未履行的原因： (Please use separate sheets if the space above is insufficient) (如以上空間不足，請另頁說明)
(f) Renewal period sought 要求的續期期間	☒ year(s) 年 <u>3</u> ☐ month(s) 個月

7. Justifications 理由

The applicant is invited to provide justifications in support of the application. Use separate sheets if necessary.
現請申請人提供申請理由及支持其申請的資料。如有需要，請另頁說明。

Please refer to Chapter 6 of the Supplementary Planning Statement

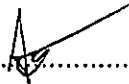
8. Declaration 聲明

I hereby declare that the particulars given in this application are correct and true to the best of my knowledge and belief.
本人謹此聲明，本人就這宗申請提交的資料，據本人所知及所信，均屬真實無誤。

I hereby grant a permission to the Board to copy all the materials submitted in this application and/or to upload such materials to the Board's website for browsing and downloading by the public free-of-charge at the Board's discretion.

本人現准許委員會酌情將本人就此申請所提交的所有資料複製及/或上載至委員會網站，供公眾免費瀏覽或下載。

Signature
簽署


.....
Adam Chow

☐ Applicant 申請人 / ☒ Authorised Agent 獲授權代理人

Assistant Town Planner

Name in Block Letters
姓名（請以正楷填寫）

Position (if applicable)
職位（如適用）

Professional Qualification(s)
專業資格

☐ Member 會員 / ☐ Fellow of 資深會員

☐ HKIP 香港規劃師學會 / ☐ HKIA 香港建築師學會 /

☐ HKIS 香港測量師學會 / ☐ HKIE 香港工程師學會 /

☐ HKILA 香港園境師學會 / ☐ HKIUD 香港城市設計學會

☐ RPP 註冊專業規劃師

Others 其他

on behalf of
代表

Top Bright Consultants Limited



☒ Company 公司 / ☐ Organisation Name and Chop (if applicable) 機構名稱及蓋章（如適用）

Date 日期

14/12/2023

(DD/MM/YYYY 日/月/年)

Remark 備註

The materials submitted in this application and the Board's decision on the application would be disclosed to the public. Such materials would also be uploaded to the Board's website for browsing and free downloading by the public where the Board considers appropriate.

委員會會向公眾披露申請人所遞交的申請資料和委員會對申請所作的決定。在委員會認為合適的情況下，有關申請資料亦會上載至委員會網頁供公眾免費瀏覽及下載。

Warning 警告

Any person who knowingly or wilfully makes any statement or furnish any information in connection with this application, which is false in any material particular, shall be liable to an offence under the Crimes Ordinance.

任何人在明知或故意的情況下，就這宗申請提出在任何要項上是虛假的陳述或資料，即屬違反《刑事罪行條例》。

Statement on Personal Data 個人資料的聲明

1. The personal data submitted to the Board in this application will be used by the Secretary of the Board and Government departments for the following purposes:

委員會就這宗申請所收到的個人資料會交給委員會秘書及政府部門，以根據《城市規劃條例》及相關的城市規劃委員會規劃指引的規定作以下用途：

- (a) the processing of this application which includes making available the name of the applicant for public inspection when making available this application for public inspection; and
處理這宗申請，包括公布這宗申請供公眾查閱，同時公布申請人的姓名供公眾查閱；以及
(b) facilitating communication between the applicant and the Secretary of the Board/Government departments.
方便申請人與委員會秘書及政府部門之間進行聯絡。

2. The personal data provided by the applicant in this application may also be disclosed to other persons for the purposes mentioned in paragraph 1 above.

申請人就這宗申請提供的個人資料，或亦會向其他人士披露，以作上述第 1 段提及的用途。

3. An applicant has a right of access and correction with respect to his/her personal data as provided under the Personal Data (Privacy) Ordinance (Cap. 486). Request for personal data access and correction should be addressed to the Secretary of the Board at 15/F, North Point Government Offices, 333 Java Road, North Point, Hong Kong.

根據《個人資料(私隱)條例》(第 486 章)的規定，申請人有權查閱及更正其個人資料。如欲查閱及更正個人資料，應向委員會秘書提出有關要求，其地址為香港北角渣華道 333 號北角政府合署 15 樓。

Gist of Application 申請摘要

(Please provide details in both English and Chinese as far as possible. This part will be circulated to relevant consultees, uploaded to the Town Planning Board's Website for browsing and free downloading by the public and available at the Planning Enquiry Counters of the Planning Department for general information.)

(請盡量以英文及中文填寫。此部分將會發送予相關諮詢人士，上載至城市規劃委員會網頁供公眾免費瀏覽及下載及於規劃署規劃資料查詢處供一般參閱。)

Application No. 申請編號	(For Official Use Only) (請勿填寫此欄)
Location/address 位置/地址	Lot 455RP(Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
Site area 地盤面積	1,650 sq. m 平方米 ☒ About 約 (includes Government land of 包括政府土地 Nil sq. m 平方米 ☐ About 約)
Plan 圖則	Approved Kam Tin South Outline Zoning Plan No. S/YL-KTS/15
Zoning 地帶	"Other Specified Uses" annotated "Rural Use" ("OU(RU)")
Type of Application 申請類別	☐ Temporary Use/Development in Rural Areas or Regulated Areas for a Period of 位於鄉郊地區或受規管地區的臨時用途/發展為期 ☐ Year(s) 年 _____ ☐ Month(s) 月 _____ ☒ Renewal of Planning Approval for Temporary Use/Development in Rural Areas or Regulated Areas for a Period of 位於鄉郊地區或受規管地區臨時用途/發展的規劃許可續期為期 ☒ Year(s) 年 <u>3</u> ☐ Month(s) 月 _____
Applied use/ development 申請用途/發展	Temporary Site Office and Service Depot for Drainage and Sewerage Works for a Period of 3 Years

(i) Gross floor area and/or plot ratio 總樓面面積及／或地積比率		sq.m 平方米	Plot Ratio 地積比率
	Domestic 住用	Nil ☐ About 約 ☐ Not more than 不多於	Nil ☐ About 約 ☐ Not more than 不多於
	Non-domestic 非住用	878 ☒ About 約 ☐ Not more than 不多於	0.53 ☒ About 約 ☐ Not more than 不多於
(ii) No. of blocks 幢數	Domestic 住用	Nil	
	Non-domestic 非住用	15	
(iii) Building height/No. of storeys 建築物高度／層數	Domestic 住用	Nil	☐ m 米 (Not more than 不多於)
		Nil	☐ Storeys(s) 層 (Not more than 不多於)
	Non-domestic 非住用	2-6	☐ m 米 (Not more than 不多於)
		1 - 2	☐ Storeys(s) 層 (Not more than 不多於)
(iv) Site coverage 上蓋面積	40 % ☒ About 約		
(v) No. of parking spaces and loading / unloading spaces 停車位及上落客貨車位數目	Total no. of vehicle parking spaces 停車位總數		9
	Private Car Parking Spaces 私家車車位 Motorcycle Parking Spaces 電單車車位 Light Goods Vehicle Parking Spaces 輕型貨車泊車位 Medium Goods Vehicle Parking Spaces 中型貨車泊車位 Heavy Goods Vehicle Parking Spaces 重型貨車泊車位 Others (Please Specify) 其他 (請列明)		7 Nil 1 1 Nil Nil
	Total no. of vehicle loading/unloading bays/lay-bys 上落客貨車位／停車處總數		
	Taxi Spaces 的士車位 Coach Spaces 旅遊巴車位 Light Goods Vehicle Spaces 輕型貨車車位 Medium Goods Vehicle Spaces 中型貨車車位 Heavy Goods Vehicle Spaces 重型貨車車位 Others (Please Specify) 其他 (請列明)		Nil Nil Nil Nil Nil Nil

Submitted Plans, Drawings and Documents 提交的圖則、繪圖及文件		
	Chinese 中文	English 英文
Plans and Drawings 圖則及繪圖		
Master layout plan(s)/Layout plan(s) 總綱發展藍圖／布局設計圖	☐	☒
Block plan(s) 樓宇位置圖	☐	☐
Floor plan(s) 樓宇平面圖	☐	☐
Sectional plan(s) 截視圖	☐	☐
Elevation(s) 立視圖	☐	☐
Photomontage(s) showing the proposed development 顯示擬議發展的合成照片	☐	☐
Master landscape plan(s)/Landscape plan(s) 園境設計總圖／園境設計圖	☐	☐
Others (please specify) 其他 (請註明)	☐	☒
Location Plan, Site Plan, Plan Showing General Area, Extract from Kam Tin South Outline Zoning Plan No. S/YL-KTS/15		
Reports 報告書		
Planning Statement/Justifications 規劃綱領/理據	☐	☒
Environmental assessment (noise, air and/or water pollutions) 環境評估 (噪音、空氣及／或水的污染)	☐	☐
Traffic impact assessment (on vehicles) 就車輛的交通影響評估	☐	☐
Traffic impact assessment (on pedestrians) 就行人的交通影響評估	☐	☐
Visual impact assessment 視覺影響評估	☐	☐
Landscape impact assessment 景觀影響評估	☐	☐
Tree Survey 樹木調查	☐	☐
Geotechnical impact assessment 土力影響評估	☐	☐
Drainage impact assessment 排水影響評估	☐	☐
Sewerage impact assessment 排污影響評估	☐	☐
Risk Assessment 風險評估	☐	☐
Others (please specify) 其他 (請註明)	☐	☐
Note: May insert more than one '✓', 註：可在多於一個方格內加上「✓」號		

Note: The information in the Gist of Application above is provided by the applicant for easy reference of the general public. Under no circumstances will the Town Planning Board accept any liabilities for the use of the information nor any inaccuracies or discrepancies of the information provided. In case of doubt, reference should always be made to the submission of the applicant.

註：上述申請摘要的資料是由申請人提供以方便市民大眾參考。對於所載資料在使用上的問題及文義上的歧異，城市規劃委員會概不負責。若有任何疑問，應查閱申請人提交的文件。

**Application for Permission under Section 16 of
the Town Planning Ordinance (Cap. 131)**

**Temporary Site Office and Service Depot for Drainage
and Sewerage Works for a Period of Three Years in
“Other Specified Uses” annotated “Rural Use”
 (“OU(RU)”) Zone at Lot 455RP(Part) in DD106,
Kam Sheung Road, Kam Tin, Yuen Long, N.T.**

SUPPLEMENTARY PLANNING STATEMENT

Applicant:
Hang Tone Drainage
Engineering Ltd.

Planning Consultant:
 Top Bright Consultants Ltd.

December, 2023

Executive Summary

This planning application is prepared by Top Bright Consultants Ltd. on behalf of the Applicant to the Town Planning Board (the "Board") to seek planning permission for Temporary Site Office and Service Depot for Drainage and Sewerage Works (the "Proposed Development") for a period of 3 years at Lot 455RP(Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories (the "Application Site").

The Application Site falls within "Other Specified Uses" annotated "Rural Use" ("OU(RU)") zone on the Approved Kam Tin South Outline Zoning Plan (OZP) No. S/YL-KTS/15 gazetted on 21.12.2018. The Proposed Development is not a use listed under Column 1 or 2 of the "OU(RU)" zone. Temporary use or development of any land or building not exceeding a period of three years requires planning permission from the Board.

The Application Site, covers an area of approximately 1,650 square metres, is currently being used as a site office and service depot for drainage and sewerage works. It is the subject of two previous applications of which were approved for the same use since 2018. The last application (No. A/YL-KTS/875) was approved by the Board on 26.2.2021 for a period of 3 years. As the application will expire on 26.2.2024, the Applicant seeks renewal of the application for a further period of 3 years. All approval conditions of the last application were complied with, and the planning circumstances remain unchanged.

The Application Site is bisected into the northern and southern portions by a local track. The northern portion of the Application Site comprises of a 2-storey (6 metres high) temporary structure with upper floor for using as site office and the ground floor for carport for staff, pantry and washroom. A canopy for staff parking and fire service pump room and water tank are located at the western boundary. The southern portion comprises a canopy area (5 metres to 5.5 metres high) covering 6 one to two-storey container-converted structures for site office and ancillary storage of equipment and tools. A meter room is provided at the southeast corner. The total floor area of the structures is about 878 square metres. The Application Site also provides a total of 7 parking spaces for staff (private vehicles), 1 parking space for medium goods vehicle (MGV) and 1 parking space for light goods vehicle (LGV). Sufficient spaces are reserved within the Application Site for manoeuvring of vehicles.

The justifications of this application are: facilitate the essential public works in the New Territories; not contravening the long-term planning intention of "OU(RU)" zone; site with previous planning approvals; compliance with previous approval conditions; compatible with surrounding land uses; no adverse environmental, visual, traffic, and drainage impacts; and ideal locational choice of the Application Site. The Applicant therefore seeks the Board's permission to use the Application Site for the Proposed Development for a further period of three years.

行政摘要

這宗規劃申請是向城市規劃委員會(“城規會”)呈交，擬議在新界元朗錦田錦上路丈量約份第 106 約地段第 455 號餘段(部份) (“申請地點”)，用作臨時渠務及排污工程地盤辦公室及服務倉庫 (“擬議發展”)，為期三年。

申請地點座落於錦田南分區計劃大綱核准圖編號 S/YL-KTS/15 中的“其他指定用途(鄉郊用途)”地帶。擬議發展並不屬於“其他指定用途(鄉郊用途)”地帶的第一欄或第二欄用途。任何土地的臨時用途或發展，如為期不超過三年，須向城規會申請規劃許可。

申請地點的面積約為 1,650 平方米，現時用作渠務及排污工程地盤辦公室及服務倉庫。申請地點曾獲城規會批給兩次規劃許可用作臨時渠務及排污工程地盤辦公室及服務倉庫。最近一次申請(申請編號：A/YL-KTS/875)於 2021 年 2 月 26 日獲城規會批准用作相同用途，為期三年至 2024 年 2 月 26 日，全部規劃許可附帶條件已履行。鑑於申請期限快將屆滿，申請人現向城規會提出續期申請，為期三年。與上次申請比較，所有規劃參數維持不變。

申請地點由一條道路分隔為北面及南面部份，北面部份設置 2 層(6 米高)臨時構築物，上層為地盤辦公室，下層為職員車庫、茶水間及洗手間，西面邊界設有上蓋供職員泊車以及消防泵房及水缸。申請地點南面部份設有上蓋(5-5.5 米高)覆蓋 6 個一至兩層高改裝貨櫃構築物用作地盤辦公室及附設貯存小型器材及工具，東南角有電錶房。構築物的總樓面面積約 878 平方米。申請地點共提供 7 個職員私家車停車位、1 個中型貨車位及 1 個輕型貨車位，申請內亦提供足夠空間供車輛移動。

這宗規劃申請的理由為：促進新界地區必須的工務工程項目；不會違背“其他指定用途(鄉郊用途)”地帶的長遠規劃意向；申請地點之前獲同樣用途的規劃許可；已全部履行規劃許可附帶條件；與附近土地用途協調；不會對附近環境、視覺、交通、排水構成不良影響；及申請地點為理想的位置選擇。申請人希望城規會再批准為期三年的臨時渠務及排污工程地盤辦公室及服務倉庫用途申請。

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SUMMARY OF APPLICATION

Applicant:	Hang Tone Drainage Engineering Ltd.
Applied Use:	Temporary Site Office and Service Depot for Drainage and Sewerage Works for a Period of 3 Years
Existing Use:	Same as the applied use
Location:	Lot 455RP(Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
Site Area:	1,650 square metres
Lease:	Block Government Lease demised as agricultural land
Statutory Plan:	Approved Kam Tin South Outline Zoning Plan No. S/YL-KTS/15 gazetted on 21.12.2018
Zoning:	"Other Specified Uses" annotated "Rural Use" ("OU(RU)")
Town Planning Board Guidelines:	TPB Guidelines for "Renewal of Planning Approval and Extension of Time for Compliance with Planning Conditions for Temporary Use or Development" – (TPB – PG No. 34D)
Previous Application:	A/YL-KTS/875 – approved by the Board on 26.2.2021 A/YL-KTS/754 – approved by the Board on 26.1.2018

1. INTRODUCTION

- 1.01 This planning statement is prepared by Top Bright Consultants Ltd. on behalf of Hang Tone Drainage Engineering Ltd. (the "**Applicant**") to the Town Planning Board (the "**Board**") to seek planning permission for Temporary Site Office and Service Depot for Drainage and Sewerage Works (the "**Proposed Development**") for a period of 3 years at Lot 455RP(Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories (the "**Application Site**").
- 1.02 Hang Tonè Drainage Engineering Ltd. was established in 2007 as a specialist contractor who offers all aspects of drainage and sewerage works for public works and private sectors. At present, the Applicant has about 20 contracted projects in corporation with various Government departments including Drainage Services Department (DSD), Highways Department (HyD), Agriculture, Fisheries and Conservation Department (AFCD), and private sectors to conduct rehabilitation works for different drainage and sewerage infrastructure in Hong Kong. The services provided by the Applicant include pipe and manhole rehabilitation, CCTV drains and sewers survey, manhole inspection, high pressure water jetting, underground utility survey and flow survey, etc.
- 1.03 The Application Site, covers an area of approximately 1,650 square metres, is currently being used as a site office and service depot for drainage and sewerage works. It is the subject of two previous applications of which were approved for the same use since 2018. The last application (No. A/YL-KTS/875) was approved by the Board on 26.2.2021 for a period of 3 years. As the application will expire on 26.2.2024, the Applicant seeks renewal of the application for a further period of 3 years. All approval conditions of the last application were complied with, and the planning circumstances remain unchanged.
- 1.04 The Application Site falls within "Other Specified Uses" annotated "Rural Use" ("OU(RU)") zone on the Approved Kam Tin South Outline Zoning Plan (OZP) No. S/YL-KTS/15 gazetted on 21.12.2018. The Proposed Development is not a use listed under Column 1 or 2 of the "OU(RU)" zone. Temporary use or development of any land or building not exceeding a period of three years requires planning permission from the Board.
- 1.05 The following sections are intended to facilitate the Board's decision, and will briefly describe the Application Site and its surroundings, give details of the Proposed Development and provide justifications in support of the application.

2. SITE CONTEXT

Location

- 2.01 The Application Site abuts Kam Sheung Road, Kam Tin, Yuen Long and about 700 meters to the southeast of the Kam Sheung Road MTR Station. **Figure 1** shows the Application Site in its regional context.

Existing Site Conditions

- 2.02 The Application Site covers an area of 1,650 square meters and is bisected into the northern and southern portions by a local track. It is currently being occupied as a site office and service depot. Canopies and converted containers used as site offices and storerooms and parking spaces are found at the Application Site. The surface of the Application Site has been hard paved and fenced off by 2.5 to 3m high corrugated metal sheets.

Surrounding Land Uses

- 2.03 The Application Site is located in an area of rural character and mixed with open storage yards, warehouses, workshops, transitional housing, vacant land. To the immediate east of the Application Site is Kam Sheung Road. To the east across Kam Sheung Road is the area within "Residential (Group D)" zone currently occupied by a temporary shop and services and vehicle repair workshop (Application No. A/YL-KTS/954) approved by the Board on 31.3.2023 and transitional housing called Pok Oi Kong Ha Wai Village. To the south are open storage yard and warehouse. To the west are residential dwellings and an open storage yard for storage of construction machinery, construction material, vehicle and vehicle parts (Application No. A/YL-KTS/865) approved by the Board on 26.3.2021. To the north are warehouses and open storage yard for storage of vehicles, metal, plastic pipes, machinery, vehicle parts and construction materials (Application No. A/YL-KTS/924) approved by the Board on 24.6.2022. A plan which shows the Application Site in the context of its local surroundings is in **Figure 3**.

Access

- 2.04 The Application Site is directly accessible from Kam Sheung Road which is a prime access road in Kam Tin. Kam Sheung Road can lead to Tung Wui Road and Kam Tin Road to the north and other parts of the New Territories. The ingresses and egresses of the Application Site are approximately 7 metres wide.

3. LAND STATUS

- 3.01 According to the Land Registry, the Application Site comprises of Lot 455 RP(Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories which demised as agricultural land. A plan showing the configuration of this lot is in **Figure 2**.
- 3.02 The subject lot is held under Block Government Lease and demised as agricultural land with a lease term expiring on 30.6.2047. There are no user restrictions in the leases apart from the standard non-offensive trade clause.

4. PLANNING CONTEXT

Statutory Plan

- 4.01 According to the Approved Kam Tin South OZP No. S/YL-KTS/15 gazetted on 21.12.2018, the Application Site falls within "OU(RU)" zone. An extract of the OZP is in **Figure 4**.
- 4.02 The planning intention of the "OU(RU)" zone is intended primarily for the preservation of the character of the rural area. Uses or developments compactible with the rural landscape, such as passive recreation uses and a selected range of rural uses, may be allowed on application to the Town Planning Board, with a view of upgrading and improving the area or providing support to the local communities.
- 4.03 According to the Notes accompanying the OZP, the proposed development is not a permitted use under Column 1 or 2 of the "OU(RU)" zone. Temporary use or development of any land or building not exceeding a period of three years requires planning permission from the Board.

Previous Applications

- 4.04 The Application Site is the subject of two previous planning applications (Nos. A/YL-KTS/754 and 875) which were approved by the Board on 26.1.2018 and 26.2.2021 for the same "Temporary Site Office and Service Depot for Drainage and Sewerage Works use for a Period of 3 Years". All approval conditions of the last application had been complied with.

5. DEVELOPMENT PROPOSAL

Applied Use

- 5.01 The Proposed Development primarily serves as a local service depot for the public works and private projects in the New Territories. As the last approved application (No. A/YL-KTS/875) will expire on 26.2.2024, The Applicant seeks planning approval for continuing using the Application Site for temporary site office and service depot for drainage and sewerage works for a period of 3 years.

Site Layout and Design

- 5.02 Compared with the last approved application (No. A/YL-KTS/875), all planning circumstances and site configurations for the current application remains unchanged. The Application Site is bisected into the northern and southern portions by a local track. The northern portion of the Application Site comprises of a 2-storey (6 metres high) temporary structure for site office, parking, pantry and washroom. A canopy for staff parking and fire service pump room and water tank are located at the western boundary.

The southern portion comprises a canopy area (5 to 5.5 m high) covering 6 one to two-storey container-converted structures for site office and ancillary storage of equipment and tools, 2 two-storey storerooms (5m high) and a meter room. The total floor area of the structures is about 878 square metres. The Application Site is hard paved and fenced off with corrugated sheets of approximately 2.5 – 3.0 m in height.

- 5.03 The existing vehicular ingresses/egresses are about 7 metres wide and connecting to Kam Sheung Road. The Application Site provides a total of 7 parking spaces for staff only (private vehicles), 1 parking space for medium goods vehicle (MGV) and 1 parking space for light goods vehicle (LGV). The MGV and LGV are specialist vehicles with equipment to serve site works. Sufficient spaces are reserved within the Application Site for manoeuvring of vehicles. There is a 1.5 metre setback on the northern boundary of the southern portion to ensure the water mains underground is not affected. No structures or any site operational activities are built or performed on this waterworks reserve area. The Layout Plan and development parameters are shown in **Figure 5**.

Site Operations

- 5.04 The Application Site is being used by the Applicant, a specialist contractor offering all aspects of drainage and sewerage works, as a site office and service depot serving public works and private projects. All the works are conducted at the contracted sites and no workshop and cleaning activities are conducted at the Application Site. The operation hours of the Proposed Development are restricted from 7am to 7pm, Mondays to Saturdays, and there is no operation on Sundays and public holidays.
- 5.05 According to the Applicant, trips made by the specialist vehicles and staff vehicles are no more than 4 round trips and 7 round trips per day, respectively. There are no difficulties in internal traffic circulation as sufficient space for manoeuvring of vehicles is allowed throughout the Application Site such that no waiting or queuing of goods vehicles along Kam Sheung Road will arise under any circumstances. The on-site staffs manage the in and out traffic flow during operation hours. Priority is given to LGV/MGV to avoid blocking of the ingress/egress. No visitor car parking spaces are provided within the Application Site. Visitors can arrive at the Application Site by public transport.

Landscaping

- 5.06 In accordance with the approved Landscape Proposal of the previous application (No. A/YL-KTS/754), a total of 9 trees had already been planted along the eastern and southern boundary in the southern portion of the Application Site. The implementation of the landscape proposal was considered satisfactory by the Planning Department. The existing trees will be preserved by the Applicant with routine horticultural maintenance.

Drainage Facilities

- 5.07 The Application Site is currently served by drainage facilities that were constructed for the compliance with approval condition of previous application (No. A/YL-KTS/754) and

received approval from the Drainage Services Department. The Applicant, as a contractor for drainage services, will maintain the existing drainage system at the Application Site at all times.

Fire Services Installations

- 5.08 The Applicant has submitted and implemented the fire service installations (FSIs) proposal to the satisfaction of the Director of Fire Services in compliance with approval condition of the last application (No. A/YL-KTS/875) (see **Appendix A**). The Applicant will maintain the FSIs for the current application.

Run-in/out

- 5.09 The Applicant has submitted and implemented the run-in/out proposal to the satisfaction of the Director of Highways and the Commissioner for Transport in compliance with approval condition of the last application (No. A/YL-KTS/875) (see **Appendix B**). The Applicant will maintain the run-in/out for the current application.

Environmental Consideration

- 5.10 The entire site has been hard paved to avoid fugitive dust impacts from manoeuvring of vehicles. Perimeter fencing and landscaping will be maintained to reduce potential dust or noise emissions. Furthermore, no workshop/cleaning activities will be carried out within the Application Site to minimize the visual impact and any noise from site operation.

6. JUSTIFICATIONS

Facilitate the Essential Public Works in the New Territories

- 6.01 Under the 2022 Policy Address, the Chief Executive has clearly indicated that the Northern Metropolis is the foothold for Hong Kong's strategic development as well as the new engine for Hong Kong to scale new heights. The current-term Government will take forward the development of the Northern Metropolis in full steam. A number of major development projects in the area have already/ will be commenced, including Kwu Tung North/Fanling North, Hung Shui Kiu/Ha Tsuen, Yuen Long South New Development Area (NDA), San Tin Technopole, New Territories North New Town, etc. In this context, there will be a great number of infrastructural projects (including new drainage system and upgrading existing drainage projects) in the New Territories and thus temporary work sites with ancillary office to facilitate public works will be in great demand.
- 6.02 Given that the specialist services provided by the Applicant are essential for pipeline rehabilitation, sewerage treatment and underground works, the Application Site could provide land for uses directly related to or in support of the public works of the

Government. The Proposed Development is to facilitate various on-going projects in the New Territories and meet the demand of this specialist service in Hong Kong.

Not Contravening the Long-Term Planning Intention of "OU(RU)" Zone

- 6.03 According to the minutes of the 666th meeting of RNTPC of the last application (No. A/YL-KTS/875) held on 21.2.2021, the Planning Department considered that *"the Proposed Development could be tolerated for a period of 3 years... There is no known programme for long-term development at the Site. It is considered that approval of the application on a temporary basis would not frustrate the long-term planning intention of the "OU(RU)" Zone. It is considered not incompatible with the surrounding areas, which are rural in character."* For the current application, the planning circumstances (i.e. land use zoning, character of the area, planning parameters) remain unchanged since the last application was granted. In this regard, the applied use would not jeopardize the long-term planning intention for the area.

Site with Previous Planning Approvals

- 6.04 The Board previously approved the same use on the Application Site on 26.1.2018 and 26.2.2021. The Board's decision to approve the previous applications on the same site indicates that the Proposed Development is acceptable within the "OU(RU)" zone. The land use and planning circumstance for the current application remain unchanged since the previous planning application was approved.

Compliance with Previous Approval Conditions

- 6.05 All approval conditions of the last planning application (Nos. A/YL-KTS/875) had been complied with. This indicates the Applicant's determination in operating the Proposed Development in a lawful manner, favourable consideration may be given by the Board to this application. The Applicant commits to continue to comply with all approval conditions should this application be approved.

Compatible with Surrounding Land Uses

- 6.06 The Proposed Development is compatible with the surroundings, which are mainly open storage yards, warehouses, workshops, vehicle parks. To the immediate north and west of the Application Site are temporary open storage yards with planning approvals. The surrounding developments are mainly low-rise temporary structures. As the adjacent land uses and building height are compatible and similar in nature, approval of this application would unlikely create any interface problems.

No Adverse Environmental or Visual Impact

- 6.07 Unlike port back-up sites and certain types of open storage uses, container vehicle parks, workshops, etc., the Proposed Development would not generate adverse noise, air pollution or visual intrusion. In addition, the frequency of delivery trips to and from

the Application Site will be minimal. Notwithstanding the above, appropriate paving, landscaping and perimeter fencing have been provided to minimize the chance of noise or dust emissions generating from the Application Site. As the Proposed Development would only operate during the daytime, i.e. 7:00am to 7:00pm, the potential noise impact caused by the proposed use would be minimal.

No Adverse Traffic Impact

- 6.08 The operation of the Proposed Development is same as the last application (No. A/YL-KTS/875). The Proposed Development is not a high traffic generating use. The frequency of delivery trips by specialist vehicles to and from the Application Site is low (estimated to be a maximum of 4 round trips for specialist vehicles and 7 round trips for staff vehicles per day). As such, vehicle trips due to the Proposed Development is minimal to the generation of the overall traffic in the local network.

No Adverse Drainage Impact

- 6.09 Drainage facilities on the Application Site were constructed under the previous application (No. A/YL-KTS/754) and had received approval from the Drainage Services Department. The Applicant will continue to maintain the drainage facilities on a regular basis, and therefore no adverse drainage impacts are anticipated from the Proposed Development.

Ideal Locational Choice of the Application Site

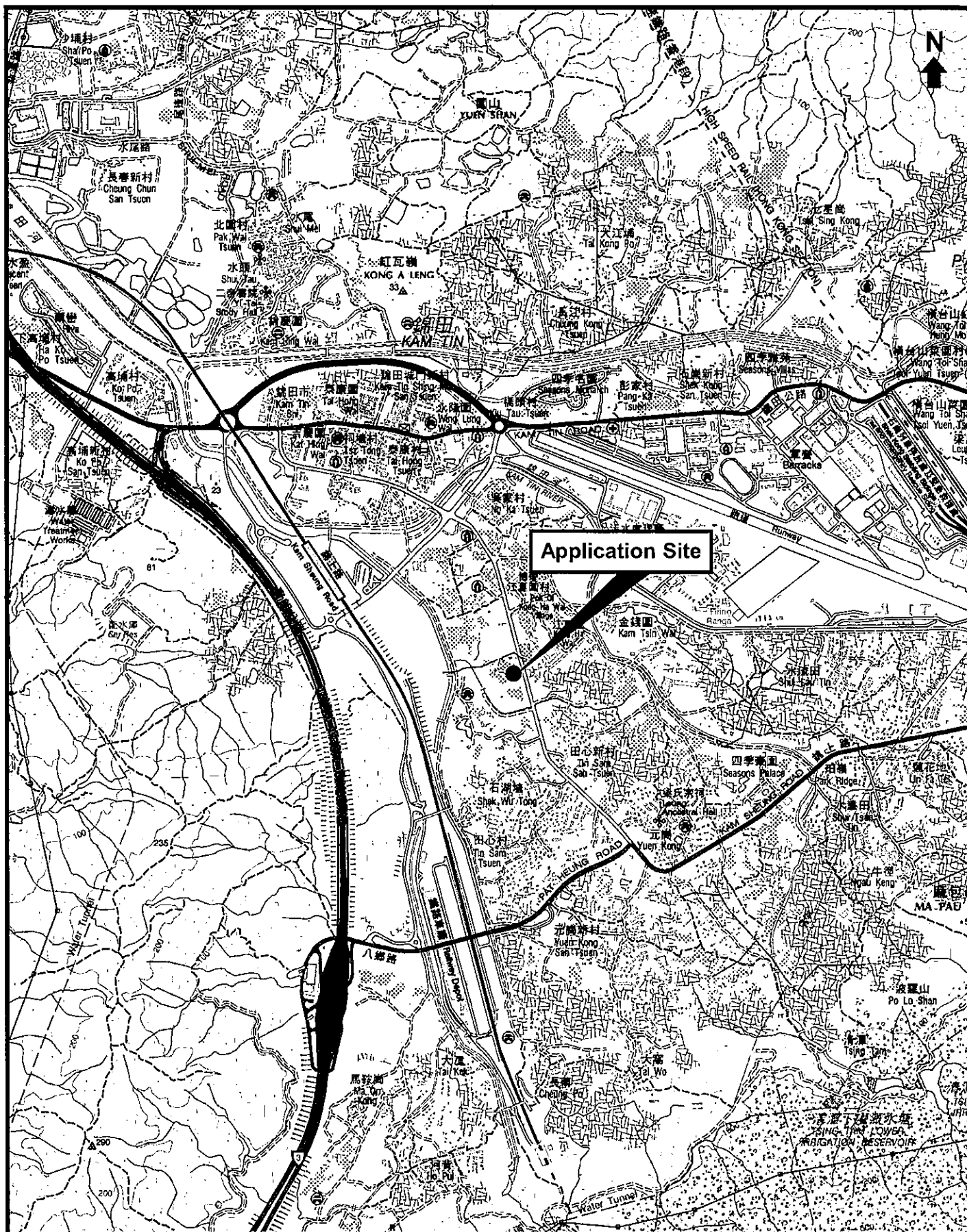
- 6.10 The Application Site is considered appropriate and less susceptible to the local environment in view of its adjoining land use pattern and locational advantage. The Application Site is also conveniently served by local road network (i.e. Kam Sheung Road) to the work sites in other parts of the New Territories without passing existing village houses or settlements. In this regard, the Application Site is an ideal locational choice for the Applicant.

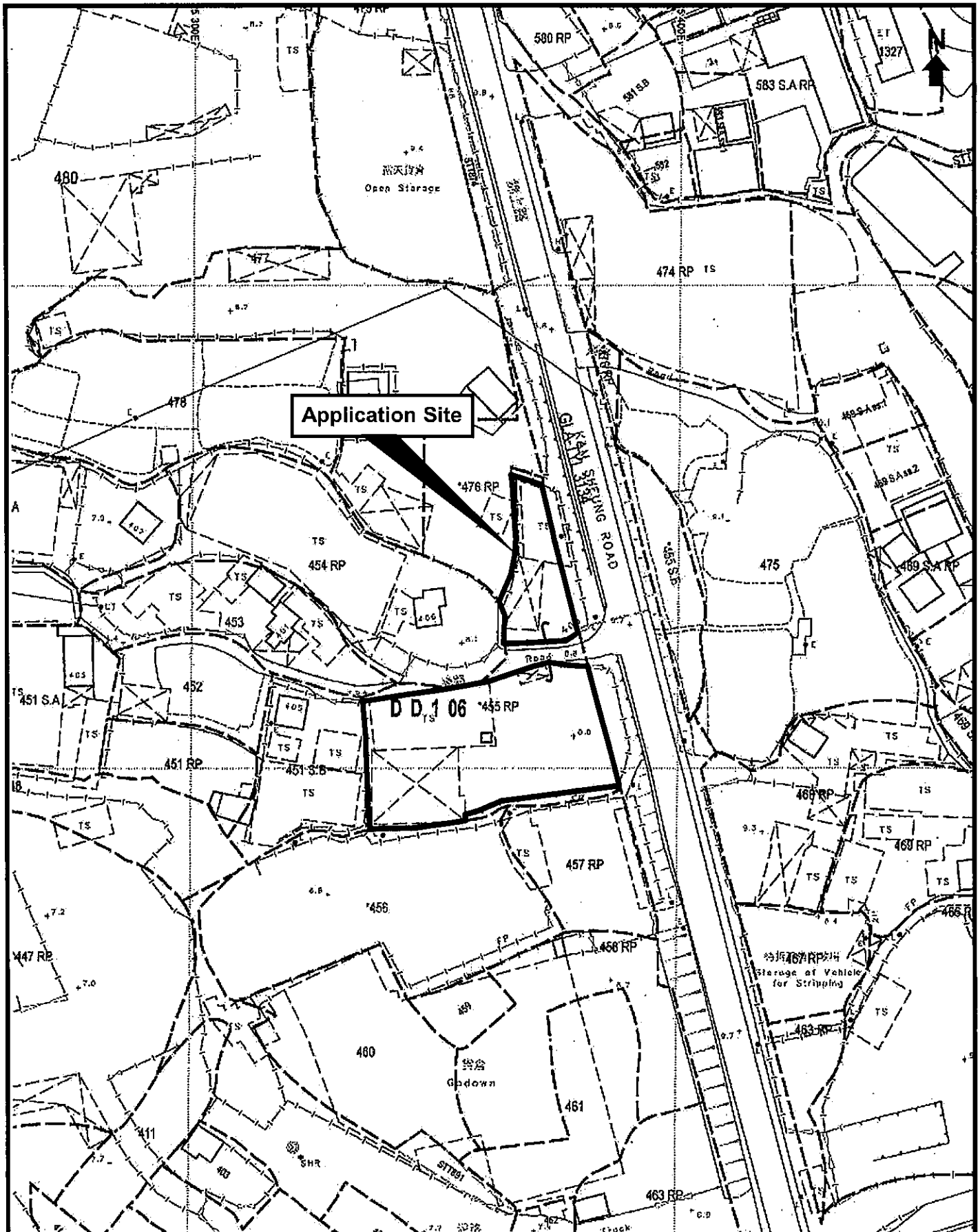
7. CONCLUSION

- 7.01 This application seeks planning permission for continue using the Application Site for a temporary site office and service depot for drainage and sewerage works for a period of 3 years. Compared with the last application, there is no change in planning circumstances. The Board has approved two applications for the same use at the same site. Temporary approval of the applied use would not frustrate the future planning intention for the area.
- 7.02 The Proposed Development is compatible with surrounding land uses, which mainly comprise of open storage yards, workshops, warehouses. It will not generate any adverse traffic, drainage, visual or environmental impacts on the surrounding areas.

- 7.03 As there has not been any material change in planning circumstances since the previous temporary approval and the Applicant had made genuine effort to comply with all the approval conditions, together with the reasons detailed in the previous sections, the Applicant respectfully requests that the Board give favourable consideration and approve this application for a further period of 3 years.

Top Bright Consultants Ltd.
December 2023





Top Bright Consultants Ltd.

Extracted from Lot Index Plan
Nos. 6-NE-12D & 17B

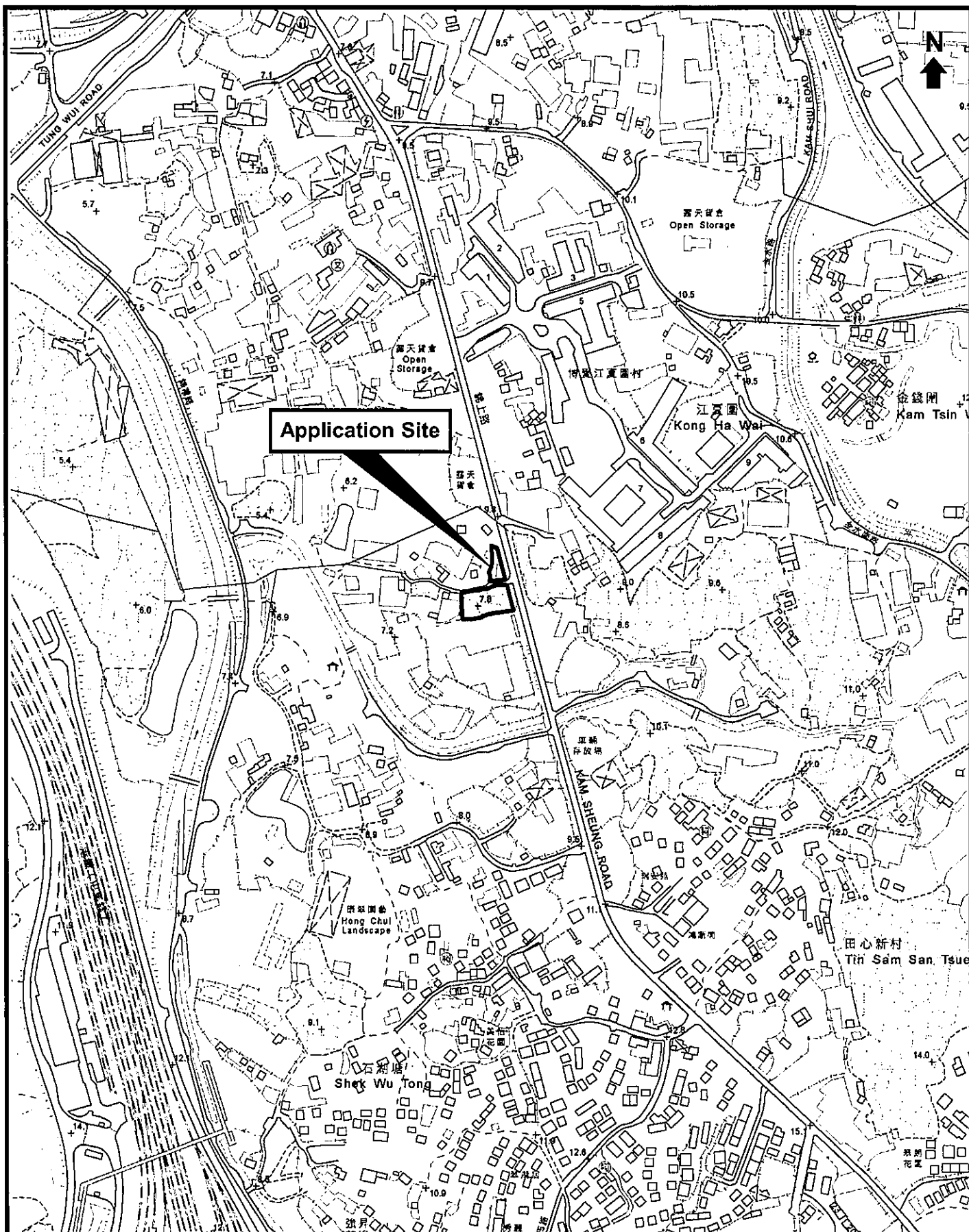
Site Plan

Scale 1 : 1 000

FIGURE 2

For Identification Purpose

Date: 6.12.2023



Top Bright Consultants Ltd.

Extracted Plan Based on Map
Series HP5C of Sheet No.
6-NE-C

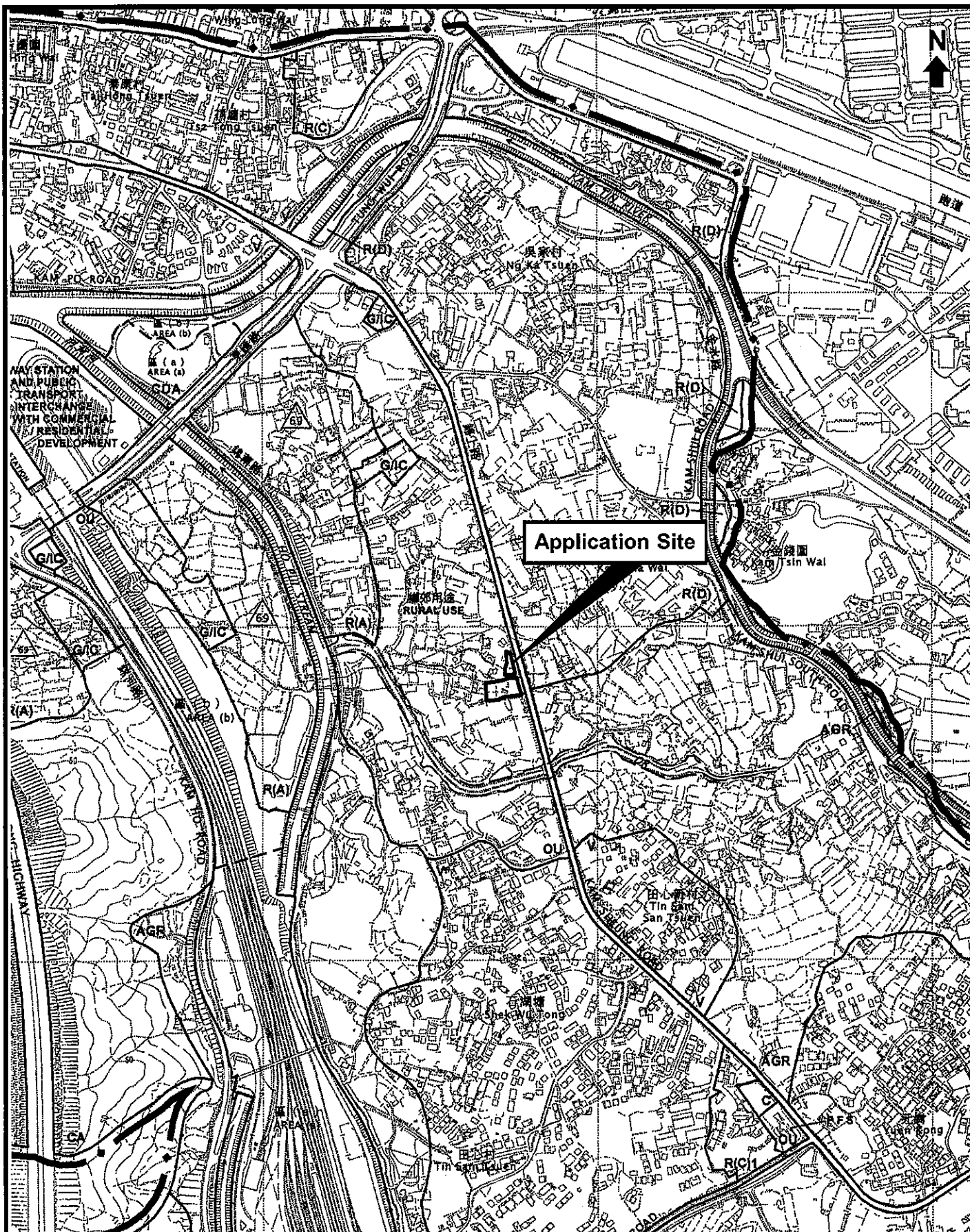
Plan Showing the General Area

Scale 1 : 5 000

FIGURE 3

For Identification Purpose

Date: 6.12.2023



Extract from Kam Tin South Outline Zoning Plan
No. S/YL-KTS/15 gazetted on 21.12.2018

 Top Bright Consultants Ltd.

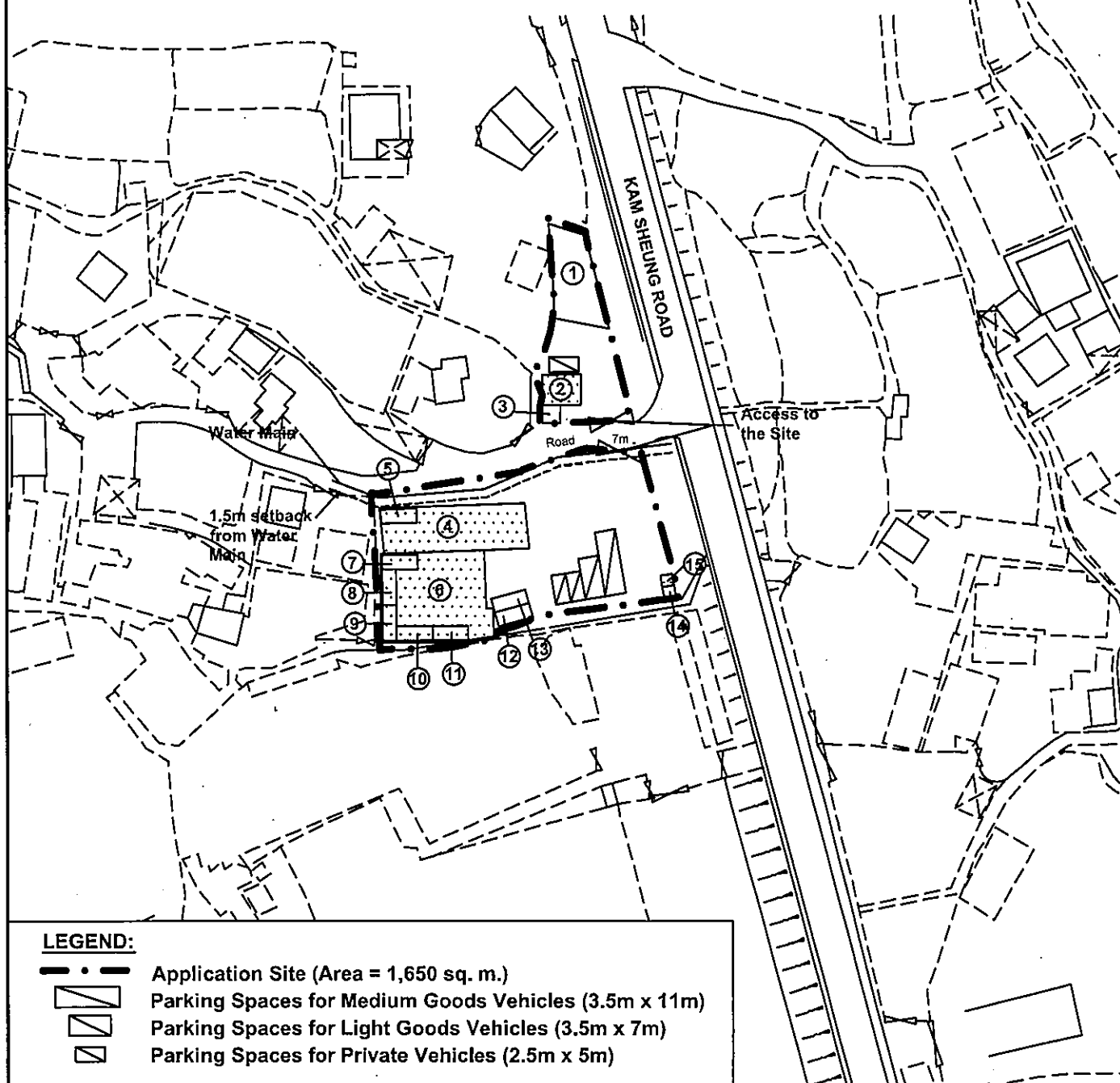
Scale 1 : 7 500

FIGURE 4

For Identification Purpose

Date: 6.12.2023

Structure No.	Uses	No. of Storey	Covered Area(m ²)	Floor Area(m ²)	Height(m)
1	G/F: 2 Staff Parking Spaces, Pantry and Washroom 1/F: Site Office	2	114	228	6
2	Canopy for 2 Staff Parking Spaces	1	25	25	3
3	F.S. Pump Room and Water Tank	1	9	9	2.5
4	Canopy for Ancillary Storage of Tools/Equipment	1	193	193	5
5	Site Office (under the canopy)	1	15	15	2.5
6	Canopy	1	280	280	5.5
7	Site Office (under the canopy)	2	15	30	5
8	Site Office (under the canopy)	2	15	30	5
9	Site Office (under the canopy)	2	15	30	5
10	Site Office (under the canopy)	2	15	30	5
11	Site Office (under the canopy)	2	15	30	5
12	Storeroom for Tools/Equipment	2	15	30	5
13	Storeroom for Tools/Equipment	2	15	30	5
14	Meter Room	1	4	4	2
15	Canopy	1	4	4	2



Top Bright Consultants Ltd.

Drawing No. : TB/23/826/05

Layout Plan

Lot 455RP(Part) In DD106, Kam Sheung Road,
Kam Tin, Yuan Long, N.T.

FIGURE 5

FOR IDENTIFICATION PURPOSE

Date: 6.12.2023

Scale: 1 : 1 000

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Planning Department

Fanling, Sheung Shui & Yuen Long East
District Planning Office
Unit 2202, 22/F, CDW Building,
388 Castle Peak Road, Tsuen Wan, N.T.

來函檔號 Your Reference :
本署檔號 Our Reference : TPB/AYL-KTS/875
電話號碼 Tel. No. : 3168 4072
傳真機號碼 Fax No. : 3168 4074/ 3168 4075

By Post & Fax

Top Bright Consultant Ltd.

(Attn.: Lo Ming Kong / Raymond LEUNG)

24 May 2021

Dear Sir/ Madam,

**Submission for Compliance with Approval Condition (k)
-the submission of a fire service installations proposal**

**Temporary Site Office and Service Depot for Drainage and Sewerage Works
for a Period of 3 Years in "Other Specified Uses" annotated "Rural Use" Zone,
Lot 455 RP (Part) in D.D. 106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
(Application No. A/YL- KTS/875)**

I refer to your submission dated 11.5.2021 for compliance with the captioned approval condition. The relevant department has been consulted on your submission. Your submission is considered:

- ☒ Acceptable. The captioned condition has been complied with.
- ☐ Acceptable. Since the captioned condition requires both the submission and implementation of the proposal, it has not been fully complied with. Please proceed to implement the accepted proposal for full compliance with the approval condition.
- ☐ Not acceptable. The captioned condition has not been complied with. Please find detailed departmental comments in *Appendix*.

Should you have any queries, please contact Mr. Wong Ho-yin (Tel: 2733 7737) of Fire Services Department directly.

Yours faithfully,

(Anthony LUK)

District Planning Officer/
Fanling Sheung Shui & Yuen Long East
Planning Department

C.C.

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D of FS
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(Attn.: Mr. WONG Ho-yin)

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中環大廈 22 樓 2202 室



Planning Department

Fanling, Sheung Shui & Yuen Long East
District Planning Office
Unit 2202, 22/F, CDW Building,
388 Castle Peak Road, Tsuen Wan, N.T.

來函檔號 Your Reference :
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電話號碼 Tel. No. : 3168 4072
傳真機號碼 Fax No. : 3168 4074/ 3168 4075

By Post & Fax

Top Bright Consultant Ltd.

(Attn.: Lo Ming Kong)

24 December 2021

Dear Sir/ Madam,

**Submission for Compliance with Approval Condition (I)
- the Implementation of the Fire Service Installations Proposal**

**Temporary Site Office and Service Depot for Drainage and Sewerage Works
for a Period of 3 Years in "Other Specified Uses" annotated "Rural Use" Zone,
Lot 455 RP (Part) in D.D. 106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
(Application No. A/YL- KTS/875)**

I refer to your submission dated 23.11.2021 for compliance with the captioned approval condition. The relevant department has been consulted on your submission. Your submission is considered:

- ☒ Acceptable. The captioned condition has been complied with.
- ☐ Acceptable. Since the captioned condition requires both the submission and implementation of the proposal, it has not been fully complied with. Please proceed to implement the accepted proposal for full compliance with the approval condition.
- ☐ Not acceptable. The captioned condition has not been complied with. Please find detailed departmental comments in *Appendix*.

Should you have any queries, please contact Mr. Wong Ho-yin (Tel: 2733 7737) of Fire Services Department directly.

Yours faithfully,

(Anthony LUK)

District Planning Officer/
Fanling, Sheung Shui & Yuen Long East
Planning Department

- 2 -

C.C.

D of FS

(Attn.: Mr. WONG Ho-yin)

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Fanling, Sheung Shui & Yuen Long East
District Planning Office
Unit 2202, 22/F, CDW Building,
388 Castle Peak Road, Tsuen Wan, N.T.

來函檔號 Your Reference :
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電話號碼 Tel. No. : 3168 4072
傳真機號碼 Fax No. : 3168 4074/ 3168 4075

By Post & Fax

Top Bright Consultant Ltd.

(Attn.: Lo Ming Kong)

17 November 2021

Dear Sir/ Madam,

**Submission for Compliance with Approval Condition (h)
- the Submission of a Run-in/out Proposal at Kam Sheung Road**

**Temporary Site Office and Service Depot for Drainage and Sewerage Works
for a Period of 3 Years in "Other Specified Uses" annotated "Rural Use" Zone,
Lot 455 RP (Part) in D.D. 106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
(Application No. A/YL- KTS/875)**

I refer to your submission dated 6.11.2021 for compliance with the captioned approval condition. The relevant department has been consulted on your submission. Your submission is considered:

- ☒ Acceptable. The captioned condition has been complied with. Please find the detailed departmental comments in *Appendix*.
- ☐ Acceptable. Since the captioned condition requires both the submission and implementation of the proposal, it has not been fully complied with. Please proceed to implement the accepted proposal for full compliance with the approval condition.
- ☐ Not acceptable. The captioned condition has not been complied with. Please find detailed departmental comments in *Appendix*.

Should you have any queries, please contact Ms. TSUI Wing Har (Tel: 27623947) of Highways Department and Mr. LEE Kar Chun (Tel: 23992421) of Transport Department directly.

Yours faithfully,


(Anthony LUK)

District Planning Officer/
Fanling, Sheung Shui & Yuen Long East
Planning Department

- 2 -

C.C.
C for T
CHE/NTW, HyD

(Attn.: Mr. LEE Kar Chun)
(Attn.: Ms. TSUI Wing Har)

Internal
CTP/TPB

AL/CP/vp

Appendix

Comments of the Chief Highway Engineer/ New Territories West, Highways Department:

The applicant is reminded to keep and submit relevant records such as photos of spare ducts installation, records of concrete grade, records of supplier of concrete, kerb material, steel mesh, and compaction record, etc. in the future submission for compliance of implementation of run-in/out.

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Planning Department

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District Planning Office
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388 Castle Peak Road, Tsuen Wan, N.T.

來函檔號 Your Reference : 20/679/L24
本署檔號 Our Reference : TPB/A/YL-KTS/875
電話號碼 Tel. No. : 3168 4038
傳真機號碼 Fax No. : 3168 4074/ 3168 4075

By Post & Fax

Top Bright Consultant Ltd.

(Attn.: Adam CHOW)

26 July 2023

Dear Sir/ Madam,

Submission for Compliance with Approval Conditions (h) & (i)
- The Submission & Implementation of a Run-in/out Proposal at Kam Sheung Road
Temporary Site Office and Service Depot for Drainage and Sewerage Works
for a Period of 3 Years in "Other Specified Uses" annotated "Rural Use" Zone,
Lot 455 RP (Part) in D.D. 106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
(Application No. A/YL- KTS/875)

I refer to your submission for compliance with the captioned approval conditions. The relevant departments have been consulted on your submission. Your submission is considered:

- ☒ Acceptable. The captioned conditions **have been complied with.**
- ☐ Acceptable. Since the captioned conditions require both the submission and implementation of the proposal, they **have not been fully complied with.** Please proceed to implement the accepted proposal for full compliance with the approval condition.
- ☐ Not acceptable. The captioned conditions **have not been complied with.**

Should you have any queries on the departmental comments, please contact Mr. Phil CAI (Tel: 2399 2421) of the Transport Department or Ms. Tanya TSUI (Tel: 2762 3947) of the Highways Department directly.

Yours faithfully,

(Anthony LUK)
District Planning Officer/
Fanling Sheung Shui & Yuen Long East
Planning Department

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電話號碼 Tel. No. : 3168 4072
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Top Bright Consultant Ltd.

(Attn.: Lo Ming Kong / Raymond LEUNG)

10 June 2021

Dear Sir/ Madam,

**Submission for Compliance with Approval Condition (j)
-the submission of a record of the existing drainage facilities on Site**

**Temporary Site Office and Service Depot for Drainage and Sewerage Works
for a Period of 3 Years in "Other Specified Uses" annotated "Rural Use" Zone,
Lot 455 RP (Part) in D.D. 106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
(Application No. A/YL- KTS/875)**

I refer to your submission dated 9.6.2021 for compliance with the captioned approval condition. The relevant department has been consulted on your submission. Your submission is considered:

- ☒ Acceptable. The captioned condition **has been complied with**. Please find detailed departmental comments in *Appendix*.
- ☐ Acceptable. Since the captioned condition requires both the submission and implementation of the proposal, it **has not been fully complied with**. Please proceed to implement the accepted proposal for full compliance with the approval condition.
- ☐ Not acceptable. The captioned condition **has not been complied with**. Please find detailed departmental comments in *Appendix*.

Should you have any queries on the departmental comments, please contact Bill CHAN (Tel: 2781 4107) of the Drainage Services Department directly.

Yours faithfully,

(Anthony LUK)

District Planning Officer/
Fanling Sheung Shui & Yuen Long East
Planning Department

C.C.
DSD
Internal
CTP/TPB

(Attn.: Mr. Bill CHAN)

AL/IC/ol

Appendix

Comments of the Chief Engineer/Mainland North, Drainage Services Department:

The applicant is reminded to maintain all the drainage facilities on site in good condition and ensure that the proposed development would neither obstruct overland flow nor adversely affect existing natural streams, village drains, ditches and the adjacent areas, etc. The applicant is required to rectify the drainage system at their own expense to the satisfaction of the government parties concerned if they are found to be inadequate or ineffective during operation.

☐Urgent ☐Return receipt ☐Expand Group ☐Restricted ☐Prevent Copy

Ying Yeung MO/PLAND

寄件者: Tsz Nok Chow
寄件日期: 2023年12月28日星期四 12:51
收件者: tpbpd/PLAND
副本: Ying Yeung MO/PLAND
主旨: Planning Application No. A/YL-KTS/984 - FSI, Drainage, Run in out Proposals
類別: Internet Email

Dear Mr.Mo,

We would like to submit the approved Fire Service Installation, Drainage and Run-in/out Proposals of the last application to support the captioned renewal application.

Should you have any queries or require further information, please feel free to contact the undersigned at

Best Regards,
Adam Chow
Top Bright Consultants Ltd.

 Drainage proposal 2023.pdf 

 FSI Proposal 2023.pdf 

 Run in out proposal and implementation 2023.pdf 

**Drainage Submission in support of
Planning Application No. A/YL-KTS/984
Compliance with Approval Condition (i)
Temporary Site Office and Service Depot for Drainage and
Sewerage Works for a Period of Three Years in "Other Specified
Uses" annotated "Rural Use" ("OU(RU)") zone
at Lot 455RP(Part) in DD106, Kam Sheung Road, Yuen Long,
New Territories**

(HT20035)

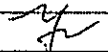
April 2020

Planning Consultant: Top Bright Consultants Limited

Drainage Consultant:

何田顧問工程師有限公司
HO TIN & ASSOCIATES
CONSULTING ENGINEERS LIMITED

Tel: Fax: E-mail: at

Prepared by	Fred Lui	
Checked & approved by	K C LEE	

1. Background

- 1.1 In support of Planning Application No. A/YL-KTS/984 for Lot 455RP(Part) in DD106, Kam Sheung Road, Yuen Long, New Territories, Messrs. Ho Tin & Associates Consulting Engineers Limited was appointed to prepare a drainage submission.

2. Approach to Prepare this Submission

- 2.1 This Drainage Submission is prepared in line with the "Technical Note to prepare a Drainage Submission (relating to application for temporary change of land use such as temporary storage areas, car parks, workshops, small factories, etc. under S.16 of the Town Planning Ordinance)" issued by Drainage Services Department in November 2001.

3. The Subject Site

- 3.1 The subject site comprises of Lot 455RP(Part) in DD106, Kam Sheung Road, Yuen Long, N.T. It consists of two pieces of land separated by an access road with a total site area of about 1,639m² abutting on the west side of Kam Sheung Road.

4. Existing Drainage Conditions of the Site

- 4.1 The subject site as well as the areas in the immediate vicinity are paved with concrete at present. The surface of the subject site is generally gently sloping downward from Kam Sheung Road toward the western area. At present, there are existing channels in particular along the western site boundary collecting surface runoff from the subject site. Surface runoff collected inside the channels is discharged into an existing watercourse to the further west.
- 4.2 The stormwater discharging route of the subject site as well as flow directions of the surface runoff and subcatchment boundaries of the subject site are shown in **Figure 1**. Colour photos (location taken shown in **Figure 1**) showing the existing site/drainage conditions are shown in the following:

	
1 – General view of the subject site	2 – existing downpipe and floor drain
	
3 – existing floor drain	4 – existing 450RC along the western site boundary
	
5 – existing site condition	6 – existing 225RC near the western site boundary

7 – existing 300RC along the western site boundary	8 – existing 450RC conveying collected surface runoff to the downstream
9 – existing 450RC conveying collected surface runoff to an existing watercourse	10 – existing watercourse running through vacant lands

4.3 Surface runoff from the subject site is properly intercepted by existing channels at its site boundary and conveyed to the existing watercourse to the west.

5. Proposed Drainage Works

- 5.1 The subject site will be generally maintained at present except some minor alteration of the shelters/container offices to match with the site layout in the approved planning application. The present discharging points to the adjacent existing channels will be maintained.
- 5.2 Drainage plan of canopy level and ground level is shown in **Figure 2** and **3** respectively.

6. Hydraulic Calculation

- 6.1 Assessment criteria is based on the recommendation set out in the Stormwater Drainage Manual (SDM) issued by DSD.
- 6.2 The corresponding runoffs under rainfall intensity for various return period are worked out with reference to Rational Method. Brandy-Williams method is used in calculation of the time of concentration. A uniformly distributed rainfall with an intensity is determined by the Intensity-Duration-Frequency. With referenced to GEO TGN 30 (2018 version), the rainfall profiles are derived based on the following equation:

$$i = \frac{a}{(t + b)^c}$$

where i = mean rainfall intensity (mm/hr)
t = duration time of concentration (min)
a, b, c = storm constants given in Table 6.2 below

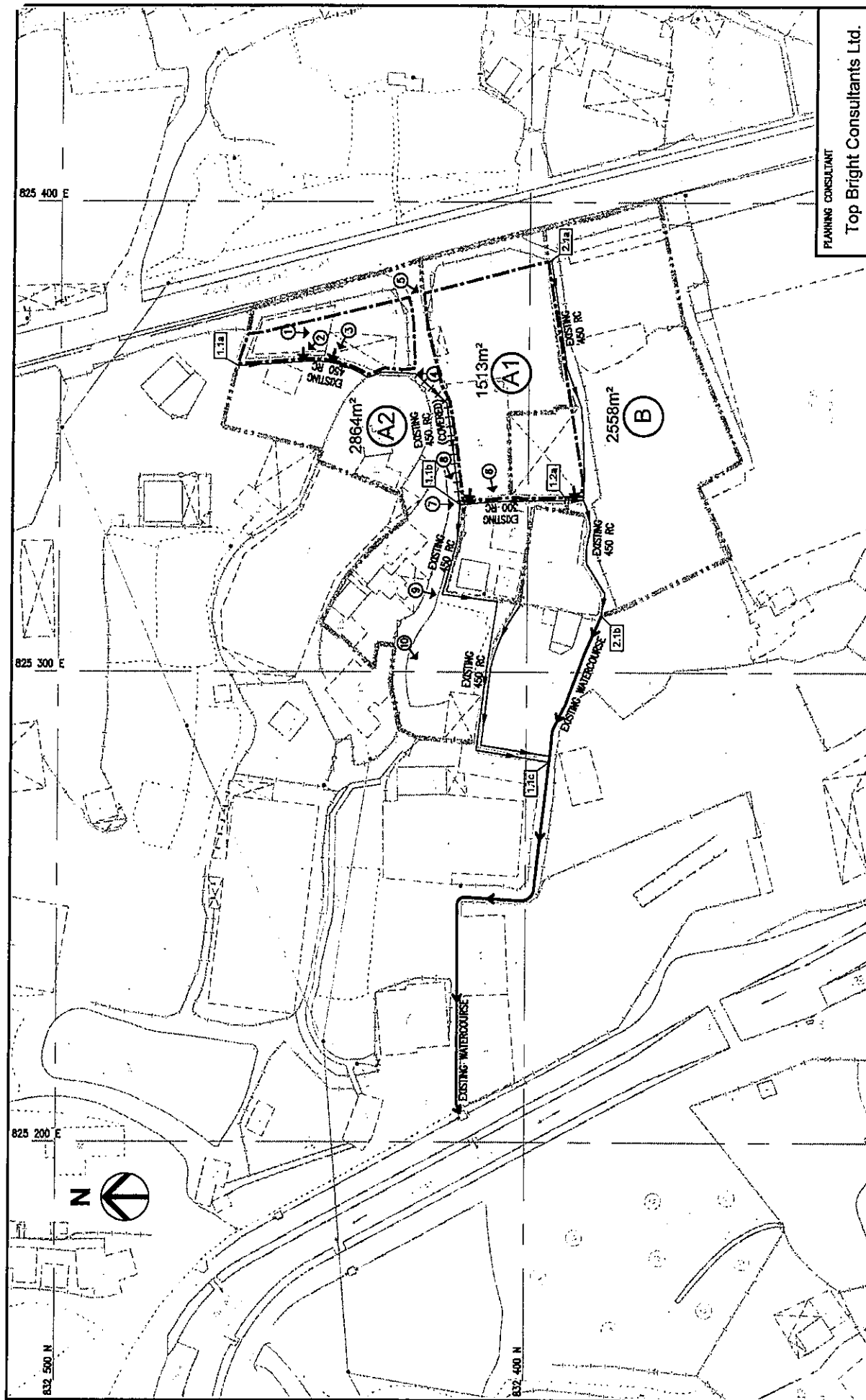
Table 6.2 Storm Constants (temporary use)

Return Period (years)	10
a	640
b	4
c	0.41

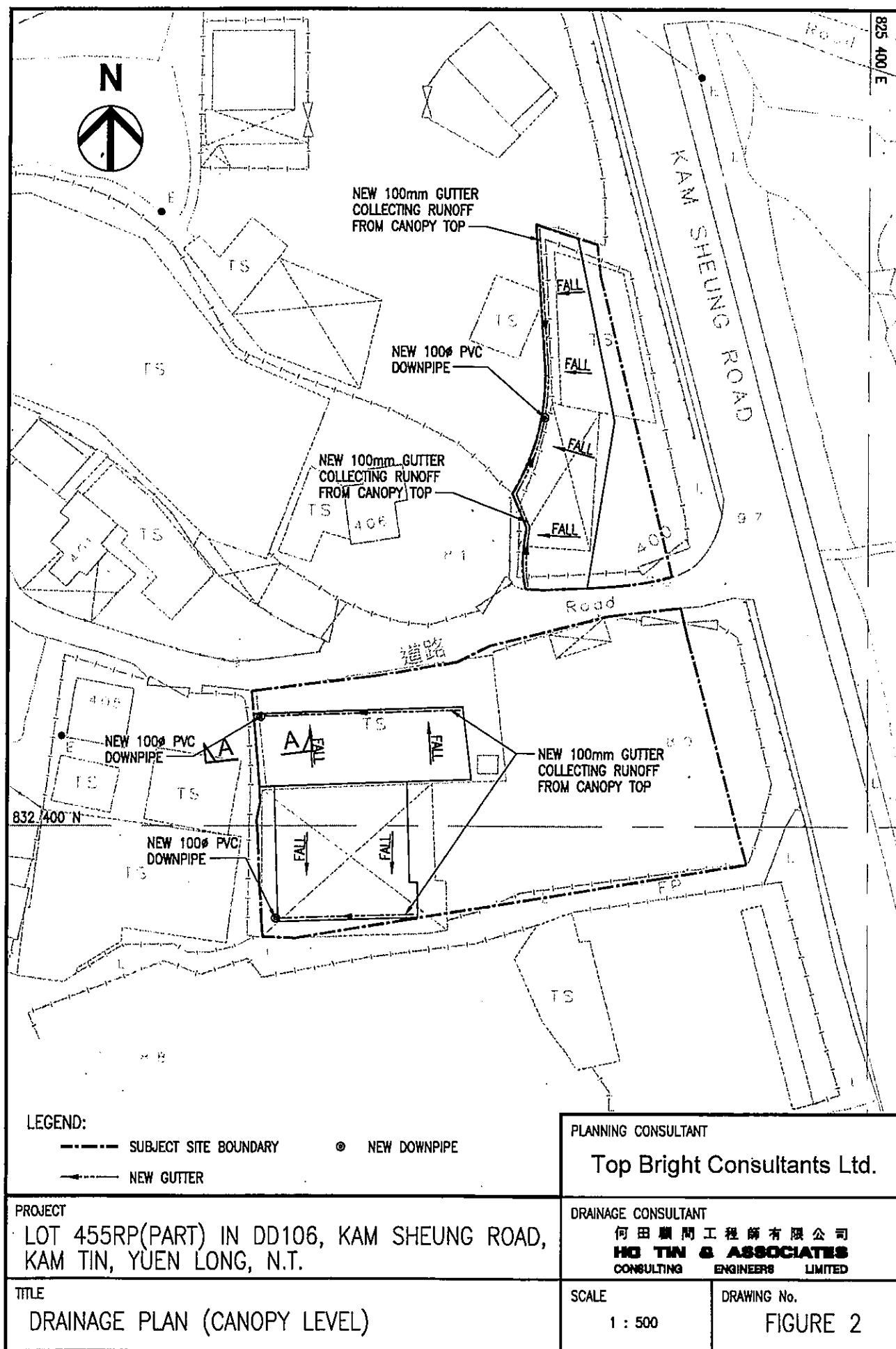
- 6.3 Hydraulic assessment is enclosed in the Appendix.

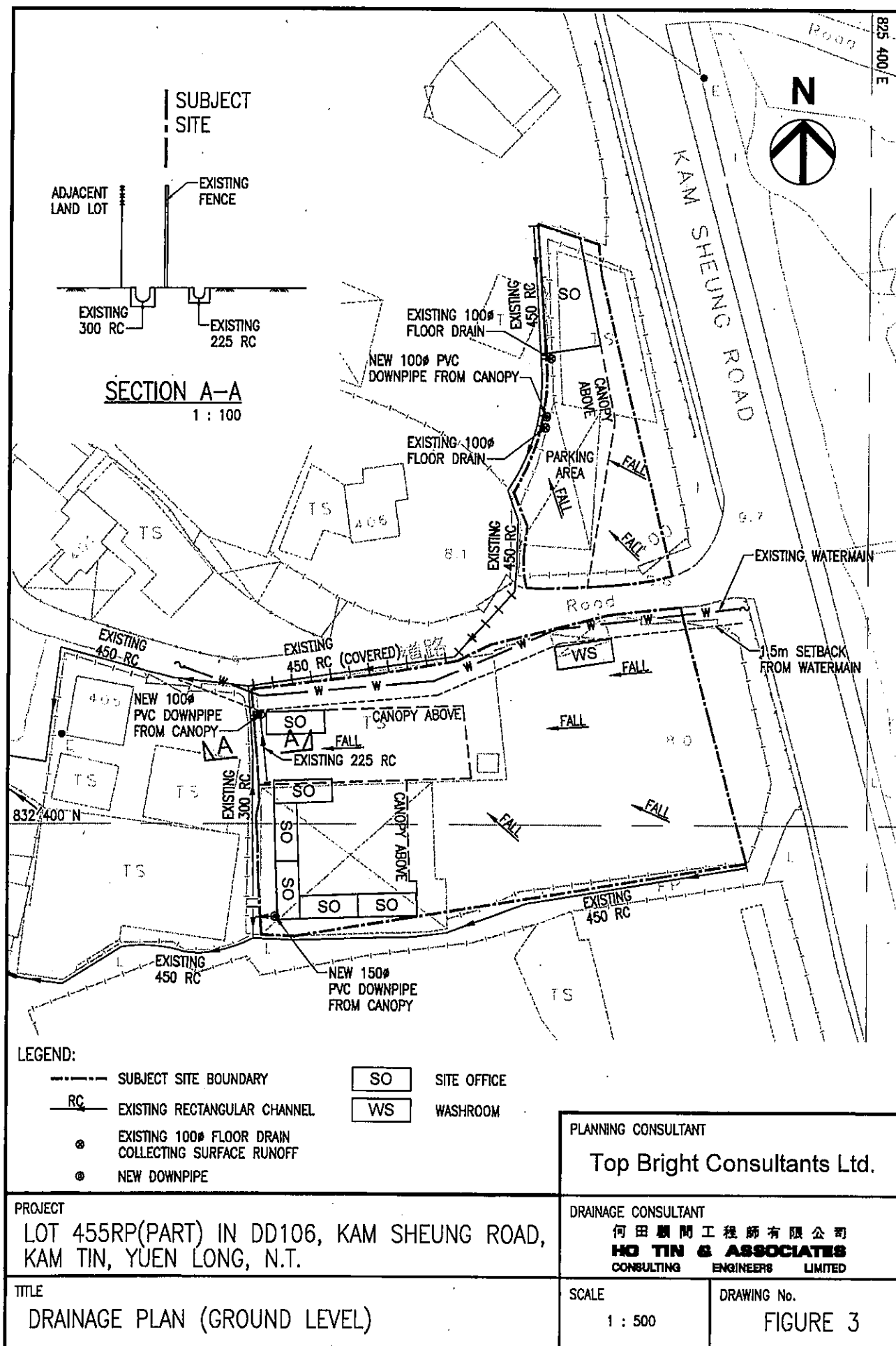
7. Conclusion and Recommendations

- 7.1 The subject development will be for temporary use for a period of three years. It is now served by existing channels in the area. The conditions of the subject site will not be changed except some minor alteration of the shelters/container office to match with the layout in the approved planning application. Capacities of the existing adjacent channels have been checked being capable to receive the surface runoff from the subject site. Finally, the applicant is committed to be responsible to obtain consent, if necessary, of discharging surface runoff into the existing adjacent channels.
- 7.2 In conclusion, the subject development with implementation of the identified drainage works will not cause any adverse drainage impacts onto the area.



LEGEND: --- SUBJECT SITE BOUNDARY --- EXISTING WATERCOURSE --- EXISTING RECTANGULAR CHANNEL	← PROPOSED DISCHARGE POINT --- SUBCATCHMENT BOUNDARY 1513m² (A1) SUBCATCHMENT NUMBER AND AREA	PROJECT LOT 455RP(PART) IN DD106, KAM SHEUNG ROAD, KAM TIN, YUEN LONG, N.T. TITLE STORMWATER DISCHARGING ROUTE OF SUBJECT SITE	PLANNING CONSULTANT Top Bright Consultants Ltd.	DRAINAGE CONSULTANT 何田顧問工程有限公司 HO TIN & ASSOCIATES ENGINEERS LIMITED	SCALE 1 : 750 DRAWING No. FIGURE 1
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APPENDIX -

Hydraulic Assessment

USCPSUMH	DISCPSUMH	USGL	DSGL	USIL	DSIL	INVERT DIFF.	LENGTH (m)	SLOPE S	SLOPE 1 IN	t_0 (min)	t_0 (*U) (min)	RAINFALL INTENSITY (mm/hr)	RAINFALL INCLUDING EFFECT OF CLIMATE CHANGE (mm/hr)	RUNOFF COEF. C	SUB- CATCHMENT AREA (m ²)	EFF. AREA (m ²)	CUL. EFF. AREA (m ²)	DESIGN FLOW (m ³ /s)	SIZE (mm)	Channel Type	VEL (m/s)	FLOW CAPACITY (m ³ /s)	SPARE CAPACITY (m ³ /s)	
Branch from Subcatchment A																								
1.1a	1.1b	8.20	7.50	7.75	7.45	0.30	83.00	0.004	230	2.00	2.80	291.59	321.91	0.95	2.664	2.721	2.721	0.243	450	RC	1.43	0.29	0.046	
1.2a	1.1b	8.10	7.50	7.80	7.60	0.20	23.00	0.009	115	2.00	2.25	301.94	333.34	0.85	1.513	1.437	1.437	0.133	300	RC	1.55	0.14	0.006	
1.1b	1.1c	7.90	7.30	7.45	5.85	0.60	79.00	0.008	132	2.60	3.50	280.18	309.32	0.95	0	0	4.158	0.358	450	RC	1.89	0.38	0.026	
Branch from Subcatchment B																								
2.1a	2.1b	9.30	8.60	8.85	8.35	0.50	78.00	0.006	156	2.00	2.75	292.57	322.99	0.95	2.558	2.430	2.430	0.218	450	RC	1.74	0.35	0.134	

Drainage Plan Submission for Lot 455RP (Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
Responses to Comments given by DSD

	<i>DSD/MN's comments</i>	<i>Applicant's responses</i>
(i)	In view of the flow direction, it seems that the surface runoff would be blocked by the structures as shown in hatched lines. Please review and provide adequate drainage facilities	The hatched lines show the roof-over areas under which there may not have any solid wall obstructing the surface runoff. In order to avoid confusion, drainage plans of roof level and ground level are prepared and submitted for vetting. Besides, site photos showing the existing site conditions are also submitted.
(ii)	The existing drainage facilities, to which the stormwater of the development from the subject site would discharge, are not maintained by this office. The applicant should identify the owner of the existing drainage facilities to which the proposed connection will be made and obtain consent from the owner prior to commencement of the proposal works. In the case that it is a local village drains, DO/YL should be consulted.	Stormwater of the development from the subject site would discharge into the existing drainage facilities same as present. The existing drainage facilities have been legitimately used by all the locals since their existence. Besides, the development of the subject site does not need to make any new connection at the existing drainage.
(iii)	The applicant should check and ensure the hydraulic capacity of the existing drainage facilities would not be adversely affected by the captioned development.	Calculations are enclosed in this submission.
(iv)	Cross section showing the existing and proposed ground levels of the captioned site with respect to the adjacent areas should be given. Please advise the location and details of the proposed hoarding/peripheral wall.	The existing and proposed ground levels of the subject site are the same. Cross sections showing the existing and proposed ground levels of the captioned site with respect to the adjacent areas and location of the proposed hoarding are submitted.

Drainage Plan Submission for Lot 455RP (Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories
Responses to Comments given by DSD

	<i>DSD/MN's comments</i>	<i>Applicant's responses</i>
(v)	The development should neither obstruct overland flow nor adversely affect existing natural streams, village drains, ditches and the adjacent areas, etc.	There are existing 300 to 450 U-channels at the peripheral of the subject site and no new connection will be required. Therefore, the subject development would neither obstruct overland flow nor adversely affect existing natural streams, village drains, ditches and the adjacent areas, etc. (please refer to the submitted calculation).
(vi)	The applicant should consult DLO/YL and seek consent from the relevant owners for any drainage works to be carried out outside his lot boundary before commencement of the drainage works.	The requirement is noted. However, there will be no drainage works to be carried out outside the lot boundary.

FIRE SERVICES NOTES:

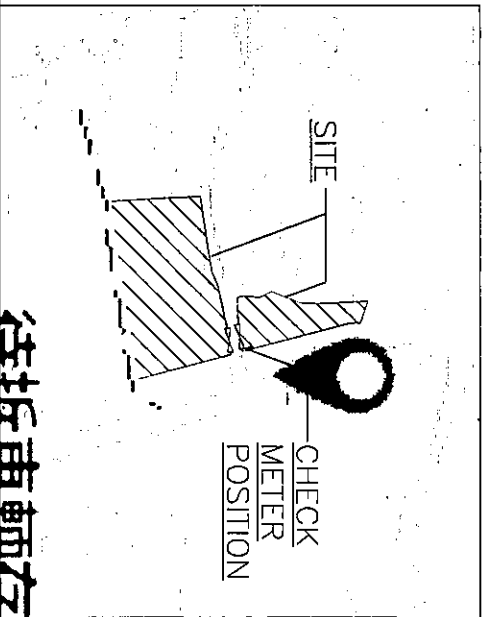
1. HOSE REEL SYSTEM
 - 1.1 HOSE REEL SHALL BE PROVIDED AT POSITIONS AS INDICATED ON PLANS.
 - 1.2 THERE SHALL BE SUFFICIENT HOSE REELS TO ENSURE THAT EVERY PART OF THE BUILDING CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30M OF HOSE REEL TUBING. ONE ACTUATING POINT AND ONE AUDIO WARNING DEVICE TO BE LOCATED AT EACH HR POINT. THE ACTUATING POINT SHOULD INCLUDE FACILITIES FOR THE FIRE PUMP START DEVICE INITIATION.
 - 1.3 A MODIFIED HOSE REEL SYSTEM OF 2,000 LITRES WATER TANK TO BE PROVIDED FOR THE ENTIRE BUILDING AS INDICATED ON PLAN.
 - 1.4 NO FIRE SERVICES INLET TO BE PROVIDED FOR THE MODIFIED HOSE REEL SYSTEM.
 - 1.5 TWO FIXED FIRE PUMPS (DUTY/STANDBY) TO BE PROVIDED AT F.S. PUMP ROOM.
 - 1.6 THE HOSE REEL SYSTEM INSTALLED SHOULD BE IN ACCORDANCE WITH PARA. 5.14 OF THE CODE OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATION AND EQUIPMENT 2012.
 - 1.7 AN INSTRUCTION PLATE SHALL BE PROVIDED NEXT TO THE BREAK GLASS UNIT FOR OPERATION OF HOSE REEL.

2. MISCELLANEOUS

- 2.1 ALL EQUIPMENT USED IN THE INSTALLATION SHALL BE OF THE APPROVED TYPE AND APPROVED MAKE BY THE H.K.F.S.D.
- 2.2 ALL OVER FLOW PIPE OF WATER TANKS SHALL BE DISCHARGED IN A CONSPICUOUS POSITION TO THE COMMUNAL AREA WHERE IT IS EASILY VISIBLE AND ACCESSIBLE BY THE OCCUPANTS.
- 2.3 ALL ABOVE GROUND PIPEWORKS UP TO INCLUDING Ø150mm SHALL BE GALVANIZED MILD STEEL (G.M.S.) PIPES TO BS 1387 / BS EN 10255 MEDIUM GRADE AND JOINTED WITH SCREWED FITTINGS, SCREWED FLANGES, OR SCREWED UNIONS.
- 2.4 ALL UNDERGROUND PIPEWORKS UP TO AND INCLUDING Ø150mm SHALL BE GALVANIZED MILD STEEL (G.M.S.) PIPE TO BS 1387 / BS EN 10255 HEAVY GRADE AND JOINTED WITH SCREWED FITTINGS, SCREWED FLANGES, OR SCREWED UNIONS.
- 2.5 ALL PIPEWORKS FROM Ø150mm UPWARDS SHALL BE DUCTILE IRON (D.I.) TO BS 4722 AND JOINTED WITH FLANGE AND FLANGED FITTINGS.
- 2.6 ALL COPPER ALLOY GATE VALVE SHALL CONFORM TO BS 5154 AND CHECK VALVES CONFORM TO BS 5153.
- 2.7 ALL BALL FLOAT VALVES SHALL CONFORM TO BS 1221, PART 1.
- 2.8 NO WATER PIPE SHALL BE EMBEDDED WITHIN LOAD BEARING STRUCTURAL ELEMENTS SUCH AS COLUMNS, BEAMS AND SLABS IN LONGITUDINAL DIRECTION.

ABBREVIATION

SPR.	SPRINKLER
F.H.	FIRE HYDRANT
H.R.	HOSE REEL
F.E.	FIRE EXTINGUISHER
CQ.	CARBON DIOXIDE
L.P.C.	LOSS PREVENTION COUNCIL
F.S.I.	FIRE SERVICES INSTALLATION
H/L	HIGH LEVEL
M/L	MID LEVEL
L/L	LOW LEVEL
F/A	FROM ABOVE
F/B	FROM BELOW
T/A	TO ABOVE
T/B	TO BELOW
U/G	UNDERGROUND
F.S.	FIRE SERVICES



LEGEND (FOR SCHEMATIC DIAGRAM)

	HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT
	150mm FIRE ALARM BELL
	BREAK GLASS UNIT
	GATE VALVE
	NON RETURN VALVE
	BALL FLOAT VALVE
	PRESSURE SWITCH
	PRESSURE GAUGE WITH COCK
	AUTOMATIC AIR VENT WITH COCK
	HOSE REEL PIPE
	LEVEL SWITCH (HIGH LEVEL SIGNAL & LOW LEVEL SIGNAL)
	FLEXIBLE CONNECTOR
	CHECK METER POSITION
	PLUG
	Y-STRAINER

LEGEND (FOR LAYOUT PLAN)

	HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT
	150mm FIRE ALARM BELL
	BREAK GLASS UNIT
	GATE VALVE
	NON RETURN VALVE
	BALL FLOAT VALVE
	PRESSURE SWITCH
	HOSE REEL PIPE
	CHECK METER POSITION
	4KG DRY POWDER TYPE FIRE EXTINGUISHER
	5KG CO2 TYPE FIRE EXTINGUISHER
	SAND BUCKET
	PUMP
	EMERGENCY LIGHTING
	EXIT SIGN
	MANUAL TYPE FIRE ALARM PANEL
	PUMP PANEL WITH WATERPROOF ENCLOSURE

DRAWING LIST

DRAWING NO.	DESCRIPTION
EP-20010-FS01	FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST
EP-20010-FS02	PROPOSED FSI LAYOUT PLAN
EP-20010-FS03	SCHEMATIC DIAGRAM FOR HOSE REEL SYSTEM

East Power Engineering Limited

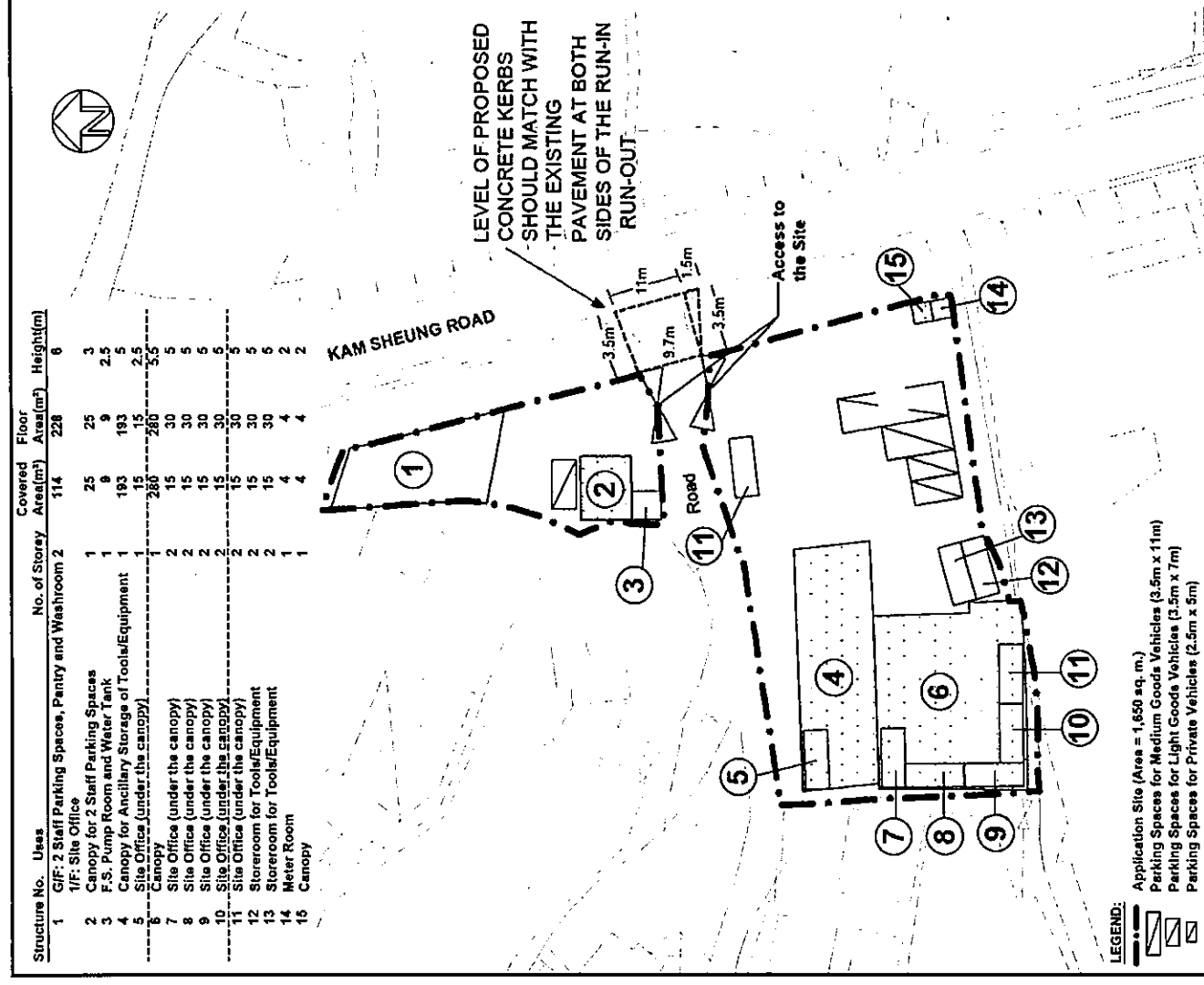
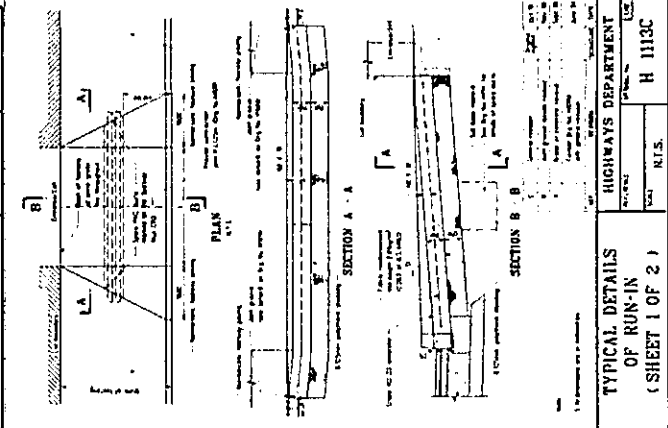
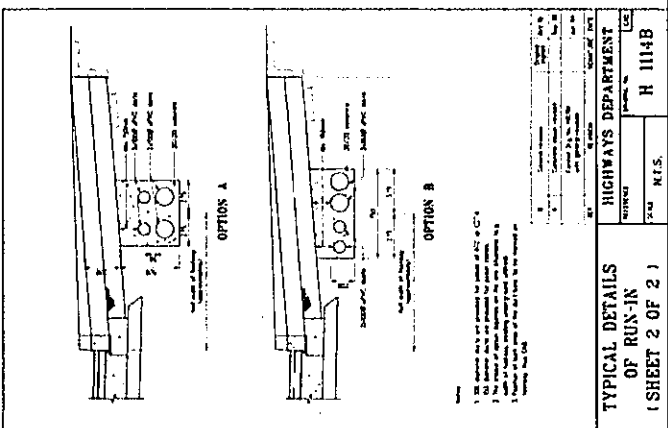
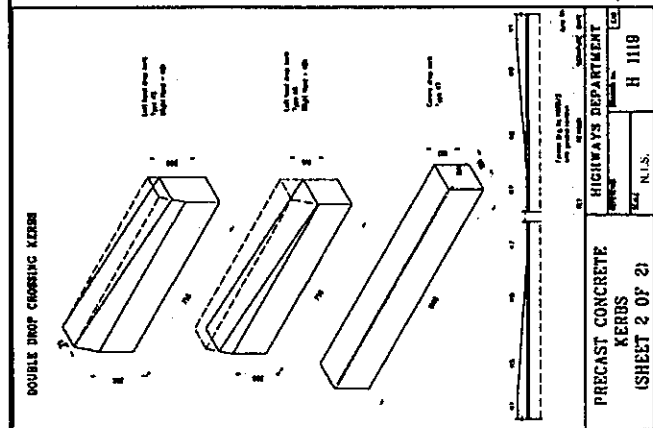
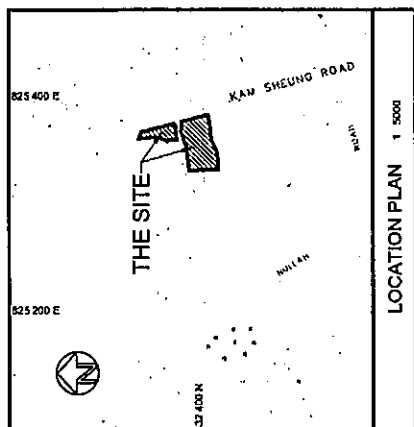


PROJECT
TEMPORARY SITE OFFICE AND SERVICE DEPOT FOR DRAINAGE AND SEWERAGE WORKS FOR A PERIOD OF 3 YEARS AT LOT 455 (R/PART) IN D.D. 106, KAM SHEUNG ROAD, KAM TIN, YUEN LONG, N.T.

DRAWING TITLE

FS NOTE, LEGEND, ABBREVIATIONS, DRAWING LIST

INITIAL	DESIGNATION	DATE
CD	CD	14-05-2020
CH	S. Eng	14-05-2020
CM	PM	14-05-2020
CM	PM	14-05-2020
PROJECT NO.	20010	
PAPER SIZE	A3	PLOT SCALE 1:1
DRAWING NO.	EP-20010-FS01	
SCALE	N. T. S.	REGION 8



HANG TONE

PROJECT: LOT 455RP(PART) IN DD106, KAM SHEUNG ROAD, KAM TIN, YUEN LONG, N.T.

TITLE: PROPOSED RUN-IN / RUN-OUT PLAN AT KAM SHEUNG ROAD

SCALE: 1:500 OR AS SHOWN - A3

DRAWING No.: HT21100/RD01-A

Application No. A/YL-KTS/984

Compliance with approval conditions (h) and (i) –the implementation of the run-in/out proposal at Kam Sheung Road



Application No. A/YL-KTS/984

Compliance with approval conditions (h) and (i) –the implementation of the run-in/out proposal at Kam Sheung Road



Application No. A/YL-KTS/984

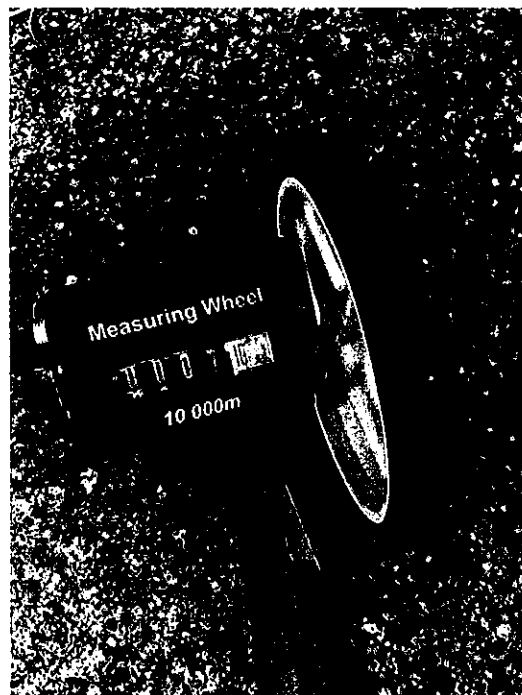
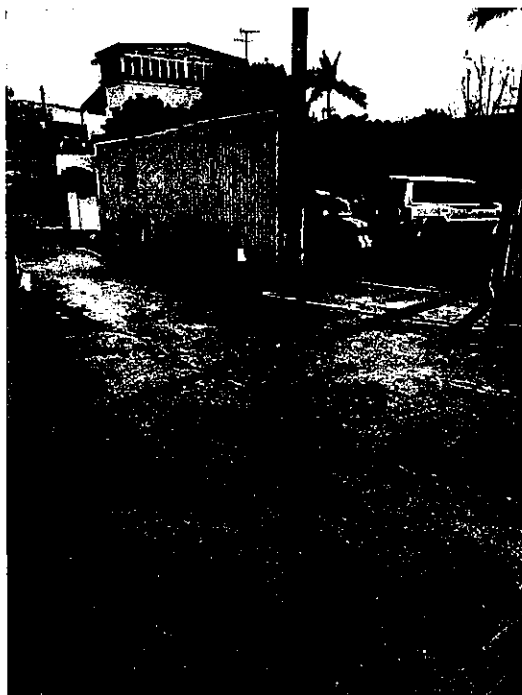
Compliance with approval conditions (h) and (i) –the implementation of the run-in/out proposal at Kam Sheung Road



Application No. A/YL-KTS/984

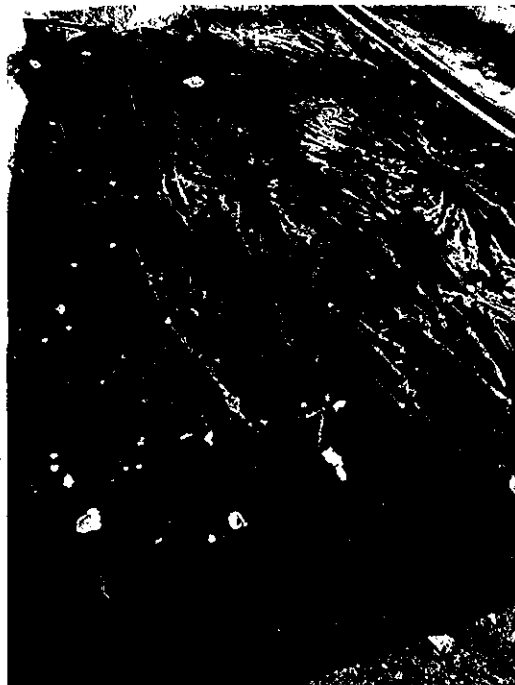
Compliance with approval conditions (h) and (i) –the implementation of the run-in/out proposal at Kam Sheung Road

The applicant provide measurements to demonstrate that the as-built vehicular access tailies with the proposal.



Application No. A/YL-KTS/984

Compliance with approval conditions (h) and (i) –the implementation of the run-in/out proposal at Kam Sheung Road



Application No. A/YL-KTS/984

Compliance with approval conditions (h) and (i) –the implementation of the run-in/out proposal at Kam Sheung Road



Application No. A/YL-KTS/984

Compliance with approval conditions (h) and (i) –the implementation of the run-in/out proposal at Kam Sheung Road



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Application No. A/YL-KTS/984

Compliance with approval conditions (h) and (i) –the implementation of the run-in/out proposal at Kam Sheung Road





中國混凝土有限公司
CHINA CONCRETE COMPANY LTD.



Concrete Technical Submission

Reference No. : CCC/Ts/J/220107-2
Date : 7th January 2022
Client : Hang Tone Drainage Engineering Limited
Project : Minor Works at No. 400 Ng Ka Tsuen, Kam Tin,
Yuen Long, N.T.
Main Plant : Sha Ling Plant
Back-up Plants : Lei Yue Mun Plant
Yau Tong Plant

Contents

Section 1	: Concrete Mix Proportions
Section 2	: Reports on Aggregate Tests
Section 3	: Combined Grading Curve
Section 4	: Admixture Test Reports & Uniformity Test Certificates
Section 5	: Cement Test Certificates
Section 6	: Water Test Reports
Section 7	: Alkali-Aggregate Reaction (AAR) Calculation
Section 8	: Concrete Mix Chloride Content Calculation
Section 9	: Concrete Mix Sulphate Content Calculation
Section 10	: HKQAA / ACI Certificate of Registration
Section 11	: Trial Mix Reports



中國混凝土有限公司
CHINA CONCRETE COMPANY LTD.



Concrete Mix Proportions

Our Reference : CCC/TS/J220107-2
Client : Hang Tone Drainage Engineering Limited
Project : Minor Works at No. 400 Ng Ka Tsuen, Kam Tin, Yuen Long, N.T.
Main Plant : Sha Ling Plant - DD 89 Lot 551 SB & RP, Man Kam To Road, Sha Ling, NT.
Back-up Plants : Lai Yue Mun Plant - 20 Tung Yuen Street, Yau Tong, Kowloon
Yau Tong Plant - 22 Tung Yuen Street, Yau Tong, Kowloon

Date: 7/1/2022

Material		Source			
Cement - OPC	New Smart Enterprise Ltd. - Ube Industries Ltd. (Ube Cement)				
Pulverized Fuel Ash - PFA	HMW Construction Materials Co., Ltd. - Cam Pha Cement Plant				
Aggregate - 20mm / 10mm / CRF	Giant Elegant Ltd. - Jiang Men City Xin Ning Quarry Co., Ltd.				
Water	Government Mains - Water Supplies Department				
Admixtures	Sobute (P.L.C.) New Materials Co., Ltd.		5. PCA-VR (Viscosity Reduction)		
	1. Concrete (Retarder)		6. Hydralite (Waterproofing)		
	2. JM-XI(B) (Superplasticizer)				
	3. PCA-1 (Superplasticizer)				
4. Concreteprool (Waterproofing)					
Batch Proportions (kg/m ³)					
Mix	40D/20	40D/20	30D/20	30D/20	
Slump (mm)	OPC	180	75	100	75
	PFA	440	420	355	340
	20mm	655	700	675	720
	10mm	320	340	330	350
	CRF	700	680	745	720
	Water	200	190	197	190
	1	2.35 ± 1.18	2.25 ± 1.35	1.90 ± 0.95	1.82 ± 0.81
	2	2.50 ± 2.00	-	2.50 ± 2.00	-
Admixtures	3	-	-	-	-
	4	-	-	-	-
	5	-	-	-	-
	6	-	-	-	-
	7	-	-	-	-
	8	-	-	-	-
	A/C	3.81	4.10	4.93	5.26
W/C	0.45	0.45	0.55	0.56	

Remarks: 1. The aggregates are based on saturated surface dry conditions (SSD)
2. The dosages of admixtures are within the manufacturers' recommendation
3. The design standard deviation of 6.0MPa is based on the corresponding quality procedures
4. Concrete shall be discharged in its final position within 2 1/2 hours from time of cement added
5. Should there be no adverse comment on the above is received within 14 days from the date of this submission, the acceptance of this submission is deemed

Wm

Danry Lee
Technical Engineer

Section 1 Concrete Mix Proportions

TEST REPORT

Report no.:	01428A100170	Date issued:	16-Nov-2021	Page no.:	1 of 1
Test description:	Aggregate Particle Size Distribution Test				
Test method:	CS1:2013 Section 10				

Information Supplied by Customer

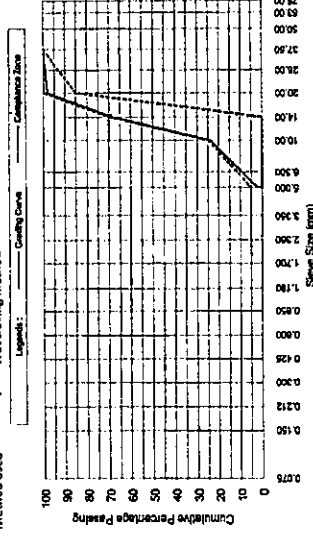
Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 133 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 20mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID. : AGG-XN-211007001

Laboratory Information and Test Results

Date received : 08-Oct-2021
 Date tested : 12-Oct-2021
 Sample Mass as Received : 25kg
 Lab. Sample ID : A100170/1

Mass of the extraneous material not representative of the bulk: NIL

Method used : Wet sieving method



Sieve Size (mm)	Cumulative Passing (%)	Compliance Zone
37.5	100	CS1:2013 Section 3 Table 3.1
20.0	96	85-100
14.0	68	0-70
10.0	24	0-25
5.0	2	0-5

Finest	CS1:2013 Table 3.3
Content	Limits for fines content (passing 75 µm test sieve)
0.5%	Coarse aggregates
	Maximum 4%

Remarks:

- The test results relate only to the sample tested.
- The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked by: 

Approved Signatory: 

KWOK CH WAI (Technical Manager)

End of Report **

End of Report **

Section 2

Reports on Aggregate Tests

TEST REPORT

Report no.:	01428A100170-1	Date issued:	16-Nov-2021	Page no.:	1 of 1
Test description:	Aggregate Particle Size Distribution Test				
Test method:	CS3 : 2013 Section 10				

Information Supplied by Customer

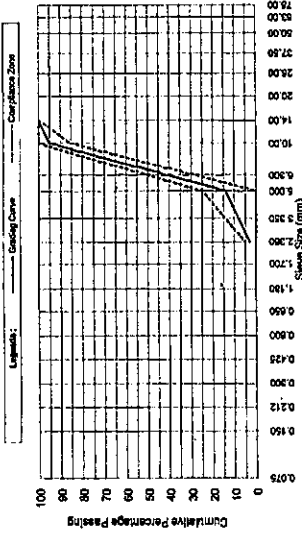
Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 10mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID. : AGG-XN-211007001

Laboratory Information and Test Results

Date received : 08-Oct-2021
 Date tested : 12-Oct-2021
 Sample Mass as Received : 25kg
 Lab. Sample ID : A100170/2

Mass of the extraneous material not representative of the bulk : NIL

Method used : Wet sieving method



Sieve Size (mm)	Cumulative Passing (%)	Compliance Zone (%)
14.0	100	100
10.0	95	85-100
5.0	14	0-25
2.36	3	0-5
0.75	0	0-5
0.425	0	0-5
0.25	0	0-5
0.15	0	0-5
0.075	0	0-5

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked by :

Approved Signatory :

KWOK CHI WA (Technical Manager)

AD0023 (08-09-2021)

** End of Report **

TEST REPORT

Report no.:	01428A100170-2	Date issued:	16-Nov-2021	Page no.:	1 of 1
Test description:	Aggregate Particle Size Distribution Test				
Test method:	CS3 : 2013 Section 10				

Information Supplied by Customer

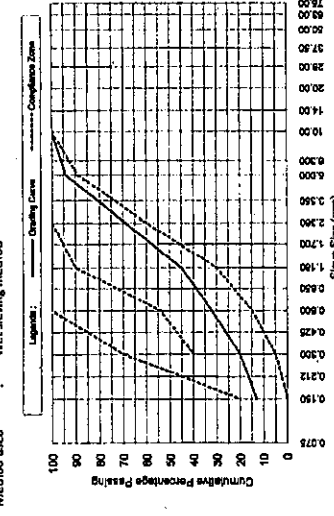
Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : Crushed Rock Fines
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID. : AGG-XN-211007001

Laboratory Information and Test Results

Date received : 08-Oct-2021
 Date tested : 12-Oct-2021
 Sample Mass as Received : 25kg
 Lab. Sample ID : A100170/3

Mass of the extraneous material not representative of the bulk : NIL

Method used : Wet sieving method



Sieve Size (mm)	Cumulative Passing (%)	Compliance Zone (%)
10.0	100	100
7.5	94	89-100
5.0	69	60-100
2.36	45	30-90
1.18	33	15-54
0.600	20	5-20
0.300	13	0-20
0.150	13	0-20
0.075	13	0-20

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked by :

Approved Signatory :

KWOK CHI WA (Technical Manager)

AD0023 (08-09-2021)

** End of Report **

TEST REPORT	
Report no.: 0142BA100170-3	Date issued: 16-Nov-2021
Page no.: 1 of 1	
Test description: FLAKINESS INDEX OF AGGREGATE	
Test method: CS3 :2013 Section 11	

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 20mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID.: AGG-XN-211007001

Laboratory Information and Test Results

Date received : 08-Oct-2021
 Date tested : 12-Oct-2021
 Lab. Sample ID : A100170/1
 Test location : Main Laboratory

1. Sieve Analysis

BS Sieve Size	Weight Retained (g)	Percentage Retained (%)	Weight for Flakiness Index (g)	Weight Passing Thickness Gauge (g)
50.0	0.0	0.0	-	-
37.5	0.0	0.0	-	-
28.0	0.0	0.0	-	-
20.0	38.0	1.7	-	-
14.0	690.5	31.0	690.5	117.0
10.0	1016.5	45.6	1016.5	93.7
6.3	484.4	21.7	484.4	19.6
Total	2229.4	-	2191.4	230.3

2. Determination of Flakiness Index

Flakiness Index = 11

Requirement: CS3 :2013 Section 3 Cl.3.3.1: (i) ≤30 for coarse natural aggregate

(ii) ≤40 for coarse recycled aggregate

Remarks: 1. The test results relate only to the sample tested.

2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By :  Approved Signatory:  KWOK Chi Wa (Technical Manager)

A003R108-10-2020

** End of Report **

Unless otherwise specified, the location of the test in this report is in Hong Kong.
 HKAS has accredited Material Tech Company Limited (Reg. No. HKQLAS 274) under Hong Kong Laboratory Accreditation Scheme (HKQLAS) for specific laboratory activities as listed in the HKQLAS directory of accredited laboratories. This report shall not be reproduced except in full with prior written approval from the issuing laboratory.

A003 (28-09-2021)

TEST REPORT	
Report no.: 0142BA100170-4	Date issued: 16-Nov-2021
Page no.: 1 of 1	
Test description: FLAKINESS INDEX OF AGGREGATE	
Test method: CS3 :2013 Section 11	

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 10mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID.: AGG-XN-211007001

Laboratory Information and Test Results

Date received : 08-Oct-2021
 Date tested : 12-Oct-2021
 Lab. Sample ID : A100170/2
 Test location : Main Laboratory

1. Sieve Analysis

BS Sieve Size	Weight Retained (g)	Percentage Retained (%)	Weight for Flakiness Index (g)	Weight Passing Thickness Gauge (g)
50.0	0.0	0.0	-	-
37.5	0.0	0.0	-	-
28.0	0.0	0.0	-	-
20.0	0.0	0.0	-	-
14.0	0.0	0.0	-	-
10.0	47.5	7.2	47.5	0.0
6.3	611.7	92.8	611.7	85.3
Total	659.2	-	659.2	85.3

2. Determination of Flakiness Index

Flakiness Index = 13

Requirement: CS3 :2013 Section 3 Cl.3.3.1:

≤30 for coarse natural aggregate

≤40 for coarse recycled aggregate

Remarks: 1. The test results relate only to the sample tested.

2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By :  Approved Signatory:  KWOK Chi Wa (Technical Manager)

A003R108-10-2020

** End of Report **

Unless otherwise specified, the location of the test in this report is in Hong Kong.
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A003 (28-09-2021)

TEST REPORT	
Report no.: 01428A100170-5	Date issued: 16-Nov-2021 Page no.: 1 of 1
Test description: ELONGATION INDEX OF AGGREGATE	
Test method: CS3: 2013 Section 12	

Information Supplied by Customer:

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 20mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID.: AGG-XN-211007001

Laboratory Information and Test Results

Date received : 08-Oct-2021
 Date tested : 11-Oct-2021
 Lab. Sample ID : A100170/1
 Test location : Main Laboratory

1. Sieve Analysis

BS Sieve Size	Weight Retained (g)	Percentage Retained (%)	Weight for Elongation Index (g)	Weight Retained on Elongation Gauge (g)
50.0	0.0	0.0	-	-
37.5	0.0	0.0	-	-
28.0	0.0	0.0	-	-
20.0	38.0	1.7	-	-
14.0	690.5	31.0	690.5	69.3
10.0	1016.5	45.6	1016.5	192.0
6.3	484.4	21.7	484.4	207.8
Total	2229.4	-	2191.4	469.1

2. Determination of Elongation Index

Elongation Index = 21

Requirement of CS 3 : Section 3 Cl. 3.3.2 : ≤ 35 for coarse natural aggregate

Remarks: 1. The test results relate only to the sample tested.

2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By :  Approved Signatory:  KWOK Chi Wa (Technical Manager)

A004R1(08-20-2020)

** End of Report **

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A0023 (08-09-2021)

TEST REPORT	
Report no.: 01428A100170-6	Date issued: 16-Nov-2021 Page no.: 1 of 1
Test description: ELONGATION INDEX OF AGGREGATE	
Test method: CS3: 2013 Section 12	

Information Supplied by Customer:

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 10mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID.: AGG-XN-211007001

Laboratory Information and Test Results

Date received : 08-Oct-2021
 Date tested : 11-Oct-2021
 Lab. Sample ID : A100170/2
 Test location : Main Laboratory

1. Sieve Analysis

BS Sieve Size	Weight Retained (g)	Percentage Retained (%)	Weight for Elongation Index (g)	Weight Retained on Elongation Gauge (g)
50.0	0.0	0	-	-
37.5	0.0	0	-	-
28.0	0.0	0	-	-
20.0	0.0	0	-	-
14.0	0.0	0	-	-
10.0	47.5	7.2	47.5	0.0
6.3	611.7	92.8	611.7	109.7
Total	659.2	-	659.2	109.7

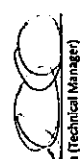
2. Determination of Elongation Index

Elongation Index = 17

Requirement of CS 3 : Section 3 Cl. 3.3.2 : ≤ 35 for coarse natural aggregate

Remarks: 1. The test results relate only to the sample tested.

2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By :  Approved Signatory:  KWOK Chi Wa (Technical Manager)

A004R1(08-10-2020)

** End of Report **

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A0023 (08-09-2021)

TEST REPORT	
Report no.: 01428A100170-16	Date issued: 16-Nov-2021
Page no.: 1 of 1	
Test description: TEN PERCENT FINES VALUE OF AGGREGATE	
Test method: CS3:2013 Section 16	

Information Supplied by Customer

Customer : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 10mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID. : ASG-XN-211007001

Laboratory Information and Test Result

Lab. Sample ID : A100170/2
 Date received : 08-Oct-2021
 Date tested : 21-Oct-2021
 Test specimens were prepared by passing 10mm test sieve and retained on 6.3mm test sieve
 Test sieve for separating fines : 1.7mm
 Condition of aggregate at test : Dry

Ten per cent fines value of the dry aggregate (IPV)	190	kN
Requirement of CS3 : 2013 Section 4 C 4.2.3	≥ 100	kN

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By :  Approved Signatory:  KWOK CHI WA (Technical Manager)

A00981(06-10-2020) ** End of Report **

TEST REPORT	
Report no.: 01428A100170-15	Date issued: 16-Nov-2021
Page no.: 1 of 1	
Test description: TEN PERCENT FINES VALUE OF AGGREGATE	
Test method: CS3:2013 Section 16	

Information Supplied by Customer

Customer : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 20mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID. : ASG-XN-211007001

Laboratory Information and Test Result

Lab. Sample ID : A100170/1
 Date received : 08-Oct-2021
 Date tested : 21-Oct-2021
 Test specimens were prepared by passing 14mm test sieve and retained on 10mm test sieve
 Test sieve for separating fines : 2.36mm
 Condition of aggregate at test : Dry

Ten per cent fines value of the dry aggregate (IPV)	170	kN
Requirement of CS3 : 2013 Section 4 C 4.2.3	≥ 100	kN

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By :  Approved Signatory:  KWOK CHI WA (Technical Manager)

A00981(06-10-2020) ** End of Report **



TEST REPORT

Report no.: 01428A100170-11 Date issued: 16-Nov-2021 Page no.: 1 of 1

Test description: RELATIVE DENSITY & WATER ABSORPTION OF AGGREGATE

Test method: CS3:2013 Section 17 (Gas Jar Method)

Information Supplied by Customer

Customer name : Giant Elegant Ltd
Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
Project : Material Evaluation
Source : Xin Ning Quarry
Place of sampling : -
Sample description : 10mm Coarse Aggregate
Date of sampling : 07-Oct-2021
Customer Ref. : -
Customer sample ID : AGG-XN-211007001

Laboratory Information and Test Result

Lab. sample ID : A100170/2
Date received : 08-Oct-2021
Date tested : 12-Oct-2021

Weight of Vessel Filled with Sample & Water	(b)	2441.7 (g)	2491.9 (g)
Weight of Vessel Filled with Water	(c)	1763.9 (g)	1777.7 (g)
Weight of Saturated Surface Dry Sample	(A)	1097.5 (g)	1155.4 (g)
Weight of Oven-dried Sample	(D)	1091.3 (g)	1149.2 (g)
Particle Density	D	2.60	2.60
on an Oven-dried Basis (Mg/m³)	A - (B - C)	2.61	2.62
Particle Density on a Saturated and Surface-dried Basis (Mg/m³)	A - (B - C)	2.62	2.62
Apparent Particle Density (Mg/m³)	D - (B - C)	2.64	2.64
Water Absorption (% of dry weight)	100 (A - D) / D	0.5 (%)	0.5 (%)
Requirement of CS 3 : 2013 Section 4 Cl. 4.3.1 & 4.3.2		0.6 (%)	0.6 (%)
Oven Dry particle density			≥ 2000 kg/m³
Water absorption of coarse natural aggregate			≤ 0.8%
Water absorption of coarse recycled aggregate			≤ 10%

Remarks: 1. The test results relate only to the sample tested.
2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.
3. The test sample was not artificially heated before the start of the test.

Checked By : Approved Signatory : KWOK Chi Wa (Technical Manager)

A013R1(08-10-2020)

** End of Report **

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A0022 (04-09-2021)



TEST REPORT

Report no.: 01428A100170-10 Date issued: 16-Nov-2021 Page no.: 1 of 1

Test description: RELATIVE DENSITY & WATER ABSORPTION OF AGGREGATE

Test method: CS3:2013 Section 17 (Gas Jar Method)

Information Supplied by Customer

Customer name : Giant Elegant Ltd
Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
Project : Material Evaluation
Source : Xin Ning Quarry
Place of sampling : -
Sample description : 20mm Coarse Aggregate
Date of sampling : 07-Oct-2021
Customer Ref. : -
Customer sample ID : AGG-XN-211007001

Laboratory Information and Test Result

Lab. sample ID : A100170/1
Date received : 08-Oct-2021
Date tested : 12-Oct-2021

Weight of Vessel Filled with Sample & Water	(b)	2483.6 (g)	2503.9 (g)
Weight of Vessel Filled with Water	(c)	1784.7 (g)	1764.8 (g)
Weight of Saturated Surface Dry Sample	(A)	1131.9 (g)	1196.2 (g)
Weight of Oven-dried Sample	(D)	1126.0 (g)	1190.1 (g)
Particle Density	D	2.60	2.60
on an Oven-dried Basis (Mg/m³)	A - (B - C)	2.61	2.62
Particle Density on a Saturated and Surface-dried Basis (Mg/m³)	A - (B - C)	2.62	2.62
Apparent Particle Density (Mg/m³)	D - (B - C)	2.64	2.64
Water Absorption (% of dry weight)	100 (A - D) / D	0.5 (%)	0.5 (%)
Requirement of CS 3 : 2013 Section 4 Cl. 4.3.1 & 4.3.2		0.5 (%)	0.5 (%)
Oven Dry particle density			≥ 2000 kg/m³
Water absorption of coarse natural aggregate			≤ 0.8%
Water absorption of coarse recycled aggregate			≤ 10%

Remarks: 1. The test results relate only to the sample tested.
2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.
3. The test sample was not artificially heated before the start of the test.

Checked By : Approved Signatory : KWOK Chi Wa (Technical Manager)

A013R1(08-10-2020)

** End of Report **

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A0023 (04-09-2021)

TEST REPORT

Report no. : 01428A100170-12	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : RELATIVE DENSITY & WATER ABSORPTION OF AGGREGATE		
Test method : CS3:2013 Section 17 (Gas Jar Method)		

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : Crushed Rock Fines
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer sample ID : AGG-XN-211007001

Laboratory Information and Test Results

Lab. sample ID : A100170/3
 Date received : 08-Oct-2021
 Date tested : 12-Oct-2021

Weight of Vessel Filled with Sample & Water	(g)	2379.4	(g)	2360.4	(g)
Weight of Vessel Filled with Water	(g)	1784.7	(g)	1764.8	(g)
Weight of Saturated Surface Dry Sample	(g)	962.9	(g)	963.5	(g)
Weight of Oven-dried Sample	(g)	957.5	(g)	958.2	(g)
Particle Density		2.60		2.60	
on an Oven-dried Basis (Mg/m ³)	A - (B - C)	2.62		2.62	
Particle Density on a Saturated and	A	2.62		2.62	
Surface-dried Basis (Mg/m ³)	A - (B - C)	2.64		2.64	
Apparent Particle Density (Mg/m ³)	D	2.64		2.64	
Water Absorption	100 (A - D)	0.6	(%)	0.6	(%)
(% of dry weight)	D	0.6		0.6	
Oven Dry particle density	Requirement of CS 3 : 2013 Section 4 Cl. 4.3.1 & 4.3.2	≥ 2000 kg/m ³		≥ 2000 kg/m ³	
Water absorption of coarse natural aggregate		≤ 0.8%		≤ 0.8%	
Water absorption of coarse recycled aggregate		≤ 10%		≤ 10%	

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.
 3. The test sample was not artificially heated before the start of the test.

Checked By :  Approved Signatory :  KWOK Chi Wa (Technical Manager)

A0131108-10-2020

** End of Report **

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A0023 (28-09-2021)

TEST REPORT

Report no. : 01428A100170-20	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : SOUNDNESS TEST OF AGGREGATE		
Test method : CS3:2013 Section 19		

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 20mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer sample ID : AGG-XN-211007001

Laboratory Information and Test Results

Lab. sample ID : A100170/1
 Date test started : 16-Oct-2021
 Date received : 08-Oct-2021
 Date test completed : 01-Nov-2021

Size fraction of aggregate	Passing	Retained	Sample A	Sample B	Requirement of CS3 : 2013 Section 4 Cl. 4.4.1
Mass of test sample before test (g)			425.6	425.7	
Mass of material retained on 10.00 mm sieve after test (g)			421.0	422.0	
Soundness value (%)			99%	99%	
Magnesium sulphate soundness value (%)			99%	99%	≥ 94%

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By :  Approved Signatory :  KWOK Chi Wa (Technical Manager)

A0151108-10-2020

** End of Report **

Unless otherwise specified, the location of the test in this report is in Hong Kong.
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A0023 (28-09-2021)

TEST REPORT		
Report no. : 01428A100170-18	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : SOUNDNESS TEST OF AGGREGATE		
Test method : BS 6439 : Part 1 : 1984 Appendix B		

Information Supplied by Customer

Customer name : Giant Elegant Ltd.
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 10mm Coarse Aggregate
 Date of sampling : 07/10/2021
 Customer sample ID. : AGG-XN-211007001

Laboratory Information and Test Results

Lab. sample ID : A100170/2 Date received : 08-Oct-2021
 Date test started : 13-Oct-2021 Date test completed : 01-Nov-2021
 Solution used : Sodium Sulphate solution Number of cycle : 5

Quantitative examination

Size of aggregate (mm)	Grading of the original sample (%)	Mass of test fraction before test (g)	Percentage of loss after test (%)	Weighted average loss (%)
10 to 14	5.1	-	-	-
5 to 10	81.7	302.3	0.70	0.57
2.36 to 5	10.5	-	-	-
- to -	-	-	-	-
- to -	-	-	-	-
Total				0.57

Qualitative examination

Size of aggregate (mm)	Particles exhibiting distress						Total no. of particles before test		
	Splitting		Crumbling		Cracking			Flaking	
	No.	%	No.	%	No.	%		No.	%
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Remarks: 1. The test results relate only to the sample tested.
 2. The sampling of the tested aggregate was not carried out by Material Tech Company Limited and sampling certificate is not available.

Checked By :  Approved Signatory:  KWOK Chi Wa (Technical Manager)

** End of Report **

A01381(20-02-2018)

TEST REPORT		
Report no. : 01428A100170-22	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : SOUNDNESS TEST OF AGGREGATE		
Test method : CS3-2013-Section 19		

Information Supplied by Customer

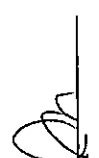
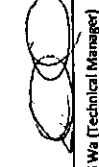
Customer name : Giant Elegant Ltd.
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : Crushed Rock Fines
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer Sample ID. : AGG-XN-211007001

Laboratory Information and Test Results

Lab. sample ID : A100170/3 Date received : 08-Oct-2021
 Date test started : 16-Oct-2021 Date test completed : 01-Nov-2021

Sieve fraction of aggregate	Passing		Sample A	Sample B	Requirement of CS3 : 2013 Section 4 Cl. 4.4.1
	Retained	mm			
Mass of test sample before test (g)			205.0	205.0	
Mass of material retained on 3.35 mm sieve after test (g)			198.4	198.7	
Soundness value (%)			97%	97%	
Magnesium sulphate soundness value (%)			97%		≥ 94%

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By :  Approved Signatory:  KWOK Chi Wa (Technical Manager)

A01513(08-10-2020)

** End of Report **

TEST REPORT

Report no.:	01428A100170-19	Date issued:	16-Nov-2021	Page no.:	1 of 1
Test description:	SOUNDNESS TEST OF AGGREGATE				
Test method:	BS 6439 : Part 1 : 1984 Appendix B				

Information Supplied by Customer

Customer name : Giant Elegant Ltd.
Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Hong Kong

Project : Material Evaluation
Source : Xin Ning Quarry

Place of sampling : -

Sample description : CRF

Date of sampling : 07/10/2021

Customer sample ID. : AGG-XN-211007001

Laboratory Information and Test Results

Lab. sample ID : A100170/3

Date test started : 13-Oct-2021

Solution used : Sodium Sulphate solution

Date received : 08-Oct-2021

Date test completed : 01-Nov-2021

Number of cycle : 5

Quantitative examination

Size of aggregate (mm)	Grading of the original sample (%)	Mass of test fraction before test (g)	Percentage of loss after test (%)	Weighted average loss (%)
5 to 6.3	6.3	-	-	-
2.36 to 5	27.5	115.5	1.47	0.41
1.18 to 2.36	26.3	115.9	0.86	0.23
0.60 to 1.18	13.9	112	1.25	0.174
0.30 to 0.60	12.9	115	0.87	0.112
		Total		0.92

Qualitative examination

Size of aggregate (mm)	Particles exhibiting distress				Total no. of particles before test
	Splitting	Crumbling	Cracking	Flaking	
	No.	%	No.	%	
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

Remarks:
1. The test results relate only to the sample tested.
2. The sampling of the tested aggregate was not carried out by Material Tech Company Limited and sampling certificate is not available.

Checked By: 

Approved Signatory:

KWOK CHI WAI (Technical Manager)

** End of Report **

A023R1(20-02-2019)

TEST REPORT

Report no.:	01428A100170-30	Date issued:	26-Nov-2021	Page no.:	1 of 1
Test description:	POTENTIAL ALKALI REACTIVITY OF AGGREGATES - THE ULTRA-ACCELERATED MORTAR BAR TEST				
Test method:	CS 2010: Section 22				

Information Supplied by Customer

Customer name : Giant Elegant Ltd.
Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong

Project : Material Evaluation

Source : Xin Ning Quarry

Place of sampling : -

Date of sampling : 07-Oct-2021

Customer Ref. : -

Customer Sample ID. : AGG-XN-211007001

Laboratory Information

Date received : 08-Oct-2021

Date of mixing and casting : 20-Oct-2021

Type of processing undertaken on the aggregates: Washing / Drying / Crushing / Sieving

Brand name / Source of cement : HOKCEM / HOKCEM

Soundness of cement : 0 mm

Brand of superplasticizer : STON 300-HM

Amount of superplasticizer (by mass): 4.3 ml (1.1 % of cement)

Amount of water (by mass): 20.0 ml (5.0 % of cement)

Amount of NaOH (by mass): 0.025 g (0.006 % of cement)

Superplasticizer's contribution to the alkali content (in percentage of Na₂O equivalent) of the mortar mix: 1.19%

Superplasticizer's contribution to the alkali content (in percentage of Na₂O equivalent) of the mortar mix: 0.02 %

Lab. Sample ID :

A100170/1

Grading of aggregate	Mass (kg)
0.075mm - 2.5mm	90
2.5mm - 11.8mm	225
11.8mm - 20mm	225
20mm - 30mm	225
30mm - 150mm	135

Test Results

Batch no.	1					2					Mean
	A	B	C	D	E	F	G	H	I		
	Initial Expansion (mm)										
	Initial Expansion (%)										
Test specimen ID.	254.0	253.0	254.0	253.0	253.0	254.0	253.0	253.0	254.0	253.0	Mean
Change length (mm)	0.186	0.184	0.188	0.186	0.188	0.188	0.188	0.188	0.188	0.188	Mean
Expansion (%)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	Mean
1	29-Oct-2021	0.009	0.011	0.012	0.011	0.009	0.011	0.009	0.011	0.011	0.01
5	27-Oct-2021	0.013	0.013	0.012	0.013	0.011	0.009	0.011	0.009	0.011	0.01
7	29-Oct-2021	0.018	0.018	0.017	0.017	0.019	0.017	0.019	0.017	0.019	0.02
12	03-Nov-2021	0.030	0.029	0.029	0.029	0.028	0.025	0.025	0.025	0.025	0.03
14	05-Nov-2021	0.036	0.033	0.033	0.033	0.033	0.030	0.030	0.030	0.030	0.03

CS 2010 C32.3.3 Table 10

Potential Reactivity	Expansion after 14 Days of immersion in NaOH (%)	Ultra-accelerated Mortar Bar Test (After 14 Days)
Non-reactive	<0.10	Mean Expansion (%)
Potential Reactivity	0.10 to 0.20	0.03
Reactive	>0.20	

Observations and measurements	Bar A	Bar B	Bar C	Bar D	Bar E	Bar F
1st Day	0.0	0.0	0.0	0.0	0.0	0.0
2nd Day	0.0	0.0	0.0	0.0	0.0	0.0
3rd Day	0.0	0.0	0.0	0.0	0.0	0.0
4th Day	0.0	0.0	0.0	0.0	0.0	0.0
5th Day	0.0	0.0	0.0	0.0	0.0	0.0
6th Day	0.0	0.0	0.0	0.0	0.0	0.0
7th Day	0.0	0.0	0.0	0.0	0.0	0.0
8th Day	0.0	0.0	0.0	0.0	0.0	0.0
9th Day	0.0	0.0	0.0	0.0	0.0	0.0
10th Day	0.0	0.0	0.0	0.0	0.0	0.0
11th Day	0.0	0.0	0.0	0.0	0.0	0.0
12th Day	0.0	0.0	0.0	0.0	0.0	0.0
13th Day	0.0	0.0	0.0	0.0	0.0	0.0
14th Day	0.0	0.0	0.0	0.0	0.0	0.0

after test	PH: 0.5-1.0	PH: 1.0-1.5	PH: 1.5-2.0	PH: 2.0-2.5	PH: 2.5-3.0	PH: 3.0-3.5
Location, type and pattern	Normal	Normal	Normal	Normal	Normal	Normal
Significant features of NaOH solution during and after test	Normal	Normal	Normal	Normal	Normal	Normal

Remarks:
1. The test results relate only to the sample tested.
2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked by:

Approved Signatory:

KWOK CHI WAI (Technical Manager)



MATERIAL TECH

MATERIAL TECH COMPANY LIMITED

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MATERIAL TECH



Report no.: 01428A00070-31 Date issued: 16-Nov-2021 Page no.: 1 of 1
Test description: POTENTIAL ALKALI-REACTIVITY OF AGGREGATES - THE ULTRA-ACCELERATED MORTAR-BAR TEST
Test method: CS 2010: Section 22

Information Submitted by Customer:
Customer name: Giant Dragon Ltd
Customer address: Unit 2102-A, 217, HED, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
Project: Material Evaluation
Source: Xan Ning Quarry
Place of sampling: 10mm Coarse Aggregate
Sample description: 07-Oct-2021
Date of sampling: 07-Oct-2021
Customer Ref.: AGG-SH-211007001
Customer Sample ID: AGG-SH-211007001

Lab Sample ID: A1001702

Grading of aggregate	Mass (g)
4.75mm - 2.36mm	90
2.36mm - 1.18mm	225
1.18mm - 600um	225
600um - 300um	225
300um - 150um	135

Grading of aggregate: 4.75mm - 2.36mm: 90, 2.36mm - 1.18mm: 225, 1.18mm - 600um: 225, 600um - 300um: 225, 300um - 150um: 135

Flow value of mortar: 220mm (batch 1), 220mm (batch 2)

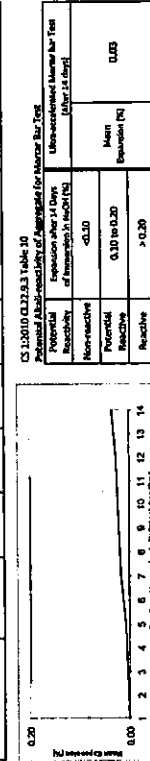
Amount of superplasticizer (by mass): 4.3 ml (1.1 % of Cement)

Alkali content (in percentage of Na₂O equivalent) of the cement: 1.13%

Superplasticizer's contribution to the alkali content (in percentage of Na₂O equivalent) of the mortar mix: 0.02 %

Test Report

Batch no.	1	2	Mean
Lab specimen ID	A	B	
Grading (mm)	250.0	250.0	250.0
Flow value (mm)	250.0	250.0	250.0
1	22-Oct-2021	0.186	0.186
5	23-Oct-2021	0.005	0.005
7	27-Oct-2021	0.010	0.010
12	28-Oct-2021	0.016	0.016
14	05-Nov-2021	0.025	0.025



Observations and measurements

Bar A	Bar B	Bar C	Bar D	Bar E	Bar F
1st face	0.0	0.0	0.0	0.0	0.0
2nd face	0.0	0.0	0.0	0.0	0.0
3rd face	0.0	0.0	0.0	0.0	0.0
4th face	0.0	0.0	0.0	0.0	0.0
Significant features of specimens during and after test	No Cracking	No Cracking	No Cracking	No Cracking	No Cracking
Location, type and pattern	Normal	Normal	Normal	Normal	Normal

Remarks:
1. The test results relate only to the sample tested.
2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked by: [Signature]
Approved Signature: KWOK CH Wai (Technical Manager)

4028A00070-31-2021
Unless otherwise specified, the location of the test is in Hong Kong. End of Report **
HKAS has accredited Material Tech Company Limited (Reg. No. HKLAS 274) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. This report shall not be reproduced except in full with prior written approval from the issuing laboratory.

A0021 (04-09-2021)

Report no.: 01428A00070-32 Date issued: 16-Nov-2021 Page no.: 1 of 1
Test description: POTENTIAL ALKALI-REACTIVITY OF AGGREGATES - THE ULTRA-ACCELERATED MORTAR-BAR TEST
Test method: CS 2010: Section 22

Information Submitted by Customer:
Customer name: Giant Dragon Ltd
Customer address: Unit 2102-A, 217, HED, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
Project: Material Evaluation
Source: Xan Ning Quarry
Place of sampling: 10mm Coarse Aggregate
Sample description: 07-Oct-2021
Date of sampling: 07-Oct-2021
Customer Ref.: AGG-SH-211007001
Customer Sample ID: AGG-SH-211007001

Lab Sample ID: A1001703

Grading of aggregate	Mass (g)
4.75mm - 2.36mm	90
2.36mm - 1.18mm	225
1.18mm - 600um	225
600um - 300um	225
300um - 150um	135

Grading of aggregate: 4.75mm - 2.36mm: 90, 2.36mm - 1.18mm: 225, 1.18mm - 600um: 225, 600um - 300um: 225, 300um - 150um: 135

Flow value of mortar: 220mm (batch 1), 220mm (batch 2)

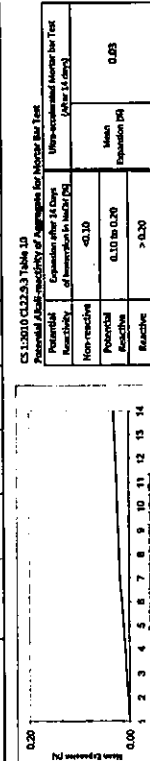
Amount of superplasticizer (by mass): 4.3 ml (1.1 % of Cement)

Alkali content (in percentage of Na₂O equivalent) of the cement: 1.13%

Superplasticizer's contribution to the alkali content (in percentage of Na₂O equivalent) of the mortar mix: 0.02 %

Test Report

Batch no.	1	2	Mean
Lab specimen ID	A	B	
Grading (mm)	250.0	250.0	250.0
Flow value (mm)	250.0	250.0	250.0
1	22-Oct-2021	0.186	0.186
5	23-Oct-2021	0.005	0.005
7	27-Oct-2021	0.010	0.010
12	28-Oct-2021	0.016	0.016
14	05-Nov-2021	0.025	0.025



Observations and measurements

Bar A	Bar B	Bar C	Bar D	Bar E	Bar F
1st face	0.0	0.0	0.0	0.0	0.0
2nd face	0.0	0.0	0.0	0.0	0.0
3rd face	0.0	0.0	0.0	0.0	0.0
4th face	0.0	0.0	0.0	0.0	0.0
Significant features of specimens during and after test	No Cracking	No Cracking	No Cracking	No Cracking	No Cracking
Location, type and pattern	Normal	Normal	Normal	Normal	Normal

Remarks:
1. The test results relate only to the sample tested.
2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked by: [Signature]
Approved Signature: KWOK CH Wai (Technical Manager)

4028A00070-32-2021
Unless otherwise specified, the location of the test is in Hong Kong. End of Report **
HKAS has accredited Material Tech Company Limited (Reg. No. HKLAS 274) under Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. This report shall not be reproduced except in full with prior written approval from the issuing laboratory.

A0021 (04-09-2021)

TEST REPORT

Report no.:	0142BH100393A	Date issued:	4/11/2021	Page no.:	1 of 1
Test description:	Chemical tests of Aggregates				
Test standard:	CS3:2013				

Information Supplied by Customer

Customer : Giant Elegant Ltd.
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong
 Project : Material evaluation
 Sample description : 20mm & 10mm coarse aggregate, 5mm fine aggregate
 Source of sample : Xin Ning Quarry
 Date of sampling : 7/10/2021

Laboratory Information and Test Results

Date sample received : 8/10/2021 Date of Test : 12/10/2021

Lab ID	H100393/1	H100393/2	H100393/3	Test method
Customer sample No.	AGG-XN-211007001	AGG-XN-211007001	AGG-XN-211007001	
Sample description	20mm coarse aggregate	10mm coarse aggregate	5mm fine aggregate	
Type of aggregate	☒ Coarse aggregates ☐ Fine aggregates	☒ Coarse aggregates ☐ Fine aggregates	☐ Coarse aggregates ☒ Fine aggregates	
Water-soluble chloride ion content (% m/m)	<0.01	<0.01	<0.01	CS3: 2013 Section 21.3
Acid-soluble chloride ion content (% m/m)	<0.01	<0.01	<0.01	CS3: 2013 Section 21.4
Acid-soluble sulphate content (% as SO ₃)	<0.1	<0.1	<0.1	CS3: 2013 Section 21.5
Total sulphur content (% m/m)	<0.1	<0.1	<0.1	CS3: 2013 Section 21.6
Presence of humus	Negative	Negative	Negative	CS3: 2013 Section 21.7

Remarks : (1) The results of this report relate only to the samples tested.
 (2) This report is to supersede our previous report 0142BH100393.

Checked by:

H011R1 (30-08-2018)

Approved signatory:

Victor Yip Wing Chi (Manager - Chemical Lab)

*** End of Report ***

TEST REPORT

Report no.:	0142BA100170-23	Date issued:	15-Nov-2021	Page no.:	1 of 1
Test description:	DRYING SHRINKAGE OF AGGREGATE IN CONCRETE				
Test method:	CS3: 2013 Section 20				

Information Supplied by Customer

Customer name : Giant Elegant Ltd.
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source of aggregate : Xin Ning Quarry
 Place of sampling :
 Sample description : 20mm, 10mm Coarse Aggregate, Crushed Rock Fines
 Date of sampling : 07-Oct-2021
 Customer Ref :
 Customer sample ID : AGG-XN-211007001, AGG-XN-211007001, AGG-XN-211007001

Laboratory Information and Test Results

Lab. sample ID : A100170 Date cast : 19-Oct-2021
 Date received : 08-Oct-2021 Date test completed : 30-Oct-2021
 Date test started : 21-Oct-2021
 Ambient Temperature during mixing and demoulding : 20.9°C
 Ambient Temperature during measurement of shrinkage : 20.8°C

Mix Proportion	OPC	550.1	Aggregate size fraction			Water
			20mm	10mm	5mm fine agg.	
Mass of materials (g)			1466.3	735	1100.8	330.9

Test Results

Drying shrinkage of the aggregate : 0.034%

Remarks : 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By:

A0166(06-10-2020)

Approved Signatory:

KWOK Chi Wa (Technical Manager)

*** End of Report ***

TEST REPORT	
Report no. : 01428A100170-13	Date issued : 16-Nov-2021
Page no. : 1 of 1	
Test description : IMPACT VALUE OF AGGREGATE	
Test method : CS3:2013 Section 15	

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 20mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer sample ID. : AGG-XN-211007001

Laboratory Information and Test Result

Lab. sample ID : A100170/1
 Date received : 08-Oct-2021
 Condition : Dry
 Date tested : 19-Oct-2021

Size of aggregate tested	Passing	14.00 mm
	Retained	10.00 mm
$AIV = \frac{M_2}{M_1} \times 100 \%$		25.5 %
The Mean of the Aggregate Impact Values		25 %
Requirement of CS3 : 2013 : Section 4.2 Cl. 4.2.2		≤ 30 %

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By : 

Approved Signatory:

KWOK CHI WA (Technical Manager)

A00781(08-10-2020)

** End of Report **

TEST REPORT	
Report no. : 01428A100170-14	Date issued : 16-Nov-2021
Page no. : 1 of 1	
Test description : IMPACT VALUE OF AGGREGATE	
Test method : CS3:2013 Section 15	

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 10mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer Ref. : -
 Customer sample ID. : AGG-XN-211007001

Laboratory Information and Test Result

Lab. sample ID : A100170/2
 Date received : 08-Oct-2021
 Condition : Dry
 Date tested : 19-Oct-2021

Size of aggregate tested	Passing		10.00 mm
	Retained		6.30 mm
$AIV = \frac{M_2}{M_1} \times 100 \%$	23.3 %	23.1 %	
The Mean of the Aggregate Impact Values			23 %
Requirement of CS3 : 2013 : Section 4.2 Cl. 4.2.2			≤ 30 %

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By : 

Approved Signatory:

KWOK CHI WA (Technical Manager)

A00781(08-10-2020)

** End of Report **

TEST REPORT

Report no. : 01428A100170-27	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : Shell Content in Coarse Aggregate		
Test method : BS 812 : Part 106 : 1985		

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 20mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer ref. : -
 Customer Sample ID : AGG-XN-211007001
Laboratory Information and Test Results
 Lab. sample ID : A100170/1
 Date received : 08-Oct-2021
 Date tested : 12-Oct-2021

Condition of aggregate at the time of testing : Oven-dry

Shell content coarser than 10 mm	0	%
Shell content finer than 10 mm	0	%

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By : 

A01181(08-10-2020)

Approved Signatory:

KWOK Chi Wa (Technical Manager)

** End of Report **

TEST REPORT

Report no. : 01428A100170-28	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : Shell Content in Coarse Aggregate		
Test method : BS 812 : Part 106 : 1985		

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 10mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer ref. : -
 Customer Sample ID : AGG-XN-211007001
Laboratory Information and Test Results
 Lab. sample ID : A100170/2
 Date received : 08-Oct-2021
 Date tested : 12-Oct-2021

Condition of aggregate at the time of testing : Oven-dry

Shell content coarser than 10 mm	0	%
Shell content finer than 10 mm	0	%

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By : 

A01181(08-10-2020)

Approved Signatory:

KWOK Chi Wa (Technical Manager)

** End of Report **

TEST REPORT

Report no. : 0142BA100170-29	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : Shell Content in Coarse Aggregate		
Test method : BS 812 : Part 106 : 1985		

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : Crushed Rock Finest
 Date of sampling : 07-Oct-2021
 Customer ref. : -

Customer Sample ID : AGG-XN-211007001
 Laboratory Information and Test Results

Lab. sample ID : A100170/3
 Date received : 08-Oct-2021
 Date tested : 12-Oct-2021

Condition of aggregate at the time of testing : Oven-dry

Shell content coarser than 10 mm	0	%
Shell content finer than 10 mm	0	%

Remarks: 1. The test results relate only to the sample tested.

2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By : 

Approved Signatory:

KWOK Chi Wa (Technical Manager)

A011R1(06-10-2020)

** End of Report **

TEST REPORT

Report no. : 0142BA100170-24	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : BULK DENSITY OF AGGREGATE		
Test method : BS 812 : Part 2 : 1995		

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 20mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer ref. : -

Customer Sample ID : AGG-XN-211007001
 Laboratory Information and Test Results

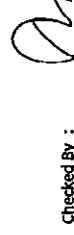
Lab. sample ID : A100170/1
 Date received : 08-Oct-2021
 Date tested : 15-Oct-2021

Condition of aggregate at the time of test: Oven-dry

Uncompacted bulk density	1.51	Mg/m ³
Compacted bulk density	1.54	Mg/m ³

Remarks: 1. The test results relate only to the sample tested.

2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By : 

Approved Signatory:

KWOK Chi Wa (Technical Manager)

A011R1(08-10-2020)

** End of Report **

03/08/21

TEST REPORT

Report no. : 01428A100170-25	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : BULK DENSITY OF AGGREGATE		
Test method : BS 812 : Part 2 : 1995		

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : 10mm Coarse Aggregate
 Date of sampling : 07-Oct-2021
 Customer ref. : -
 Customer Sample ID : AGG-XN-211007001
Laboratory Information and Test Results
 Lab. sample ID : A100170/2
 Date received : 08-Oct-2021
 Date tested : 15-Oct-2021

Condition of aggregate at the time of test: Oven-dry

Uncompacted bulk density	1.53	Mg/m ³
Compacted bulk density	1.55	Mg/m ³

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By : 

A01131(08-10-2020)

Approved Signatory: 

KWOK Chi Wa (Technical Manager)

** End of Report **

03/08/21

TEST REPORT

Report no. : 01428A100170-26	Date issued : 16-Nov-2021	Page no. : 1 of 1
Test description : BULK DENSITY OF AGGREGATE		
Test method : BS 812 : Part 2 : 1995		

Information Supplied by Customer

Customer name : Giant Elegant Ltd
 Customer address : Unit 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Evaluation
 Source : Xin Ning Quarry
 Place of sampling : -
 Sample description : Crushed Rock Fines
 Date of sampling : 07-Oct-2021
 Customer ref. : -
 Customer Sample ID : AGG-XN-211007001
Laboratory Information and Test Results
 Lab. sample ID : A100170/3
 Date received : 08-Oct-2021
 Date tested : 15-Oct-2021

Condition of aggregate at the time of test: Oven-dry

Uncompacted bulk density	1.59	Mg/m ³
Compacted bulk density	1.75	Mg/m ³

Remarks: 1. The test results relate only to the sample tested.
 2. The tested aggregate was not sampled by Material Tech Company Limited and a certificate of sampling is not available.

Checked By : 

A01131(08-10-2020)

Approved Signatory: 

KWOK Chi Wa (Technical Manager)

** End of Report **



Combined Grading Curve

Submission Ref. No.: CCC/TS/J/220107-2

Date: 7/1/2022

Concrete Mix: 40D/20

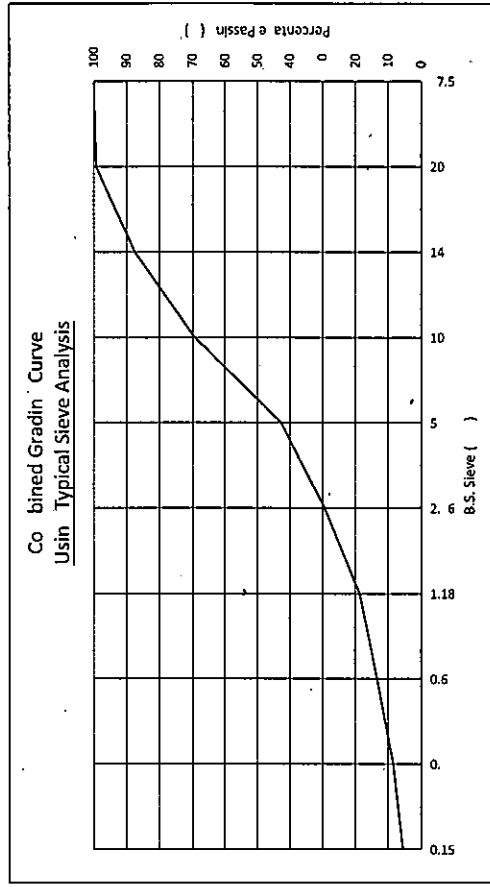
Slump (mm): 100

Aggregate Proportion:

20mm : 855

10mm : 320

CRF : 700



B.S. Sieve (mm)	% Passing				% Passing				Total
	Grading of Materials Used			CRF	Proportions of Materials (%)				
	20mm	10mm	CRF		20mm	10mm	CRF		
37.5	100				39.10	19.10	41.79	100.00	
20	98				38.32	19.10	41.79	99.22	
14	68	100			26.59	19.10	41.79	87.49	
10	24	95	100		9.39	18.15	41.79	69.33	
5	2	14	94		0.78	2.67	39.28	42.74	
2.36		3	69		0.00	0.57	28.84	29.41	
1.18			45		0.00	0.00	18.81	18.81	
0.6			32		0.00	0.00	13.37	13.37	
0.3			20		0.00	0.00	8.36	8.36	
0.15			13		0.00	0.00	5.43	5.43	
Pan	0	0	0	0	0	0	0	0	

Section 3 Combined Grading Curve



Combined Grading Curve

Submission Ref. No.: CCTS/J220107-2

Date: 7/1/2022

Concrete Mix: 40D/20

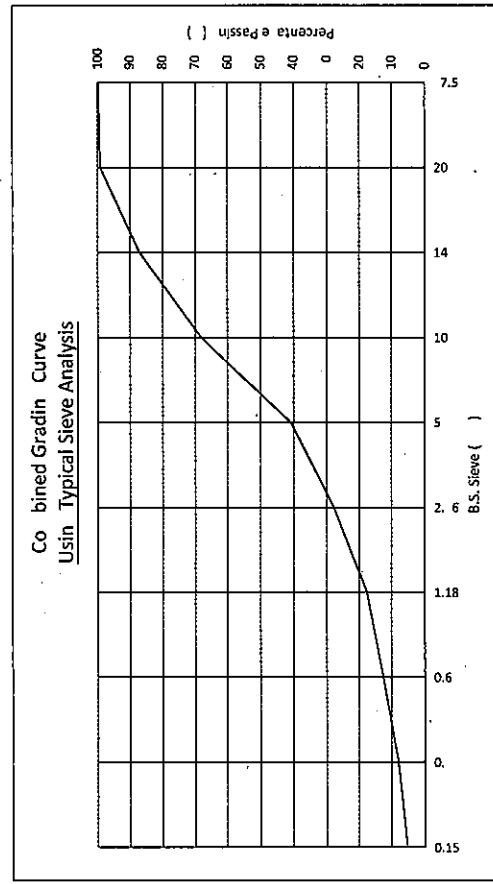
Slump (mm): 75

Aggregate Proportion:

20mm : 700

10mm : 340

CRF : 680



B.S. Sieve (mm)	% Passing			% Passing			Total
	Grading of Materials Used			Proportions of Materials (%)			
	20mm	10mm	CRF	20mm	10mm	CRF	
37.5	100			40.70	19.77	39.53	100.00
20	98			39.88	19.77	39.53	99.19
14	68	100		27.67	19.77	39.53	86.98
10	24	95	100	9.77	18.78	39.53	68.08
5	2	14	94	0.81	2.77	37.16	40.74
2.36		3	69	0.00	0.59	27.28	27.87
1.18			45	0.00	0.00	17.79	17.79
0.6			32	0.00	0.00	12.65	12.65
0.3			20	0.00	0.00	7.91	7.91
0.15			13	0.00	0.00	5.14	5.14
Pan	0	0	0	0	0	0	0



Combined Grading Curve

Submission Ref. No.: CCTS/J220107-2

Date: 7/1/2022

Concrete Mix: 30D/20

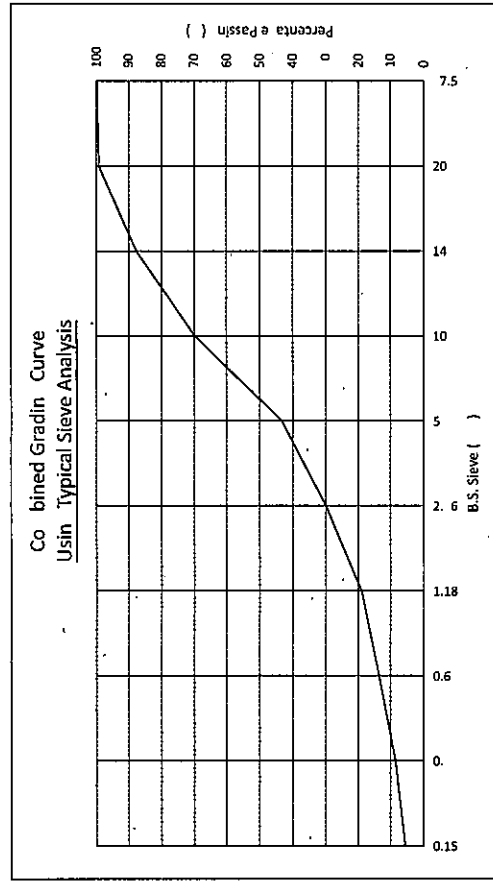
Slump (mm): 100

Aggregate Proportion:

20mm : 675

10mm : 330

CRF : 745



B.S. Sieve (mm)	% Passing			% Passing			Total
	Grading of Materials Used			Proportions of Materials (%)			
	20mm	10mm	CRF	20mm	10mm	CRF	
37.5	100			38.57	18.86	42.57	100.00
20	98			37.80	18.86	42.57	99.23
14	68	100		26.23	18.86	42.57	87.66
10	24	95	100	9.26	17.91	42.57	69.74
5	2	14	94	0.77	2.64	40.02	43.43
2.36		3	69	0.00	0.57	29.37	29.94
1.18			45	0.00	0.00	19.16	19.16
0.6			32	0.00	0.00	13.62	13.62
0.3			20	0.00	0.00	8.51	8.51
0.15			13	0.00	0.00	5.53	5.53
Pan	0	0	0	0	0	0	0



Combined Grading Curve

Submission Ref. No.: CCCTS/J220107-2

Date: 7/1/2022

Concrete Mix: 30D/20

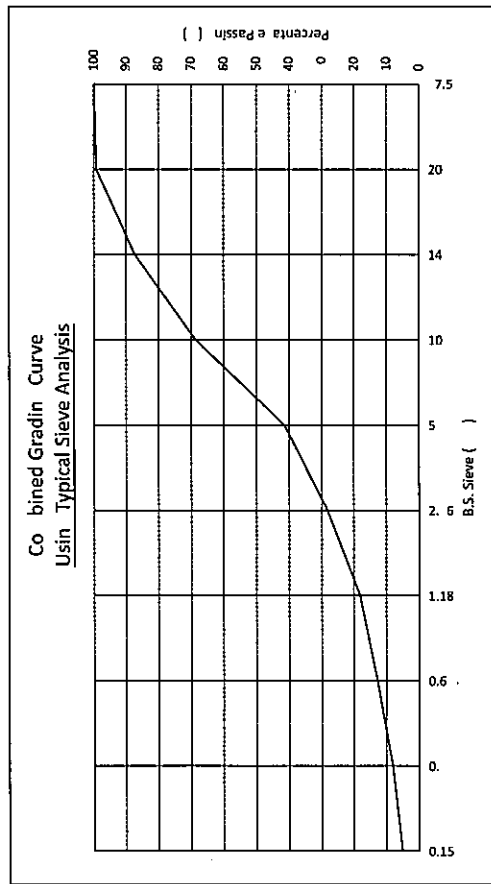
Slump (mm): 75

Aggregate Proportion:

20mm : 720

10mm : 350

CRF : 720



Section 4 Admixture Test Reports & Uniformity Test Certificates

B.S. Sieve (mm)	% Passing			% Passing			Total
	Grading of Materials Used			Proportions of Materials (%)			
	20mm	10mm	CRF	20mm	10mm	CRF	
37.5	100			40.22	19.55	40.22	100.00
20	98			39.42	19.55	40.22	99.20
14	68	100		27.35	19.55	40.22	87.13
10	24	95	100	9.65	18.58	40.22	68.45
5	2	14	94	0.80	2.74	37.81	41.35
2.36		3	69	0.00	0.59	27.75	28.34
1.18			45	0.00	0.00	18.10	18.10
0.6			32	0.00	0.00	12.87	12.87
0.3			20	0.00	0.00	8.04	8.04
0.15			13	0.00	0.00	5.23	5.23
Pan	0	0	0	0	0	0	0

DESCRIPTION

SBT® Concretard is a ready-to-use liquid of organic compounds. It can be used in mass concrete, road concrete and other kind of concrete in which retarding for setting time is required. When SBT® Concretard is used, the initial and final setting time can be delayed, without any negative influence upon the performance of concrete. It is suitable in the circumstances where delay in setting time is necessary to generate sufficient working time for delivery, placement, vibration and surfacing.

SBT® Concretard is manufactured in accordance with BS5075: Part 3-1985 & BS EN934-2/3:

2.3-2009 + A1:2012.

PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	SPECIFICATION	RANGE
Physical State	Liquid	Liquid
Relative Density/Kg/L	1.07	1.050-1.090
Dry Material Content/%	21.0	19.5-22.5
Ash Content/%	2.5	1.5-3.5
Chloride Content/%	0.0	0.0-0.4
PH Value	4.5	4.0-6.0
Total Alkalies	0.9	0.0-1.5

*Visual Identification :

Color Pigment is added to the product for identification, and it does not have any effect on the admixture performance.

FEATURES AND BENEFITS

- **Desirable set-retarding:** With the addition dosage varied, the initial and final setting time are retarded by SBT® Concretard in the range of 2-25 hours. At the addition rate of 300ml/100kg cementitious material the initial setting time of concrete can be delayed by 2 to 3 hours at 20°C, and can be delayed by 3 to 4 hours at 15°C.
- **Low hydration heat:** The early-term hydration process of cement can be modified to a lower extent that the cracking due to thermal shrinkage can be reduced to a low level.
- **Wide compatibility:** SBT® Concretard is adaptable to different types of cement and other kinds of admixture, such as water-reducing admixture, air-entraining agent.
- **Non-corrosion to steel bar:** There is no any constituent in SBT® Concretard generating steel corrosion in concrete.

DISPENSING EQUIPMENT

SBT can provide a set of customized admixture dispenser with storage and pumping system, which is accurate for measuring, and convenient for operation and maintenance.

PACKAGING

SBT® Concretard is provided in bulk and 200L drums. Other types of packaging can be ordered according to customer's requirement.

HEALTH AND SAFETY

SBT® Concretard does not contain any hazardous or inflammable materials. Wear gloves and eye protection is required during operation, and wash splashes on skin with soap and water.

NOTICE

Concrete trials on the addition dosage of SBT® Concretard are necessary to ensure appropriate addition rate in concrete.

It can be used along with other admixtures, such as Ligninsulphate, Carboxylate superplasticizers. But accurate extension of setting time should be confirmed through trials.

Concrete Curing should be enforced after initial setting time to avoid plastic shrinkage on the surface of concrete.

STORAGE

SBT® Concretard maximum product life shall be within one year if protected under proper condition.



Sobute Construction Products
Sobute (HK) New Materials Co., Ltd.

UNIFORMITY TEST CERTIFICATE

Product : SBT®Concreteard
Admixture Type : Set Retarding Admixture for Concrete
Standard Compliance : BS 5075 Part 1:1982
: BS EN934-2:2009 +A1:2012

Manufacturing Location : Zhongshan, Guangdong
Certificate No.: HK20210929002

Production Month: 06th/September/2021

Item	Test Results	Specification
Appearance	Dark Brown	Dark Brown
Relative Density/kg/L	1.073	1.050-1.090
Dry Material Content/%	21.1	19.5-22.5
Ash Content/%	2.3	1.5-3.5
Chloride Content/%	0.0	0.0-0.4

The above product conforms in all respects to the SBT Specifications for SBT®Concreteard.

We hereby certify that the product detailed hereon has been inspected and tested in accordance with the requirements of the above British Standard and that it does comply in all respects to the specification relevant thereto, per test results above.

As per BS 5075 Part 1:1982 and BS EN934-2:2009 +A1:2012

Plant Supervisor

Name: Yan Zhan Biao

Approved signatory:



Date of Issue: September 2021

Document Issue Control

Version No. 3.0 Rev No. Approved By: Calvin Wong Date: May 2021



東恒測試顧問有限公司
AQUALITY TESTCONSULT LIMITED



ADMIXTURE TEST REPORT

Customer* : SOBUTE(HK) New Materials Co. Ltd./
江蘇恒通新材料股份有限公司
Customer Address* : 新界葵青區葵青道88號永得利廣場1座15樓6室
Report No. : 211005AD-7C
Report Date : 18/10/2021
Page No. : 1 of 1
AQ Ref. : S020
Date Received : 05/10/2021
Customer's Ref.* : N/A
Sampling Cert. No.* : Not Available
Admixture Name* : Concreteard
Sample Size : 1L
Admixture Type* : Set-Retarding Admixture
AQ Sample No. : 211005AD-7C1
Source* : 江蘇恒通新材料股份有限公司
Test Location : Ping Che Main Lab.
Batch No.* : N/A
Date Tested : 05/10/2021 to 18/10/2021
Place Sampled* : Zhongshan, Guangdong
Tested By : K.Y. Cheung
Data Sampled* : N/A

TEST RESULTS	Test Procedure	Test Result
Ash Content	BS 5075:Part 1:1982 Appendix D2 (AMD 4910)	1.9 %
Dry Material Content	BS 5075:Part 1:1982 Appendix D1 (AMD 4910)	21.5 %
Relative Density of liquid admixtures	BS 5075:Part 1:1982 Appendix D3 (AMD 4910)	1.069
Chloride Ion Content	BS 5075:Part 1:1982 Appendix E (AMD 4910)	0.0 %* (to the nearest 0.2%)
pH value of liquid admixtures at 25 °C	In-House Method ADX-C-005	4.9
Sodium Oxide Content	In-House Method ADX-C-006	0.86 %
Potassium Oxide Content	In-House Method ADX-C-006	<0.01 %
Total Alkalies Content	In-House Method ADX-C-006	0.89 %

Remarks : (1) * Information provided by Customer.
(2) The results apply to the sample as received.
(3) The results relate only to the items tested.
(4) All % stated above are by mass of sample unless stated otherwise.
(5) The tests are in accordance with BS 5075.
(6) * The reporting limit = 0.1%

- End Of Report -

Approved By :
LEE Mui-yea, Julia (Chief Chemist)



ADMIXTURE TEST REPORT

Customer* : SOBUTE(HK) New Materials Co. Ltd./
江蘇蘇博特(香港)新材料股份有限公司
Customer Address* : 新界葵青區葵青碼頭88號永得利廣場1座15樓G室
AQ Ref. : S020
Customer's Ref.* : N/A
Admixture Name* : Concrete
Admixture Type* : Self-Retarding Admixture
Source* : 江蘇蘇博特(香港)新材料股份有限公司
Batch No.* : N/A
Place Sampled* : Zhongshan, Guangdong
Date Sampled* : N/A
Report No. : 211005AD-19C
Report Date : 18/10/2021
Page No. : 1 of 1
Date Received : 05/10/2021
Sampling Cert. No.* : Not Available
Sample Size : 1L
AQ Sample No. : 211005AD-19C1
Test Location : Ping Che Main Lab.
Date Tested : 05/10/2021 to 18/10/2021
Tested By : K.Y. Cheung

TEST RESULTS

Test Procedure	Test Result
Dry Material Content	21.1 %
Density of liquid admixtures (at 20°C)	1.072 g/ml
pH value of liquid admixtures (at 20°C)	4.8 pH Unit
Water Soluble Chloride Content	<0.01 %
Sodium Oxide Content (by Flame Photometer)	0.83 %
Potassium Oxide Content (by Flame Photometer)	<0.05 %
Alkali Content (by Flame Photometer)	0.88 %

Remarks: (1) * Information provided by Customer.
(2) The results apply to the sample as received.
(3) The results relate only to the items tested.
(4) All % stated above are by mass of sample unless stated otherwise.
(5) The tests are in accordance with BS EN 934: Part 2: 2009 Cl.4.1.

- End Of Report -

Approved By:
LEE Mei-yea, Julia (Chief Chemist)

ADMIXTURE TEST REPORT

Customer* : SOBUTE(HK) New Materials Co. Ltd./
江蘇蘇博特(香港)新材料股份有限公司
Customer Address* : 新界葵青區葵青碼頭88號永得利廣場1座15樓G室
AQ Ref. : S020
Customer's Ref.* : N/A
Admixture Name* : Concrete
Admixture Type* : Self-Retarding Admixture
Source* : 江蘇蘇博特(香港)新材料股份有限公司
Batch No.* : N/A
Place Sampled* : Zhongshan, Guangdong
Date Sampled* : N/A
Report No. : 211005MAD-7C
Report Date : 18/10/2021
Page No. : 1 of 1
Date Received : 05/10/2021
Sampling Cert. No.* : Not Available
Sample Size : 1L
AQ Sample No. : 211005MAD-7C1
Test Location : Ping Che Main Lab.
Date Tested : 05/10/2021 to 12/10/2021
Tested By : K.Y. Cheung

TEST RESULTS

Sulphate (as SO₃) Content = <0.01 % (by mass of sample)

Remarks: (1) * Information provided by Customer.
(2) The results apply to the sample as received.
(3) The results relate only to the items tested.

- End Of Report -

Approved By:
LEE Mei-yea, Julia (Chief Chemist)
LIN Wing Yin (Chemist)

SBT[®] JM-XI(B) 高效減水劑



GENERAL DESCRIPTION

SBT[®] JM- XI (B) is a new generation of polycarboxylate liquid superplasticizer, with dispersing property to improve plasticity and workability of fresh concrete. SBT[®] JM- XI (B) is manufactured in accordance with BS5075: Part 3-1985 & AMD 11058:2000 (BS5075-3: 1985) & BS.EN934-2/3 2.3-2009 + A1:2012.

PHYSICAL PROPERTIES

PHYSICAL PROPERTIES		SPECIFICATION	
Physical State	Liquid	Liquid	Liquid
Relative Density/Kg/L	1.06	1.040-1.080	1.040-1.080
Dry Material Content/%	21.5	19.5-22.5	19.5-22.5
Ash Content/%	2.0	1.0-3.0	1.0-3.0
Chloride Content/%	0.0	0.0-0.4	0.0-0.4
pH Value	4.5	4.0-6.0	4.0-6.0
Total Alkalies %	0.9	0.0-1.5	0.0-1.5

*Visual Identification : Color Pigment is added to the product for identification and it does not have any effect on the admixture performance.

FEATURES AND BENEFITS

SBT[®] JM- XI (B) provides high water reduction rate up to 25% at high dosage rate.

SBT[®] JM- XI (B) provides long slump retention for placeability and pumpability meantime setting time is properly delayed.

SBT[®] JM- XI (B) produces good plasticity and consistency to prevent bleeding and segregation.

DOSAGE

The addition rate ranges from 350-1850 ml/100Kg of cementitious material. The accurate addition rate is determined based on target performances, concrete raw materials, mix proportion and job site condition. Trials on dosage is necessary to obtain required performances with optimum dosage.

QUALITY.SUSTAINABILITY.INNOVATION

SOBUTE (HK)
NEW MATERIALS CO.,LTD

江苏苏博特(香港)新材料股份有限公司

Version 1.4 Date: Yr 2021

SBT[®] JM-XI(B) 高效減水劑



COMPATIBILITY WITH OTHER ADMIXTURES

SBT[®] JM- XI (B) is compatible with most concrete admixtures. If it is used along with other admixtures, it is recommended that pretesting be conducted for the compatibility of SBT[®] JM- XI (B) with other admixtures and for optimization of the dosages.

DISPENSING EQUIPMENT

SBT can provide a set of customized admixture dispenser with storage and pumping system, which is accurate for measuring and convenient for operation and maintenance.

PACKAGING

SBT[®] JM- XI (B) is provided in bulk and 200L drums. Other types of packaging can be ordered according to customer's requirement.

HEALTH AND SAFETY

SBT[®] JM- XI (B) does not contain any hazardous or inflammable materials. Wear gloves and eye protection is required during operation, and wash splashes on skin with soap and water.

STORAGE

SBT[®] JM- XI (B) maximum product life shall be within one year if protected under proper condition.

QUALITY.SUSTAINABILITY.INNOVATION

SOBUTE (HK)
NEW MATERIALS CO.,LTD

江苏苏博特(香港)新材料股份有限公司

Version 1.4 Date: Yr 2021



Sobute Construction Products
Sobute (HK) New Materials Co., Ltd.

UNIFORMITY TEST CERTIFICATE

Product : SBT® JM-XI(B)
Admixture Type : Superplasticizing Admixture
Standard Compliance : BS 5075 Part 3:1985
: BS EN934-2:2009 +A1:2012
Manufacturing Location : Zhongshan, Guangdong
Certificate No: HK20210929003
Production Month: 06th/September/2021

Appearance	Brown	Brown
Relative Density/Kg/L	1.076	1.040-1.080
Dry Material Content/%	20.5	19.5-22.5
Ash Content/%	2.1	1.0-3.0
Chloride Content/%	0.0	0.0-0.4

The above product conforms in all respects to the SBT Specifications for SBT® JM-XI(B).
We hereby certify that the product detailed hereon has been inspected and tested in accordance with the requirements of the above British Standard and that it does comply in all respects to the specification relevant thereto, per test results above.

As per BS 5075 Part 3:1985 and BS EN934-2:2009 +A1:2012

Plant Supervisor
Name: Yan Zhan Biao
Approved signatory:



Date of issue: September 2021

Document Issue Control

Version No: 5.0 Rev No Approved By: Calvin Wong Date: May 2021



東恒測試顧問有限公司
AQUALITY TESTCONSULT LIMITED



ADMIXTURE TEST REPORT

Customer* : SOBUTE(HK) New Materials Co. Ltd./
江蘇蘇博特(香港)新材料股份有限公司
Customer Address* : 新界葵青區葵青碼頭88號永得利廣場1座16樓8室
AQ Ref. : S020
Customer's Ref.* : N/A
Admixture Name* : JM-XI(B)
Admixture Type* : Superplasticizing Admixture
Source* : 江蘇蘇博特(香港)新材料股份有限公司
Batch No.* : N/A
Place Sampled* : Zhongshan, Guangdong
Date Sampled* : N/A
Report No. : 211005AD-1C
Report Date : 18/10/2021
Page No. : 1 of 1
Data Received : 09/10/2021
Sampling Cert. No.* : Not Available
Sample Size : 1L
AQ Sample No. : 211005AD-1C/1
Test Location : Ping Che Main Lab.
Date Tested : 09/10/2021 to 18/10/2021
Tested By : K.Y. Cheung

TEST RESULTS

	Test Procedure	Test Result
Ash Content	BS 5075 Part 1:1982 Appendix D2 (AMD 4810)	1.2 %
Dry Material Content	BS 5075 Part 1:1982 Appendix D1 (AMD 4810)	21.8 %
Relative Density of liquid admixtures	BS 5075 Part 1:1982 Appendix D3 (AMD 4910)	1.067
Chloride Ion Content	BS 5075 Part 1:1982 Appendix E (AMD 4810)	0.0 % (to the nearest 0.2%)
pH value of liquid admixtures at 25 °C	In-House Method ADX-C-005	4.6
Sodium Oxide Content	In-House Method ADX-C-008	0.80 %
Potassium Oxide Content	In-House Method ADX-C-008	<0.01 %
Total Alkalies Content	In-House Method ADX-C-008	0.80 %

Remarks: (1) * Information provided by Customer.
(2) The results apply to the sample as received.
(3) The results relate only to the items tested.
(4) All % stated above are by mass of sample unless stated otherwise.
(5) The tests are in accordance with BS 5075.
(6) * The reporting limit = 0.1%

- End Of Report -

Approved By :
LSE Mei-yea, Julia (Chief Chemist)



ADMIXTURE TEST REPORT

Customer* : SOBUTE(HK) New Materials Co. Ltd./
江蘇蘇特(香港)新材料股份有限公司

Customer Address* : 新界葵青區葵青道88號永得利廣場1座15樓6室

AQ Ref. : S020

Customer's Ref.* : N/A

Admixture Name* : JM-X(B)

Admixture Type* : Superplasticizing Admixture

Source* : 江蘇蘇特(香港)新材料股份有限公司

Batch No.* : N/A

Place Sampled* : Zhongshan, Guangdong

Date Sampled* : N/A

Report No. : 211005AD-19C

Report Date : 18/10/2021

Page No. : 1 of 1

Date Received : 09/10/2021

Sampling Cert. No.* : Not Available

Sample Size : 1L

AQ Sample No. : 211005AD-19C/1

Test Location : Ping Che Main Lab.

Date Tested : 09/10/2021 to 18/10/2021

Tested By : K.Y. Cheung

TEST RESULTS

Test Procedure	Test Result
Dry Material Content	21.7 %
Density of liquid admixtures (at 20°C)	1.067 g/ml
pH value of liquid admixtures (at 20°C)	4.5 pH Unit
Water Soluble Chloride Content	<0.01 %
Sodium Oxide Content (by Flame Photometer)	0.78 %
Potassium Oxide Content (by Flame Photometer)	<0.05 %
Alkali Content (by Flame Photometer)	0.78 %

Remarks (1) * Information provided by Customer.
(2) The results apply to the sample as received.
(3) The results relate only to the items tested.
(4) All % stated above are by mass of sample unless stated otherwise.
(5) The tests are in accordance with BS EN 934, Part 2: 2009 Cl.4.1.

- End Of Report -

Approved By :
LEE Mei-yee, Julia (Chief Chemist)



ADMIXTURE TEST REPORT

Customer* : SOBUTE(HK) New Materials Co. Ltd./
江蘇蘇特(香港)新材料股份有限公司

Customer Address* : 新界葵青區葵青道88號永得利廣場1座15樓6室

AQ Ref. : S020

Customer's Ref.* : N/A

Admixture Name* : JM-X(B)

Admixture Type* : Superplasticizing Admixture

Source* : 江蘇蘇特(香港)新材料股份有限公司

Batch No.* : N/A

Place Sampled* : Zhongshan, Guangdong

Date Sampled* : N/A

Report No. : 211005MAD-1C

Report Date : 18/10/2021

Page No. : 1 of 1

Date Received : 09/10/2021

Sampling Cert. No.* : Not Available

Sample Size : 1L

AQ Sample No. : 211005MAD-1C/1

Test Location : Ping Che Main Lab.

Date Tested : 09/10/2021 to 17/10/2021

Tested By : K.Y. Cheung

TEST RESULTS

Sulphate (as SO₃) Content = <0.01 % (by mass of sample)

Remarks (1) * Information provided by Customer.
(2) The results apply to the sample as received.
(3) The results relate only to the items tested.

- End Of Report -

Approved By :
LEE Mei-yee, Julia (Chief Chemist)
LIN Wing Yin (Chemist)

TEST REPORT	
Report No.: 01427E100674	Date Issued: 30-Aug-2021
Page no. 1 of 1	

INFORMATION SUPPLIED BY CUSTOMER

Customer : New Smart Enterprise Ltd.
 Customer Address : Units 2102-04, 21/F, NEO, 123 Hoi Ben Road, Kwan Tong, Kowloon, Hong Kong
 Project : Material Testing
 Cement Brand : UBE
 Type of Cement : ORDINARY PORTLAND CEMENT
 Sampling Place : Plant
 Date of Sampling : 22-Jul-2021
 Source/Origin : Japan
 Strength Class : 52.5N
 Customer Sample ID : CEM-UBE-210720209

LABORATORY INFORMATION

Date Received : 23-Jul-2021
 Date Test Commenced : 28-Jul-2021
 Date Test Completed : 23-Aug-2021
 Lab Sample ID : E100874
 Test Location : Main Laboratory
 Sample Mass as Received : 8 kg

Test	Test Results	Requirements of BS EN 197-1:2011 table 3
FINENESS (BS EN 196-3: 2005 + A1:2008 Cl. 4 (by Blaine Method))	Specific Surface : 3110 cm ² /g	Not Specified
DENSITY (BS EN 196-3: 2005 + A1:2008 Annex N2)	Test 1 3.138 g/cm ³ Test 2 3.140 g/cm ³ Average 3.14 g/cm ³	Not Specified
STANDARD CONSISTENCE (BS EN 196-3: 2005 + A1:2008 Cl. 5)	27.5 %	Not Specified
SETTING TIME (BS EN 196-3: 2005 + A1:2008 Cl. 6)	Initial Setting Time 186 min. Final Setting Time 225 min.	>45 min. Not Specified
SOUNDNESS (BS EN 196-3: 2005 + A1:2008 Cl. 7)	Average 1.0 mm	≤10mm
FLEXURAL STRENGTH (BS EN 196-1: 2005)	2 days 6.3 MPa 7 days 7.5 MPa 28 days 8.8 MPa	Not Specified
COMPRESSIVE STRENGTH (BS EN 196-1: 2005)	2 days 28.9 MPa 7 days 50.0 MPa 28 days 62.6 MPa	≥20 MPa Not Specified ≥52.5 MPa

Remark : (1) The test results relate only to the sample tested.

Checked By:  Approved Signatory: 
 KWOK Chun Wa (Technical Manager)

Section 5 Cement Test Certificates

Test Report

Chemical Analysis of Cement

Date of issue: 04-08-2021
Page 1 of 3Specimen No.: CHEM-210715-2531-001
Castco LRN: 210715-2531Details as supplied by customer

Name of Customer: New Smart Enterprise Limited
Address: Units 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong
Job Title: Material Testing
Contract No.: -
Customer's Ref. No.: -

Sample details as supplied by customer

Location of Works: -
Cement Brand: UBE
Country of Origin: Japan
Supplier: New Smart Enterprise Limited
Strength Class: 52.5N
Sample Identification No.: CEM-UBE-210713057s
Date and Place Sampled: 13-07-2021, Plant

Remarks:

- I. Test results only relate to the specimen tested.
- II. The results of samples are reported as received basis.
- III. The loss on ignition is observed only.

Checked by:


Lau Hiu Yat
Assistant Technical Manager

Approved Signatory:


Cheng Chi Fai
Senior Manager

Form No.: CEM CEM T1 (4/2004/2021)

Test Report

Chemical Analysis of Cement

Date of issue: 04-08-2021
Page 2 of 3Specimen No.: CHEM-210715-2531-001
Castco LRN: 210715-2531Laboratory test details

Date of Request Confirmed: 15-07-2021 Date of Received by Lab.: 15-07-2021
Testing Period: 20-07-2021 to 30-07-2021

	Chemical Analysis	Result
1) Loss on Ignition	%	2.61
2) Sulfate Content	SO ₃ %	1.87
3) Residue Insoluble in Hydrochloric Acid and Sodium Carbonate	%	0.06
4) Total Silica Content	SiO ₂ %	19.96
5) Iron (III) Oxide Content	Fe ₂ O ₃ %	3.19
6) Aluminium Oxide Content	Al ₂ O ₃ %	5.63
7) Calcium Oxide Content	CaO %	64.16
8) Magnesium Oxide Content	MgO %	0.97
9) Chloride Content	Cl ⁻ %	0.02
10) Alkali Content (Sodium Oxide Equivalent Content)	%	0.47

Test Method(s):

- 1) BS EN 196-2 : 2005, Clause 7
- 2) BS EN 196-2 : 2005, Clause 8
- 3) BS EN 196-2 : 2005, Clause 9
- 4) BS EN 196-2 : 2005, Clause 13.9
- 5) BS EN 196-2 : 2005, Clause 13.10
- 6) BS EN 196-2 : 2005, Clause 13.11
- 7) BS EN 196-2 : 2005, Clause 13.12 (Reference Method)
- 8) BS EN 196-2 : 2005, Clause 13.13 (Reference Method)
- 9) BS EN 196-2 : 2005, Clause 14
- 10) BS EN 196-2 : 2005, Clause 17 (Reference Method)

Form No.: CEM CEM T1 (4/2004/2021)

Test Report

Chemical Analysis of Cement

Date of issue: 04-08-2021
Page 3 of 3
Specimen No.: CHEM-210715-2531-001
Castco LRN: 210715-2531

Laboratory test details

Date of Request/Confirmed: 15-07-2021
Date of Received by Lab.: 15-07-2021

Testing Period: 20-07-2021 to 30-07-2021

Chemical Analysis	Result
1) Calcium Sulfate	2.15
2) Tricalcium Silicate	61.78
12) Dicalcium Silicate	10.62
13) Tricalcium Aluminate	9.52
12) Tetra calcium Aluminoferrite	9.71

Test Method(s):

- 1) BS EN 197-1 : 2000, Clause 3.1
- 2) Calculated Values of Compounds C₃S, C₂S, C₃A, C₄AF (Reference ASTM C150-97)

End of Report

TEST REPORT

Report no.: 01427H100320
Date issued: 07/09/2021
Page no.: 1 of 2
Test description: Acid-soluble alkali content of cement
Test method: BS EN 196-2: 2013 Cl. 4.5.19

Information supplied by Customer:

Customer: New Smart Enterprise Limited
Customer address: Units 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong
Project: Material Testing
Sample description: Cement (Brand: UBE)
Type of cement: OPC
Origin of cement: Japan

Laboratory Information and Test Results

Date sample received: 19/08/2021
Date of Test: 25/08/2021

Lab Sample ID	Customer's reference No.	Date of sampling	Sodium oxide (Na ₂ O) content by mass of sample, %	Potassium oxide (K ₂ O) content by mass of sample, %	Acid-soluble alkali content (Equivalent Na ₂ O = Na ₂ O + K ₂ O × 0.658) by mass of sample, %
H100320/ 1	CMA-URE- 210703 012/1	03/07/2021	0.09	0.37	0.33
H100320/ 2	CMA-URE- 210705 012/2	05/07/2021	0.09	0.37	0.33
H100320/ 3	CMA-URE- 210706 012/3	06/07/2021	0.09	0.38	0.34
H100320/ 4	CMA-URE- 210707 012/4	07/07/2021	0.09	0.37	0.33
H100320/ 5	CMA-URE- 210708 012/5	08/07/2021	0.09	0.37	0.33
H100320/ 6	CMA-URE- 210709 012/6	09/07/2021	0.09	0.39	0.35
H100320/ 7	CMA-URE- 210710 012/7	10/07/2021	0.09	0.37	0.33
H100320/ 8	CMA-URE- 210712 012/8	12/07/2021	0.09	0.38	0.34
H100320/ 9	CMA-URE- 210713 012/9	13/07/2021	0.09	0.36	0.33
H100320/ 10	CMA-URE- 210714 012/10	14/07/2021	0.09	0.38	0.34
H100320/ 11	CMA-URE- 210715 012/11	15/07/2021	0.09	0.37	0.33
H100320/ 12	CMA-URE- 210716 012/12	16/07/2021	0.09	0.38	0.34
H100320/ 13	CMA-URE- 210717 012/13	17/07/2021	0.09	0.38	0.34
H100320/ 14	CMA-URE- 210719 012/14	19/07/2021	0.09	0.37	0.33
H100320/ 15	CMA-URE- 210720 012/15	20/07/2021	0.09	0.37	0.33
H100320/ 16	CMA-URE- 210721 012/16	21/07/2021	0.09	0.38	0.34
H100320/ 17	CMA-URE- 210722 012/17	22/07/2021	0.09	0.38	0.34
H100320/ 18	CMA-URE- 210723 012/18	23/07/2021	0.09	0.37	0.33
H100320/ 19	CMA-URE- 210724 012/19	24/07/2021	0.09	0.38	0.34
H100320/ 20	CMA-URE- 210725 012/20	25/07/2021	0.09	0.37	0.33
H100320/ 21	CMA-URE- 210727 012/21	27/07/2021	0.09	0.39	0.35
H100320/ 22	CMA-URE- 210728 012/22	28/07/2021	0.09	0.38	0.34
H100320/ 23	CMA-URE- 210729 012/23	29/07/2021	0.09	0.37	0.33
H100320/ 24	CMA-URE- 210730 012/24	30/07/2021	0.09	0.38	0.34
H100320/ 25	CMA-URE- 210731 012/25	31/07/2021	0.09	0.37	0.33

Remarks: (1) The results of this report relate only to the samples tested.

H019R1 (30-4-2019)

TEST REPORT		
Report no. : 01427H100320	Date issued: 02/09/2021	Page no.: 2 of 2
Test description : Acid-soluble alkali content of cement		
Test method : BS EN 196-2: 2013 Cl. 4.5.19		

Information Supplied by Customer

Customer : New Smart Enterprise Limited
Customer address : Units 2102-04, 21/F, NEO, 123 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong
Project : Material Testing
Sample description : Cement (Brand: UBE)
Type of cement : OPC
Origin of cement : Japan

Summary of Test Results*

Average result of 25 samples	0.34	%
Standard deviation of 25 samples	0.0047	%

* The summary is not in the scope of HOKLAS accreditation.

Checked by:



Approved signatory:



Victor Yip Wing Chi (Manager, Chemical Lab)

~~~ End of Report ~~~

H019R1 (30-4-2019)

## Section 6

### Water Test Reports



Report No. :

**Test Report on Chemical Analysis of Water**

**Information Supplied by Client**

Client : China Concrete Company Limited  
Client's address :

Project : Material Testing - Water  
Sample description : One sample of water  
Client sample ID. : WAT-210722003  
Source :  
Date of sampling : 22/07/2021  
Place of sampling : Plant  
Tests required : Chloride content (Cl)

**Laboratory Information**

Laboratory sample ID. : CH211291/1  
Date of receipt of sample : 23/07/2021  
Date test commenced : 23/07/2021  
Date test completed : 06/08/2021  
Test methods used : BS EN 1008: 2002 Cl.6.1.3

**Result**

BS 3148 : 1980  
Appendix A  
Requirements

Chloride content (as Cl) ..... 3 mg/L

Remarks : The following statement is an opinion of MaterialLab and is not covered under the HOKLAS accreditation:  
The submitted sample was found to comply with the requirements of BS 3148 : 1980 Appendix A - Notes on the Suitability of Water for Making Concrete Cl.A3.2.

Supervised by : H.Y. Chan  
Certified by : Approved Signatory : HO Kin Man, John  
Assistant General Manager - Laboratories  
Date : 9/8/2021

\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.

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Report No. :

**Test Report on Chemical Analysis of Water**

**Information Supplied by Client**

Client : China Concrete Company Limited  
Client's address :

Project : Material Testing - Water  
Sample description : One sample of water  
Client sample ID. : WAT-210722003  
Source :  
Date of sampling : 22/07/2021  
Place of sampling : Plant  
Tests required : Sulphate content (as SO<sub>3</sub>)

**Laboratory Information**

Laboratory sample ID. : CH211291/1  
Date of receipt of sample : 23/07/2021  
Date test commenced : 23/07/2021  
Date test completed : 06/08/2021  
Test methods used : BS EN 1008: 2002 Cl.6.1.3

**Result**

BS 3148 : 1980  
Appendix A  
Requirements

Sulphate content (as SO<sub>3</sub>) ..... 37 mg/L

Remarks : The following statement is an opinion of MaterialLab and is not covered under the HOKLAS accreditation:  
The submitted sample was found to comply with the requirements of BS 3148 : 1980 Appendix A - Notes on the Suitability of Water for Making Concrete Cl.A3.3.

Supervised by : H.Y. Chan  
Certified by : Approved Signatory : HO Kin Man, John  
Assistant General Manager - Laboratories  
Date : 9/8/2021

\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.

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Report No. :  Page 1 of 1Test Report on Chemical Analysis of WaterInformation Supplied by Client

Client : China Concrete Company Limited  
Client's address :  
Project : Material Testing - Water  
Sample description : One sample of water  
Client sample ID. : WAT-210722003  
Source :  
Date of sampling : 22/07/2021  
Place of sampling : Plant  
Tests required : Bicarbonate and carbonate contents

Laboratory Information

Laboratory sample ID. : CH211291/1  
Date of receipt of sample : 23/07/2021  
Date test commenced : 23/07/2021  
Date test completed : 06/08/2021  
Test methods used : In-house Method C-T-194

Results

BS 3148 : 1980  
Appendix A  
Requirements

Bicarbonate and carbonate contents ..... 47 mg/L <1000 mg/L

Remarks : The following statement is an opinion of Materialab and is not covered under the HOKLAS accreditation:  
The submitted sample was found to comply with the requirements of BS 3148 : 1980 Appendix A - Notes on the Suitability of Water for Making Concrete C1A3.4.

Supervised by : H.Y. Chan Certified by  Approved Signatory : HO Kin Man, John  
Assistant General Manager - Laboratories  
Date : 9/8/2021  
\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.

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Report No. :  Page 1 of 1Test Report on Chemical Analysis of WaterInformation Supplied by Client

Client : China Concrete Company Limited  
Client's address :  
Project : Material Testing - Water  
Sample description : One sample of water  
Client sample ID. : WAT-210722003  
Source :  
Date of sampling : 22/07/2021  
Place of sampling : Plant  
Tests required : Total dissolved solids dried at 180°C

Laboratory Information

Laboratory sample ID. : CH211291/1  
Date of receipt of sample : 23/07/2021  
Date test commenced : 23/07/2021  
Date test completed : 06/08/2021  
Test methods used : In-house Method C-T-195

Result

Total dissolved solids dried at 180°C ..... 110 mg/L

Supervised by : H.Y. Chan Certified by  Approved Signatory : HO Kin Man, John  
Assistant General Manager - Laboratories  
Date : 9/8/2021  
\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.

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Report No. :



Page 1 of 1

Test Report on Chemical Analysis of Water

## Information Supplied by Client

Client : China Concrete Company Limited

Client's address :

Project : Material Testing - Water

Sample description : One sample of water

Client sample ID. : WAT-210722003

Source :

Date of sampling : 22/07/2021

Place of sampling : Plant

Test required : Acid-soluble alkali content (equivalent Na<sub>2</sub>O)

## Laboratory Information

Laboratory sample ID. : CH211291/1

Date of receipt of sample : 23/07/2021

Date test commenced : 23/07/2021

Date test completed : 06/08/2021

Test method used : In-house Method C-T-182

## Results :

Acid-soluble potassium oxide (K<sub>2</sub>O) by mass of sample ..... 0.0005 %Acid-soluble sodium oxide (Na<sub>2</sub>O) by mass of sample ..... 0.0013 %.: Acid-soluble alkali content (equivalent Na<sub>2</sub>O)  
(Na<sub>2</sub>O + 0.658 K<sub>2</sub>O) by mass of sample ..... 0.0016 %

Remark: The In-house Method C-T-182 is based on APHA 17ed. 3500K and Na.

Supervised by : H.Y. Chan

Certified by :

Approved Signatory : HO Kin Man, John  
Assistant General Manager - Laboratories

Date : 9/8/2021

\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.

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GEN00019

Report No. :



Page 1 of 1

Test Report on Chemical Analysis of Water

## Information Supplied by Client

Client : China Concrete Company Limited

Client's address :

Project : Material Testing - Water

Sample description : One sample of water

Client sample ID. : WAT-210722003

Source :

Date of sampling : 22/07/2021

Place of sampling : Plant

Test required : pH value

## Laboratory Information

Laboratory sample ID. : CH211291/1

Date of receipt of sample : 23/07/2021

Date test commenced : 23/07/2021

Date test completed : 06/08/2021

Test methods used : Ref. GEOSPEC 3:2001 Test 9.5

## Result :

pH value of sample ..... 7.2 at 26°C

Supervised by : H.Y. Chan

Certified by :

Approved Signatory : HO Kin Man, John  
Assistant General Manager - Laboratories

Date : 9/8/2021

\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.

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GEN00019



Report No. :

Page 1 of 1

**Test Report on Chemical Analysis of Water**

**Information Supplied by Client**

Client : China Concrete Company Limited

Client's address :

Project : Material Testing - Water

Sample description : One sample of water

Client sample ID. : WAT-210722003

Source :

Date of sampling : 22/07/2021

Place of sampling : Plant

Tests required : Turbidity

**Laboratory Information**

Laboratory sample ID. : CH211291/1

Date of receipt of sample : 23/07/2021

Date test commenced : 23/07/2021

Date test completed : 06/08/2021

Test methods used : Ref. APHA 18 ed. 2130B

Result :

Turbidity of sample ..... <1 NTU

Supervised by : H.Y. Chan

Certified by :

*[Signature]*  
Approved Signatory : HO Kin Man, John  
Assistant General Manager - Laboratories

Date :

9/8/2021

\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.

# **Section 7** **Alkali-Aggregate Reaction** **(AAR) Calculations**



中國混凝土有限公司  
CHINA CONCRETE COMPANY LTD.



## Concrete Mix Alkali Content Calculation

Our Reference: CCCTSI/J220107-2  
Client: Huij (re) Drainage Engineering Limited  
Project: Minor Works at No. 480 Ng Ka Tsuen, Kam Tin, Yuen Long, N.T.  
Main Plant: Sha Ling Plant - DD 89 Lot 551 SB & RP, Man Kam To Road, Sha Ling, NT.  
Back-up Plants:

| Materials (kg)                  | 40D/20 - 100mm |                |                | 40D/20 - 75mm  |                |                | 30D/20 - 100mm |                |                | 30D/20 - 75mm  |                |                |                |                |                |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                 | Mix Proportion | Alkali Content | Mix Proportion | Mix Proportion | Alkali Content | Mix Proportion | Mix Proportion | Alkali Content | Mix Proportion | Mix Proportion | Alkali Content | Mix Proportion | Mix Proportion | Alkali Content | Mix Proportion |
| 1 OPC                           | 440            | 1.5374         | 420            | 1.4675         | 355            | 1.2404         |                |                |                |                |                |                |                |                |                |
| 2 20mm                          | 655            | 0.0498         | 700            | 0.0532         | 675            | 0.0513         |                |                |                |                |                |                |                |                |                |
| 3 10mm                          | 320            | 0.0243         | 340            | 0.0258         | 330            | 0.0251         |                |                |                |                |                |                |                |                |                |
| 4 CRF                           | 700            | 0.0532         | 680            | 0.0517         | 745            | 0.0586         |                |                |                |                |                |                |                |                |                |
| 5 Water                         | 200            | 0.0032         | 190            | 0.0030         | 197            | 0.0032         |                |                |                |                |                |                |                |                |                |
| 6 Adm. - Concentrated           | 343            | 0.0311         | 360            | 0.0316         | 285            | 0.0291         |                |                |                |                |                |                |                |                |                |
| 7 Adm. - JM-XIB                 | 450            | 0.0351         |                |                | 450            | 0.0351         |                |                |                |                |                |                |                |                |                |
| 8 Adm. - PCA-I                  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 9 Adm. - Concentrated           |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 10 Adm. - PCA-VR                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 11 Adm. - Hydratite             |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 12                              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 13                              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| Total Sodium Oxide Content (kg) | ...            | 1.7341         | ...            | 1.6329         | ...            | 1.4367         | ...            | 1.3511         | ...            | ...            | ...            | ...            | ...            | ...            | ...            |

| Materials (kg)                  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                 | Mix Proportion | Alkali Content | Mix Proportion | Mix Proportion | Alkali Content | Mix Proportion | Mix Proportion | Alkali Content | Mix Proportion | Mix Proportion | Alkali Content | Mix Proportion | Mix Proportion | Alkali Content | Mix Proportion |
| 1 OPC                           |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 2 20mm                          |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 3 10mm                          |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 4 CRF                           |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 5 Water                         |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 6 Adm. - Concentrated           |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 7 Adm. - JM-XIB                 |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 8 Adm. - PCA-I                  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 9 Adm. - Concentrated           |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 10 Adm. - PCA-VR                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 11 Adm. - Hydratite             |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 12                              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 13                              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| Total Sodium Oxide Content (kg) |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |

Equivalent Sodium Oxide Content (kg):  
OPC: 0.3400%  
Mean over latest 25 consecutive results = 0.3400%  
SD over latest 25 consecutive results = 0.0047%  
Acid-soluble alkali content = 0.3400% ± 2 × 0.0047% = 0.3494%

Chloride Content in Aggregate:  
20mm: 0.0100%  
10mm: 0.0100%  
CRF: 0.0100%

Acid-soluble Alkali Content (kg):  
Water: 0.0116%

Alkali Content in Additives:  
Concentrated: 0.8800%  
JM-XIB: 0.7800%  
PCA-I: 0.8500%  
PCA-VR: 0.8600%  
Concentrated: 0.8800%  
Hydratite: 0.8000%

Calculation of Equivalent Sodium Oxide Content:  
OPC: 0.3400%  
20mm: 0.78 × 20mm × 0.0100%  
10mm: 0.78 × 10mm × 0.0100%  
CRF: 0.78 × CRF × 0.0100%  
Water: Water × 0.0116%  
JM-XIB: JM-XIB × 0.7800%  
PCA-I: PCA-I × 0.8500%  
PCA-VR: PCA-VR × 0.8600%  
Hydratite: Hydratite × 0.8000%

## Section 8 Concrete Mix Chloride Content Calculation



## Concrete Mix Chloride Content Calculation

Our Reference  
Client  
Project  
Main Plant  
Back-up Plants

CCOTIS/J220107-2  
Hang Tse Drainage Engineering Limited  
Minor Works at No. 400 Ng Nga Tsuen, Kam Tin, Yuen Long, N.T.  
Sha Ling Plant - DO 88 Lot 551 SB & RP, Man Kam To Road, Sha Ling, NT.

# Section 9 Concrete Mix Sulphate Content Calculation

| Materials (kg)                                             | 40D/20 - 100mm |                  |                | 40D/20 - 75mm  |                  |                | 30D/20 - 100mm |                  |                | 30D/20 - 75mm  |                  |                |                  |                |                  |
|------------------------------------------------------------|----------------|------------------|----------------|----------------|------------------|----------------|----------------|------------------|----------------|----------------|------------------|----------------|------------------|----------------|------------------|
|                                                            | Mix Proportion | Chloride Content | Mix Proportion | Mix Proportion | Chloride Content | Mix Proportion | Mix Proportion | Chloride Content | Mix Proportion | Mix Proportion | Chloride Content | Mix Proportion | Chloride Content | Mix Proportion | Chloride Content |
| 1 OPC                                                      | 440            | 0.0880           | 420            | 0.0840         | 355              | 0.0710         | 340            | 0.6860           | 340            | 0.6720         |                  |                |                  |                |                  |
| 2 20mm                                                     | 655            | 0.0855           | 700            | 0.0700         | 675              | 0.0675         | 720            | 0.6720           | 350            | 0.6350         |                  |                |                  |                |                  |
| 3 10mm                                                     | 320            | 0.0320           | 340            | 0.0340         | 330              | 0.0330         | 350            | 0.6350           | 350            | 0.6350         |                  |                |                  |                |                  |
| 4 C/F                                                      | 700            | 0.0700           | 600            | 0.0600         | 745              | 0.0745         | 720            | 0.6720           | 720            | 0.6720         |                  |                |                  |                |                  |
| 5 Water                                                    | 200            | 0.0006           | 150            | 0.0006         | 137              | 0.0006         | 130            | 0.0006           | 130            | 0.0006         |                  |                |                  |                |                  |
| 6 Adm. - Concentrated                                      | 3.53           | 0.0004           | 3.50           | 0.0004         | 2.85             | 0.0003         | 2.75           | 0.0003           | 2.75           | 0.0003         |                  |                |                  |                |                  |
| 7 Adm. - JM-X10B                                           | 4.50           | 0.0005           |                |                | 4.50             | 0.0005         |                |                  |                |                |                  |                |                  |                |                  |
| 8 Adm. - PCA-I                                             |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 9 Adm. - Conciproof                                        |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 10 Adm. - PCA-VR                                           |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 11 Adm. - Hydratite                                        |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 12                                                         |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| Total Chloride Content (kg)                                | ---            | 0.3589           | ---            | 0.3569         | ---              | 0.2473         | ---            | 0.2478           | ---            | 0.2729         |                  |                |                  |                |                  |
| Total Chloride Content % of Total Cementitious Content (%) | ---            | 0.0564           | ---            | 0.0612         | ---              | 0.0697         | ---            | 0.0729           | ---            | 0.0729         |                  |                |                  |                |                  |

| Materials (kg)                                             | 40D/20 - 100mm |                  |                | 40D/20 - 75mm  |                  |                | 30D/20 - 100mm |                  |                | 30D/20 - 75mm  |                  |                |                  |                |                  |
|------------------------------------------------------------|----------------|------------------|----------------|----------------|------------------|----------------|----------------|------------------|----------------|----------------|------------------|----------------|------------------|----------------|------------------|
|                                                            | Mix Proportion | Chloride Content | Mix Proportion | Mix Proportion | Chloride Content | Mix Proportion | Mix Proportion | Chloride Content | Mix Proportion | Mix Proportion | Chloride Content | Mix Proportion | Chloride Content | Mix Proportion | Chloride Content |
| 1 OPC                                                      |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 2 20mm                                                     |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 3 10mm                                                     |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 4 C/F                                                      |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 5 Water                                                    |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 6 Adm. - Concentrated                                      |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 7 Adm. - JM-X10B                                           |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 8 Adm. - PCA-I                                             |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 9 Adm. - Conciproof                                        |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 10 Adm. - PCA-VR                                           |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 11 Adm. - Hydratite                                        |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| 12                                                         |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| Total Chloride Content (kg)                                |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |
| Total Chloride Content % of Total Cementitious Content (%) |                |                  |                |                |                  |                |                |                  |                |                |                  |                |                  |                |                  |

| Chloride Content (%) |         | Water      |         | 0.0003%    |         | Calculation of Chloride Content |         |
|----------------------|---------|------------|---------|------------|---------|---------------------------------|---------|
| OPC                  | 0.0200% | Admixtures | 0.0003% | 20mm       | 0.0200% | OPC                             | 0.0200% |
| Aggregate            |         | JM-X10B    | 0.0100% | 10mm       | 0.0100% | 20mm                            | 0.0100% |
| 20mm                 | 0.0100% | Conciproof | 0.0100% | C/F        | 0.0100% | 10mm                            | 0.0100% |
| 10mm                 | 0.0100% | PCA-I      | 0.0100% | Water      | 0.0003% | C/F                             | 0.0100% |
| C/F                  | 0.0100% | Conciproof | 0.0100% | Conciproof | 0.0100% | Water                           | 0.0003% |
|                      |         | PCA-VR     | 0.0100% | JM-X10B    | 0.0100% | Conciproof                      | 0.0100% |
|                      |         | Hydratite  | 0.0100% | PCA-I      | 0.0100% | JM-X10B                         | 0.0100% |
|                      |         |            |         | Conciproof | 0.0100% | PCA-I                           | 0.0100% |
|                      |         |            |         | Hydratite  | 0.0100% | Conciproof                      | 0.0100% |
|                      |         |            |         |            |         | PCA-VR                          | 0.0100% |
|                      |         |            |         |            |         | Hydratite                       | 0.0100% |

### Concrete Mix Sulphate Content Calculation

**Our Reference**  
**Client**  
**Project**  
**Main Plant**  
**Back-up Plants**

CCGTS/J220107-2  
Hang Tze Drainage Engineering Limited  
Minor Works at No. 490 Ng Ka Tsuen, Kam Tin, Yuen Long, N.T.  
Sha Ling Plant - DD 89 Lot 531 SB & RP, Man Kam To Road, Sha

CCCTSI/J/20107-2

**Hang Tong Drainage Engineering Limited**

Minor Works at No. 400 Ng Ka Tsuen, Kam Tin, Yuen Long, N.T.

Sha Ling Plant - DD 89 L9L551 SB & RP, Man Kam To Road, Sha Ling, NT.

[illegible]

## Section 10 HEKQAA / ACI Certificate of Registration

| Materials (g) |                                                            | 40D20 - 100mm  |                  | 40D20 - 75mm   |                  | 30D20 - 100mm  |                  | 30D20 - 75mm   |                  | Sulphate Content | Mixture Proportion | Sulphate Content | Mixture Proportion |
|---------------|------------------------------------------------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|------------------|--------------------|------------------|--------------------|
|               |                                                            | Mix Proportion | Sulphate Content | Mix Proportion | Sulphate Content | Mix Proportion | Sulphate Content | Mix Proportion | Sulphate Content |                  |                    |                  |                    |
| 1             | OPC                                                        | 440            | 8.2265           | 428            | 7.8540           | 355            | 6.9365           | 340            | 6.3580           |                  |                    |                  |                    |
| 2             | 20mm                                                       | 665            | 0.6555           | 700            | 0.7000           | 676            | 0.6750           | 720            | 0.7200           |                  |                    |                  |                    |
| 3             | 10mm                                                       | 320            | 0.3200           | 348            | 0.3480           | 330            | 0.3300           | 350            | 0.3500           |                  |                    |                  |                    |
| 4             | GRF                                                        | 700            | 0.7000           | 840            | 0.8400           | 745            | 0.7450           | 720            | 0.7200           |                  |                    |                  |                    |
| 5             | Water                                                      | 200            | 0.0274           | 190            | 0.0270           | 187            | 0.0273           | 190            | 0.0270           |                  |                    |                  |                    |
| 6             | Adm. - Concrete                                            | 3.53           | 0.0004           | 3.65           | 0.0004           | 2.55           | 0.0003           | 2.73           | 0.0003           |                  |                    |                  |                    |
| 7             | Adm. - JMCUB                                               | 4.50           | 0.0005           |                |                  | 4.50           | 0.0005           |                |                  |                  |                    |                  |                    |
| 8             | Adm. - PCA                                                 |                |                  |                |                  |                |                  |                |                  |                  |                    |                  |                    |
| 9             | Adm. - Concrete                                            |                |                  |                |                  |                |                  |                |                  |                  |                    |                  |                    |
| 10            | Adm. - PCA VR                                              |                |                  |                |                  |                |                  |                |                  |                  |                    |                  |                    |
| 11            | Adm. - Hydrate                                             |                |                  |                |                  |                |                  |                |                  |                  |                    |                  |                    |
| 12            |                                                            |                |                  |                |                  |                |                  |                |                  |                  |                    |                  |                    |
|               | Total Sulphate Content (kg)                                | --             | 9.9112           | --             | 9.5814           | --             | 8.3965           | --             | 8.1552           |                  |                    |                  |                    |
|               | Total Sulphate Content % of Total Cementitious Content (%) | --             | 2.5255           | --             | 2.3813           | --             | 2.3652           | --             | 2.3986           |                  |                    |                  |                    |

| Materials (kg)                                            | Mixture Proportions |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
|-----------------------------------------------------------|---------------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
|                                                           | Mix Proportion      | Surplate Content | Mix Proportion | Surplate Content | Mix Proportion | Surplate Content | Mix Proportion | Surplate Content | Mix Proportion | Surplate Content | Mix Proportion | Surplate Content |
| 1                                                         | OPC                 |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 2                                                         | 20mm                |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 3                                                         | 10mm                |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 4                                                         | CRF                 |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 5                                                         | Water               |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 6                                                         | Adm. - Concrete     |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 7                                                         | Adm. - JM-X1(B)     |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 8                                                         | Adm. - PCA-I        |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 9                                                         | Adm. - Concrespoof  |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 10                                                        | Adm. - PCA-VF       |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 11                                                        | Adm. - Nyanite      |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| 12                                                        |                     |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| Total Surplate Content (kg)                               |                     |                  |                |                  |                |                  |                |                  |                |                  |                |                  |
| Total Surplate Content % of Total Concrements Content (%) |                     |                  |                |                  |                |                  |                |                  |                |                  |                |                  |

| Sulphate Content (%) |         | Calculation of Sulphate Content |         |
|----------------------|---------|---------------------------------|---------|
| OPC :                | 1.8700% | Water :                         | 0.0037% |
|                      |         | Admixtures :                    |         |
| Aggregate :          |         | Concrete :                      | 0.1000% |
| 28mm :               | 0.1000% | JM-X(UB) :                      | 0.1000% |
| 10mm :               | 0.1000% | Water :                         | 0.0037% |
| OPC :                | 0.1000% | Concrete :                      | 0.0007% |
|                      |         | JM-X(UB) :                      | 0.1000% |
|                      |         | PCA-I :                         | 0.0100% |
|                      |         | PCA-VB :                        | 0.0100% |
|                      |         | Hydralite :                     | 0.0100% |
|                      |         | PCA-VR :                        | 0.0100% |
|                      |         | Hydralite :                     | 0.0100% |



This is to certify that the Quality Management System of

**CHINA CONCRETE COMPANY LIMITED**  
Lei Yue Mun Plant

(The certification locations and scopes are listed in Appendix)

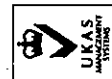
complies with the requirements of **ISO 9001 : 2015** quality management system standard,  
applicable to:

**Design, production and supply of ready mixed concrete**  
**Design, production and supply of ready-to-use mortars and floor screeds**

The certificate remains valid subject to satisfactory maintenance of the system  
which will be monitored by Hong Kong Quality Assurance Agency.

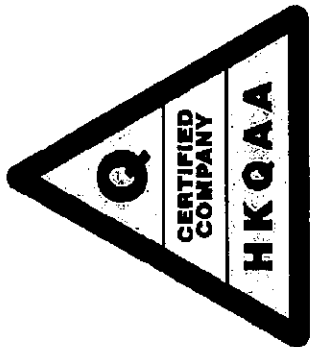
Signed for and on behalf of  
**HONG KONG QUALITY ASSURANCE AGENCY**

Chief Executive Officer  
  
Director



Registered address: 11/F, 110, Queen's Road East, Hong Kong  
Notified to the Agency Regulation, the Hong Kong Quality Assurance Agency maintains no liability or responsibility for  
any product or service supplied by the organization in accordance with the requirements of this Certificate Scheme. The use of the  
Accreditation mark(s) above on this certificate (if applicable) indicates accreditation in respect of those activities covered by the  
Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency. Further  
information regarding the scope of this certificate and its applicability of ISO 9001 : 2015 requirements may be obtained by consulting  
the organization.

Date of Granting: 30 April 2019 Expiry Date: 29 April 2021  
Effective Date (Recertification / Extension / Red-wood): 22 February 2021 Amendment Date: 24 February 2021



Appendix 1 of 1 to Certificate Number CC 6759

**CHINA CONCRETE COMPANY LIMITED**  
Lei Yue Mun Plant

Certification locations and correspondent scopes:

Certification Sites

Scope(s)

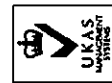
A

B

C

Legends of certification scope :

- A General office
- B Production of ready mixed concrete and mortars
- C Laboratory



Registered address: 11/F, 110, Queen's Road East, Hong Kong  
Notified to the Agency Regulation, the Hong Kong Quality Assurance Agency maintains no liability or responsibility for  
any product or service supplied by the organization in accordance with the requirements of this Certificate Scheme. The use of the  
Accreditation mark(s) above on this certificate (if applicable) indicates accreditation in respect of those activities covered by the  
Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency. Further  
information regarding the scope of this certificate and its applicability of ISO 9001 : 2015 requirements may be obtained by consulting  
the organization.

Date of Granting: 30 April 2019 Expiry Date: 29 April 2021  
Effective Date (Recertification / Extension / Red-wood): 22 February 2021 Amendment Date: 24 February 2021



## Certificate of Product Conformity

*This Certificate is issued to*

**CHINA CONCRETE COMPANY LIMITED**  
**Lei Yue Mun Plant**

(The certification locations and scopes are listed in Appendix)

*which complied with the requirements of*

**Quality Scheme for the Production and Supply of Concrete (QSPSC) : 2014**

*applicable to:*

**Ready mixed concrete**

*Product conformity certificates are awarded on the basis of assessment of the production facilities and quality control systems, plus testing of the product, all coupled with assessment of the supporting quality system. The certificate remains valid subject to satisfactory maintenance of the scheme requirement which will be monitored by Hong Kong Quality Assurance Agency.*

Signed for and on behalf of

**HONG KONG QUALITY ASSURANCE AGENCY**

*[Signature]*  
Chief Executive Officer



Registered address: 11/F, 110 Queen's Road East, Hong Kong. Note: In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by that Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency.

|                                              |                  |                |                  |
|----------------------------------------------|------------------|----------------|------------------|
| Date of Granting                             | 30 April 2019    | Expiry Date    | 29 April 2022    |
| Effective Date (Recertification / Extension) | 22 February 2021 | Amendment Date | 24 February 2021 |



*Appendix 1 of 1 to Certificate Number CC 6759-P*

**CHINA CONCRETE COMPANY LIMITED**  
**Lei Yue Mun Plant**

*Certification locations and correspondent scopes:*

Certification Sites

Scope(s)

A

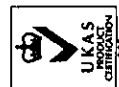
B

C

Legends of certification scope:

- A General office
- B Production of ready mixed concrete and mortars
- C Laboratory

Registered address: 11/F, 110 Queen's Road East, Hong Kong. Note: In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by that Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency.



|                                              |                  |                |                  |
|----------------------------------------------|------------------|----------------|------------------|
| Date of Granting                             | 30 April 2019    | Expiry Date    | 29 April 2022    |
| Effective Date (Recertification / Extension) | 22 February 2021 | Amendment Date | 24 February 2021 |



This is to certify that the Quality Management System of

**CHINA CONCRETE COMPANY LIMITED**  
Yau Tong Plant

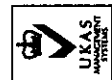
(The certification locations and scopes are listed in Appendix)

complies with the requirements of **ISO 9001 : 2015** quality management system standard,  
applicable to:

**Design, production and supply of ready mixed concrete**  
**Design, production and supply of ready-to-use mortars and floor screeds**

The certificate remains valid subject to satisfactory maintenance of the system  
which will be monitored by Hong Kong Quality Assurance Agency.

Signed for and on behalf of  
**HONG KONG QUALITY ASSURANCE AGENCY**



Registered address: 1, ...  
Notwithstanding to the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for  
any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the  
Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by the  
Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency. Further  
information regarding the scope of this certificate and the applicability of ISO 9001 : 2015 requirements may be obtained by contacting  
the organization.

|                                                         |                 |                 |                 |
|---------------------------------------------------------|-----------------|-----------------|-----------------|
| Date of Granting                                        | 30 July 2019    | Expiry Date     | 29 July 2022    |
| Effective Date (Re-certification / Extension / Redress) | 12 January 2021 | Assessment Date | 2 February 2021 |



Appendix 1 of 1 to Certificate Number CC 6832

**CHINA CONCRETE COMPANY LIMITED**  
Yau Tong Plant

Certification locations and correspondent scopes:

Certification Sites

Scope(s)

A

B

C

Legends of certification scope:

- A General office
- B Production of ready mixed concrete and mortars
- C Laboratory



Registered address: 1, ...  
Notwithstanding to the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for  
any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the  
Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by the  
Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency. Further  
information regarding the scope of this certificate and the applicability of ISO 9001 : 2015 requirements may be obtained by contacting  
the organization.

|                                                         |                 |                 |                 |
|---------------------------------------------------------|-----------------|-----------------|-----------------|
| Date of Granting                                        | 30 July 2019    | Expiry Date     | 29 July 2022    |
| Effective Date (Re-certification / Extension / Redress) | 12 January 2021 | Assessment Date | 2 February 2021 |



## Certificate of Product Conformity

*This Certificate is issued to*

**CHINA CONCRETE COMPANY LIMITED**  
**Yau Tong Plant**

(The certification locations and scopes are listed in Appendix)

*which complied with the requirements of*  
**Quality Scheme for the Production and Supply of Concrete (QSPSC) : 2014**  
*applicable to:*

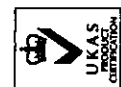
**Ready mixed concrete**

*Product conformity certificates are awarded on the basis of assessment of the production facilities and quality control systems, plus testing of the product, all coupled with assessment of the supporting quality system. The certificate remains valid subject to satisfactory maintenance of the scheme requirement which will be monitored by Hong Kong Quality Assurance Agency.*

Signed for and on behalf of

**HONG KONG QUALITY ASSURANCE AGENCY**

*[Signature]*  
Chief Executive Officer



Registered address  
Note: In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by the Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency.

|                                              |                 |                |                 |
|----------------------------------------------|-----------------|----------------|-----------------|
| Date of Granting                             | 30 July 2019    | Expiry Date    | 29 July 2022    |
| Effective Date (Recertification / Extension) | 12 January 2021 | Amendment Date | 2 February 2021 |



*Appendix 1 of 1 to Certificate Number CC 6832-P*

**CHINA CONCRETE COMPANY LIMITED**  
**Yau Tong Plant**

*Certification locations and correspondent scopes:*

Scope(s)

Certification Sites

A

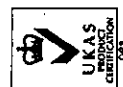
B

C

Legends of certification scope:

- A General office
- B Production of ready mixed concrete and mortars
- C Laboratory

Registered address  
Note: In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by the Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency.



|                                              |                 |                |                 |
|----------------------------------------------|-----------------|----------------|-----------------|
| Date of Granting                             | 30 July 2019    | Expiry Date    | 29 July 2022    |
| Effective Date (Recertification / Extension) | 12 January 2021 | Amendment Date | 2 February 2021 |



This is to certify that the Quality Management System of

# **CHINA CONCRETE COMPANY LIMITED** Sha Ling Plant

(The certification locations and scopes are listed in Appendix)

complies with the requirements of **ISO 9001 : 2015** quality management system standard, applicable to:

**Design, production and supply of ready mixed concrete**  
**Design, production and supply of ready-to-use mortars and floor screeds**

The certificate remains valid subject to satisfactory maintenance of the system which will be monitored by Hong Kong Quality Assurance Agency.

Signed for and on behalf of  
**HONG KONG QUALITY ASSURANCE AGENCY**

*[Signature]*  
Chief Executive Officer

Registered address: No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 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1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 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1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 21



## Certificate of Product Conformity

*This Certificate is issued to*

**CHINA CONCRETE COMPANY LIMITED**  
**Sha Ling Plant**

(The certification locations and scopes are listed in Appendix)

*which complied with the requirements of*

**Quality Scheme for the Production and Supply of Concrete (QSPSC) : 2014**

*applicable to:*

**Ready mixed concrete**

*Product conformity certificates are awarded on the basis of assessment of the production facilities and quality control systems, plus testing of the product, all coupled with assessment of the supporting quality system. The certificate remains valid subject to satisfactory maintenance of the scheme requirement which will be monitored by Hong Kong Quality Assurance Agency.*

Signed for and on behalf of  
**HONG KONG QUALITY ASSURANCE AGENCY**

*(Signature)*  
Chief Executive

Registered address  
Note: In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by the Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency.

|                                              |                 |                |                 |
|----------------------------------------------|-----------------|----------------|-----------------|
| Date of Granting                             | 29 October 2015 | Expiry Date    | 28 October 2024 |
| Effective Date (Recertification / Extension) | 29 October 2021 | Amendment Date | 11 June 2021    |



*Appendix 1 of 1 to Certificate Number CC 6041-P*

**CHINA CONCRETE COMPANY LIMITED**  
**Sha Ling Plant**

*Certification locations and correspondent scopes:*

Certification Sites

Scope(s)

A

B

Legends of certification scope :

- A General office
- B Production of ready mixed concrete and laboratory

Registered address  
Note: In accordance with the Agency Regulations, the Hong Kong Quality Assurance Agency undertakes no liability or responsibility for any product or service supplied by the organization in accordance with the requirements of this Certification Scheme. The use of the Accreditation mark(s) shown on this certificate (if applicable) indicates accreditation in respect of those activities covered by the Accreditation Authority. This certificate remains the property of HKQAA and shall be returned when required by the Agency.

|                                              |                 |                |                 |
|----------------------------------------------|-----------------|----------------|-----------------|
| Date of Granting                             | 29 October 2015 | Expiry Date    | 28 October 2024 |
| Effective Date (Recertification / Extension) | 29 October 2021 | Amendment Date | 11 June 2021    |





**CHINA CONCRETE COMPANY LIMITED**  
中國混凝土有限公司

complies with the requirements of  
ISO 14001 : 2015  
environmental management system standard, applicable to:

|                                                                                             |                          |
|---------------------------------------------------------------------------------------------|--------------------------|
| Design, production and supply of ready mixed concrete at designated sites                   | 預拌混凝土的設計、生產和供應於指定項目      |
| Design, production and supply of ready-to-use mortars and floor screeds at designated sites | 即用式灰漿和樓面沙漿的設計、生產和供應於指定項目 |

**Signed for and on behalf of**

ACCREDITED CERTIFICATION INTERNATIONAL LIMITED

**Authorised Signatory**



This certificate attests the property of Accredited Certification International Limited and shall be returned immediately upon request. In accordance with the ACT Regulations, the ACT undertakes no liability or responsibility for any management system applied in accordance with the requirements of these ACT Certifications Schemes. The accreditation number indicates NMS accreditation in accordance with the ACT Regulations. The registration number indicates NMS accreditation in accordance with the ACT Regulations. The registration number indicates NMS accreditation in accordance with the ACT Regulations. The registration number indicates NMS accreditation in accordance with the ACT Regulations.

The continued validity may be verified via scanning the code with a smartphone or via website.

**Scua to verify:**



**this certificate**

Original Certification 21 December 2015

Amendment 6 November 2021

**Expiry 20 December 2024**

**CHINA CONCRETE COMPANY LIMITED**  
**中國混凝土有限公司**

**Additional certification site(s):**

**Signed for and on behalf of**

**ACCREDITED CERTIFICATION INTERNATIONAL LIMITED**

**Authorised Signatory**



**Notes:** The certificate remains the property of Accredited Certification International Limited and shall be returned immediately upon request. In accordance with the AQI Regulations, the AQI undertake no liability or responsibility for any management system outputs claimed in accordance with the requirements of the Certification Scheme. The accreditation logo indicates ISO 14001 certification in respect of these activities of AQI covered under registration number HECAIS 011. Further standards in respect of other activities may be obtained by contacting the organization. The accreditation logo indicates the date of the expiry of the certificate and the applicability of ISO 14001: 2015 requirements may be obtained by consulting the organization. The original certificate becomes invalid if the date is changed by the organization.

The continued validity may be verified via scanning the code with a smartphone or via website  
Further enquiry, please contact 0521 3

**Scan to verify.**



**this certificate**

Amendment 5 November 2021

Original Certification 21 December 2015

**Expiry 20 December 2024**

Certificate No: S525



This is to certify that the Occupational Health and Safety Management System of

**CHINA CONCRETE COMPANY LIMITED**  
中國混凝土有限公司

complies with the requirements of  
**ISO 45001 : 2018**  
OHS management system standard, applicable to:

Design, production and supply of ready mixed concrete at designated sites  
Design, production and supply of ready-to-use mortars and floor screeds at designated sites  
預拌混凝土的設計、生產和供應於指定項目  
預拌沙漿和地台沙漿的設計、生產和供應於指定項目

Signed for and on behalf of

**ACCREDITED CERTIFICATION INTERNATIONAL LIMITED**

*[Signature]*

Authorised Signatory

Scan to verify



this certificate

Note: This certificate remains the property of Accredited Certification International Limited and shall be returned immediately upon the expiry of the certificate. The accreditation logo indicates HASE accreditation in respect of these activities of ACC covered under registration number HASE/111. Further clarifications regarding the requirements of the standard may be obtained from the Accredited Certification International Limited (ACIL) by contacting the organisation. Initial certification was originally awarded against the requirement of OHSAS 18001:2007. The original certification number indicates the date of certification granted by previous certification body.

The continued validity may be verified via scanning the code with a smartphone or via email contact (852) 111 1111. Further enquiry, please contact (852) 111 1111.



Original Certification 21 December 2015

Amendment 6 November 2021

Expiry 20 December 2024

Appendix 1 of 1 to Certificate Number S525

**CHINA CONCRETE COMPANY LIMITED**  
中國混凝土有限公司

Additional certification site(s):

Signed for and on behalf of

**ACCREDITED CERTIFICATION INTERNATIONAL LIMITED**

*[Signature]*

Authorised Signatory

Scan to verify



this certificate

Note: This certificate remains the property of Accredited Certification International Limited and shall be returned immediately upon the expiry of the certificate. The accreditation logo indicates HASE accreditation in respect of these activities of ACC covered under registration number HASE/111. Further clarifications regarding the requirements of the standard may be obtained from the Accredited Certification International Limited (ACIL) by contacting the organisation. Initial certification was originally awarded against the requirement of OHSAS 18001:2007. The original certification number indicates the date of certification granted by previous certification body.

The continued validity may be verified via scanning the code with a smartphone or via email contact (852) 111 1111. Further enquiry, please contact (852) 111 1111.



Original Certification 21 December 2015

Amendment 6 November 2021

Expiry 20 December 2024

## Section 11

## Trial Mix Summary

Customer : General  
Project : Laboratory Trial for Submission Purposes  
Plant : CCC Lab. Mix : 400/20 - 100mm

| Material   | Mix Proportion (kg/m3)                                                                                                                                                   | Source / Supplier                                            |      |      |      |      |            |                          |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------|------|------|------|------------|--------------------------|
| OPC        | 440                                                                                                                                                                      | Ube Cement - Ube Industries Ltd. - New Smart Enterprise Ltd. |      |      |      |      |            |                          |
| PFA        | -                                                                                                                                                                        | Cum Phi Cement Plant - HMM Construction Materials Co., Ltd.  |      |      |      |      |            |                          |
| 20mm       | 655                                                                                                                                                                      | Jiang Men City Xin Ning Quarry Co., Ltd. - Giant Elegant Ltd |      |      |      |      |            |                          |
| 10mm       | 320                                                                                                                                                                      |                                                              |      |      |      |      |            |                          |
| CRF        | 700                                                                                                                                                                      |                                                              |      |      |      |      |            |                          |
| Water      | 200                                                                                                                                                                      | Government Mains - Water Supplies Department                 |      |      |      |      |            |                          |
| Admixtures | 1 2.35 +/- 1.18                                                                                                                                                          | Sobute (H.K.) New Materials Co., Ltd.                        |      |      |      |      |            |                          |
|            | 2 2.50 +/- 2.00                                                                                                                                                          |                                                              |      |      |      |      |            |                          |
| Date Cast  | Test Items                                                                                                                                                               | Test Results                                                 |      |      |      |      |            | Avg strength of 18 cubes |
|            |                                                                                                                                                                          | A                                                            | B    | C    | D    | E    | F          |                          |
| Total 1    | Actual Slump (mm)                                                                                                                                                        | 100                                                          |      |      |      |      |            | 100                      |
|            |                                                                                                                                                                          | 100                                                          | 100  | 100  | 100  | 100  | 100        |                          |
|            | Density (kg/m3)                                                                                                                                                          | 2320                                                         | 2340 | 2330 | 2330 | 2350 | 2330       | 59.5                     |
|            |                                                                                                                                                                          | 57.9                                                         | 60.9 | 52.1 | 57.2 | 59.5 | 58.5       |                          |
| Total 2    | 28 Day Strength (Mpa)                                                                                                                                                    | 100                                                          |      |      |      |      |            | 100                      |
|            |                                                                                                                                                                          | 100                                                          | 100  | 100  | 100  | 100  | 100        |                          |
|            | Actual Slump (mm)                                                                                                                                                        | 100                                                          |      |      |      |      |            | 100                      |
|            |                                                                                                                                                                          | 100                                                          | 100  | 100  | 100  | 100  | 100        |                          |
| Total 3    | Density (kg/m3)                                                                                                                                                          | 2350                                                         | 2340 | 2340 | 2350 | 2320 | 2330       | 59.5                     |
|            |                                                                                                                                                                          | 55.5                                                         | 49.0 | 61.6 | 61.6 | 59.4 | 62.2       |                          |
|            | 28 Day Strength (Mpa)                                                                                                                                                    | 100                                                          |      |      |      |      |            | 100                      |
|            |                                                                                                                                                                          | 100                                                          | 100  | 100  | 100  | 100  | 100        |                          |
| Total 4    | Actual Slump (mm)                                                                                                                                                        | 100                                                          |      |      |      |      |            | 100                      |
|            |                                                                                                                                                                          | 100                                                          | 100  | 100  | 100  | 100  | 100        |                          |
|            | Density (kg/m3)                                                                                                                                                          | 2350                                                         | 2330 | 2350 | 2340 | 2350 | 2350       | 59.5                     |
|            |                                                                                                                                                                          | 59.0                                                         | 59.9 | 60.1 | 61.3 | 54.5 | 62.6       |                          |
|            | Requirements                                                                                                                                                             |                                                              |      |      |      |      | Compliance |                          |
|            |                                                                                                                                                                          |                                                              |      |      |      |      |            |                          |
| 1          | The average compressive strength at 28 day of the 18 test cubes shall exceed the grade strength by at least 14MPa                                                        |                                                              |      |      |      |      |            | Yes                      |
| 2          | The compressive strength of each individual test cubes shall exceed the grade strength by at least 7MPa                                                                  |                                                              |      |      |      |      |            | Yes                      |
| 3          | The range of the compressive strength of the 6 cubes from each batch of concrete shall not exceed 20% of the average compressive strength of the 6 cubes from that batch |                                                              |      |      |      |      |            | Yes                      |
| 4          | The average of the 3 measured slump values shall be within +/- 20mm or +/- 25%, whichever is the greater, of the designed slump value                                    |                                                              |      |      |      |      |            | Yes                      |
| 5          | The range of the 3 measured slump values for each batch of concrete shall not exceed 20% of the average of the 3 measured slump values for that batch                    |                                                              |      |      |      |      |            | Yes                      |

|                                                                                                  |                          |
|--------------------------------------------------------------------------------------------------|--------------------------|
| TEST REPORT                                                                                      |                          |
| Report no.: 00095CU256979                                                                        | Date issued: 02-Dec-2021 |
| Page no.: 1 of 1                                                                                 |                          |
| Test description: COMPRESSIVE STRENGTH OF CUBE                                                   |                          |
| Test method: 1. Compressive strength: CS1 : 2010 Section 12<br>2. Density: CS1 : 2010 Section 16 |                          |

## Sample details as supplied by customer

Customer : China Concrete Company Ltd.  
 Customer Address :  
 Project : Lau Nien  
 Pour Location :  
 Date Cast : 28-Oct-2021  
 Location of Storage Prior to Demoulding :-

## Laboratory test results

Date Received : 25-Nov-2021  
 Lab. Curing Method :-

Date Tested : 25-Nov-2021

Age : 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density (kg/m <sup>3</sup> ) | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-------------------------------------------|-----------------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256979    | L1-0467A           | 40D20-100mm    | -/-                                       | 100.1 x 100.2 x 100.3                   | 2.333                           | 2320                         | 581.5                        | 57.9                                      | Normal      |
| CU256980    | L1-0467B           | 40D20-100mm    | -/-                                       | 100.1 x 100.1 x 100.3                   | 2.348                           | 2340                         | 611.6                        | 60.9                                      | Normal      |
| CU256981    | L1-0467C           | 40D20-100mm    | -/-                                       | 99.9 x 100.2 x 100.2                    | 2.338                           | 2330                         | 522.8                        | 52.1                                      | Normal      |
| CU256982    | L1-0467D           | 40D20-100mm    | -/-                                       | 100.2 x 100.1 x 100.2                   | 2.341                           | 2330                         | 573.4                        | 57.2                                      | Normal      |
| CU256983    | L1-0467E           | 40D20-100mm    | -/-                                       | 99.9 x 100.1 x 100.2                    | 2.352                           | 2350                         | 596.4                        | 59.5                                      | Normal      |
| CU256984    | L1-0467F           | 40D20-100mm    | -/-                                       | 100.2 x 100.1 x 100.2                   | 2.346                           | 2330                         | 586.9                        | 58.5                                      | Normal      |

Remarks: (1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory: \_\_\_\_\_

TANG Kwok Fu, Herman (Manager)

\*\*End of Report\*\*

N001R2(11072018)

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AD023 (28-09-2021)

|                                                                                                  |                          |
|--------------------------------------------------------------------------------------------------|--------------------------|
| TEST REPORT                                                                                      |                          |
| Report no.: 00095CU257059                                                                        | Date issued: 02-Dec-2021 |
| Page no.: 1 of 1                                                                                 |                          |
| Test description: COMPRESSIVE STRENGTH OF CUBE                                                   |                          |
| Test method: 1. Compressive strength: CS1 : 2010 Section 12<br>2. Density: CS1 : 2010 Section 16 |                          |

## Sample details as supplied by customer

Customer : China Concrete Company Ltd.  
 Customer Address :  
 Project : Lau Nien  
 Pour Location :  
 Date Cast : 28-Oct-2021  
 Location of Storage Prior to Demoulding :-

## Laboratory test results

Date Received : 25-Nov-2021  
 Lab. Curing Method :-

Date Tested : 25-Nov-2021

Age : 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density (kg/m <sup>3</sup> ) | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-------------------------------------------|-----------------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------------------|-------------|
| CU257059    | L1-0468A           | 40D20-100mm    | -/-                                       | 100.2 x 100.1 x 100.2                   | 2.358                           | 2350                         | 557.0                        | 55.5                                      | Normal      |
| CU257060    | L1-0468B           | 40D20-100mm    | -/-                                       | 100.1 x 99.9 x 100.2                    | 2.349                           | 2340                         | 490.8                        | 49.0                                      | Normal      |
| CU257061    | L1-0468C           | 40D20-100mm    | -/-                                       | 100.1 x 100.2 x 100.3                   | 2.351                           | 2340                         | 619.2                        | 61.6                                      | Normal      |
| CU257062    | L1-0468D           | 40D20-100mm    | -/-                                       | 99.7 x 99.8 x 100.2                     | 2.344                           | 2350                         | 615.7                        | 61.6                                      | Normal      |
| CU257063    | L1-0468E           | 40D20-100mm    | -/-                                       | 100.2 x 100.1 x 100.3                   | 2.338                           | 2320                         | 595.1                        | 59.4                                      | Normal      |
| CU257064    | L1-0468F           | 40D20-100mm    | -/-                                       | 100.1 x 100.2 x 100.1                   | 2.337                           | 2330                         | 624.2                        | 62.2                                      | Normal      |

Remarks: (1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory: \_\_\_\_\_

TANG Kwok Fu, Herman (Manager)

\*\*End of Report\*\*

N001R2(11072018)

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AD023 (28-09-2021)



| TEST REPORT                                                                                      |                          |
|--------------------------------------------------------------------------------------------------|--------------------------|
| Report no: 00095CU256943                                                                         | Date issued: 02-Dec-2021 |
| Page no.: 1 of 1                                                                                 |                          |
| Test description: COMPRESSIVE STRENGTH OF CUBE                                                   |                          |
| Test method: 1. Compressive strength: CS1 : 2010 Section 12<br>2. Density: CS1 : 2010 Section 16 |                          |

Sample details as supplied by customer

Customer : China Concrete Company Ltd.  
Project :  
Pour Location :  
Date Cast : 28-Oct-2021  
Location of Storage Prior to Demoulding :-

Laboratory test results

Date Received : 25-Nov-2021

Lab. Curing Method :-

Date Tested : 25-Nov-2021

Age : 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density (kg/m <sup>3</sup> )<br>As-received | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-------------------------------------------|-----------------------------------------|---------------------------------|---------------------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256943    | L1-0461A           | 40D20-75mm     | -/-                                       | 100.1 x 100.2 x 100.3                   | 2.361                           | 2350                                        | 623.5                        | 62.0                                      | Normal      |
| CU256944    | L1-0461B           | 40D20-75mm     | -/-                                       | 100.2 x 100.1 x 100.2                   | 2.359                           | 2350                                        | 590.3                        | 58.9                                      | Normal      |
| CU256945    | L1-0461C           | 40D20-75mm     | -/-                                       | 99.9 x 100.2 x 100.3                    | 2.348                           | 2340                                        | 584.4                        | 58.1                                      | Normal      |
| CU256946    | L1-0461D           | 40D20-75mm     | -/-                                       | 100.1 x 100.2 x 100.1                   | 2.362                           | 2350                                        | 542.8                        | 54.1                                      | Normal      |
| CU256947    | L1-0461E           | 40D20-75mm     | -/-                                       | 99.9 x 100.2 x 100.1                    | 2.369                           | 2350                                        | 476.7                        | 47.5                                      | Normal      |
| CU256948    | L1-0461F           | 40D20-75mm     | -/-                                       | 100.1 x 100.2 x 100.2                   | 2.351                           | 2340                                        | 586.8                        | 58.4                                      | Normal      |

Remarks: (1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory: \_\_\_\_\_

TANG Kwok Fu, Herman (Manager)

\*\*\*End of Report\*\*\*

N001R2(1107/2018)

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AD023 (25-09-2021)

| TEST REPORT                                                                                      |                          |
|--------------------------------------------------------------------------------------------------|--------------------------|
| Report no: 00095CU256949                                                                         | Date issued: 02-Dec-2021 |
| Page no.: 1 of 1                                                                                 |                          |
| Test description: COMPRESSIVE STRENGTH OF CUBE                                                   |                          |
| Test method: 1. Compressive strength: CS1 : 2010 Section 12<br>2. Density: CS1 : 2010 Section 16 |                          |

Sample details as supplied by customer

Customer : China Concrete Company Ltd.  
Project :  
Pour Location :  
Date Cast : 28-Oct-2021  
Location of Storage Prior to Demoulding :-

Laboratory test results

Date Received : 25-Nov-2021

Lab. Curing Method :-

Date Tested : 25-Nov-2021

Age : 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density (kg/m <sup>3</sup> )<br>As-received | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-------------------------------------------|-----------------------------------------|---------------------------------|---------------------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256949    | L1-0462A           | 40D20-75mm     | -/-                                       | 100.2 x 100.1 x 100.1                   | 2.366                           | 2360                                        | 594.9                        | 59.4                                      | Normal      |
| CU256950    | L1-0462B           | 40D20-75mm     | -/-                                       | 99.7 x 100.1 x 100.2                    | 2.358                           | 2360                                        | 630.0                        | 62.8                                      | Normal      |
| CU256951    | L1-0462C           | 40D20-75mm     | -/-                                       | 100.2 x 100.1 x 99.7                    | 2.351                           | 2350                                        | 599.4                        | 60.1                                      | Normal      |
| CU256952    | L1-0462D           | 40D20-75mm     | -/-                                       | 99.9 x 100.1 x 100.2                    | 2.364                           | 2360                                        | 501.1                        | 50.0                                      | Normal      |
| CU256953    | L1-0462E           | 40D20-75mm     | -/-                                       | 100.2 x 100.1 x 100.1                   | 2.359                           | 2350                                        | 633.5                        | 63.2                                      | Normal      |
| CU256954    | L1-0462F           | 40D20-75mm     | -/-                                       | 99.8 x 99.7 x 99.9                      | 2.355                           | 2370                                        | 625.3                        | 62.8                                      | Normal      |

Remarks: (1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory: \_\_\_\_\_

TANG Kwok Fu, Herman (Manager)

\*\*\*End of Report\*\*\*

N001R2(1107/2018)

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AD023 (25-09-2021)

|                                                |                          |
|------------------------------------------------|--------------------------|
| TEST REPORT                                    |                          |
| Report no: 00095CU256955                       | Date issued: 02-Dec-2021 |
| Page no. : 1 of 1                              |                          |
| COMPRESSIVE STRENGTH OF CUBE                   |                          |
| 1. Compressive strength: CSI : 2010 Section 12 |                          |
| 2. Density: CSI : 2010 Section 16              |                          |

Sample details as supplied by customer

Customer : China Concrete Company Ltd  
Customer Address :  
Project : Lab Trial  
Pour Location :  
Date Cast : 28-Oct-2021  
Location of Storage Prior to Demoulding :-  
Laboratory test results  
Date Received : 25-Nov-2021  
Lab. Curing Method :-

Age : 28 Day(s)

Date Tested : 25-Nov-2021

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/ Average Measured Slump | Measured Dimensions (mm) (L x W x H) | Mass in Air (kg) | Density (kg/m <sup>3</sup> ) As-received | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|----------------------------------------|--------------------------------------|------------------|------------------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256955    | L1-0463A           | 40D20-75mm     | -/-                                    | 100.2 x 100.1 x 99.9                 | 2.348            | 2340                                     | 608.1                        | 60.8                                      | Normal      |
| CU256956    | L1-0463B           | 40D20-75mm     | -/-                                    | 99.7 x 99.8 x 100.2                  | 2.355            | 2360                                     | 586.9                        | 58.7                                      | Normal      |
| CU256957    | L1-0463C           | 40D20-75mm     | -/-                                    | 100.2 x 100.1 x 100.3                | 2.359            | 2340                                     | 589.1                        | 56.7                                      | Normal      |
| CU256958    | L1-0463D           | 40D20-75mm     | -/-                                    | 100.1 x 100.2 x 100.1                | 2.341            | 2330                                     | 576.0                        | 57.4                                      | Normal      |
| CU256959    | L1-0463E           | 40D20-75mm     | -/-                                    | 99.9 x 100.2 x 100.3                 | 2.349            | 2340                                     | 593.2                        | 59.0                                      | Normal      |
| CU256960    | L1-0463F           | 40D20-75mm     | -/-                                    | 100.1 x 100.1 x 100.2                | 2.344            | 2330                                     | 616.9                        | 61.5                                      | Normal      |

Remarks: (1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

N00-R2(1107/2018)

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Approved Signatory:  TANG Kwok Fu, Herman (Manager)中國混凝土有限公司  
CHINA CONCRETE COMPANY LTD.

## Trial Mix Summary

Customer : General  
Project : Laboratory Trial for Submission Purposes  
Plant : CCC Lab.  
Mix : 300/20 - 100mm

| Material              |                                                                                                                                                                          | Mix Proportion (kg/m3) | Source / Supplier                                            |      |      |      |      |      |                          |      |            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------|------|------|------|------|------|--------------------------|------|------------|
| OPC                   |                                                                                                                                                                          | 355                    | Ube Cement - Ube Industries Ltd. - New Smart Enterprise Ltd. |      |      |      |      |      |                          |      |            |
| PFA                   |                                                                                                                                                                          | -                      | Cam Pha Cement Plant - HNW Construction Materials Co., Ltd.  |      |      |      |      |      |                          |      |            |
| 20mm                  |                                                                                                                                                                          | 675                    | Jiang Men City Xin Ning Quarry Co., Ltd. - Giant Elegant Ltd |      |      |      |      |      |                          |      |            |
| 10mm                  |                                                                                                                                                                          | 330                    |                                                              |      |      |      |      |      |                          |      |            |
| GRF                   |                                                                                                                                                                          | 745                    |                                                              |      |      |      |      |      |                          |      |            |
| Water                 |                                                                                                                                                                          | 197                    | Government Mains - Water Supplies Department                 |      |      |      |      |      |                          |      |            |
| Admixtures            | 1                                                                                                                                                                        | 1.90 +/- 0.95          | Concretard                                                   |      |      |      |      |      |                          |      |            |
|                       | 2                                                                                                                                                                        | 2.50 +/- 2.00          | JM-X(B)                                                      |      |      |      |      |      |                          |      |            |
| Date Cast             | Test Items                                                                                                                                                               |                        | Test Results                                                 |      |      |      |      |      | Avg strength of 18 cubes |      |            |
|                       | Actual Slump (mm)                                                                                                                                                        |                        | A                                                            | B    | C    | D    | E    | F    |                          |      |            |
| Trial 1<br>25/10/2021 | Actual Slump (mm)                                                                                                                                                        |                        | 100                                                          | 100  | 100  | 100  | 100  | 100  | 100                      | 49.2 |            |
|                       |                                                                                                                                                                          |                        | 100                                                          |      |      |      |      |      |                          |      |            |
|                       |                                                                                                                                                                          |                        | 2330                                                         | 2340 | 2350 | 2330 | 2340 | 2340 |                          |      |            |
|                       |                                                                                                                                                                          |                        | 48.8                                                         | 54.5 | 53.1 | 42.6 | 51.6 | 48.7 |                          |      |            |
|                       |                                                                                                                                                                          |                        | 100                                                          | 100  | 100  | 100  | 100  | 100  |                          |      |            |
| Trial 2<br>25/10/2021 | Actual Slump (mm)                                                                                                                                                        |                        | 100                                                          | 100  | 100  | 100  | 100  | 100  | 49.2                     |      |            |
|                       |                                                                                                                                                                          |                        | 100                                                          |      |      |      |      |      |                          |      |            |
|                       |                                                                                                                                                                          |                        | 2320                                                         | 2330 | 2320 | 2310 | 2310 | 2310 |                          |      |            |
|                       |                                                                                                                                                                          |                        | 53.6                                                         | 50.9 | 54.8 | 43.3 | 51.6 | 51.4 |                          |      |            |
|                       |                                                                                                                                                                          |                        | 100                                                          | 100  | 100  | 100  | 100  | 100  |                          |      |            |
| Trial 3<br>25/10/2021 | Actual Slump (mm)                                                                                                                                                        |                        | 100                                                          | 100  | 100  | 100  | 100  | 100  |                          |      |            |
|                       |                                                                                                                                                                          |                        | 100                                                          |      |      |      |      |      |                          |      |            |
|                       |                                                                                                                                                                          |                        | 2340                                                         | 2300 | 2320 | 2310 | 2300 | 2330 |                          |      |            |
|                       |                                                                                                                                                                          |                        | 50.4                                                         | 41.4 | 55.2 | 51.1 | 41.4 | 41.4 |                          |      |            |
|                       |                                                                                                                                                                          |                        | 28 Day Strength (Mpa)                                        |      |      |      |      |      |                          |      |            |
| Requirements          |                                                                                                                                                                          |                        |                                                              |      |      |      |      |      |                          |      |            |
| 1                     | The average compressive strength at 28 day of the 18 test cubes shall exceed the grade strength by at least 74kPa                                                        |                        |                                                              |      |      |      |      |      |                          |      | Compliance |
| 1                     | The average compressive strength at 28 day of the 18 test cubes shall exceed the grade strength by at least 74kPa                                                        |                        |                                                              |      |      |      |      |      |                          |      | Yes        |
| 2                     | The compressive strength of each individual test cube shall exceed the grade strength by at least 74kPa                                                                  |                        |                                                              |      |      |      |      |      |                          |      | Yes        |
| 3                     | The range of the compressive strength of the 6 cubes from each batch of concrete shall not exceed 20% of the average compressive strength of the 6 cubes from that batch |                        |                                                              |      |      |      |      |      |                          |      | Yes        |
| 4                     | The average of the 3 measured slump values shall be within +/- 20mm or +/- 25%, whichever is the greater, of the assigned slump value                                    |                        |                                                              |      |      |      |      |      |                          |      | Yes        |
| 5                     | The range of the 3 measured slump values for each batch of concrete shall not exceed 20% of the average of the 3 measured slump values for that batch                    |                        |                                                              |      |      |      |      |      |                          |      | Yes        |

|                                                                                     |  |                          |  |                  |
|-------------------------------------------------------------------------------------|--|--------------------------|--|------------------|
| Report no.: 00095CU256502                                                           |  | Date issued: 26-Nov-2021 |  | Page no.: 1 of 1 |
| TEST REPORT                                                                         |  |                          |  |                  |
| COMPRESSIVE STRENGTH OF CUBE                                                        |  |                          |  |                  |
| Test description                                                                    |  |                          |  |                  |
| Test method                                                                         |  |                          |  |                  |
| 1. Compressive strength: CS1 : 2010 Section 12<br>2. Density: CS1 : 2010 Section 16 |  |                          |  |                  |

Sample details as supplied by customer

Customer : China Concrete Compaany Ltd.

Customer Address :

Project :

Pour Location :

Date Cast : 25-Oct-2021

Location of Storage Prior to Demoulding :-

Laboratory test results

Date Received : 22-Nov-2021

Lab. Curing Method :-

Date Tested : 22-Nov-2021

Age : 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density (kg/m <sup>3</sup> )<br>As-received | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-------------------------------------------|-----------------------------------------|---------------------------------|---------------------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256502    | L1-0419A           | 30D20-100mm    | -/-                                       | 100.2 x 100.2 x 100.8                   | 2.350                           | 2330                                        | 482.4                        | 48.8                                      | Normal      |
| CU256503    | L1-0419B           | 30D20-100mm    | -/-                                       | 100.2 x 100.4 x 100.2                   | 2.363                           | 2340                                        | 547.8                        | 54.5                                      | Normal      |
| CU256504    | L1-0419C           | 30D20-100mm    | -/-                                       | 99.8 x 100.2 x 100.3                    | 2.385                           | 2350                                        | 534.1                        | 53.1                                      | Normal      |
| CU256375    | L1-0419D           | 30D20-100mm    | -/-                                       | 100.2 x 100.3 x 100.7                   | 2.381                           | 2330                                        | 429.8                        | 42.6                                      | Normal      |
| CU256376    | L1-0419E           | 30D20-100mm    | -/-                                       | 100.1 x 99.8 x 100.2                    | 2.346                           | 2340                                        | 515.5                        | 51.6                                      | Normal      |
| CU256377    | L1-0419F           | 30D20-100mm    | -/-                                       | 100.3 x 100.2 x 100.6                   | 2.368                           | 2340                                        | 490.8                        | 48.7                                      | Normal      |

Remarks: (1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory :

TANG Kwok Fu, Herman (Manager)

\*\*End of Report\*\*

N001R2(1107/2018)

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A0023 (28-09-2021)

|                                                                                     |  |                          |  |                   |
|-------------------------------------------------------------------------------------|--|--------------------------|--|-------------------|
| Report no.: 00095CU256496                                                           |  | Date issued: 26-Nov-2021 |  | Page no.: 1 of 1. |
| TEST REPORT                                                                         |  |                          |  |                   |
| COMPRESSIVE STRENGTH OF CUBE                                                        |  |                          |  |                   |
| Test description                                                                    |  |                          |  |                   |
| Test method                                                                         |  |                          |  |                   |
| 1. Compressive strength: CS1 : 2010 Section 12<br>2. Density: CS1 : 2010 Section 16 |  |                          |  |                   |

Sample details as supplied by customer

Customer : China Concrete Compaany Ltd.

Customer Address :

Project :

Pour Location :

Date Cast : 25-Oct-2021

Location of Storage Prior to Demoulding :-

Laboratory test results

Date Received : 22-Nov-2021

Lab. Curing Method :-

Date Tested : 22-Nov-2021

Age : 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density (kg/m <sup>3</sup> )<br>As-received | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-------------------------------------------|-----------------------------------------|---------------------------------|---------------------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256496    | L1-0420A           | 30D20-100mm    | -/-                                       | 100.3 x 100.2 x 100.2                   | 2.341                           | 2320                                        | 538.5                        | 53.6                                      | Normal      |
| CU256497    | L1-0420B           | 30D20-100mm    | -/-                                       | 100.3 x 99.8 x 100.3                    | 2.336                           | 2330                                        | 509.3                        | 50.9                                      | Normal      |
| CU256498    | L1-0420C           | 30D20-100mm    | -/-                                       | 100.3 x 100.2 x 100.2                   | 2.341                           | 2320                                        | 550.2                        | 54.8                                      | Normal      |
| CU256499    | L1-0420D           | 30D20-100mm    | -/-                                       | 100.3 x 100.2 x 100.2                   | 2.326                           | 2310                                        | 434.5                        | 43.3                                      | Normal      |
| CU256500    | L1-0420E           | 30D20-100mm    | -/-                                       | 100.2 x 100.3 x 100.3                   | 2.329                           | 2310                                        | 519.2                        | 51.6                                      | Normal      |
| CU256501    | L1-0420F           | 30D20-100mm    | -/-                                       | 100.3 x 100.2 x 100.4                   | 2.331                           | 2310                                        | 516.6                        | 51.4                                      | Normal      |

Remarks: (1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory :

TANG Kwok Fu, Herman (Manager)

\*\*End of Report\*\*

N001R2(1107/2018)

Unless otherwise specified, the location of the test in this report is in Hong Kong.

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A0023 (28-09-2021)

## TEST REPORT

|                            |                                                                                     |                           |                   |
|----------------------------|-------------------------------------------------------------------------------------|---------------------------|-------------------|
| Report no. : 00095CU256490 |  | Date issued : 26-Nov-2021 | Page no. : 1 of 1 |
| Test description           | COMPRESSIVE STRENGTH OF CUBE                                                        |                           |                   |
| Test method                | 1. Compressive strength: CS1: 2010 Section 12<br>2. Density : CS1: 2010 Section 16  |                           |                   |

**Sample details as supplied by customer**

Customer

**Customer Address :**

Project : Lab Trial

Pour Location : -

Date Cast : 25-Oct-2021  
Location of Storage Prior to Demolition

1. **Introduction**

### Laboratory test results

Date Received : 22-  
Lab Curing Method : -

\_\_\_\_\_

| Lab Cube ID | Customer Cube Mark <sup>1</sup> | Concrete Grade <sup>2</sup> | Designed Slump <sup>3</sup><br>Average<br>Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density<br>(kg/m <sup>3</sup> ) | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|---------------------------------|-----------------------------|----------------------------------------------------------|-----------------------------------------|---------------------------------|---------------------------------|------------------------------|-------------------------------------------|-------------|
| CJ256490    | L1-0421A                        | 30/20-100mm                 | -/-                                                      | 100.2 x 100.2 x 100.2                   | 2.357                           | 2340                            | 505.7                        | 50.4                                      | Normal      |
| CJ256491    | L1-0421B                        | 30/20-100mm                 | -/-                                                      | 100.2 x 100.3 x 100.2                   | 2.314                           | 2300                            | 415.6                        | 41.4                                      | Normal      |
| CJ256492    | L1-0421C                        | 30/20-100mm                 | -/-                                                      | 100.3 x 100.2 x 100.3                   | 2.342                           | 2320                            | 555.2                        | 55.2                                      | Normal      |
| CJ256493    | L1-0421D                        | 30/20-100mm                 | -/-                                                      | 100.0 x 100.3 x 100.2                   | 2.326                           | 2310                            | 513.6                        | 51.1                                      | Normal      |
| CJ256494    | L1-0421E                        | 30/20-100mm                 | -/-                                                      | 100.2 x 100.1 x 100.2                   | 2.315                           | 2300                            | 414.8                        | 41.4                                      | Normal      |
| CJ256495    | L1-0421F                        | 30/20-100mm                 | -/-                                                      | 99.8 x 100.3 x 100.2                    | 2.337                           | 2330                            | 416.2                        | 41.4 <sup>4</sup>                         | Normal      |

| Remarks | (1) Information supplied by customer |
|---------|--------------------------------------|
|         |                                      |

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

W001R2(11/07/2018)

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AD0023 (28-08-2021)

## Trial Mix Summary

**Customer : General**

Project : Laboratory Trial for Submission Purposes

Week 1 9/13/11

Mix: 300/20 - 75mm

| Material                     |                                                                                                                                                                          | Max Proportion (kg/m <sup>3</sup> ) | Source / Supplier                                            |                                       |      |      |      |      |                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------|---------------------------------------|------|------|------|------|--------------------------|
| OPC                          |                                                                                                                                                                          | 340                                 | Ube Cement - Ube Industries Ltd. - New Smart Enterprise Ltd. |                                       |      |      |      |      |                          |
| PFA                          |                                                                                                                                                                          | -                                   | Cam Pha Cement Plant - HMM Construction Materials Co., Ltd.  |                                       |      |      |      |      |                          |
| 20mm                         |                                                                                                                                                                          | 720                                 | Jiang Men City Xin Ning Quarry Co., Ltd. - Giant Elegant Ltd |                                       |      |      |      |      |                          |
| 10mm                         |                                                                                                                                                                          | 350                                 |                                                              |                                       |      |      |      |      |                          |
| GRF                          |                                                                                                                                                                          | 720                                 |                                                              |                                       |      |      |      |      |                          |
| Water                        |                                                                                                                                                                          | 180                                 | Government Maina - Water Supplies Department                 |                                       |      |      |      |      |                          |
| Admixtures                   | 1                                                                                                                                                                        | 1.82 +/- 0.91                       | Concretard                                                   | Sobide (H.K.) New Materials Co., Ltd. |      |      |      |      |                          |
| Date Cast                    | Test Items                                                                                                                                                               |                                     | Test Results                                                 |                                       |      |      |      |      | Avg strength of 18 cubes |
| Trial 1<br>27/10/2021        | Actual Slump (mm)                                                                                                                                                        |                                     | A                                                            | B                                     | C    | D    | E    | F    | 55.1                     |
|                              |                                                                                                                                                                          |                                     | 90                                                           | 90                                    | 90   | 90   | 90   | 90   |                          |
|                              |                                                                                                                                                                          |                                     | 90                                                           | 90                                    |      |      |      |      |                          |
| Density (kg/m <sup>3</sup> ) |                                                                                                                                                                          | 2330                                | 2350                                                         | 2320                                  | 2330 | 2340 | 2330 | 2330 |                          |
| 28 Day Strength (Mpa)        |                                                                                                                                                                          | 53.2                                | 61.1                                                         | 57.9                                  | 58.8 | 59.5 | 53.4 | 53.4 |                          |
|                              |                                                                                                                                                                          | 90                                  | 90                                                           | 90                                    | 90   | 90   | 90   | 90   |                          |
| Trial 2<br>27/10/2021        | Actual Slump (mm)                                                                                                                                                        |                                     | 90                                                           | 90                                    |      |      |      |      | 90                       |
|                              | Density (kg/m <sup>3</sup> )                                                                                                                                             |                                     | 2360                                                         | 2350                                  | 2350 | 2350 | 2350 | 2370 | 55.1                     |
|                              | 28 Day Strength (Mpa)                                                                                                                                                    |                                     | 47.2                                                         | 54.5                                  | 57.7 | 53.6 | 58.3 | 50.4 |                          |
|                              |                                                                                                                                                                          | 90                                  | 90                                                           | 90                                    | 90   | 90   | 90   | 90   |                          |
|                              |                                                                                                                                                                          | 90                                  | 90                                                           |                                       |      |      |      | 90   |                          |
| Density (kg/m <sup>3</sup> ) |                                                                                                                                                                          | 2230                                | 2230                                                         | 2330                                  | 2330 | 2310 | 2330 | 2330 |                          |
| Trial 3<br>27/10/2021        | 28 Day Strength (Mpa)                                                                                                                                                    |                                     | 61.8                                                         | 57.1                                  | 54.4 | 56.0 | 51.5 | 45.5 |                          |
|                              | Requirements                                                                                                                                                             |                                     |                                                              |                                       |      |      |      |      | Compliance               |
| 1                            | The average compressive strength at 28 day of the 18 test cubes shall exceed the grade strength by at least 14MPa                                                        |                                     |                                                              |                                       |      |      |      |      | Yes                      |
| 2                            | The compressive strength of each individual test cube shall exceed the grade strength by at least 7MPa                                                                   |                                     |                                                              |                                       |      |      |      |      | Yes                      |
| 3                            | The range of the compressive strength of the 6 cubes from each batch of concrete shall not exceed 20% of the average compressive strength of the 6 cubes from that batch |                                     |                                                              |                                       |      |      |      |      | Yes                      |
| 4                            | The average of the 9 measured slump values shall be within +/- 20mm or +/- 25% whichever is the greater, of the designed slump value                                     |                                     |                                                              |                                       |      |      |      |      | Yes                      |
| 5                            | The range of the 3 measured slump values for each batch of concrete shall not exceed 20% of the average of the 3 measured slump values for that batch                    |                                     |                                                              |                                       |      |      |      |      | Yes                      |

|                                                                                                                                      |                          |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| TEST REPORT                                                                                                                          |                          |
| Report no.: 00095CU256802                                                                                                            | Date issued: 26-Nov-2021 |
| Page no.: 1 of 1                                                                                                                     |                          |
| Test description: COMPRESSIVE STRENGTH OF CUBE                                                                                       |                          |
| Test method: 1. Compressive strength: CSI : 2010 Section 12<br>2. Density: CSI : 2010 Section 16<br>3. Curing: CSI : 2010 Section 10 |                          |

Sample details as supplied by customer

Customer: Chikita Concrete Company Ltd

Customer Address: -

Project: Liao I Hui

Pour Location: -

Date Cast: 27-Oct-2021

Location of Storage Prior to Demoulding: -

Laboratory test results

Date Received: 23-Nov-2021

Lab. Curing Method: Mist curing at 27 °C ± 3 °C

Date Tested: 24-Nov-2021

Age: 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density (kg/m <sup>3</sup> ) | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-------------------------------------------|-----------------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256802    | L1-0443A           | 300/20-75mm    | -/-                                       | 100.1 x 100.2 x 100.1                   | 2.344                           | 2330                         | 533.8                        | 53.2                                      | Normal      |
| CU256803    | L1-0443B           | 300/20-75mm    | -/-                                       | 99.7 x 100.1 x 100.2                    | 2.351                           | 2350                         | 612.5                        | 61.1                                      | Normal      |
| CU256804    | L1-0443C           | 300/20-75mm    | -/-                                       | 100.1 x 100.2 x 100.3                   | 2.338                           | 2320                         | 582.2                        | 57.9                                      | Normal      |
| CU256805    | L1-0443D           | 300/20-75mm    | -/-                                       | 100.2 x 100.1 x 100.4                   | 2.342                           | 2330                         | 590.7                        | 58.8                                      | Normal      |
| CU256806    | L1-0443E           | 300/20-75mm    | -/-                                       | 100.1 x 100.2 x 100.1                   | 2.347                           | 2340                         | 596.9                        | 59.5                                      | Normal      |
| CU256807    | L1-0443F           | 300/20-75mm    | -/-                                       | 100.2 x 100.1 x 100.5                   | 2.351                           | 2330                         | 537.6                        | 53.4                                      | Normal      |

Remarks:

(1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory:

TANG Kwok Fu, Herman (Manager)

\*\*End of Report\*\*

N001R2(11072018)

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A0023 (28-09-2021)

|                                                                                                                                      |                          |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| TEST REPORT                                                                                                                          |                          |
| Report no.: 00095CU256808                                                                                                            | Date issued: 26-Nov-2021 |
| Page no.: 1 of 1                                                                                                                     |                          |
| Test description: COMPRESSIVE STRENGTH OF CUBE                                                                                       |                          |
| Test method: 1. Compressive strength: CSI : 2010 Section 12<br>2. Density: CSI : 2010 Section 16<br>3. Curing: CSI : 2010 Section 10 |                          |

Sample details as supplied by customer

Customer: Chikita Concrete Company Ltd

Customer Address: -

Project: Liao I Hui

Pour Location: -

Date Cast: 27-Oct-2021

Location of Storage Prior to Demoulding: -

Laboratory test results

Date Received: 23-Nov-2021

Lab. Curing Method: Mist curing at 27 °C ± 3 °C

Date Tested: 24-Nov-2021

Age: 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Designed Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass in Air (kg)<br>As-received | Density (kg/m <sup>3</sup> ) | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-------------------------------------------|-----------------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256808    | L1-0444A           | 300/20-75mm    | -/-                                       | 100.1 x 100.2 x 100.1                   | 2.369                           | 2360                         | 473.2                        | 47.2                                      | Normal      |
| CU256809    | L1-0444B           | 300/20-75mm    | -/-                                       | 99.9 x 100.2 x 100.1                    | 2.358                           | 2350                         | 546.4                        | 54.5                                      | Normal      |
| CU256810    | L1-0444C           | 300/20-75mm    | -/-                                       | 100.1 x 100.2 x 100.1                   | 2.361                           | 2350                         | 578.6                        | 57.7                                      | Normal      |
| CU256811    | L1-0444D           | 300/20-75mm    | -/-                                       | 100.1 x 99.7 x 100.2                    | 2.349                           | 2350                         | 535.0                        | 53.6                                      | Normal      |
| CU256812    | L1-0444E           | 300/20-75mm    | -/-                                       | 100.2 x 100.1 x 100.1                   | 2.358                           | 2350                         | 583.8                        | 58.3                                      | Normal      |
| CU256813    | L1-0444F           | 300/20-75mm    | -/-                                       | 99.7 x 99.6 x 100.2                     | 2.362                           | 2370                         | 504.0                        | 50.4                                      | Normal      |

Remarks:

(1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory:

TANG Kwok Fu, Herman (Manager)

\*\*End of Report\*\*

N001R2(11072018)

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A0023 (28-09-2021)

| TEST REPORT               |                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Report no.: 00095CU256814 | Date issued: 26-Nov-2021                                                                                                |
| Page no.: 1 of 1          |                                                                                                                         |
| Test description          | COMPRESSIVE STRENGTH OF CUBE                                                                                            |
| Test method               | 1. Compressive strength: CS1 : 2010 Section 12<br>2. Density: CS1 : 2010 Section 16<br>3. Curing: CS1 : 2010 Section 10 |

Sample details as supplied by customer

Customer : China Concrete Company Ltd.

Customer Address

Project

Pour Location : -

Date Cast : 27-Oct-2021

Location of Storage Prior to Demoulding :-

Laboratory test results

Date Received : 23-Nov-2021

Lab. Curing Method : Mist curing at 27 °C ± 3 °C

Date Tested : 24-Nov-2021

Age : 28 Day(s)

| Lab Cube ID | Customer Cube Mark | Concrete Grade | Design Slump/<br>Average Measured Slump | Measured Dimensions (mm)<br>(L x W x H) | Mass (kg)<br>Air (kg/m <sup>3</sup> )<br>As-received | Density (kg/m <sup>3</sup> ) | Maximum Load at Failure (kN) | Compressive Strength (N/mm <sup>2</sup> ) | Observation |
|-------------|--------------------|----------------|-----------------------------------------|-----------------------------------------|------------------------------------------------------|------------------------------|------------------------------|-------------------------------------------|-------------|
| CU256814    | L1-0445A           | 300/20-75mm    | -/-                                     | 100.1 x 100.2 x 100.1                   | 2.337                                                | 2330                         | 619.9                        | 61.8                                      | Normal      |
| CU256815    | L1-0445B           | 300/20-75mm    | -/-                                     | 100.2 x 100.1 x 99.7                    | 2.328                                                | 2330                         | 570.1                        | 57.1                                      | Normal      |
| CU256816    | L1-0445C           | 300/20-75mm    | -/-                                     | 100.1 x 100.2 x 100.1                   | 2.336                                                | 2330                         | 546.0                        | 54.4                                      | Normal      |
| CU256817    | L1-0445D           | 300/20-75mm    | -/-                                     | 100.1 x 100.2 x 100.3                   | 2.341                                                | 2330                         | 562.9                        | 56.0                                      | Normal      |
| CU256818    | L1-0445E           | 300/20-75mm    | -/-                                     | 100.2 x 100.1 x 100.1                   | 2.321                                                | 2310                         | 515.9                        | 51.5                                      | Normal      |
| CU256819    | L1-0445F           | 300/20-75mm    | -/-                                     | 100.2 x 100.1 x 100.6                   | 2.351                                                | 2330                         | 458.3                        | 45.5                                      | Normal      |

Remarks:

(1) Information supplied by customer.

(2) The test results relate only to the sample tested.

(3) The sampling and casting of the specimens were not carried out by Material Tech Company Limited.

Approved Signatory :

TANG Kwok Fu, Herman (Manager)

\*\*End of Report\*\*

N001R21:1/07(2018)

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A0023 (28-06-2021)



☐Urgent ☐Return receipt ☐Expand Group ☐Restricted ☐Prevent Copy

**Appendix Ia of RNTPC  
Paper No. A/YL-KTS/984**

---

**From:** [REDACTED]  
**Sent:** 2024-01-30 星期二 12:51:47  
**To:** Ying Yeung MO/PLAND <yymo@pland.gov.hk>; tpbpd/PLAND <tpbpd@pland.gov.hk>  
**Cc:** [REDACTED]  
**Subject:** Re: Departmental Comments - A/YL-KTS/984  
**Attachment:** TPB\_L03 response to comment.pdf; Appendix A - drainage photo record.pdf; Appendix C - FSI.pdf; Appendix B - run in out photo record.pdf

Dear Mr. Mo,

In response to the comments of the Lands Department, Drainage Services Department, Highways Department and Fire Services Department dated 24.1.2024 and 26.1.2024, we would like to submit the documents attached for your consideration.

Please note that no vehicles exceeding 24 tonnes will enter the Application Site.

Should you have any queries or require further information, please feel free to contact the undersigned at [REDACTED].

Best Regards,  
Adam Chow



才鴻顧問有限公司  
TOP BRIGHT CONSULTANTS LIMITED

Our Ref.: 23/826/L03

January 30, 2024

Secretary  
Town Planning Board  
15/F., North Point Government Offices  
333 Java Road, North Point  
Hong Kong

By Email

Dear Sir/Madam,

**Temporary Site Office and Service Depot for Drainage and Sewerage Works for a  
Period of Three Years in "Other Specified Uses" annotated "Rural Use" Zone in  
Lot 455RP(Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories  
(Application No. A/YL-KTS/984)**

In response to the comments of the Drainage Services Department, Highways Department and Fire Services Department dated 24.1.2024 and 26.1.2024, we would like to submit the following documents attached for your consideration:

- (a) A photographic record of existing drainage facilities (Appendix A);
- (b) A photographic record of existing run-in/out (Appendix B); and
- (c) FSI proposal and FS251 certificate for the current application (Appendix C).

The attached FSI proposal is the same as the last approved one as all planning circumstances and site configurations for the current application remains unchanged compared with the last approved application.

For the comments from the Lands Department, the lot owner will apply to the Lands Department for a Short Term Waiver to permit the structures erected within the private lot.

Please note that no vehicles exceeding 24 tonnes will enter the Application Site.

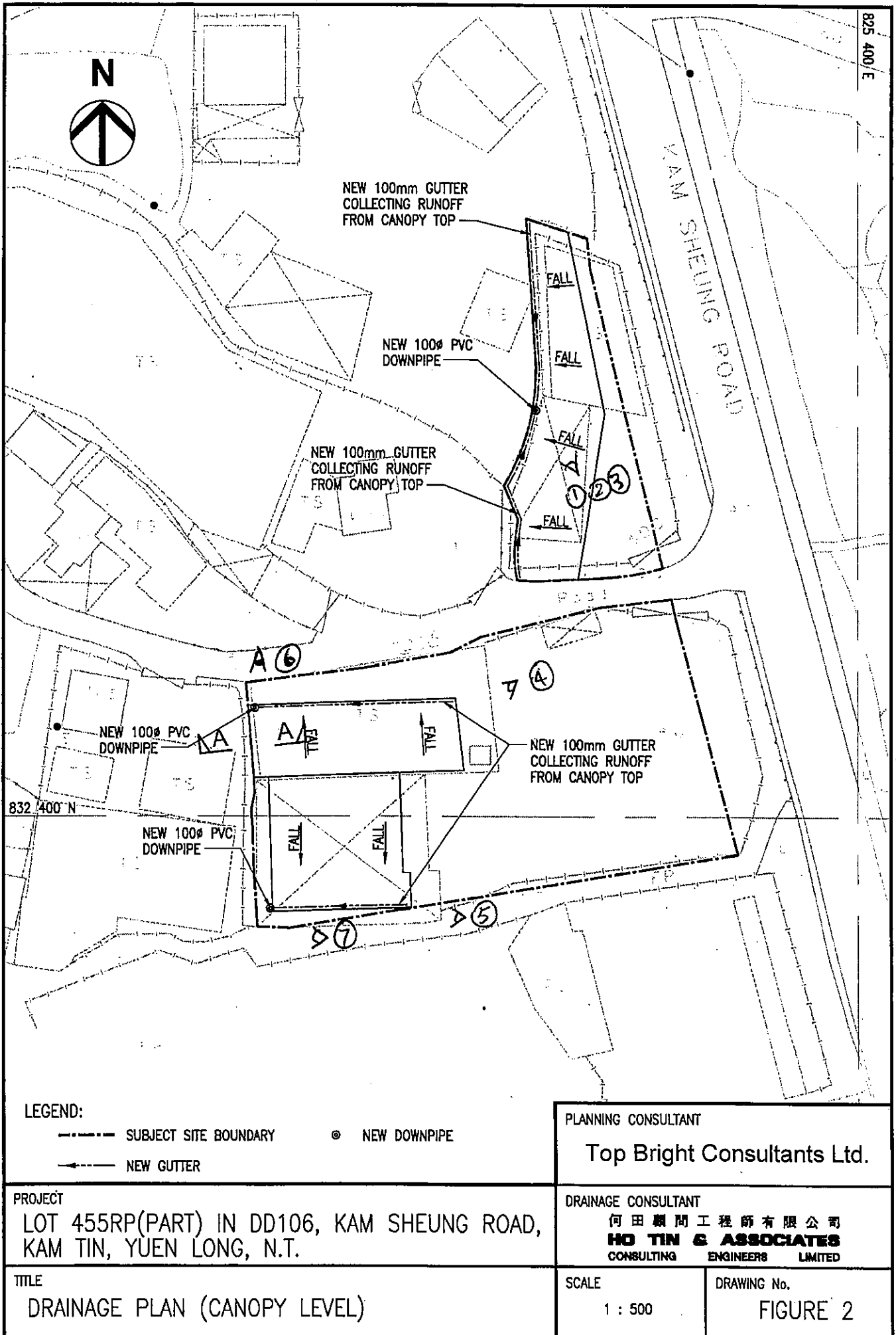
Should you have any queries or require further information, please feel free to contact the undersigned at [REDACTED]

Yours faithfully,  
For and on behalf of  
Top Bright Consultants Ltd.

  
Adam Chow

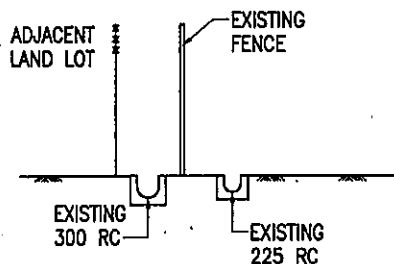


825 400'E



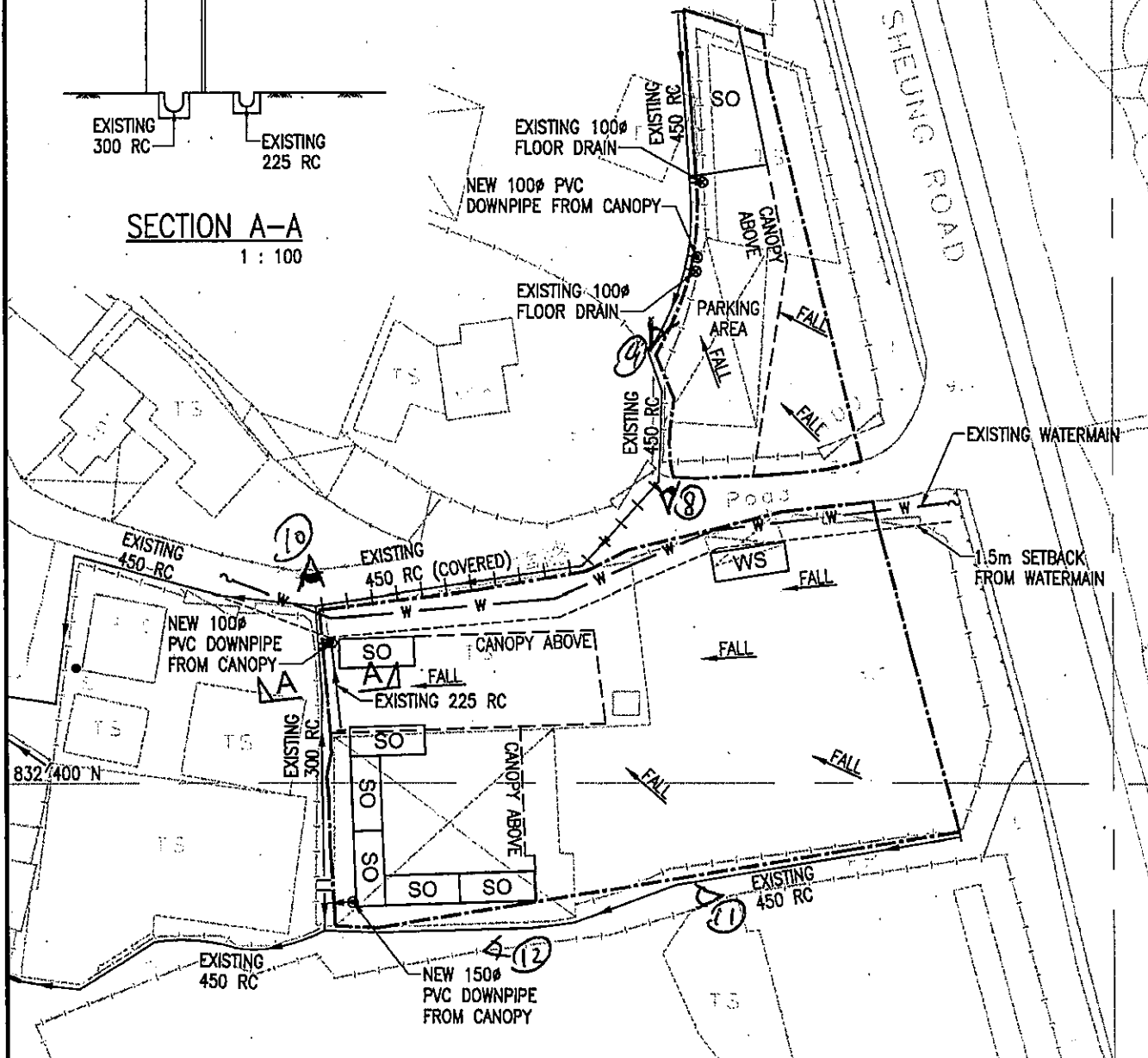


SUBJECT  
SITE



### SECTION A-A

1 : 100



#### LEGEND:

|     |                                                         |    |             |
|-----|---------------------------------------------------------|----|-------------|
| --- | SUBJECT SITE BOUNDARY                                   | SO | SITE OFFICE |
| RC  | EXISTING RECTANGULAR CHANNEL                            | WS | WASHROOM    |
| ⊗   | EXISTING 100mm FLOOR DRAIN<br>COLLECTING SURFACE RUNOFF |    |             |
| ⊙   | NEW DOWNPIPE                                            |    |             |

#### PROJECT

LOT 455RP(PART) IN DD106, KAM SHEUNG ROAD,  
KAM TIN, YUEN LONG, N.T.

#### TITLE

DRAINAGE PLAN (GROUND LEVEL)

#### PLANNING CONSULTANT

Top Bright Consultants Ltd.

#### DRAINAGE CONSULTANT

何田顧問工程師有限公司  
**HO TIN & ASSOCIATES**  
CONSULTING ENGINEERS LIMITED

#### SCALE

1 : 500

#### DRAWING No.

FIGURE 3

Application No. A/YL-KTS/984

Photographic record of the existing drainage facilities on the site

---

Photo 1

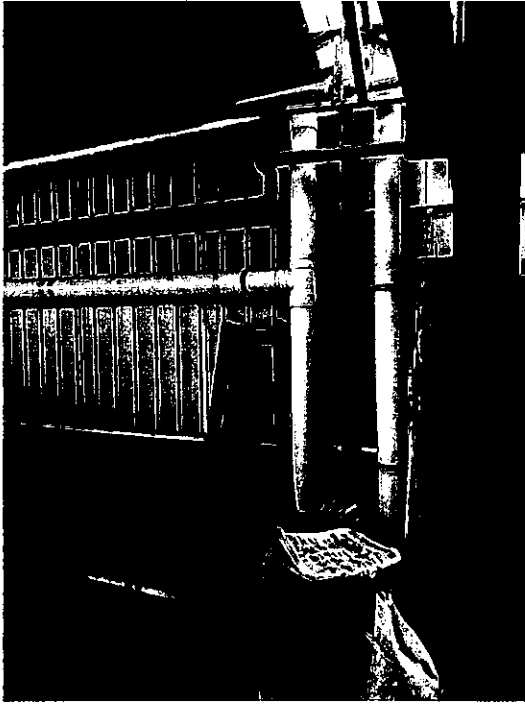


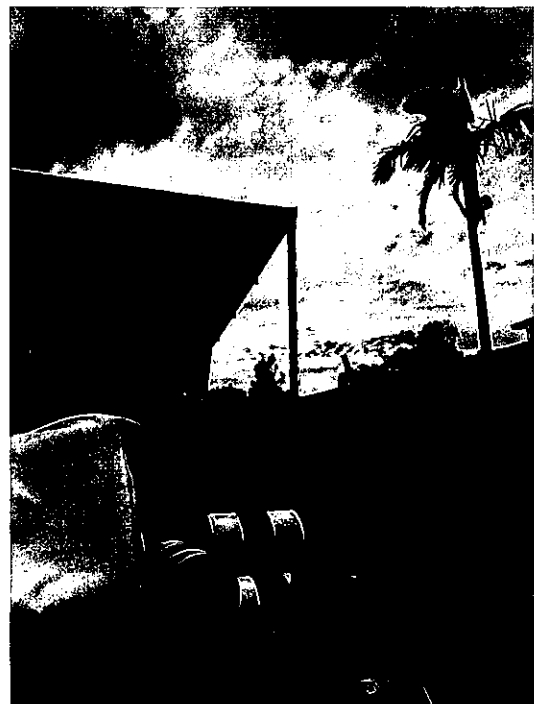
Photo 2



Photo 3



Photo 4



Application No. A/YL-KTS/984

Photographic record of the existing drainage facilities on the site

Photo 5



Photo 6

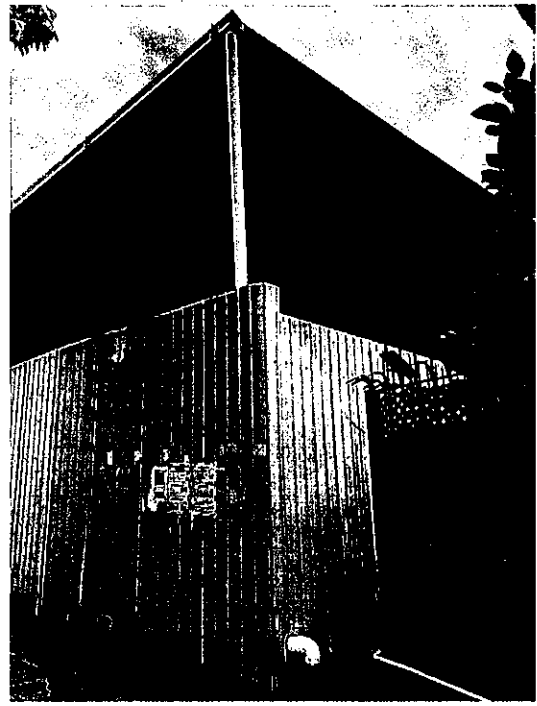


Photo 7

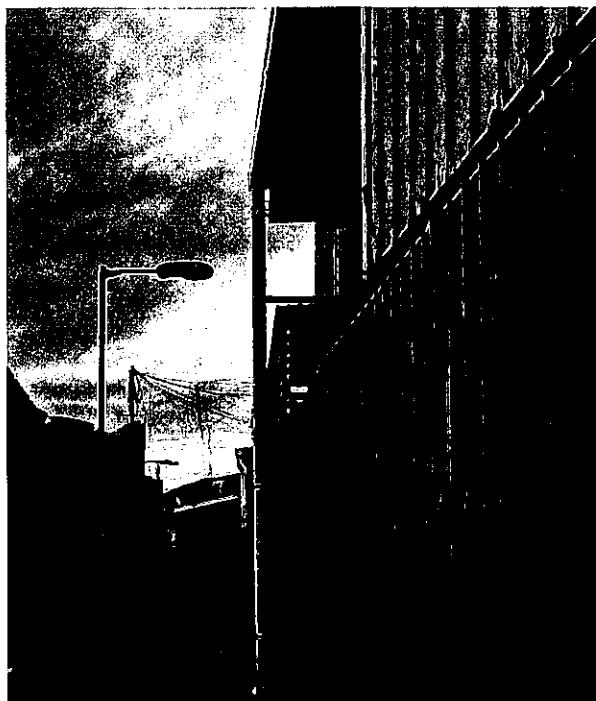


Photo 8

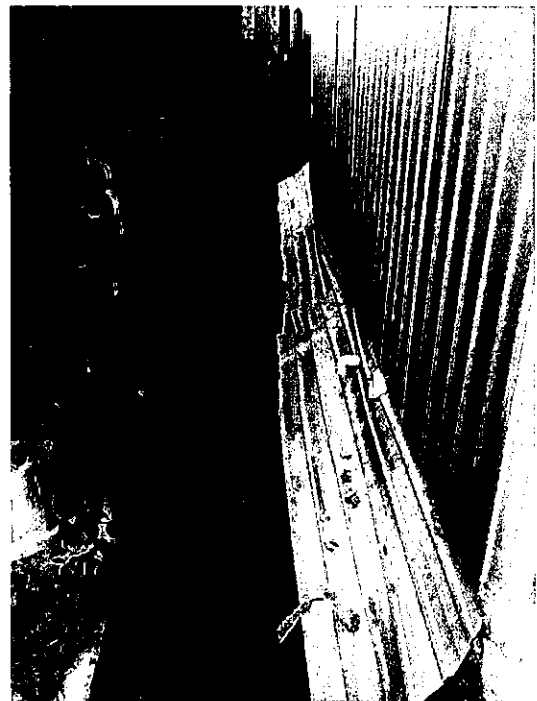


Photo 9



Photo 10

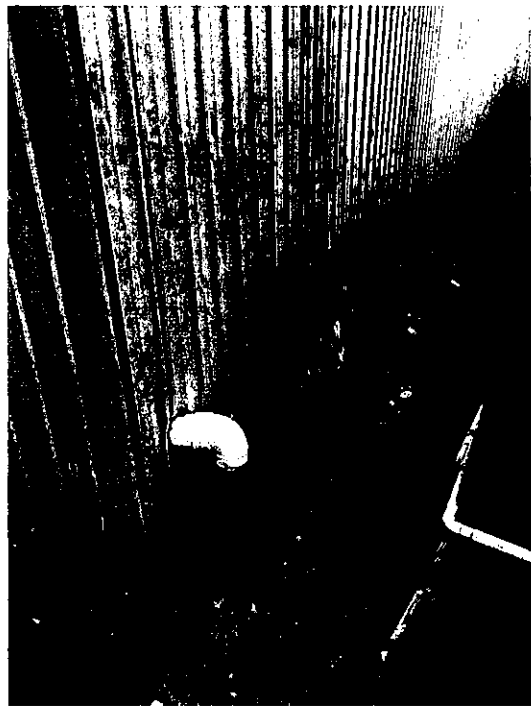
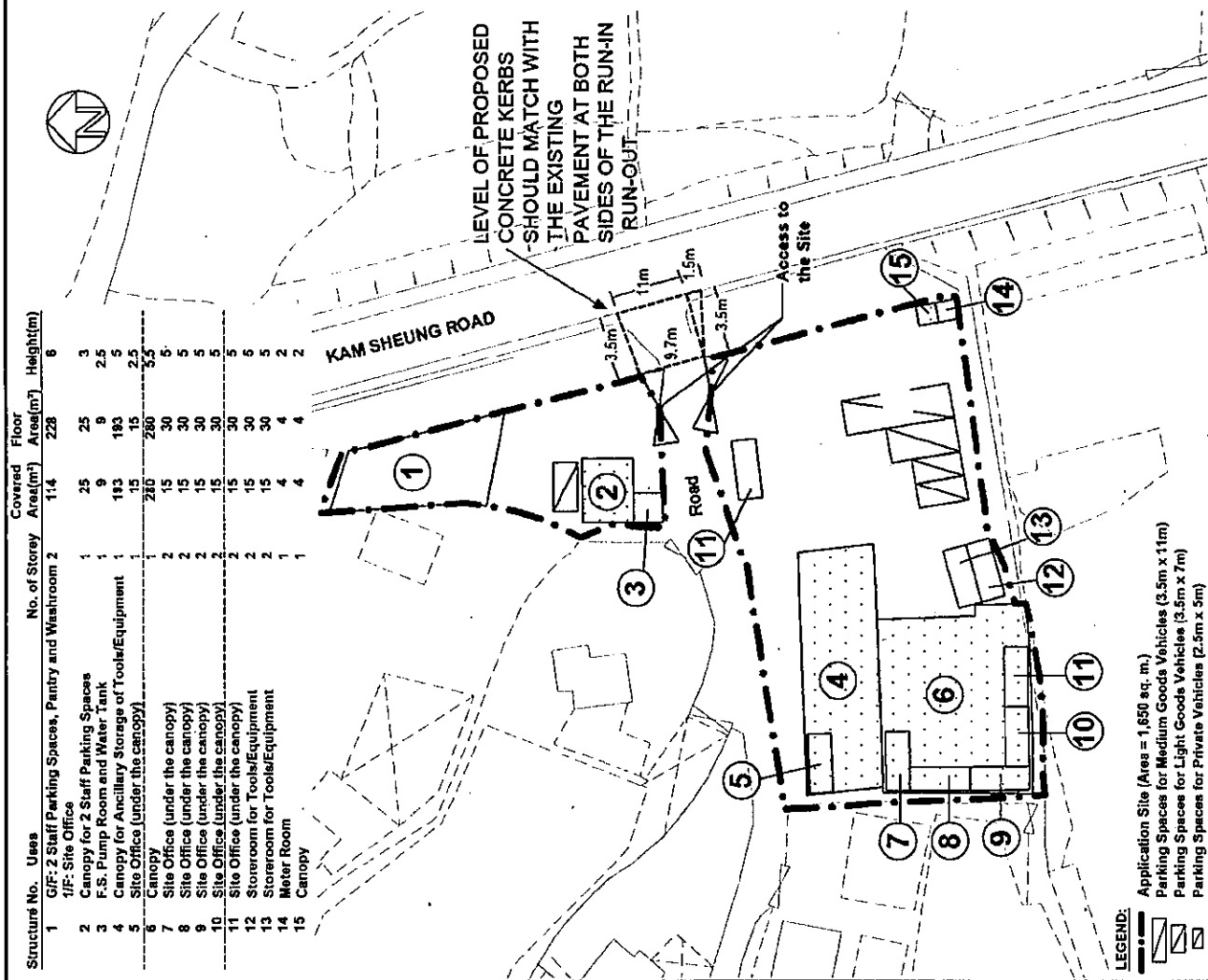
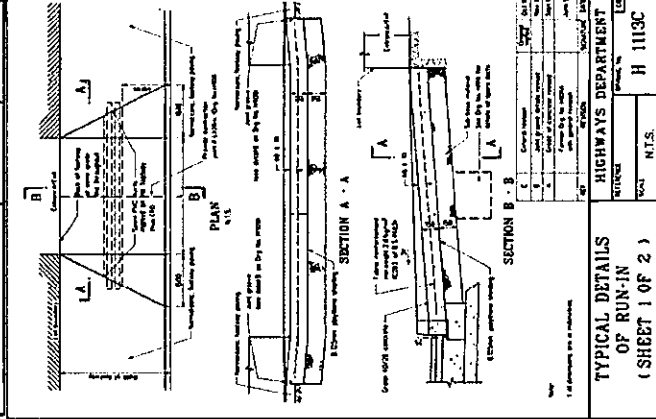
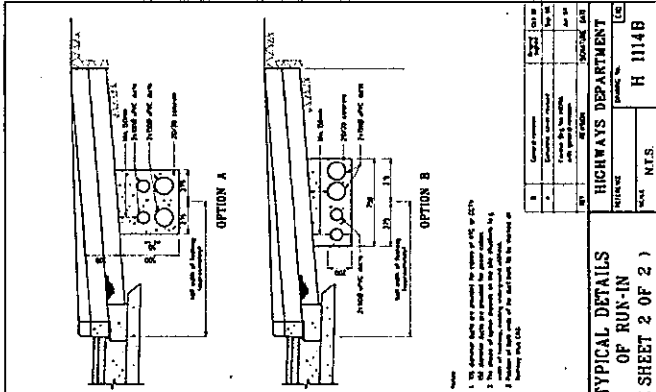
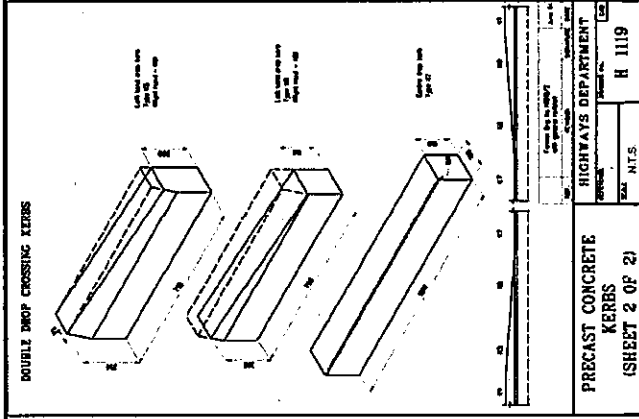
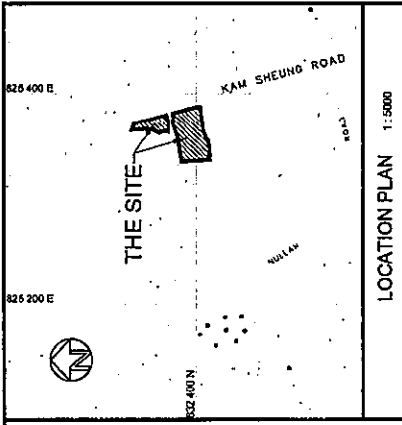


Photo 11



Photo 12





Appendix A

PROJECT  
LOT 455RP(PART) IN DD106, KAM SHEUNG ROAD,  
KAM TIN, YUEN LONG, N.T.

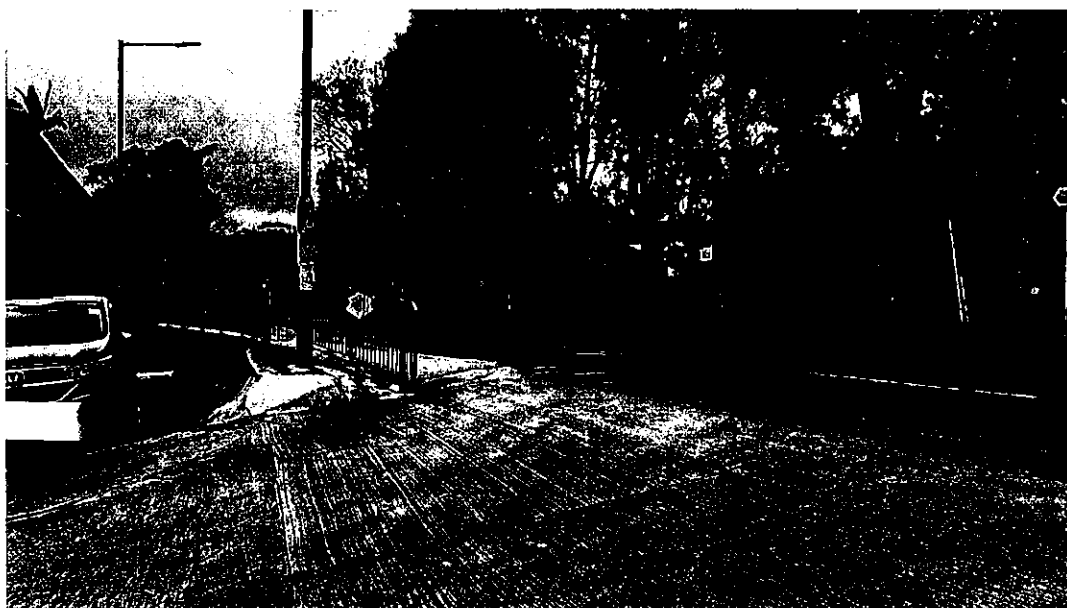
TITLE  
PROPOSED RUN-IN / RUN-OUT PLAN  
AT KAM SHEUNG ROAD

HANG TONE

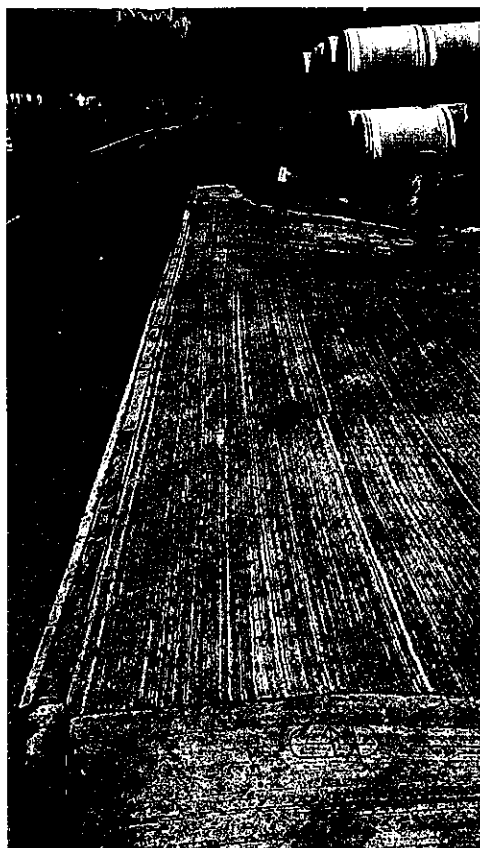
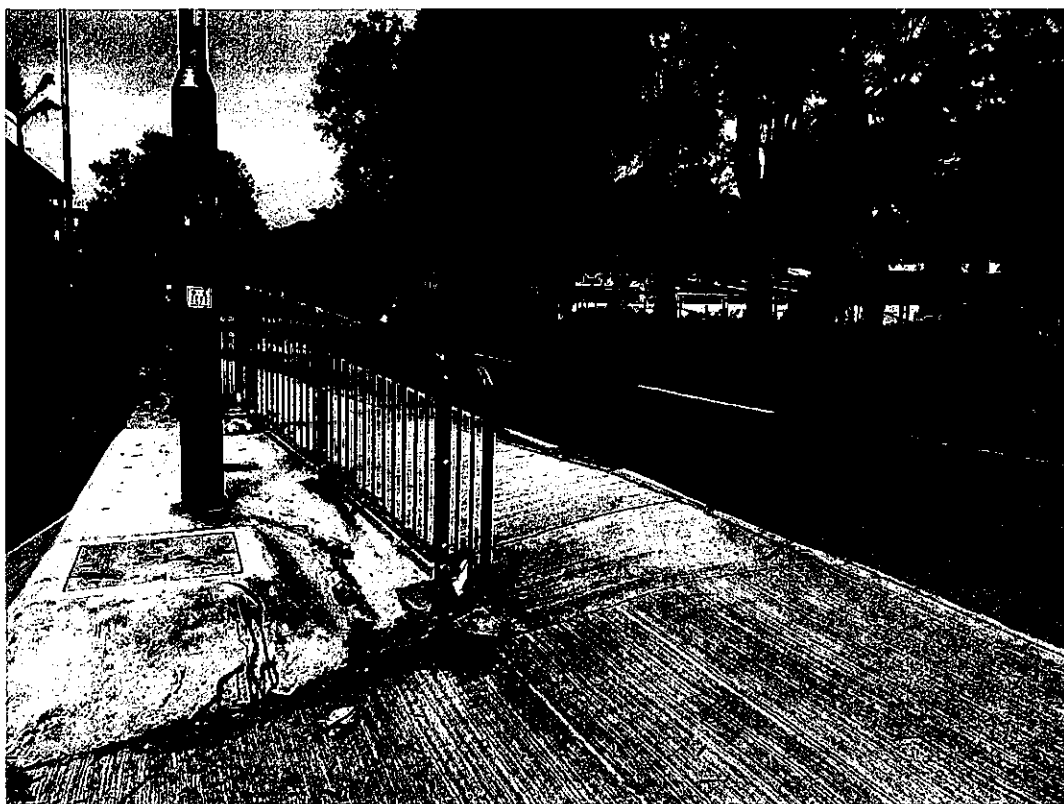
SCALE  
1:500 OR  
AS SHOWN - A3

DRAWING No  
HT21100/RD01-A

Application No. A/YL-KTS/984  
Photographic record of the existing run-in/out on the site



Application No. A/YL-KTS/984  
Photographic record of the existing run-in/out on the site



Application No. A/YL-KTS/984  
Photographic record of the existing run-in/out on the site

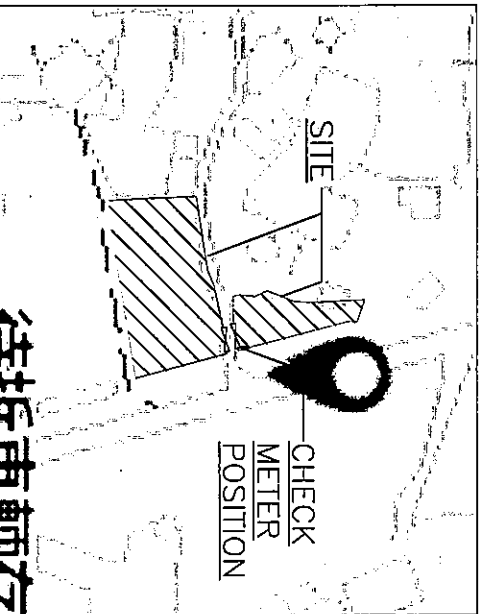


FIRE SERVICES NOTES:

1. HOSE REEL SYSTEM
- 1.1 HOSE REEL SHALL BE PROVIDED AT POSITIONS AS INDICATED ON PLANS.
- 1.2 THERE SHALL BE SUFFICIENT HOSE REELS TO ENSURE THAT EVERY PART OF THE BUILDING CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30M OF HOSE REEL TUBING. ONE ACTUATING POINT AND ONE AUDIO WARNING DEVICE TO BE LOCATED AT EACH HR POINT. THE ACTUATING POINT SHOULD INCLUDE FACILITIES FOR THE FIRE PUMP START DEVICE INITIATION.
- 1.3 A MODIFIED HOSE REEL SYSTEM OF 2,000 LITRES WATER TANK TO BE PROVIDED FOR THE ENTIRE BUILDING AS INDICATED ON PLAN.
- 1.4 NO FIRE SERVICES INLET TO BE PROVIDED FOR THE MODIFIED HOSE REEL SYSTEM.
- 1.5 TWO FIXED FIRE PUMPS (DUTY/STANDBY) TO BE PROVIDED AT F.S. PUMP ROOM.
- 1.6 THE HOSE REEL SYSTEM INSTALLED SHOULD BE IN ACCORDANCE WITH PARA. 5.14 OF THE CODE OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATION AND EQUIPMENT 2012.
- 1.7 AN INSTRUCTION PLATE SHALL BE PROVIDED NEXT TO THE BREAK GLASS UNIT FOR OPERATION OF HOSE REEL.
2. MISCELLANEOUS
- 2.1 ALL EQUIPMENT USED IN THE INSTALLATION SHALL BE OF THE APPROVED TYPE AND APPROVED MAKE BY THE H.K.F.S.D.
- 2.2 ALL OVER FLOW PIPE OF WATER TANKS SHALL BE DISCHARGED IN A CONSPICUOUS POSITION TO THE COMMUNAL AREA WHERE IT IS EASILY VISIBLE AND ACCESSIBLE BY THE OCCUPANTS.
- 2.3 ALL ABOVE GROUND PIPEWORKS UP TO INCLUDING  $\phi 150\text{mm}$  SHALL BE GALVANIZED MILD STEEL (G.M.S.) PIPES TO BS 1387 / BSEN 10255 MEDIUM GRADE AND JOINTED WITH SCREWED FITTINGS, SCREWED FLANGES, OR SCREWED UNIONS.
- 2.4 ALL UNDERGROUND PIPEWORKS UP TO AND INCLUDING  $\phi 150\text{mm}$  SHALL BE GALVANIZED MILD STEEL (G.M.S.) PIPE TO BS 1387 / BSEN 10255 HEAVY GRADE AND JOINTED WITH SCREWED FITTINGS, SCREWED FLANGES, OR SCREWED UNIONS.
- 2.5 ALL PIPEWORKS FROM  $\phi 150\text{mm}$  UPWARDS SHALL BE DUCTILE IRON (D.I.) TO BS 4722 AND JOINTED WITH FLANGE AND FLANGED FITTINGS.
- 2.6 ALL COPPER ALLOY GATE VALVE SHALL CONFORM TO BS 5154 AND CHECK VALVES CONFORM TO BS 5153.
- 2.7 ALL BALL FLOAT VALVES SHALL CONFORM TO BS 1221, PART 1.
- 2.8 NO WATER PIPE SHALL BE EMBEDDED WITHIN LOAD BEARING STRUCTURAL ELEMENTS SUCH AS COLUMNS, BEAMS AND SLABS IN LONGITUDINAL DIRECTION.

ABBREVIATION

|        |                            |
|--------|----------------------------|
| SPR.   | SPRINKLER                  |
| F.H.   | FIRE HYDRANT               |
| H.R.   | HOSE REEL                  |
| F.E.   | FIRE EXTINGUISHER          |
| CQ.    | CARBON DIOXIDE             |
| L.P.C. | LOSS PREVENTION COUNCIL    |
| F.S.I. | FIRE SERVICES INSTALLATION |
| H/L    | HIGH LEVEL                 |
| M/L    | MID LEVEL                  |
| L/L    | LOW LEVEL                  |
| F/A    | FROM ABOVE                 |
| F/B    | FROM BELOW                 |
| T/A    | TO ABOVE                   |
| T/B    | TO BELOW                   |
| U/G    | UNDERGROUND                |
| F.S.   | FIRE SERVICES              |



LEGEND (FOR SCHEMATIC DIAGRAM)

|  |                                                                                                 |
|--|-------------------------------------------------------------------------------------------------|
|  | HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT |
|  | 150mm FIRE ALARM BELL                                                                           |
|  | BREAK GLASS UNIT                                                                                |
|  | GATE VALVE                                                                                      |
|  | NON RETURN VALVE                                                                                |
|  | BALL FLOAT VALVE                                                                                |
|  | PRESSURE SWITCH                                                                                 |
|  | PRESSURE GAUGE WITH COCK                                                                        |
|  | AUTOMATIC AIR VENT WITH COCK                                                                    |
|  | HOSE REEL PIPE                                                                                  |
|  | LEVEL SWITCH (HIGH LEVEL SIGNAL & LOW LEVEL SIGNAL)                                             |
|  | FLEXIBLE CONNECTOR                                                                              |
|  | CHECK METER POSITION                                                                            |
|  | PLUG                                                                                            |
|  | Y-STRAINER                                                                                      |

LEGEND (FOR LAYOUT PLAN)

|  |                                                                                                 |
|--|-------------------------------------------------------------------------------------------------|
|  | HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT |
|  | 150mm FIRE ALARM BELL                                                                           |
|  | BREAK GLASS UNIT                                                                                |
|  | GATE VALVE                                                                                      |
|  | NON RETURN VALVE                                                                                |
|  | BALL FLOAT VALVE                                                                                |
|  | PRESSURE SWITCH                                                                                 |
|  | HOSE REEL PIPE                                                                                  |
|  | CHECK METER POSITION                                                                            |
|  | 4KG DRY POWDER TYPE FIRE EXTINGUISHER                                                           |
|  | 5KG CO2 TYPE FIRE EXTINGUISHER                                                                  |
|  | SAND BUCKET                                                                                     |
|  | PUMP                                                                                            |
|  | EMERGENCY LIGHTING                                                                              |
|  | EXIT SIGN                                                                                       |
|  | MANUAL TYPE FIRE ALARM PANEL                                                                    |
|  | PUMP PANEL WITH WATERPROOF ENCLOSURE                                                            |

DRAWING LIST

| DRAWING NO.   | DESCRIPTION                                      |
|---------------|--------------------------------------------------|
| EP-20010-FS01 | FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST |
| EP-20010-FS02 | PROPOSED FSI LAYOUT PLAN                         |
| EP-20010-FS03 | SCHEMATIC DIAGRAM FOR HOSE REEL SYSTEM           |

PROJECT  
TEMPORARY SITE OFFICE AND SERVICE DEPOT FOR DRAINAGE AND SEWERAGE WORKS FOR A PERIOD OF 3 YEARS AT LOT 455 RP(PART) IN D.D. 106, KAM SHEUNG ROAD, KAM TIN, YUEN LONG, N.T.

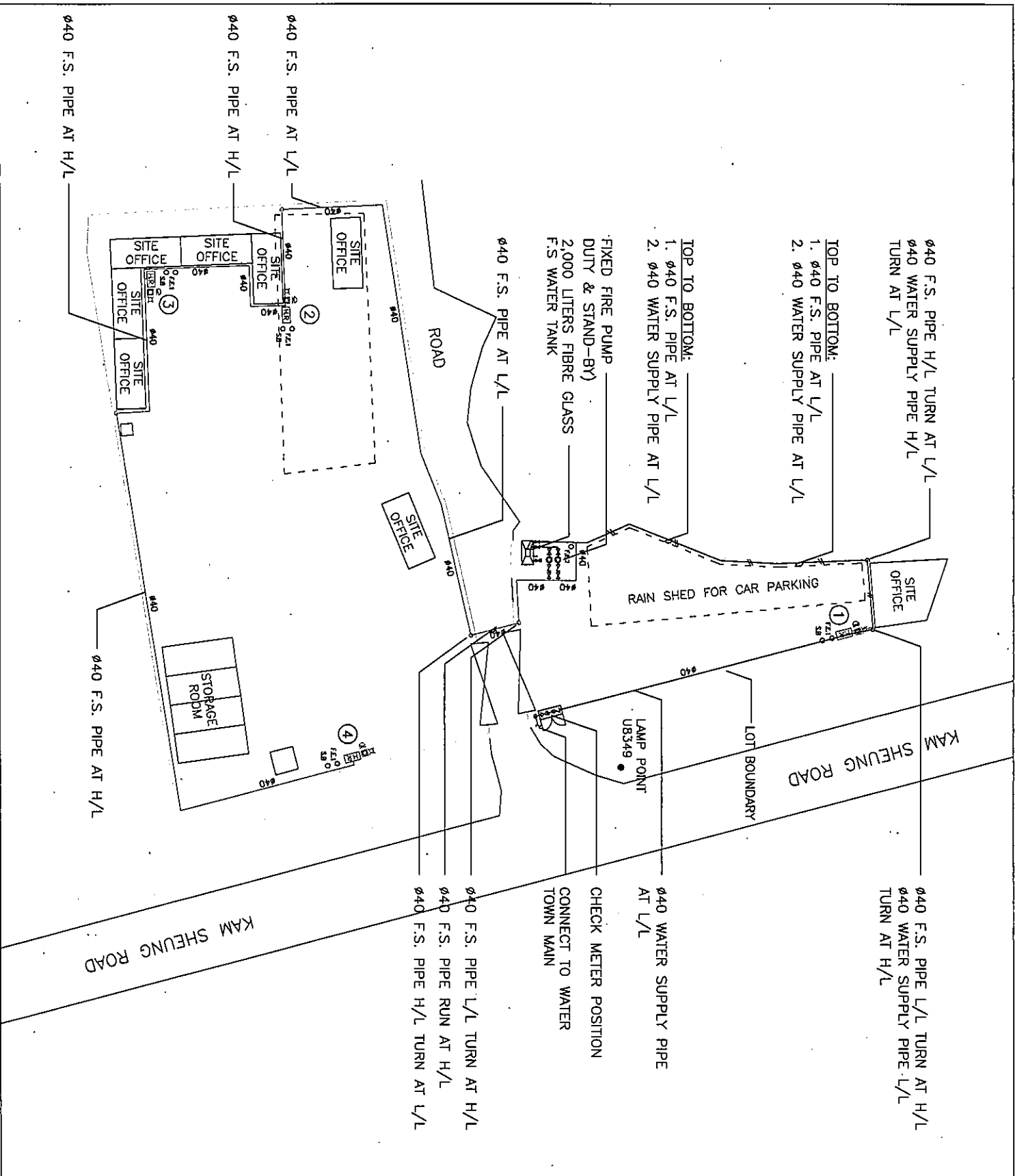
DRAWING TITLE  
FS NOTE, LEGEND, ABBREVIATIONS, DRAWING LIST

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
|-----|-------------|------|

|             |       |            |            |
|-------------|-------|------------|------------|
| DRAWN BY    | CJO   | CJO        | 14-05-2020 |
| DESIGNED BY | JN    | S. Eng     | 14-05-2020 |
| CHECKED BY  | CW    | PM         | 14-05-2020 |
| APPROVED BY | CW    | PM         | 14-05-2020 |
| PROJECT NO. | 20010 |            |            |
| PAPER SIZE  | A3    | PLOT SCALE | 1 : 1      |

DRAWING NO.  
EP-20010-FS01

| SCALE | N. T. S. | REVISION | B |
|-------|----------|----------|---|
|-------|----------|----------|---|



|                                                                                                                                                                                              |                            |                       |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|------------------------------|
| <b>PROJECT</b><br>TEMPORARY SITE OFFICE AND SERVICE DEPOT FOR DRAINAGE AND SEWERAGE WORKS FOR A PERIOD OF 3 YEARS AT LOT 455 RP(PART) IN D.D. 106, KAM SHEUNG ROAD, KAM TIN, YUEN LONG, N.T. |                            |                       |                              |
| <b>FSI CONTRACTOR</b><br>[REDACTED]                                                                                                                                                          |                            |                       |                              |
| <b>DRAWING NO.</b><br>EP-20010-FS02                                                                                                                                                          |                            |                       |                              |
| <b>SCALE</b><br>1 : 300                                                                                                                                                                      |                            |                       |                              |
| <b>REVISION</b><br>B                                                                                                                                                                         |                            |                       |                              |
| <b>DRAINING TITLE</b><br>PROPOSED FSI LAYOUT PLAN                                                                                                                                            |                            |                       |                              |
| <b>DRAWN BY</b><br>CJO                                                                                                                                                                       | <b>DATE</b><br>14-05-2020  | <b>INITIAL</b><br>CJO | <b>DESCRIPTION</b><br>CJO    |
| <b>DESIGNED BY</b><br>JN                                                                                                                                                                     | <b>DATE</b><br>14-05-2020  | <b>INITIAL</b><br>JN  | <b>DESCRIPTION</b><br>S. Eng |
| <b>CHECKED BY</b><br>CM                                                                                                                                                                      | <b>DATE</b><br>14-05-2020  | <b>INITIAL</b><br>CM  | <b>DESCRIPTION</b><br>PH     |
| <b>APPROVED BY</b><br>CM                                                                                                                                                                     | <b>DATE</b><br>14-05-2020  | <b>INITIAL</b><br>CM  | <b>DESCRIPTION</b><br>PH     |
| <b>PROJECT NO.</b><br>20010                                                                                                                                                                  |                            |                       |                              |
| <b>PAPER SIZE</b><br>A3                                                                                                                                                                      | <b>PLOT SCALE</b><br>1 : 1 |                       |                              |

## FIRE SERVICE (INSTALLATIONS AND EQUIPMENT) REGULATIONS

消防(裝置及設備)規例

(Regulation 9(1))

(第九條(1)款)

## CERTIFICATE OF FIRE SERVICE INSTALLATION AND EQUIPMENT

消防裝置及設備證書

FSD Ref.: \_\_\_\_\_  
消防處編號

A

Name of Client:

顧客姓名

Hang Tong Drainage Engineering Ltd

Name of Building:

樓宇名稱

Street No./Town Lot:

門牌號數/市地段

Lot 455 RP (Part) in D.D. 106

Street/Road/Estate Name:

街道/屋苑名稱

Kam Sheung Road

Block:

座

District:

分區

Yuen Long, Kam Tin

Area:

地區

☐ HK

香港

☐ K

九龍

☒ NT

新界

Type of Building 樓宇類型:

☐ Industrial 工業☐ Commercial 商業☐ Domestic 住宅☐ Composite 綜合☐ Licensed premises 持牌處所☐ Institutional 社團Part 1 Annual Inspection ONLY  
第一部 只適用於年檢事項

In accordance with Regulation 8(b) of Fire Service (Installations and Equipment) Regulations, the owner of any fire service installation or equipment which is installed in any premises shall have such fire service installation or equipment inspected by a registered contractor at least once in every 12 months. 根據消防(裝置及設備)規例第八條(b)款, 擁有裝置在任何處所內的任何消防裝置或設備的人, 須每12個月由一名註冊承辦商檢查該等消防裝置或設備至少一次。

| Code 編碼<br>(1-35) | Type of FSI 裝置類型        | Location(s) 位置 | Comment on Condition 狀況評述      | Completion Date<br>完成日期(DD/MM/YY) | Next Due Date<br>下次到期日(DD/MM/YY) |
|-------------------|-------------------------|----------------|--------------------------------|-----------------------------------|----------------------------------|
| 11                | Emergency Lighting      | G/F            | Conforms with FSD requirements | 03-01-2024                        | 02-01-2025                       |
| 12                | Exit Sign               | G/F            | Conforms with FSD requirements | 03-01-2024                        | 02-01-2025                       |
| 13                | Fire Alarm System (MFA) | G/F            | Conforms with FSD requirements | 03-01-2024                        | 02-01-2025                       |
| 16                | Fire Hydrant/Hose Reel  | G/F            | Conforms with FSD requirements | 03-01-2024                        | 02-01-2025                       |

## Part 2 第二部 Installation / Modification / Repair / Inspection work 裝置/改裝/修理/檢查工作

| Code 編碼<br>(1-35) | Type of FSI 裝置類型 | Location(s) 位置 | Nature of Work Carried out 完成之工作內容 | Comment on Condition 狀況評述 | Completion Date<br>完成日期(DD/MM/YY) |
|-------------------|------------------|----------------|------------------------------------|---------------------------|-----------------------------------|
|                   |                  |                | NIL                                |                           |                                   |

## Part 3 第三部 Defects 損壞事項

| Code 編碼<br>(1-35) | Type of FSI 裝置類型 | Location(s) 位置 | Outstanding Defects 未修缺點 | Comment on Defects 缺點評述 |
|-------------------|------------------|----------------|--------------------------|-------------------------|
|                   |                  |                | NIL                      |                         |

I/We hereby certify that the above installations/equipment have been tested and found to be in efficient working order in accordance with the Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment published from time to time by the Director of Fire Services. Defects are listed in Part 3.

本人藉此證明以上之消防裝置及設備經試驗, 證明性能良好, 符合消防處處長不時公佈的最低限度之消防裝置及設備守則與裝置及設備之檢查測試及保養守則的規格, 損壞事項列於第三部。

如證書涉及年檢事項, 應張貼於大廈  
或處所當眼處以供消防處人員查核

This certificate should be displayed at prominent location of the building or premises  
for FSD's inspection if any annual maintenance work is involved.

Authorized

Signature:

授權人簽署

Name:

姓名

FSD/RC No.:

消防處註冊號碼

Company Name:

公司名稱

Telephone:

聯絡電話

Date:

日期

For FSD  
use only:

Inspected

Key-in

Verified

04-01-2024

## FIRE SERVICE (INSTALLATIONS AND EQUIPMENT) REGULATIONS

消防(裝置及設備)規例

(Regulation 9(1))

(第九條(1)款)

## CERTIFICATE OF FIRE SERVICE INSTALLATION AND EQUIPMENT

消防裝置及設備證書

FSD Ref.:  
消防處編號

A

Name of Client : Hang Tong Drainage Engineering Ltd  
顧客姓名Name of Building :  
樓宇名稱Street No./Town Lot : Lot 455 RP (Part) in D.D. 106 Street/Road/Estate Name : Kam Sheung Road  
門牌號數/市地段 街道/屋苑名稱Block : District : Yuen Long, Kam Tin Area : ☐ HK ☐ K ☒ NT  
座 分區 地區 香港 九龍 新界Type of Building 樓宇類型 : ☐ Industrial 工業 ☐ Commercial 商業 ☐ Domestic 住宅 ☐ Composite 綜合 ☐ Licensed premises 持牌處所 ☐ Institutional 社團Part 1 Annual Inspection ONLY  
第一部 只適用於年檢事項

In accordance with Regulation 8(b) of Fire Service (Installations and Equipment) Regulations, the owner of any fire service installation or equipment which is installed in any premises shall have such fire service installation or equipment inspected by a registered contractor at least once in every 12 months. 根據消防(裝置及設備)規例第八條(b)款, 擁有裝置在任何處所內的任何消防裝置或設備的人, 須每12個月由一名註冊承辦商檢查該等消防裝置或設備至少一次。

| Code 編碼<br>(1-35) | Type of FSI 裝置類型 | Location(s) 位置 | Comment on Condition 狀況評述      | Completion Date<br>完成日期(DD/MM/YY) | Next Due Date<br>下次到期日(DD/MM/YY) |
|-------------------|------------------|----------------|--------------------------------|-----------------------------------|----------------------------------|
| 24                | 5 x 5Kg CO2 F.E. | G/F            | Conforms with FSD requirements | 03-01-2024                        | 02-01-2025                       |
| 25                | 3 x Sand Bucket  | G/F            | Conforms with FSD requirements | 03-01-2024                        | 02-01-2025                       |

## Part 2 第二部 Installation / Modification / Repair / Inspection work 裝置/改裝/修理/檢查工作

| Code 編碼<br>(1-35) | Type of FSI 裝置類型 | Location(s) 位置 | Nature of Work Carried out 完成之工作內容 | Comment on Condition 狀況評述 | Completion Date<br>完成日期(DD/MM/YY) |
|-------------------|------------------|----------------|------------------------------------|---------------------------|-----------------------------------|
|                   |                  |                | NIL                                |                           |                                   |

## Part 3 第三部 Defects 損壞事項

| Code 編碼<br>(1-35) | Type of FSI 裝置類型 | Location(s) 位置 | Outstanding Defects 未修缺點 | Comment on Defects 缺點評述 |
|-------------------|------------------|----------------|--------------------------|-------------------------|
|                   |                  |                | NIL                      |                         |

I/We hereby certify that the above installations/equipment have been tested and found to be in efficient working order in accordance with the Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment published from time to time by the Director of Fire Services. Defects are listed in Part 3.

本人藉此證明以上之消防裝置及設備經試驗, 證明性能良好, 符合消防處處長不時公佈之最低限度之消防裝置及設備守則與裝置及設備之檢查測試及保養守則的規格, 損壞事項列於第三部。

如證書涉及年檢事項, 應張貼於大廈  
或處所當眼處以供消防處人員查核

This certificate should be displayed at prominent location of the building or premises  
for FSD's inspection if any annual maintenance work is involved.

Authorized  
Signature :  
受權人簽署Name :  
姓名FSD/RC No. :  
消防處註冊號碼Company Name :  
公司名稱Telephone :  
聯絡電話Date :  
日期For FSD  
use only:

Inspected

Key-in

Verified

04-01-2024



☐Urgent ☐Return receipt ☐Expand Group ☐Restricted ☐Prevent Copy

**Appendix Ib of RNTPC  
Paper No. A/YL-KTS/984**

---

**From:** [REDACTED]  
**Sent:** 2024-02-02 星期五 16:07:48  
**To:** Ying Yeung MO/PLAND <yymo@pland.gov.hk>; tpbpd/PLAND <tpbpd@pland.gov.hk>  
**Subject:** Further Information - A/YL-KTS/984  
**Attachment:** TPB\_L06 Updated Layout Plan.pdf, Fig 5A\_2.2.2024.pdf

Dear Mr. Mo,

We would like to submit the updated Figure 5A layout plan for your further action. The layout and total floor area remain unchanged.

Please note that this letter will supersede the previous letters (Our Ref.: 23/826/L04 and 23/826/L05).

Should you have any queries or require further information, please feel free to contact the undersigned at [REDACTED].

Best Regards,  
Adam Chow



才鴻顧問有限公司  
TOP BRIGHT CONSULTANTS LIMITED

Our Ref.: 23/826/L06

Your Ref.: A/YL-KTS/984

February 2, 2024

Secretary  
Town Planning Board  
15/F., North Point Government Offices  
333 Java Road, North Point  
Hong Kong

By Email

Dear Sir/Madam,

**Temporary Site Office and Service Depot for Drainage and Sewerage Works for a  
Period of Three Years in "Other Specified Uses" annotated "Rural Use" Zone in  
Lot 455RP(Part) in DD106, Kam Sheung Road, Kam Tin, Yuen Long, New Territories**

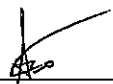
(Application No. A/YL-KTS/984)

We would like to submit the updated Figure 5A layout plan for your further action. The layout and total floor area remain unchanged.

Please note that this letter will supersede the previous letters (Our Ref.: 23/826/L04 and 23/826/L05).

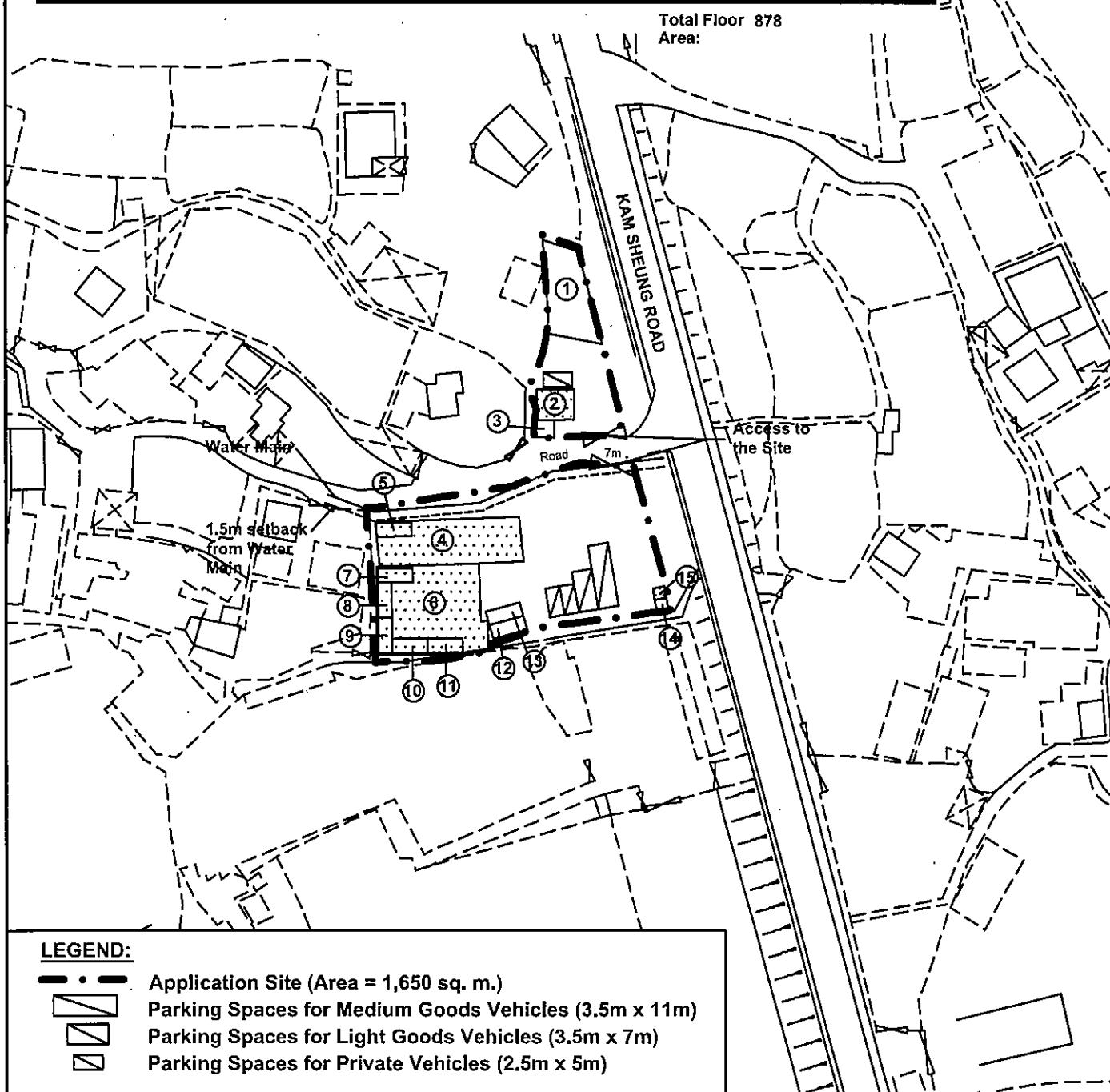
Should you have any queries or require further information, please feel free to contact the undersigned at [REDACTED].

Yours faithfully,  
For and on behalf of  
Top Bright Consultants Ltd.

  
\_\_\_\_\_  
Adam Chow

| Structure No. | Uses                                                                 | No. of Storey | Covered Area(m <sup>2</sup> ) | Countable Floor Area(m <sup>2</sup> ) | Height(m) |
|---------------|----------------------------------------------------------------------|---------------|-------------------------------|---------------------------------------|-----------|
| 1             | G/F: 2 Staff Parking Spaces, Pantry and Washroom<br>1/F: Site Office | 2             | 114                           | 228                                   | 6         |
| 2             | Canopy for 2 Staff Parking Spaces                                    | 1             | 25                            | 25                                    | 3         |
| 3             | F.S. Pump Room and Water Tank                                        | 1             | 9                             | 9                                     | 2.5       |
| 4             | Canopy for Ancillary Storage of Tools/Equipment                      | 1             | 193                           | 193                                   | 5         |
| 5             | Site Office (under the canopy)                                       | 1             | 15                            | 0                                     | 2.5       |
| 6             | Canopy                                                               | 1             | 280                           | 280                                   | 5.5       |
| 7             | Site Office (under the canopy)                                       | 2             | 15                            | 15                                    | 5         |
| 8             | Site Office (under the canopy)                                       | 2             | 15                            | 15                                    | 5         |
| 9             | Site Office (under the canopy)                                       | 2             | 15                            | 15                                    | 5         |
| 10            | Site Office (under the canopy)                                       | 2             | 15                            | 15                                    | 5         |
| 11            | Site Office (under the canopy)                                       | 2             | 15                            | 15                                    | 5         |
| 12            | Storeroom for Tools/Equipment                                        | 2             | 15                            | 30                                    | 5         |
| 13            | Storeroom for Tools/Equipment                                        | 2             | 15                            | 30                                    | 5         |
| 14            | Meter Room                                                           | 1             | 4                             | 4                                     | 2         |
| 15            | Canopy                                                               | 1             | 4                             | 4                                     | 2         |

Total Floor 878  
Area:



Top Bright Consultants Ltd.

Drawing No. : TB/23/826/05A

## Layout Plan

Lot 455RP(Part) in DD106, Kam Sheung Road,  
Kam Tin, Yuen Long, N.T.

## FIGURE 5A

FOR IDENTIFICATION PURPOSE

Date: 1.2.2024

Scale: 1 : 1 000



**Relevant Extracts of Town Planning Board Guidelines**  
**on Renewal of Planning Approval and Extension of Time for Compliance with**  
**Planning Conditions for Temporary Use or Development**  
**(TPB PG-No. 34D)**

1. The criteria for assessing applications for renewal of planning approval include:
  - (a) whether there has been any material change in planning circumstances since the previous temporary approval was granted (such as a change in the planning policy/land-use zoning for the area) or a change in the land uses of the surrounding areas;
  - (b) whether there are any adverse planning implications arising from the renewal of the planning approval (such as pre-emption of planned permanent development);
  - (c) whether the planning conditions under previous approval have been complied with to the satisfaction of relevant government departments within the specified time limits;
  - (d) whether the approval period sought is reasonable; and
  - (e) any other relevant considerations.
2. Under normal circumstances, the approval period for renewal should not be longer than the original validity period of the temporary approval. In general, the Board is unlikely to grant an approval period exceeding three years unless there are strong justifications and the period is allowed for under the relevant statutory plans. Depending on the circumstances of each case, the Board could determine the appropriate approval period, which may be shorter than the time under request.



**Previous s.16 Applications covering the Application Site**

**Approved Applications**

|    | <b>Application No.</b> | <b>Use/Development</b>                                                                          | <b>Date of Consideration</b>        |
|----|------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. | A/YL-KTS/754           | Temporary Site Office and Service Depot for Drainage and Sewerage Works for a Period of 3 Years | 26.1.2018<br>[Revoked on 26.6.2020] |
| 2. | A/YL-KTS/875           | Temporary Site Office and Service Depot for Drainage and Sewerage Works for a Period of 3 Years | 26.2.2021                           |



**Government Departments' General Comments**

**1. Traffic**

Comments of the Commissioner for Transport (C for T):

- no adverse comment on the application from traffic engineering perspective.

Comments of the Chief Highway Engineer/New Territories West, Highways Department (CHE/NTW, HyD):

- no comment on the application from highways maintenance perspective.

**2. Drainage**

Comments of the Chief Engineer/Mainland North, Drainage Services Department (CE/MN, DSD):

- no objection in-principle to the application; and
- should the application be approved, the applicant is required to maintain the existing drainage facilities implemented under the previous planning application, and to submit records of the existing drainage facilities on the application site (the Site) to the satisfaction of the Director of Drainage Services or of the Town Planning Board (the Board).

**3. Fire Safety**

Comments of the Director of Fire Services (D of FS):

- no objection in-principle to the application subject to the existing fire service installations implemented on the Site being maintained in efficient working order at all times.

**4. Landscape**

Comments of the Chief Town Planner/Urban Design and Landscape, Planning Department (CTP/UD&L, PlanD):

- no objection to the application from landscape planning perspective; and
- based on the aerial photo of 2022, the Site is located in an area of miscellaneous rural fringe landscape character composed of scattered temporary structures, open storage and tree groups. Comparing the aerial photos of 2022 and 2020, there is no significant change to the landscape character of the surrounding area since the last application was approved. According to the Supplementary Planning Statement, there is no significant change in the proposed layout and all the 9 nos. of existing trees within the Site will be preserved. Further significant adverse landscape impact within the Site arising from the continuous use is not anticipated.

**5. Building Matters**

Comments of the Chief Building Surveyor/New Territories West, Buildings Department (CBS/NTW, BD):

- as there is no record of approval granted by the Building Authority for the existing structures at the Site, he is not in a position to offer comments on their suitability for the use proposed in the application.

**6. District Officer's Comments**

Comments of the District Officer (Yuen Long), Home Affairs Department (DO(YL), HAD):

- his office has not received any local's comment on the application and he has no particular comment on the application.

**7. Other Departments**

The following government departments have no objection to / no adverse comment / no comment on the application:

- the Project Manager (West), Civil Engineering and Development Department (PM(W), CEDD); and
- the Chief Engineer/Construction, Water Supplies Department (CE/C, WSD).

**Recommended Advisory Clauses**

- (a) to resolve any land issues relating to the development with the concerned owner(s) of the application site (the Site);
- (b) to note the comments of the District Lands Officer/Yuen Long, Lands Department (DLO/YL, LandsD) that:
  - the lot owner(s) shall apply to his office for a Short Term Waiver (STW) to permit the structure(s) erected within the private lot. The application for STW will be considered by the Government in its capacity as a landlord and there is no guarantee that it will be approved. The STW, if approved, will be subject to such terms and conditions including the payment of waiver fee and administrative fee as considered appropriate by LandsD. Besides, given the proposed use is temporary in nature, only erection of temporary structure(s) will be considered; and
  - there are unauthorised structures and uses on the private lot which is already subject to lease enforcement actions according to case priority. The lot owner(s) should rectify/apply for regularisation on the lease breaches as demanded by LandsD;
- (c) to note the comments of the Commissioner for Transport (C for T) that:
  - the Site is connected to the public road network via a section of a local access road which is not managed by Transport Department. The land status of the local access road should be checked with LandsD. Moreover, the management and maintenance responsibilities of the local access road should be clarified with the relevant lands and maintenance authorities accordingly. Sufficient manoeuvring space shall be provided within the Site. No vehicle is allowed to queue back to or reverse onto/from public road at any time during the planning approval period;
- (d) to note the comments of the Chief Highway Engineer/New Territories West, Highways Department (CHE/NTW, HyD) that:
  - HyD shall not be responsible for the maintenance of any access connecting the Site and Kam Sheung Road;
  - the applicant should ensure the run-in/out is constructed in accordance with the latest version of HyD Standard Drawings no. H1113 and H1114, or H5133, H5134 and H5135, whichever set is appropriate to match with the existing adjacent pavement; and
  - adequate drainage measures should be provided to prevent surface water running from the Site to nearby public roads and drains;
- (e) to note the comments of the Director of Environmental Protection (DEP) that:
  - the applicant is advised to follow the relevant mitigation measures and requirements in the revised 'Code of Practice on Handling the Environmental Aspects of Temporary uses and Open Storage Sites' to minimise any potential environmental nuisances on the surrounding area; and
  - it is the obligation of the applicant to meet the statutory requirements under relevant pollution control ordinances;

(f) to note the comments of the Chief Engineer/Construction, Water Supplies Department (CE/C, WSD) that:

- existing water mains will be affected. The cost of any necessary diversion shall be borne by the proposed development;
- in case it is not feasible to divert the affected water mains, a waterworks reserve within 1.5 metres from the centre line of the water main shall be provided to WSD. No structure shall be built or materials stored within this waterworks reserve. Free access shall be made available at all times for staff of the Director of Water Supplies or their contractor to carry out construction, inspection, operation maintenance and repair works;
- no trees or shrubs with penetrating roots may be planted within the Waterworks Reserve or in the vicinity of the water mains; and
- the Government shall not be liable to any damage whatsoever and howsoever caused arising from burst or leakage of the public water mains within and in close vicinity of the Site;

(g) to note the comments of the Chief Building Surveyor/New Territories West, Buildings Department (CBS/NTW, BD) that:

- if the existing structures (not being a New Territories Exempted House) are erected on leased land without the approval of the Building Authority (BA), they are unauthorised building works (UBW) under the Buildings Ordinance (BO) and should not be designated for any proposed use;
- for UBW erected on leased land, enforcement action may be taken by the BD to effect their removal in accordance with the prevailing enforcement policy against UBW as and when necessary. The granting of any planning approval should not be construed as an acceptance of any existing building works or UBW on the Site under BO;
- before any new building works (including containers/open sheds as temporary buildings) are to be carried out on site, prior approval and consent of the BD should be obtained, otherwise they are UBW under BO. An Authorised Person (AP) should be appointed as the co-ordinator for the proposed building works on the site in accordance with BO;
- the two sites shall be considered as two separate sites and provided with means of obtaining access thereto from a street and emergency vehicular access in accordance with Regulations 5 and 41D of the Building (Planning) Regulations respectively;
- the two sites do not abut on a specified street of not less than 4.5m wide and its permitted development intensity of each individual site shall be determined under Regulation 19(3) of the Building (Planning) Regulations at building plan submission stage;
- any temporary shelters or converted containers for office, storage, washroom or other uses are considered as temporary buildings subject to the control of Part VII of the Building (Planning) Regulations; and
- detailed checking under the BO will be carried out at building plan submission stage.

☐ Urgent ☐ Return Receipt Requested ☐ Sign ☐ Encrypt ☐ Mark Subject Restricted ☐ Expand personal&publi



**A/YL-KTS/984 DD 106 Kam Sheung Road Rural**  
16/01/2024 01:59

From:

To: "tpbpd" <tpbpd@pland.gov.hk>, "ceo" <ceo@ceo.gov.hk>

Sent by: tpbpd@pland.gov.hk

File Ref:

Apologies, 984 is the correct current application number

**From:**

**To:** tpbpd <tpbpd@pland.gov.hk>; ceo <ceo@ceo.gov.hk>

**Date:** Tuesday, 16 January 2024 1:57 AM HKT

**Subject:** Re: A/YL-KTS/754 DD 106 Kam Sheung Road Rural

Dear TPB Members,

754 revoked for failure to fulfill Fire Conditions.

Solution - file another application 875. Conditions not fulfilled.

But never mind, its only fire conditons stoopid, the worst that can happen is that the district is engulfed in acrid smoke and some workers and fire fighters end up in hopsital.

That the operator is working for THE HONG KONG GOVERNMENT on public drainage works makes the failure to fulfill conditions all the more alarming.

It is high time that the government WALK THE TALK on safety at worksites in view of the now far too frequent incidents by ensuring that companies engaged in public works set a good example. Why has DSS not ensured that its contractors are following regulations?

TPB has a duty to reject applications for operations with long histories of failure to fulfill conditions. The CE should ensure that advisory bodies appointed by him are placing the interests of the community first.

Mary Mulvihill

**From:**

**To:** tpbpd <tpbpd@pland.gov.hk>

**Date:** Friday, 22 September 2017 1:35 AM HKT

**Subject:** A/YL-KTS/754 DD 106 Kam Sheung Road Rural

**A/YL-KTS/754**

Lot 455 RP (Part) in D.D.106, Kam Sheung Road, Kam Tin, Yuen Long

Site area : 1,639 m<sup>2</sup>

Zoning : "Other Specified Uses" annotated "Rural Use"

Applied Use : Temporary Site Office and Service Depot for Drainage Works

Dear TPB Members,

The development is not in line with the planning intention of "Other Specified Uses" annotated "Rural Use" ("OU(RU)") zone which is primarily for preservation of the character of the rural area. Uses or developments compatible with the rural landscape, such as passive recreation uses and a selected range of rural uses, may be allowed on application to the Town Planning Board, with a view to upgrading or improving the area or providing support to the local communities.

Note that this does not include any use that would convert the site to brownfield.

I strongly object to this application as it is a typical ploy to take over land zoned for other uses under the excuse that it is for public works back up.

When the projects are completed the sites are never restored to their original state and applications are then made that the degraded sites be rezoned to other use.

A recent example was the Kowloon Tong GB site rubberstamped rezoned to Residential as it had been used for similar works and was not restored upon completion of the works.

The community is now well aware of these tricks.

There are hectares of brownfield sites in NT, and lots of it government land. This site office should be located at one of them.

Mary Mulvihill