

2025年 3月 1 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
申請的資料。

11 MAR 2025

The application is received on
The Planning Board will formally acknowledge
the 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/tc/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

2403095 30/12 by hand

Form No. S16-III 表格第 S16-III 號

For Official Use Only 請勿填寫此欄	Application No. 申請編號	A/4C-PH/1056
	Date Received 收到日期	11 MAR 2025

- 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)

Huge Great International Limited

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)

Prudential Surveyors International 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)	Sub-Section 1 of Section B of Lot.82 (Part) in DD108, Fan Kam Road, Pat Heung, Yuen Long
(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 2,802 sq.m 平方米 ☒ About 約 ☒ Gross floor area 總樓面面積 148 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)	 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 Pat Heung OZP (S/YL-PH/11)
(e) Land use zone(s) involved 涉及的土地用途地帶	Residential (Group D)
(f) Current use(s) 現時用途	Open carpark and storage (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」[#]郵遞要求同意書[&]

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 _____ (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 _____ (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	Temporary Private Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage (Operational Tools and Materials) and Associated Filling of Land for a Period of 3 Years (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 3 ☐ month(s) 個月
(c) Development Schedule 發展細節表	
Proposed uncovered land area 擬議露天土地面積	2,698sq.m ☒ About 約
Proposed covered land area 擬議有上蓋土地面積	104sq.m ☒ About 約
Proposed number of buildings/structures 擬議建築物/構築物數目	5
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	148sq.m ☒ About 約
Proposed gross floor area 擬議總樓面面積	148sq.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) One 2-storey temporary structure for office and storage use (about 5.61m in height) One 1-storey dry toilet (about 2.6m in height) One 1-storey dry toilet (about 2.5m in height) Two 1-storey container temporary storage (about 2.6m in height)	
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 10 Heavy Goods Vehicle Parking Spaces 重型貨車泊車位 5 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 Monday to Saturday 7:00am – 7:00pm (no operation on Sunday and Public Holidays)			
(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)) Fan Kam Road ☐ 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)	
	No 否	☐	
(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 2,802 sq.m 平方米 ☒ About 約 Depth of filling 填土厚度 0.3 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 ☐ Re: the existing filling of land on site was conducted before 2004, this application do not included additional filling works.	
	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/ _____ / _____
(b) Date of approval 獲批給許可的日期	 (DD 日/MM 月/YYYY 年)
(c) Date of expiry 許可屆滿日期	 (DD 日/MM 月/YYYY 年)
(d) Approved use/development 已批給許可的用途／發展	
(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 ☐ 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 the Supporting 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

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

Michael C K Lee

Director

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

Prudential Surveyors International Limited

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

Date 日期

19 DEC 2024

(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	Sub-Section 1 of Section B of Lot.82 (Part) in DD108, Fan Kam Road, Pat Heung, Yuen Long 元朗八鄉粉錦路丈量約份第108約地段第82號B分段第一小分段 (部分)
Site area 地盤面積	2,802 sq. m 平方米 ☒ About 約 (includes Government land of 包括政府土地 sq. m 平方米 ☐ About 約)
Plan 圖則	Approved Pat Heung OZP (S/YL-PH/11) 八鄉分區計劃大綱核准圖 S/YL-PH/11
Zoning 地帶	Residential (Group D) 住宅(丁類)
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 3 ☐ 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 ☐ Month(s) 月
Applied use/ development 申請用途/發展	Temporary Private Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage (Operational Tools and Materials) and Associated Filling of Land for a Period of 3 Years 臨時私人停車場 (中型貨車及重型貨車) 及露天存放 (業務用具及物資) 及相關的填土工程 (為期3年)

(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	☐ About 約 ☐ Not more than 不多於	☐ About 約 ☐ Not more than 不多於
	Non-domestic 非住用	148 ☒ About 約 ☐ Not more than 不多於	0.053 ☒ About 約 ☐ Not more than 不多於
(ii) No. of blocks 幢數	Domestic 住用		
	Non-domestic 非住用	5	
(iii) Building height/No. of storeys 建築物高度／層數	Domestic 住用	m 米 ☐ (Not more than 不多於)	
		Storeys(s) 層 ☐ (Not more than 不多於)	
	Non-domestic 非住用	5.61	☒ (Not more than 不多於) m 米
		2	☒ (Not more than 不多於) Storeys(s) 層
(iv) Site coverage 上蓋面積	3.71 % ☒ 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		15
	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) _____ _____		10 5
	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) _____ _____		

Submitted Plans, Drawings and Documents 提交的圖則、繪圖及文件		
	<u>Chinese</u> 中文	<u>English</u> 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）	☐	☐
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）	☐	☒
Drainage Proposal		
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。

Supporting Planning Statement

Planning Application under Section 16 of Town Planning Ordinance

For

**Temporary Private Vehicle Park (Medium and Heavy Goods Vehicle) and Open
Storage (Operational Tools and Materials) Use for 3 years and Associated
Filling of Land**

At

Sub-Section 1 of Section B of Lot No.82 (Part) in DD108, Fan Kam Road,

Pat Heung, New Territories

Prepared by : Prudential Surveyors International Limited

Date : December 2024

Executive Summary

This Supporting Planning Statement is to supplement the application for permission from Town Planning Board (the “TPB”) under Section 16 of the Town Planning Ordinance for temporary private vehicle park (medium and heavy goods vehicle) and open storage (operational tools and materials) use and associated filling of land for 3 years (the “Subject Application”) at Sub-Section 1 of Section B of Lot No.82 (Part) in Demarcation District 108, Fan Kam Road, Pat Heung, New Territories (the “Application Site”). The Site falls within an area zoned “Residential (Group D)” under the Approved Pat Heung Outline Zoning Plan No.S/YL-PH/11 whilst temporary use not exceeding a period of three years requires permission from the TPB.

Details of the site/development parameters are listed as follow:-

Application Site Area	2,802 s.m. (about)
Covered Area	104 s.m. (about)
Uncovered Area	2,698 s.m. (about)
Site Coverage	3.71% (about)
No. of Structure	One 2-storey temporary structure for ancillary office and storage use Two single-storey dry toilet Two single-storey container storage
Non-Domestic GFA	148 s.m (about)
Plot Ratio	0.053 (about)
Maximum Building Height	5.61 m (about)
No. of Parking Spaces	15 goods vehicle parking spaces, including 10 nos. of 7.5m x 2.5m spaces and 5 nos. of 9.5m x 2.8m spaces
Main Vehicular Access	via Fan Kam Road

The tentative user of the Application Site is a company provide hygiene related service and the Application Site is proposed to support the operation of the user’s business.

To safeguard the enjoyment of nearby residents and having balanced the operational needs, the Applicant proposes the operation hours be limited to Monday to Saturday 7:00 a.m. to 7:00 p.m. whereas no operation will be conducted on Sunday and public holidays.

The Application Site has been filled to a level of about 47.3m above Hong Kong Principal Datum on or before 2004. No additional filling of land will be carried out on site.

In summary of this Supporting Planning Statement, the Subject Application is justified on following grounds:

- In Compliance with the Surrounding Land Use
- Better Utilization of Land Resources
- Would Not Result in Undesirable Precedent Case
- No adverse impact on Visual, Sewerage, Drainage, Noise and Traffic

行政摘要

(內文如有差異，應以英文版本為準)

本規劃許可申請尋求城市規劃委員會(「城規會」)批准於新界八鄉粉錦路丈量約份第 108 約地段第 82 號 B 分段第 1 小分段(部份)(「申請地盤」)用作臨時私人停車場(中型及重型貨車泊車位)及露天貯物用途(業務用工具及物資)及相關的填土工程(為期 3 年)。現誠根據城市規劃條例第 16 條提交規劃申請。申請地盤位於八鄉分區計劃大綱核准圖編號 S/YL-PH/11 範圍，被劃作「住宅(丁類)」的用途地帶，而臨時用途為期不超過三年，須向城規會申請規劃許可。

地盤及擬議發展參數如下:

申請地盤面積	約 2,802 平方米
有蓋面積	約 104 平方米
露天面積	約 2,698 平方米
上蓋面積比率	約 3.71%
建築物數目	1 座 2 層高臨時建築物作附屬辦公室及貯物用途 2 座 1 層高旱廁 2 座 1 層高貨櫃儲存倉
非住用樓面面積	約 148 平方米
地積比率	約 0.053
最大建築物高度	約 5.61 米
停車位數目	15 個貨車泊車位, 當中包括 10 個 7.5 米 x 2.5 米泊車位 5 個 9.5 米 x 2.8 米 泊車位
主要行車出入口	粉錦路

申請地盤的使用者為一家提供衛生相關服務的公司，申請地盤會用作支援使用者的業務運作。

為保障附近居民的享受以及平衡了申請人的業務運作需要，申請人提議申請地盤的運作時間為星期一至星期六早上 7 時至晚上 7 時，星期日及公眾假期則不會運作。

申請地點在 2004 年或之前已經填土至大約香港水平基準以上 47.3 米。申請地點不會再進行額外的填土工程。

總括而言，本規劃申請有充分理據支持，是次規劃申請:

- 符合現有周邊環境用途
- 善用珍貴土地資源
- 不會造成不良先例
- 不會對視覺，排污，排水，噪音及交通造成不利影響

基於本規劃所提出的理據支持，我們懇請城規會對本規劃申請作出正面積極的考慮。

1. Background

This application for permission under Section 16 of the Town Planning Ordinance (TPO) is prepared and submitted on behalf of the Applicant to the Town Planning Board (TPB) for a temporary private car park (medium and heavy goods vehicle) and open storage use (operational tools and materials) and associated filling of land for 3 years (the “Subject Application”) at Sub-Section 1 of Section B of Lot No.82 (Part) in Demarcation District 108, Fan Kam Road, Pat Heung, New Territories (the “Application Site”).

The Subject Application is mainly same as the previous S.16 Approval A/YL-PH/933 on 14 July 2023. Due to some approval conditions related to technical issue are unable to complied before the deadline, the Application would like to re-submit a new S.16 Application together with the full set technical proposal.

2. Site Context

The Application Site, having an area of about 2,802 s.m., is located to the east of and abutting Fan Fam Road in an area locally known as Ta Shek Wu, at its junction with an unnamed local vehicular access branching off Fan Kam Road. The Application Site is located in the midway between Sheung Shui and Pat Heung which are situated at about 15 minutes’ driving distance to the northeast and southwest respectively. The vicinity of the Application Site is rural in nature with mixed users including open storage, open car parking, temporary structure for industrial and storage use, intermingled with a small amount of village houses in various forms. Access to the Application Site is via the aforementioned local road branching off Fan Kam Road which is concrete-paved. The Application Site was fenced by mesh wire fencing along its perimeter as per our inspection on 6 November 2024. According to the Lands Department’s Survey Sheet, the existing ground level of the Application Site is about 47.5m above Hong Kong Principal Datum. Location Plan of the Site is attached in **Appendix 1**.

3. Planning Context

The Application Site falls within an area zoned “Residential (Group D)” (“R(D)”) under the Approved Pat Heung Outline Zoning Plan No.S/YL-PH/11 dated 27 October 2006 (the OZP).

According to the Schedule of Uses of the OZP, planning intention of R(D) zone is primarily for improvement and upgrading of existing temporary structures within the rural areas through redevelopment of existing temporary structures into permanent buildings. It is also intended for low-rise, low-density residential developments subject to planning permission from the Town Planning Board.

As vehicle park and open storage uses are not specified either under Column 1 or Column 2 of the R(D) zone, according to the Notes of the OZP, for temporary uses not exceeding a period of 3 years, permission from the TPB is required.

4. Previous Planning Application relevant to the Application Site

The Application Site (including portions of it) had been involved in 7 planning applications from 1993 to 2023 and the summary of the applications are listed as follow:

No.	Application No.	Applied Use	Location	Zone	Decision Date	Decision
1	A/DPA/YL-PH/19	Open Storage of Vehicles and General Goods	DD 108 LOT 82B, Fan Kam Road, Pat Heung	Undetermined	13/08/1993	Approved with condition(s) on a temporary basis
2	A/YL-PH/252	Temporary open storage of private cars and lorries (excluding containers and container vehicles) for a period of 12 months	DD 108 LOT 82B(P) & GOVT LAND, Fan Kam Road, Pat Heung, Yuen Long	Residential (Group D)	08/01/1999	Approved with condition(s) on a temporary basis
3	A/YL-PH/354	Proposed temporary open storage of private cars and lorries for a period of 3 years	DD 108 LOT 82SB(P) & GOVT LAND, Fan Kam Road, Pat Heung, Yuen Long	Residential (Group D)	02/02/2001	Approved with condition(s) on a temporary basis
4	A/YL-PH/459	Temporary open storage of private cars and lorries and Machinery for a period of 3 years	DD 108 LOT 82B(P), Pat Heung, Yuen Long, N.T.	Residential (Group D)	26/03/2004	Approved with condition(s) on a temporary basis
5	A/YL-PH/499	Temporary Open Storage of Private Cars and Lorries for a Period of 3 Years (Minor Amendments to a Previously Approved	DD 108 Lot 82B(Part) and Adjoining Government Land, Pat Heung, Yuen Long	Residential (Group D)	29/07/2005	Approved with condition(s) on a temporary basis

		Development Scheme Application No. A/YL- PH/459)				
6	A/YL- PH/459-1	Temporary open storage of private cars and lorries and Machinery for a period of 3 years Class B Amendment - extension of time limit	DD 108 LOT 82B(P), Pat Heung, Yuen Long, N.T.	Residential (Group D)	4/8/2005	Approved
7	A/YL- PH/933	Proposed Temporary Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage (Operation Tools and Materials) for a Period of 3 Years and Filling of Land	Lot 82 S.B ss.1 (Part) in D.D.108, Fan Kam Road, Pat Heung, Yuen Long	Residential (Group D)	14/07/2023	Approved with condition(s) on a temporary basis

5. Planning Application for Open Storage or Car Parking (or similar uses) in R(D) Zone

No.	Application No.	Applied Use	Location	Zone	Decision Date	Decision
1	A/YL- PH/965	Renewal of Planning Approval for Temporary Open Storage of Building Materials and Vehicles for Sale for a Period of 3 Years	Lots 100 RP, 101 S.A & B RP and 101 S.C RP in D.D. 111, A Kung Tin, Pat Heung, Yuen Long	"Residential (Group D)"	22/09/2023	Approved with condition(s) on a temporary basis
2	A/YL- PH/967	Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years and Filling of Land	Lots 14 S.B RP, 15 S.B RP, 16, 17, 18, 19 RP and 20 S.B RP (Part) in D.D. 111, Pat Heung, Yuen Long	"Residential (Group D)"	13/10/2023	Approved with condition(s) on a temporary basis

3	A/YL-PH/976	Proposed Temporary Public Vehicle Park (Excluding Container Vehicle) for a Period of 3 Years and Filling of Land	Lots 2897 (Part) and 2898 (Part) in D.D.111, Pat Heung, Yuen Long	"Residential (Group D)"	08/12/2023	Approved with condition(s) on a temporary basis
4	A/YL-PH/1001	Renewal of Planning Approval for Temporary Open Storage of Construction Material and Vehicle Parts for a Period of 3 Years	Lots 2901 (Part), 2902 (Part), 2904 (Part), 2905 (Part), 2909 (Part) and 2911 (Part) in D.D. 111 and Adjoining Government Land, Pat Heung, Yuen Long	"Residential (Group D)"	10/05/2024	Approved with condition(s) on a temporary basis
5	A/YL-PH/1010	Renewal of Planning Approval for Temporary Open Storage of Goods Vehicles for Sale for a Period of 3 Years	Lots 101 S.J (Part), 179 S.A RP (Part), 179 S.E RP (Part) and 179 S.D & S.F & S.G & S.I (Part) in D.D. 111 and Adjoining Government Land, Pat Heung, Yuen Long	"Residential (Group D)"	21/06/2024	Approved with condition(s) on a temporary basis

6. Land Status

The Application Site includes only portion of Sub-Section 1 of Section B of Lot No.82 in Demarcation District 108, and is solely owned by the Applicant.

7. Development Proposal

The Application Site is currently vacant and concrete-paved, with vehicular access via an unnamed local road branching off Fan Kam Road at south of the Application Site.

Details of the site/development parameters are listed as follow:-

Application Site Area	2,802 s.m. (about)
Covered Area	104 s.m. (about)
Uncovered Area	2,698s.m. (about)
Site Coverage	3.71% (about)
No. of Structure	One 2-storey temporary structure for office and storage use Two single-storey dry toilet Two single-storey container storage
Non-Domestic GFA	148 s.m (about)
Plot Ratio	0.053 (about)
Maximum Building Height	5.61 m (about)
No. of Parking Spaces	15 goods vehicle parking spaces (including 10 nos. of 7.5m x 2.5m spaces and 5 nos. of 9.5m x 2.8m spaces)
Proposed Operating Hours	Monday to Saturday 7:00am – 7:00pm (Only)

The details on structure are listed below :-

Structure	Use	Covered Area (about)	GFA (about)	Building Height
B1	Office and Storage	44 s.m.	88 s.m.	5.61 m (2-storey)
B2	Dry Toilet	15 s.m.	15 s.m.	2.6 m (1-storey)
B3	Dry Toilet	13 s.m.	13 s.m.	2.5 m (1-storey)
B4	Temporary Storage (Container)	16 s.m.	16 s.m.	2.6 m (1-storey)
B5	Temporary Storage (Container)	16 s.m.	16 s.m.	2.6 m (1-storey)
Total :		104 s.m.	148 s.m.	

The Site Layout Plan and Fire Service Installation Plan are attached in **Appendices 2 & 3** respectively.

The type of operational tools and materials to be stored on site is at **Appendix 4**.

8. Technical Issues

8.1 Visual Impact

Major portion of existing site level is about 2m lower than the level of Fan Kam Road. There are some 2-3m height trees growing along the Government land between the Application Site and Fam Kam Road, which serve as a nature visual barrier. Therefore, no adverse visual impact would be created. At the same time, there are numerous similar temporary open storages or car park sites along Fan Kam Road, thus the proposal will not be incompatible to the surrounding visual context. Photos showing the existing conditions of the Application Site is attached in **Appendix 5**.

8.2 Sewerage Impact

Dry toilets are to be used and the waste would be collected and disposed properly and regularly. Therefore, no adverse sewerage impact would be created to the nearby environment.

8.3 Drainage Impact

The drainage arrangement has been reviewed and the proposed design has been shown on the Drainage Proposal in **Appendix 6**.

8.4 Noise Impact

Basically, the operation of the Applicant requires no construction work but involves only parking of motor vehicles and open storage and as such, no construction noise would be generated and the main source of noise would be the maneuvering of vehicles and the loading and unloading activities, which would be similar to the existing road traffic noise. Furthermore, to safeguard the enjoyment of nearby residents and having balanced the operational needs of the Applicant, it is proposed that the operation hours be limited from 7:00 a.m. and 7:00 p.m. only from Monday to Saturday, and no operation would be conducted on Sunday and public holidays. Nuisances induced by noise to the nearby locality at night time could be avoided. Therefore, no adverse noise impact to the surrounding during the operation stage would be generated.

8.5 Traffic Impact

With reference to the Traffic Impact Assessment (“TIA”) Report in **Appendix 7**, the proposal would not generate adverse traffic impacts to the adjacent road network. Adequate manoeuvring space is provided within the Application Site whereas no vehicle queueing outside the Application Site is expected.

9. Filling of Land

According to the Notes of the OZP, any filling of land shall be subject to Town Planning Board's approval under section 16 of the Town Planning Ordinance. The existing ground level of the Application Site is about 47.3m above Hong Kong Principal Datum and in Subject Application, no additional filling of land will be carried out on site. However, as advised by the Planning Department, the existing filling of land on the site has not been covered in the previous planning approval, therefore filling of land has be included in this application.

As per the Lands Department's Survey Sheet, the existing ground level of the Application Site is about 47.3m above Hong Kong Principal Datum which is same as in 2004 (no site level of the site has been shown on the Survey Sheets before 2004), therefore the existing filling of land should have been conducted on or before 2004. Also, as refer to the aerial photos, the existing paving of the site was also appeared in 2004. As mentioned in Section 4 above, seven S.16 planning applications for carparking / open storage use have been approved on the Application Site in 1993, 1999, 2001, 2004, 2005 and 2023 respectively, therefore the existing filling of land should have been noted and considered by the Planning Department, as well as the Town Planning Board.

The Historical Survey Sheets and Aerial Photos are attached in **Appendices 8 & 9** respectively.

10. Justification

10.1 In Compliance with the Surrounding Land Use

The adjacent area is dominated by open storage, warehouse, car park and temporary industrial uses. It is anticipated that the area cannot be transformed into a residential area in short period of time in view of the existing mixed brownfield users. Therefore, it is considered that the proposal is in compliance with the current surrounding land use.

10.2 Better Utilization of Land Resources

The R(D) Zone is intended for low-rise, low-density residential developments. However, the area currently is still a mixed user area and is difficult to change into proper residential development and the support utility facility is still insufficient. Therefore, temporary open-air use can better utilize the precious land resources and would not decline the land until the area is suitable for permanent development.

10.3 Would Not Result in Undesirable Precedent Case

With reference to Paras. 4 and 5 above, the desktop review on previous planning cases found that numerous applications similar in nature within the same zonings were approved. Particularly, applications of similar use have been approved within the Site

between 1993-2005. In this connection, the proposal would be unlikely to result in undesirable precedent case.

10.4 Sustainable in Visual, Sewerage, Drainage, Noise and Traffic Impact

As demonstrated in Section 8 above, it was concluded that there will be no insurmountable problems for the implementation of the proposal at the Application Site.

11. **Conclusion**

In light of this Supporting Planning Statement, the Subject Application is justified on following grounds:

- In Compliance with the Surrounding Land Use
- Better Utilization of Land Resources
- Would Not Result in Undesirable Precedent Case
- Sustainable in Visual, Sewerage, Drainage, Noise and Traffic Impact

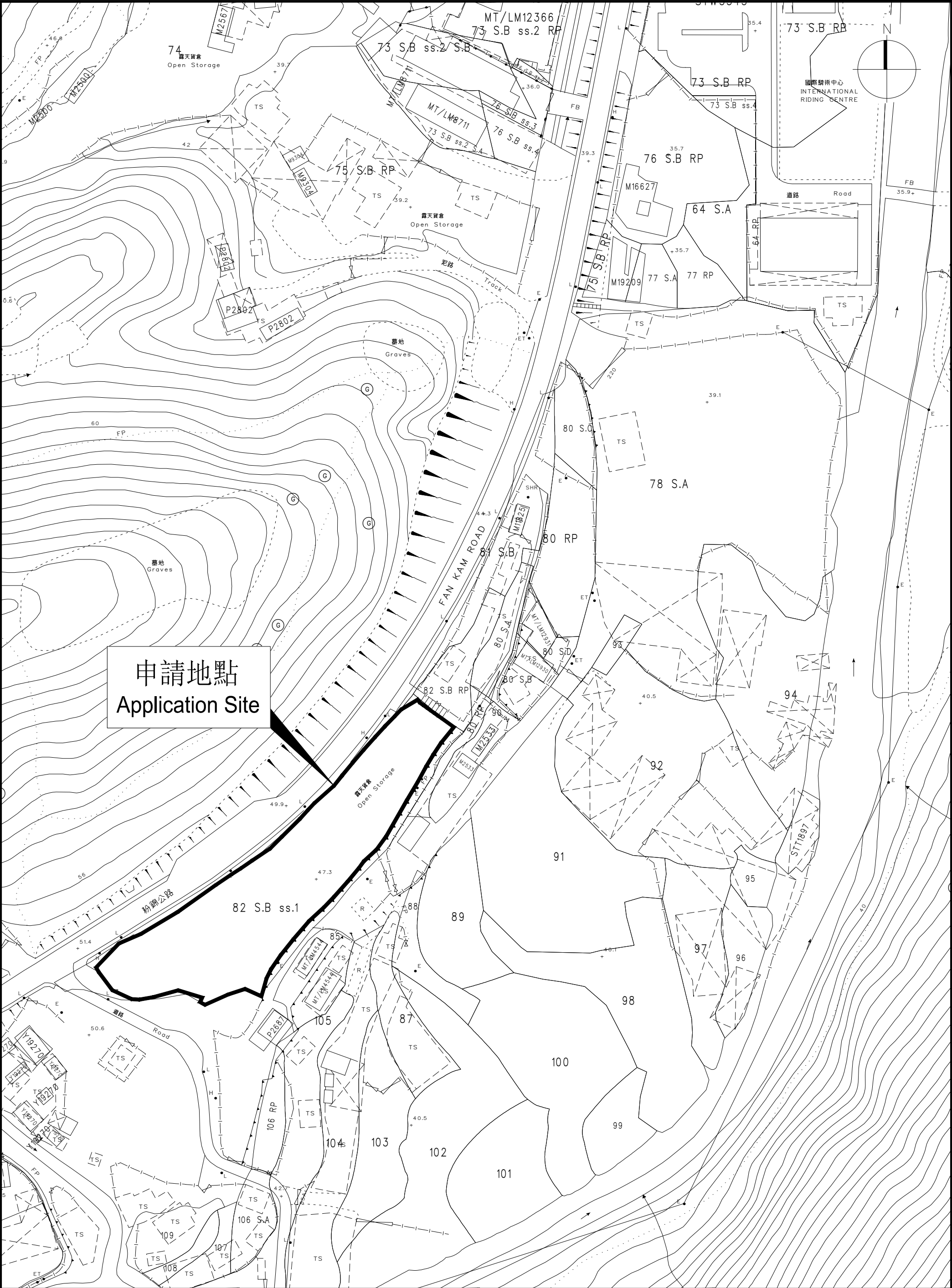
This Supporting Planning Statement demonstrates that the Subject Application deserves the favourable consideration by the TPB in light of the justifications provided. We trust that the TPB will see fit to approve the application.

List of Appendices

1. Location Plan
2. Site Layout Plan
3. Fire Service Installation Plan
4. List of Operational Tools and Materials
5. Photo of the Site
6. Drainage Proposal
7. Traffic Impact Assessment Report
8. Historical Survey Sheets
9. Historical Aerial Photos

Appendix 1

Location Plan



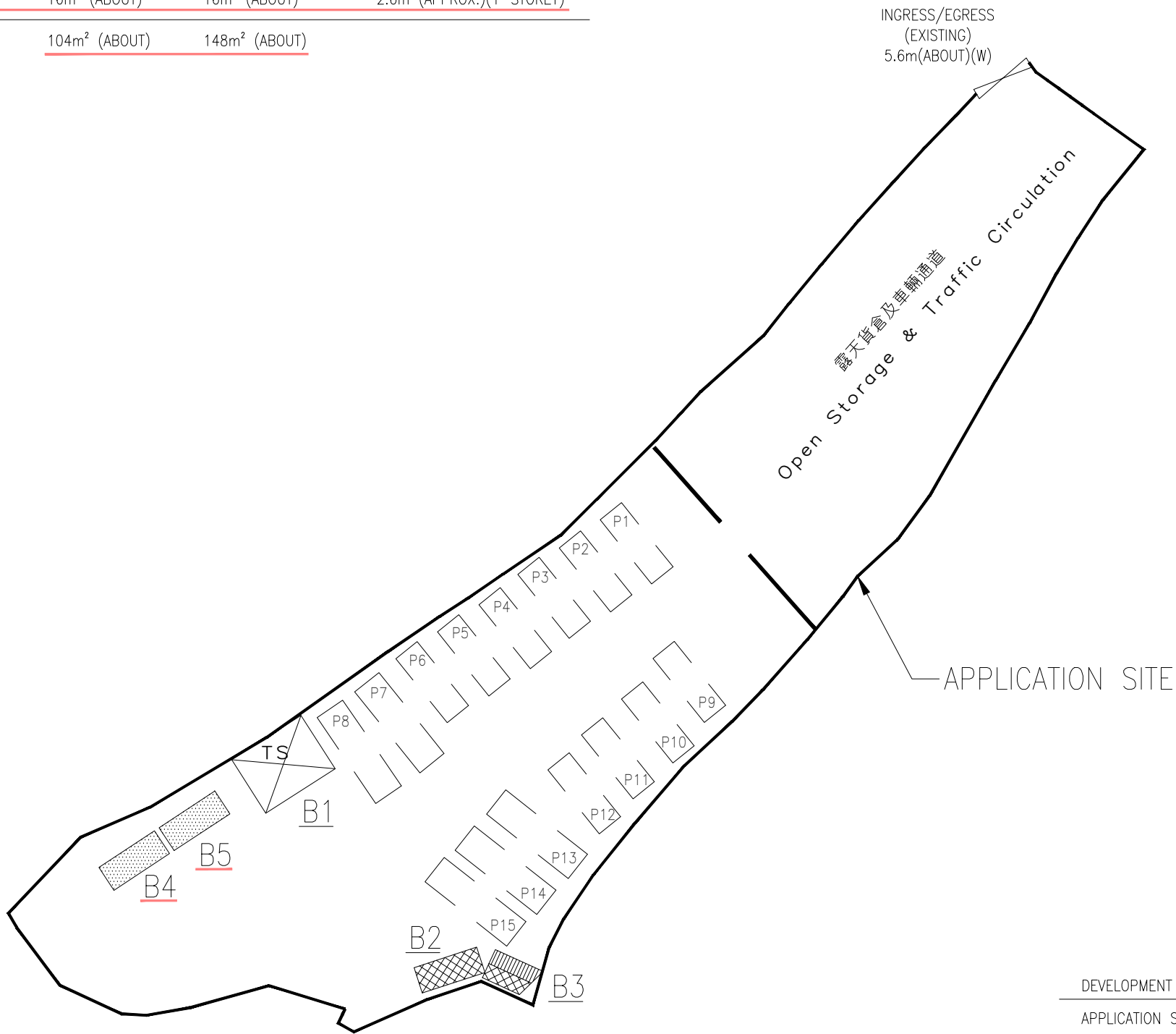
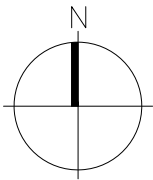
申請地點
Application Site

CONSULTANT :  測建行 PRUDENTIAL SURVEYORS (INTL) LTD TEL. 25078333 FAX. 25986576	PROJECT TITLE : PROPOSED OPEN STORAGE AND PARKING OF VEHICLE (TEMPORARY BASE) AT SUB-SECTION 1 OF SECTION B OF LOT NO.82 IN DD108, FAN KAM ROAD, PAT HEUNG, YUEN LONG	DRAWING TITLE : LOCATION PLAN	DATE	DRAWN	DESIGNED	CHECKED	SCALE
			21/JUN/22	IY	/	CC	1:1000@A3
			JOB NO. : B8354			DRAWING NO. :	
			FILING CODE: N:\Advisory Section\Job Files\PSIL\B8354...\Project Team\CAD			A01	

Appendix 2

Site Layout Plan

STRUCTURE	USE	COVERED AREA	GFA	BUILDING HEIGHT
B1	SITE OFFICE	44m ² (ABOUT)	88m ² (ABOUT)	5.61m (APPROX.)(2-STOREY)
B2	DRY TOILET	15m ² (ABOUT)	15m ² (ABOUT)	2.6m (APPROX.)(1-STOREY)
B3	DRY TOILET	13m ² (ABOUT)	13m ² (ABOUT)	2.5m (APPROX.)(1-STOREY)
B4	TEMPORARY STORE	16m ² (ABOUT)	16m ² (ABOUT)	2.6m (APPROX.)(1-STOREY)
B5	TEMPORARY STORE	16m ² (ABOUT)	16m ² (ABOUT)	2.6m (APPROX.)(1-STOREY)
TOTAL		104m ² (ABOUT)	148m ² (ABOUT)	



LEGEND	
	APPLICATION SITE
	STRUCTURE (ENCLOSED)
	STRUCTURE (CANOPY)
	POTABLE FLUSHING TOILETS / PORTABLE DRY TOILETS
	PROPOSED PARKING SPACE
	TEMPORARY STORE

	PARKING SPACE
DIMENSIONS	
P7,8,13,14,15	9.5M X 2.8M
P7,8,13,14,15	9.5M X 2.8M

DEVELOPMENT PARAMETERS	
APPLICATION SITE	: 2802m ² (ABOUT)
COVERED AREA	: 104m ² (ABOUT)
UNCOVERED AREA	: 2698m ² (ABOUT)
NO. OF STRUCTURE	: 5
DOMESTIC GFA	: N/A
NON-DOMESTIC GFA	: 148m ² (ABOUT)
BUILDING HEIGHT	: 5.61m (ABOUT)
NO. OF STOREY	: 1 TO 2
PLOT RATIO	: 0.053 (ABOUT)
SITE COVERAGE	: 3.712% (ABOUT)

CONSULTANT :
 測建行
PRUDENTIAL SURVEYORS (INTL) LTD
TEL. 25078333 FAX. 25986576

PROJECT TITLE :
PROPOSED OPEN STORAGE AND
PARKING OF VEHICLE (TEMPORARY
BASE) AT SUB-SECTION 1 OF SECTION
B OF LOT NO.82 IN DD108, FAN KAM
ROAD, PAT HEUNG, YUEN LONG

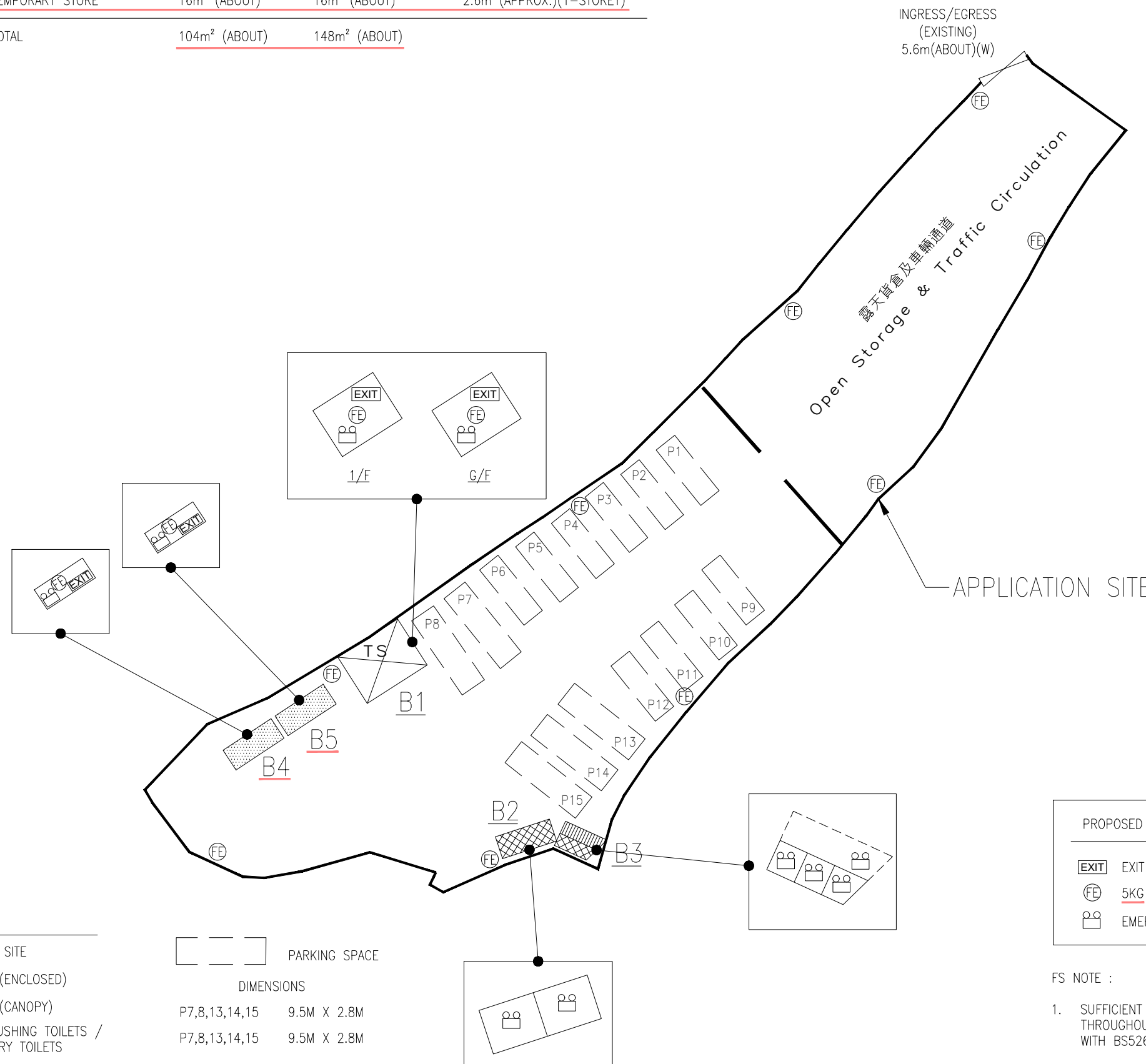
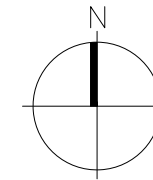
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LAYOUT PLAN

DATE	DRAWN	DESIGNED	CHECKED	SCALE
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JOB NO. : B8354			DRAWING NO. : A02	
FILING CODE: N:\Advisory Section\Job Files\ PSIL\B8354...\Project Team\ Topographic survey\2023-01-12 \CAD\2024 WORKING FILES\CAD\				
STATUS :				
REVISION 3				

Appendix 3

Fire Service Installation Plan

STRUCTURE	USE	COVERED AREA	GFA	BUILDING HEIGHT
B1	SITE OFFICE	44m ² (ABOUT)	88m ² (ABOUT)	5.61m (APPROX.)(2-STOREY)
B2	DRY TOILET	15m ² (ABOUT)	15m ² (ABOUT)	2.6m (APPROX.)(1-STOREY)
B3	DRY TOILET	13m ² (ABOUT)	13m ² (ABOUT)	2.5m (APPROX.)(1-STOREY)
B4	TEMPORARY STORE	16m ² (ABOUT)	16m ² (ABOUT)	2.6m (APPROX.)(1-STOREY)
B5	TEMPORARY STORE	16m ² (ABOUT)	16m ² (ABOUT)	2.6m (APPROX.)(1-STOREY)
TOTAL		104m ² (ABOUT)	148m ² (ABOUT)	



LEGEND	
	APPLICATION SITE
	STRUCTURE (ENCLOSED)
	STRUCTURE (CANOPY)
	POTABLE FLUSHING TOILETS / PORTABLE DRY TOILETS
	PROPOSED PARKING SPACE
	TEMPORARY STORE

	PARKING SPACE	DIMENSIONS
	P7,8,13,14,15	9.5M X 2.8M
	P7,8,13,14,15	9.5M X 2.8M

PROPOSED FIRE SERVICE INSTALLATIONS	
	EXIT SIGN
	5KG GAS TYPE FIRE EXTINGUISHER
	EMERGENCY LIGHTING

- FS NOTE :
- SUFFICIENT EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDING IN ACCORDANCE WITH BS5266: PART 1 AND BS EN 1838.
 - SUFFICIENT DIRECTIONAL AND EXIT SIGN SHALL BE PROVIDED IN ACCORDANCE WITH BS5266: PART 1 AND FSD CIRCULAR LETTER 5/2008.

CONSULTANT :



測
建
行

PRUDENTIAL SURVEYORS (INTL) LTD

TEL. 25078333

FAX. 25986576

PROJECT TITLE :

PROPOSED OPEN STORAGE AND
PARKING OF VEHICLE (TEMPORARY
BASE) AT SUB-SECTION 1 OF SECTION
B OF LOT NO.82 IN DD108, FAN KAM
ROAD, PAT HEUNG, YUEN LONG

DRAWING TITLE :

FIRE SERVICE INSTALLATIONS
LAYOUT

DATE	DRAWN	DESIGNED	CHECKED	SCALE
DEC/24	LW	/	DW	1:500@A3

JOB NO. :
B8354

FILING CODE:
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PSIL\B8354...\Project Team\
Topographic survey\2023-01-12
\CAD\2024 WORKING FILES\CAD\

DRAWING NO. :
A03

STATUS :

REVISION 3

Appendix 4

List of Operational Tools and Materials

類別 Category	貨品描述 Item Description
CCTV 裝備	CCTV車仔電池(o)
CCTV 裝備	CCTV鏡頭套(o)
CCTV 裝備	CCTV鏡頭 (大)(o)
CCTV 裝備	CCTV鏡頭 (細)(o)
CCTV 裝備	CCTV車仔(o)
CCTV 裝備	CCTV手推機電腦(o)
CCTV 裝備	CCTV車仔電腦(o)
CCTV 裝備	CCTV40米推藤 (SPP-40)(o)
CCTV 裝備	CCTV60米推藤 (SPP-60)(o)
CCTV 裝備	CCTV80米推藤 (SPP-80)(o)
工具-服務	泊洛(1.5噸)
工具-服務	擋水板
工具-服務	快駁 (2.5吋公)
工具-服務	快駁 (2吋呔)
工具-服務	快駁 (2吋公)
工具-服務	快駁 (3吋呔)
工具-服務	快駁 (3吋公)
工具-服務	快駁蓋 (放水喉蓋)(4吋)
工具-服務	4吋公外瓦
工具-服務	3吋呔外瓦
工具-服務	2.5吋刁2"
工具-服務	3吋刁2.5"
工具-服務	4吋呔外瓦
工具-服務	4吋快駁呔
工具-服務	4吋快駁公
工具-服務	3吋公外瓦
工具-服務	3吋呔內瓦
工具-服務	2.5吋公外瓦
工具-服務	2吋公外瓦
工具-服務	2.5吋呔外瓦
工具-服務	三星架 (開井蓋用)
工具-服務	鐵撬
工具-服務	玻璃膠
工具-服務	手提式通渠機機轆
工具-服務	手提式通渠機渠滕
工具-服務	鈎 (通渠用)(短)
工具-服務	鈎 (通渠用)(長)
工具-服務	井匙 (大)
工具-服務	井匙 (中)
工具-服務	井匙 (細)
工具-服務	手搖泊洛
工具-服務	照明燈
工具-服務	18" 元形雙止口輕身沙井(淨蓋面)
工具-服務	高壓水槍(o)
工具-服務	鋁梯 (5級)(o)
工具-服務	鋁梯 (7級)(o)
工具-服務	爬齒(o)
工具-服務	刷(吸油箱仔用)
工具-服務	鐵殼
工具-服務	樹葉杷
工具-服務	膠圈 (4吋)
工具-服務	膠圈 (2吋)
工具-服務	4吋波子閘掣
工具-服務	4齒鋤耙
工具-服務	3吋防漏膠圈

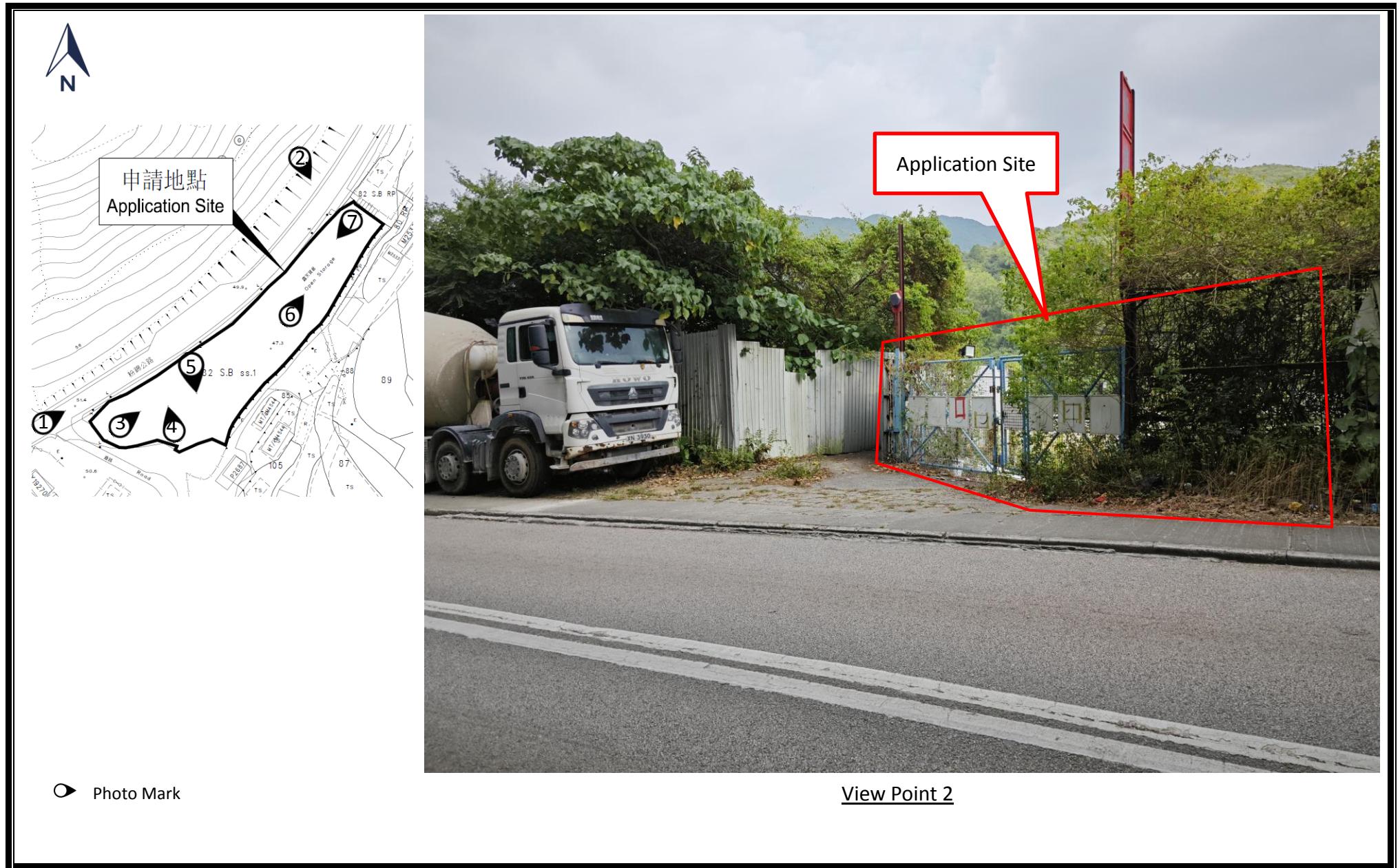
類別 Category	貨品描述 Item Description
工具-服務	淡水泵(細)
工具-服務	剷 (吸井用)(短)
工具-服務	小心地滑牌
制服	高級 / 服務員 - 黑色 長斜布褲 (30碼)
制服	高級 / 服務員 - 黑色 長斜布褲 (32碼)
制服	高級/服務員-黑色長斜布褲(34碼)
制服	高級/服務員-黑色長斜布褲(36碼)
制服	高級/服務員-黑色長斜布褲(42碼)
制服	STI-紅色polo衫(加加加加大碼)
制服	送貨員T-Shirt (大) 短袖
制服	送貨員T-Shirt (大)長袖
制服	送貨員T-Shirt(中) 短袖
制服	送貨員T-Shirt(中) 長袖
制服	送貨員T-Shirt (加大) 短袖
制服	送貨員T-Shirt (加大) 長袖
制服	送貨員T-Shirt (加加大) 短袖
制服	送貨員T-Shirt (加加大) 長袖
消耗品-服務	喉箍 (2吋)
消耗品-服務	喉箍 (2.5吋)
消耗品-服務	喉箍 (3吋)
消耗品-服務	保護衣(藍色)
消耗品-服務	DT215保護衣
消耗品-服務	Fogger - Filter
消耗品-服務	Fogger - Mask
消耗品-服務	黑色膠圈 (2.5吋)
消耗品-服務	油渣手套(藍)
消耗品-服務	馬路膠紙
消耗品-服務	引水帶
消耗品-服務	百潔布-中國(紅)
消耗品-服務	海棉
消耗品-服務	VACUUM HOSE-2
消耗品-服務	VACUUM HOSE-2.5
消耗品-服務	VACUUM HOSE-2-01
消耗品-服務	VACUUM HOSE-3
消耗品-服務	漁夫褲(半身)
消耗品-服務	漁夫褲(全身)
消耗品-輔助	手套 (黑色膠手套)
密閉空間/個人防護裝備	寶露華連風喉 (12吋)
密閉空間/個人防護裝備	寶露華連風喉 (8吋)
密閉空間/個人防護裝備	GAS DETECTOR
密閉空間/個人防護裝備	安全帽(到期日: 2024)
密閉空間/個人防護裝備	安全帽(到期日: 2024/11)
密閉空間/個人防護裝備	醫療急救箱(密閉空間專用)
密閉空間/個人防護裝備	充氣救生衣(一次性)
密閉空間/個人防護裝備	個人警報器(救命鐘)
密閉空間/個人防護裝備	復甦器
密閉空間/個人防護裝備	安全帶
密閉空間/個人防護裝備	眼罩
密閉空間/個人防護裝備	擔架床
機件-服務	發電機(o)
機件-服務	電磨機(o)
機件-服務	電攪機(o)
機件-服務	中國焗霧機件(0)
機件-服務	手提式通渠機(o)
機件-服務	電吊機(o)

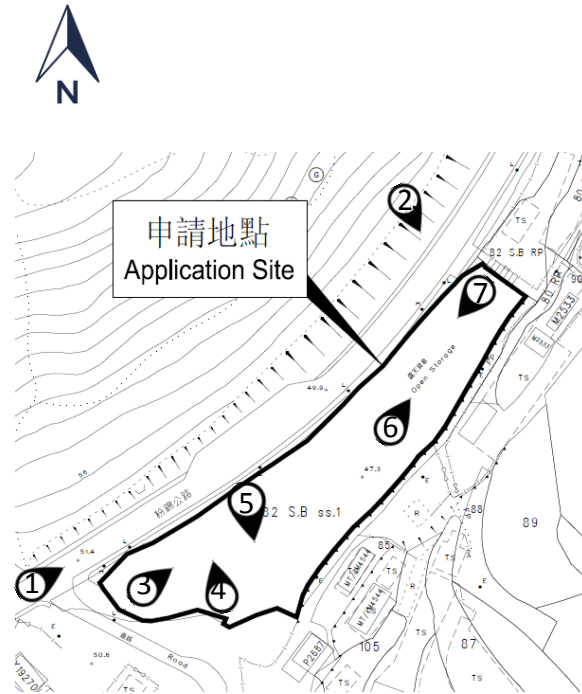
類別 Category	貨品描述 Item Description
機件-服務	水泵 (清洗水缸用)(o)
機件-服務	吸水機 (小露寶)
機件-服務	吸水機 3600w,90L(小露寶)
機件-服務	(小露寶)-長駁頭(光嘴)40mm
機件-服務	(小露寶)-短接頭(凹凸嘴)40mm

Appendix 5

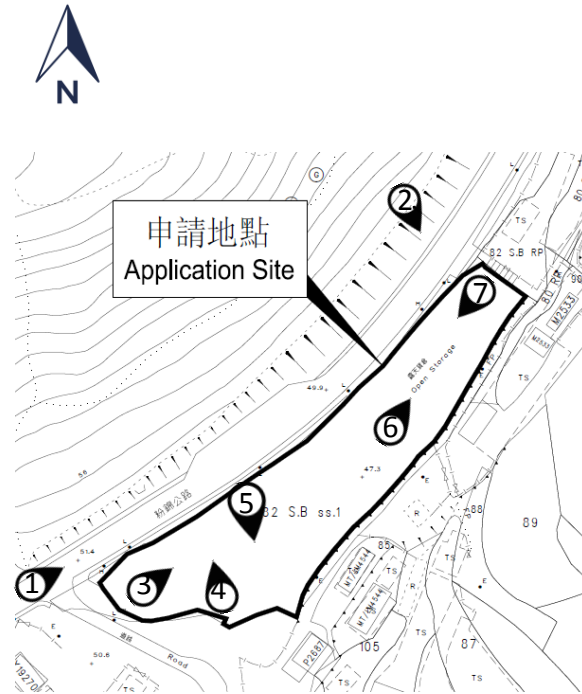
Photo of the Site





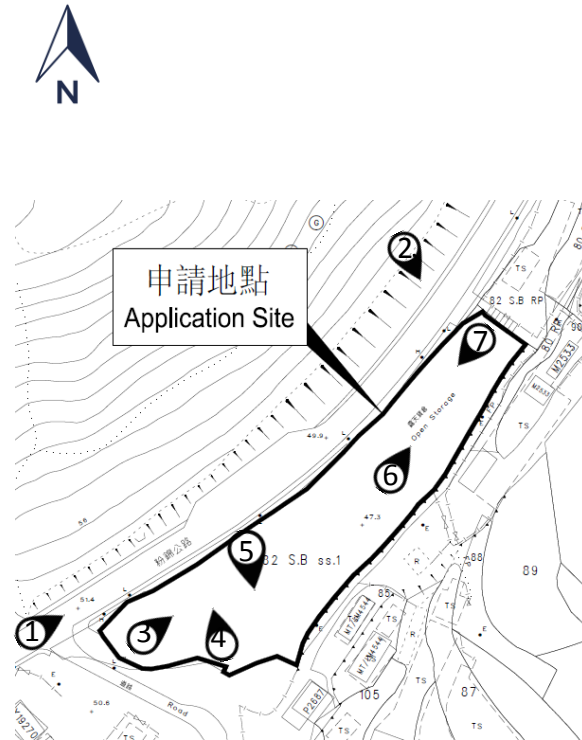


View Point 3



View Point 4





View Point 6



Appendix 6

Drainage Proposal

DRAINAGE PROPOSAL

**TEMPORARY VEHICLE PARK (MEDIUM AND HEAVY GOODS VEHICLE) AND OPEN
STORAGE (OPERATIONAL TOOLS AND MATERIALS) USE FOR 3 YEARS AND FILLING
OF LAND AT**

**SUB-SECTION 1 OF SECTION B OF LOT NO. 82 (PART) IN DD108, FAN KAM ROAD, PAT
HEUNG, NEW TERRITORIES**

PREPARED BY:	PRUDENTIAL SURVEYORS INTERNATIONAL LIMITED
DATE:	DEC 2024
REVISION:	3

1.0 Introduction

To facilitate the temporary parking and open storage of the captioned site, a storm drain system is proposed. Due to the topographical condition and the site area being large, the sewage system cannot completely drain off the storm water by mean of gravity. Catchment area should be divided and sump pump system is adopted in the system to serve several some of the catchment areas.

Revised drainage design is prepared to address the previous comments issued by Drainage Services Department (DSD) issued via the letter from Planning Department dated 8 October 2024 (Planning Department's Ref: DPO080824OB-B8354) (see **Annex 1**).

2.0 Design

2.1 The revised storm drain design is shown on Dwg No. A01 to A03 whilst the E&M design is shown on Dwg No. E01 to E03 (see **Annex 2**).

2.2 Our responses to address DSD's comments are tabulated below:

	<u>DSD's comment</u>	<u>PSIL's response</u>
(a)	The applicant will be responsible for the construction, operation and maintenance of the proposed drainage system from the terminal manhole TMH-01 to proposed discharge point is noted.	Yes, the applicant will be responsible for the construction operation and maintenance of the proposed drainage system from the terminal manhole TMH-01 to the proposed discharge point.
(b)	Please provide calculation details for the run off showed in design report.	The detail design is shown on the design drawings in Annex 2 whilst the calculation details for the run off is provided in Table 1 - Runoff Calculation of the design report in Annex 4 .
(c)	U-channel are not provided at the north-west side of Bays 1	The drainage layout design has been amended to provide U-

	and 2. Please advise how the overland flow from the above area of the site could be properly intercepted and discharged. In general, peripheral surface channels shall be provided along the site boundary to collect surface runoff accrued on the application site and to intercept the overland flow from the adjacent lands.	channels at the north-west side of Bays 1 and 2 (Refer to drawing no. A01 in Annex 2) and the associated calculations can be found in Table 4a - Hydraulic Calculations (Bay 1-5 in Annex 4) .
(d)	The proposal should indicate how the runoff (the flow direction) within the site would be discharged to the proposed u-channel.	The flow directions within the site are shown on drawing no. A01 in Annex 2 .
(e)	Please show the flow rate and velocity in channels in table 2a.	The flow rate and velocity in channels are shown in Table 4a - Hydraulic Calculations (Bay 1-5) in Annex 4 .
(f)	Please provide hydraulic calculations for the proposed discharge drainage facility from TMN-01 to the discharge point demonstrating its capacity to cater for the surface runoff. In particular, please show the related flow rates and velocity for the hydraulic calculations.	The related flow rates and velocity for the hydraulic calculations for the proposed discharge drainage facility from TMH-01 to the discharge point are shown in Table 4b - Hydraulic Calculations (Outside Site Boundary) in Annex 4 .
(g)	Please demonstrate that 300mm freeboard for a storm with 10-year return period has been take into account for design of the proposed sump pit.	The freeboards of the proposed sump pits are shown in Table 2 - Sump Pit Design Calculation in Annex 4 . All proposed sump pits have more than 300mm of freeboard for a storm with 50-year return period.
(h)	Please advise the on/off frequency of each pumps.	Please refer to attached Annex 5 - Design calculation for storm

		water pump discharge. Please refer drawing no.E-02 - Section B-B. details as follows:- - 1st duty water pump to the specified water level will be operated. - 2nd duty water pump to be operated when the water level high than or exceeding the specified water level of the 1st pump.
(i)	Please advise whether emergency power generator will be provided for the proposed drainage system and indicate the location for installation of the generator.	Yes. The emergency power generator will be provided for drainage pump system. The location of the proposed Generator as shown in drawing no. E01 in Annex 2.
(j)	Please advise the size of the fuel oil storage tank for supplying fuel oil to the emergency power generator and indicate the fuel oil storage tank in the drawing.	460 lit. capacity of the fuel oil tank will be provided and the tank is cast / built-in the emergency power generator container. Please refer to attached information from the Generator's supplier shown in Appendix D of Maintenance and Contingency Plan (Annex 6).
(k)	Please seek FSD's comment on the fuel oil storage tank at location within the proposed development.	Noted and to be submitted for FSD's review. Exemption can be applied for under Cap. 295E Dangerous Goods (Application and Exemption) Regulation 2012 capacity not exceeding 500 L i.e. a receptacle permanently

		installed in any machinery / forming part of any machinery and its capacity not exceeding 500 Lit.
(l)	Two stage pumping will be operated at each sump pit. Please include the performance curve for tow stage pumping in the submission.	Two stage pumping operation procedure as stated in drawing no. E-02 - Section B-B. details as follows:- - 1st duty water pump to the specified water level will be operated. - 2nd duty water pump to be operated when the water level high than or exceeding the specified water level of the 1st pump. The performance of selected water pump (each pump) remains unchanged. Please refer attached pump curve extracted from the manufacturer.
(m)	Standard details should be provided to indicate the sectional details of the proposed u-channel and the catchpit.	Standard details indicating the sectional details of the proposed u-channel can be found in drawing no. A02 (Annex 2) and in CEDD standard drawings no. C 2409J, C 2410I and C 2412E (Annex 3). Standard details indicating the sectional details of the proposed catchpits can be found in CEDD standard drawings no. C 2405/1 to C 2405/5 (see Annex 3).
(n)	Please show the connection details including the C.L. I.L. and	The connection details at proposed discharge point can be

	B.L. at proposed discharge point.	found in Table 3 - Manholes, Catchpits and Sand Traps Levels in Annex 2 and drawings no. A01 and A02 in Annex 2.
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- 2.2 The engineer's report for the storm drain design is shown in **Annex 4** whilst the pump set calculation design is shown in **Annex 5.**
- 2.3 The maintenance and contingency plan for the pumping system can be referred to **Annex 6.**
- 2.4 Photo record for the surrounding and the site can be referred to **Annex 7.**

ANNEX 1

**PLANNING DEPARTMENT'S LETTER DATED 8
OCTOBER 2024 (PLANNING DEPARTMENT'S REF:
DPO080824OB-B8354) SHOWING PREVIOUS
COMMENTS FROM DRAINAGE SERVICES
DEPARTMENT (DSD)**

規 劃 署

粉嶺、上水及元朗東規劃處
新界荃灣青山公路 388 號
中染大廈 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.

By Post and Fax (2531 8888)

來函檔號	Your Reference :	DPO080824OB-B8354
本署檔號	Our Reference :	TPB/A/YL-PH/933
電話號碼	Tel. No. :	3168 4044
傳真機號碼	Fax No. :	3168 4074 / 3168 4075

8 October 2024

Prudential Surveyors International Limited
3/F and 2/F, Tung Hip Commercial Building
244 Des Voeux Road Central
Hong Kong
(Attn.: Michael C K LEE)

Dear Sir/Madam,

**Proposed Temporary Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage
(Operation Tools and Materials) for a Period of 3 Years and Filling of Land
in “Residential (Group D)”, Lot 82 S.B ss.1 (Part) in D.D.108,
Fan Kam Road, Pat Heung, Yuen Long
(Planning Application No. A/YL-PH/933)**

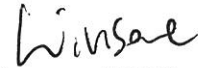
**Compliance with Approval Condition (e)
Submission of a Revised Drainage Proposal**

I refer to your submission via letter dated 8.8.2024 for compliance with the captioned approval condition. 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 comment(s) in **Appendix.**

Should you have any enquiries, please contact Ms Winsome LEE of this office at 3168 4044, or Mr Kenneth CHAN of the Drainage Services Department at 2300 1259.

Yours faithfully,



(Winsome LEE)
for District Planning Officer/
Fanling, Sheung Shui and Yuen Long East
Planning Department

c.c.

CE/MN, DSD
CTP/TPB(3)

(Attn.: Mr Kenneth CHAN)

(Fax: 2770 4761)

Detailed Comments of the Chief Engineer/Mainland North of Drainage Services Department

- (a) The applicant will be responsible for the construction, operation and maintenance of the proposed drainage system from the terminal manhole TMH-01 to proposed discharge point is noted.
- (b) Please provide calculation details for the run off showed in design report.
- (c) U-channels are not provided at the north-west side of Bays 1 and 2. Please advise how the overland flow from the above area of the site could be properly intercepted and discharged. In general, peripheral surface channels shall be provided along the site boundary to collect the surface runoff accrued on the application site and to intercept the overland flow from the adjacent lands.
- (d) The proposal should indicate how the runoff (the flow direction) within the site would be discharged to the proposed u-channel.
- (e) Please show the flow rate and velocity in channels in table 2a.
- (f) Please provide hydraulic calculations for the proposed discharging drainage facility from TMN-01 to the discharge point demonstrating its capacity to cater for the surface runoff. In particular, please show the related flow rates and velocities for the hydraulic calculations
- (g) Please demonstrate that 300mm freeboard for a storm with 10-year return period has been take into account for design of the proposed sump pit.
- (h) Please advise the on/off frequency of each pumps.
- (i) Please advise whether emergency power generator will be provided for the proposed drainage system and indicate the location for installation of the generator.
- (j) Please advise the size of the fuel oil storage tank for supplying fuel oil to the emergency power generator and indicate the fuel oil storage tank in drawing.
- (k) Please seek FSD's comment on the fuel oil storage tank at location within the proposed development.
- (l) Two stage pumping will be operated at each sump pit. Please include the performance curve for two stage pumping in the submission.
- (m) Standard details should be provided to indicate the sectional details of the proposed u-channel and the catchpit.
- (n) Please show the connection details including the C.L. I.L. and B.L. at proposed discharge point.

ANNEX 2

DESIGN DRAWINGS

DRAWING NO.	DRAWING TITLE	REVISION NO.
A01	SITE DRAINAGE LAYOUT	3
A02	SCHEMATIC DIAGRAM OF DRAINAGE SYSTEM	3
A03	TYPICAL DETAILS OF SAND TRAP & TERMINAL MANHOLE, TYPICAL DETAILS OF U-CHANNEL	3
A04	TOPOGRAPHY SECTION VIEW	3
E01	E&M INSTALLATIONS (1)	3
E02	E&M INSTALLATIONS (2) – SUMP PUMP SCHEMATIC	3
E03	E&M INSTALLATIONS (3) -	3

- GENERAL NOTES:
- SAND TRAP DETAIL – PLEASE REFER TO DSD'S STANDARD DRAWING NO. DS1025B.
TYPICAL DETAIL OF CATCHPIT – PLEASE REFER TO CEDD'S STANDARD DRAWING NO. C2405/1, C2405/2, C2405/3, C2405/4, C2405/5, C2406/1 AND C2406/2A, EXCEPT OTHERWISE SPECIFIED IN DWG NO.A03.
 - TYPICAL U-CHANNEL DETAIL – PLEASE REFER TO CEDD'S STANDARD DRAWING NO. C2409I, C2410I, C2411G, C2412E & C2413D EXCEPT OTHERWISE SPECIFIED IN DWG NO.A03.
 - TYPICAL METAL GRATING FOR U-CHANNEL – PLEASE REFER TO HYD'S STANDARD DRAWING NO. H3156B.
 - MAINTENANCE AND CONTINGENCY PLAN FOR PROPOSED PUMP SYSTEM

FOR MAINTENANCE PLANNING

(i) THE MAINTENANCE OF THE PROPOSED PUMP SYSTEM WILL ADHERE TO THE GUIDELINES OUTLINED IN THE STORMWATER DRAINAGE MANUAL 2018 BY DSD.

(ii) THE SCHEDULE OF INSPECTION FOR THE PUMP, AS PER TABLE 26 OF THE MANUAL, IS AS FOLLOWS:
SCHEDULE OF INSPECTION FOR PUMP (FROM TABLE 26 OF STORMWATER DRAINAGE MANUAL)

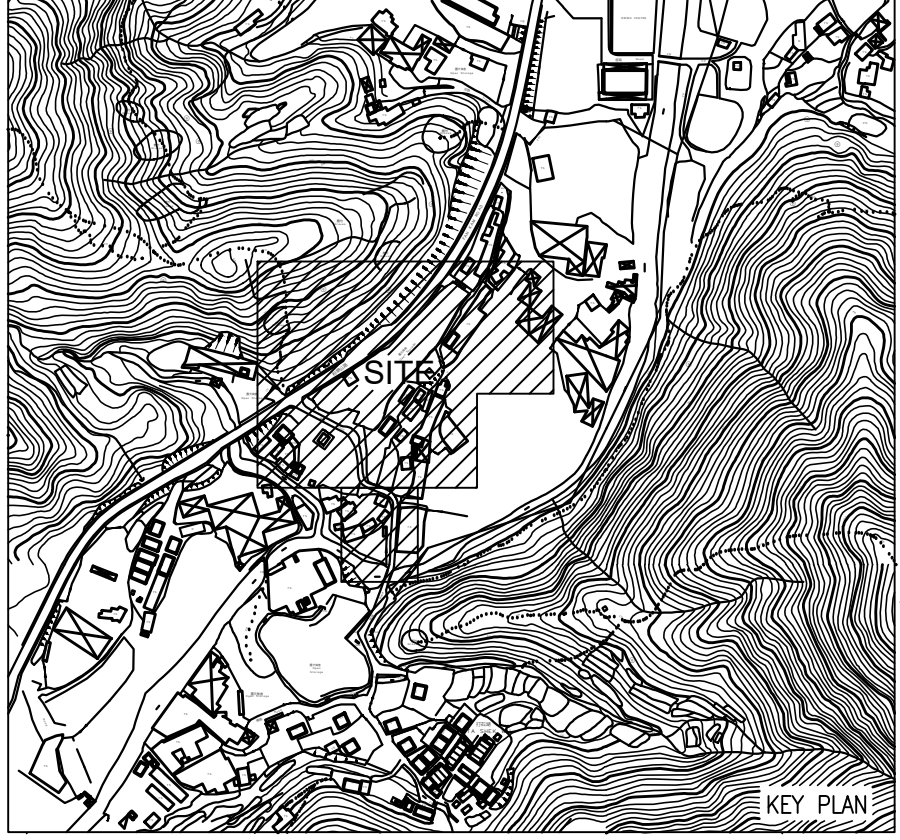
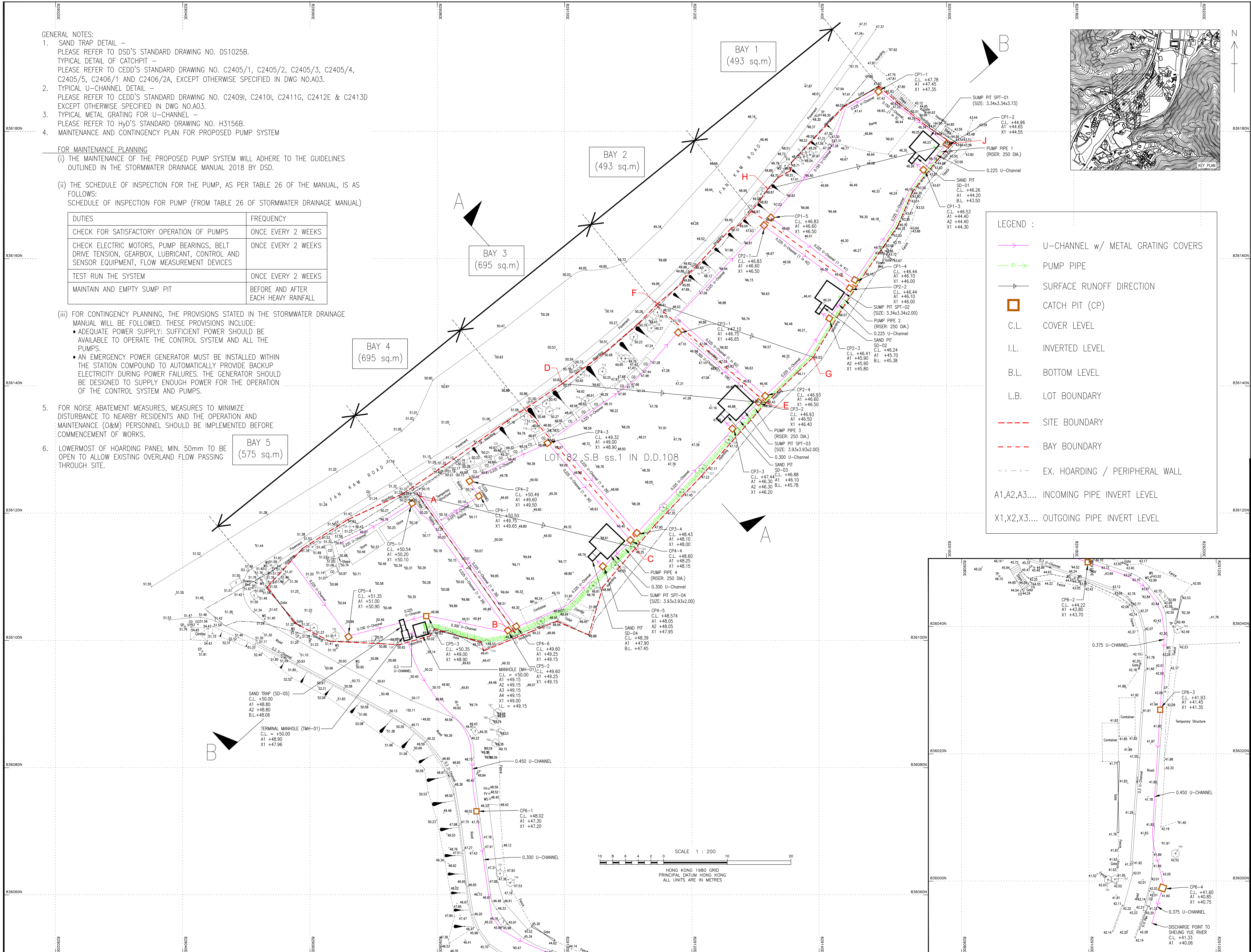
DUTIES	FREQUENCY
CHECK FOR SATISFACTORY OPERATION OF PUMPS	ONCE EVERY 2 WEEKS
CHECK ELECTRIC MOTORS, PUMP BEARINGS, BELT DRIVE TENSION, GEARBOX, LUBRICANT, CONTROL AND SENSOR EQUIPMENT, FLOW MEASUREMENT DEVICES	ONCE EVERY 2 WEEKS
TEST RUN THE SYSTEM	ONCE EVERY 2 WEEKS
MAINTAIN AND EMPTY SUMP PIT	BEFORE AND AFTER EACH HEAVY RAINFALL

(iii) FOR CONTINGENCY PLANNING, THE PROVISIONS STATED IN THE STORMWATER DRAINAGE MANUAL WILL BE FOLLOWED. THESE PROVISIONS INCLUDE:

- ADEQUATE POWER SUPPLY: SUFFICIENT POWER SHOULD BE AVAILABLE TO OPERATE THE CONTROL SYSTEM AND ALL THE PUMPS.
- AN EMERGENCY POWER GENERATOR MUST BE INSTALLED WITHIN THE STATION COMPOUND TO AUTOMATICALLY PROVIDE BACKUP ELECTRICITY DURING POWER FAILURES. THE GENERATOR SHOULD BE DESIGNED TO SUPPLY ENOUGH POWER FOR THE OPERATION OF THE CONTROL SYSTEM AND PUMPS.

5. FOR NOISE ABATEMENT MEASURES, MEASURES TO MINIMIZE DISTURBANCE TO NEARBY RESIDENTS AND THE OPERATION AND MAINTENANCE (O&M) PERSONNEL SHOULD BE IMPLEMENTED BEFORE COMMENCEMENT OF WORKS.

6. LOWERMOST OF HOARDING PANEL MIN. 50mm TO BE OPEN TO ALLOW EXISTING OVERLAND FLOW PASSING THROUGH SITE.



LEGEND :

- U-CHANNEL w/ METAL GRATING COVERS
- PUMP PIPE
- SURFACE RUNOFF DIRECTION
- CATCH PIT (CP)
- C.L. COVER LEVEL
- I.L. INVERTED LEVEL
- B.L. BOTTOM LEVEL
- L.B. LOT BOUNDARY
- SITE BOUNDARY
- BAY BOUNDARY
- EX. HOARDING / PERIPHERAL WALL
- A1,A2,A3.... INCOMING PIPE INVERT LEVEL
- X1,X2,X3.... OUTGOING PIPE INVERT LEVEL

REV.	DESCRIPTION	DATE
3	REVISION	03/12/24
2	REVISION	30/07/24
1	REVISION	11/05/23

CONSULTANT :
測建行
PRUDENTIAL SURVEYORS (INTL) LTD
TEL. 25078333 FAX. 25986576

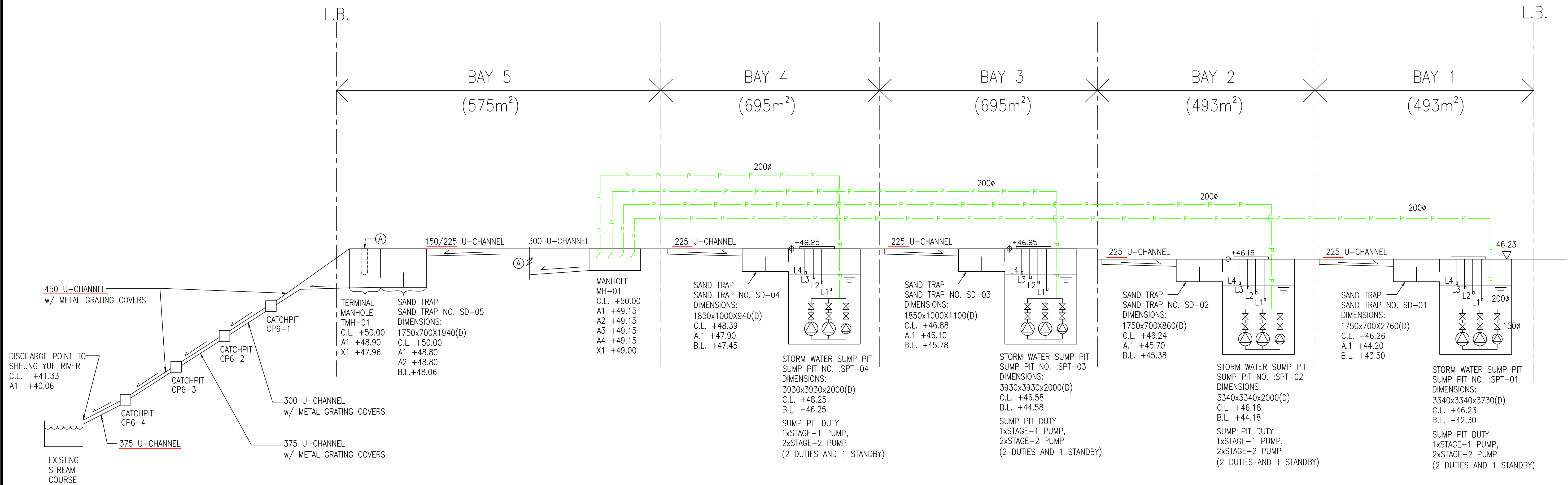
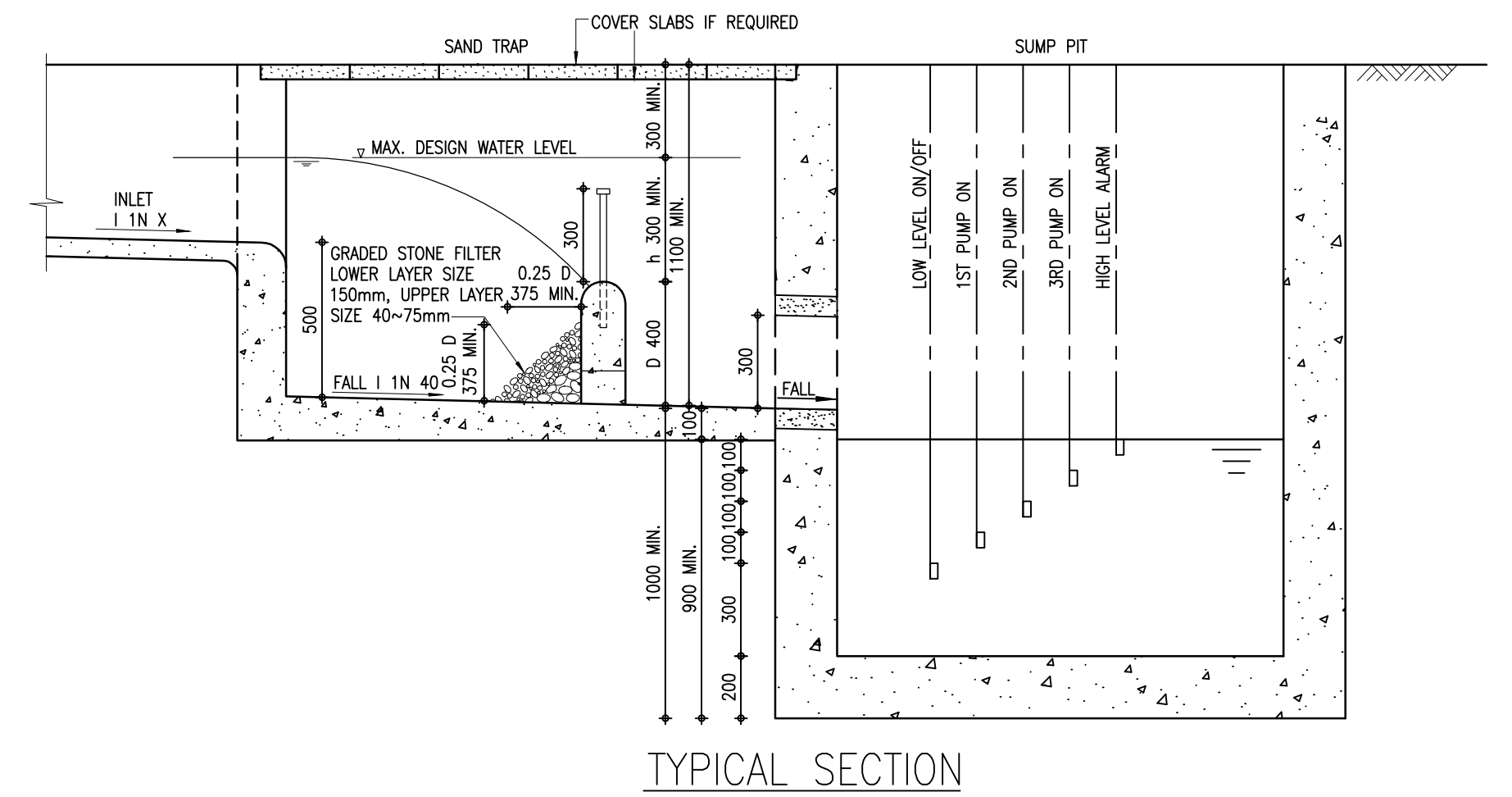
PROJECT TITLE :
PROPOSED STORM DRAIN
LAYOUT PLAN OF LOT NO. 82
S.B ss.1 IN D.D.108,
FAN KAM ROAD, PAT HEUNG,
YUEN LONG, NEW TERRITORIES

DRAWING TITLE :
SITE DRAINAGE LAYOUT

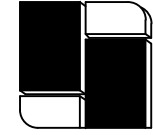
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DEC/24	LW	TL	--	1:200B40

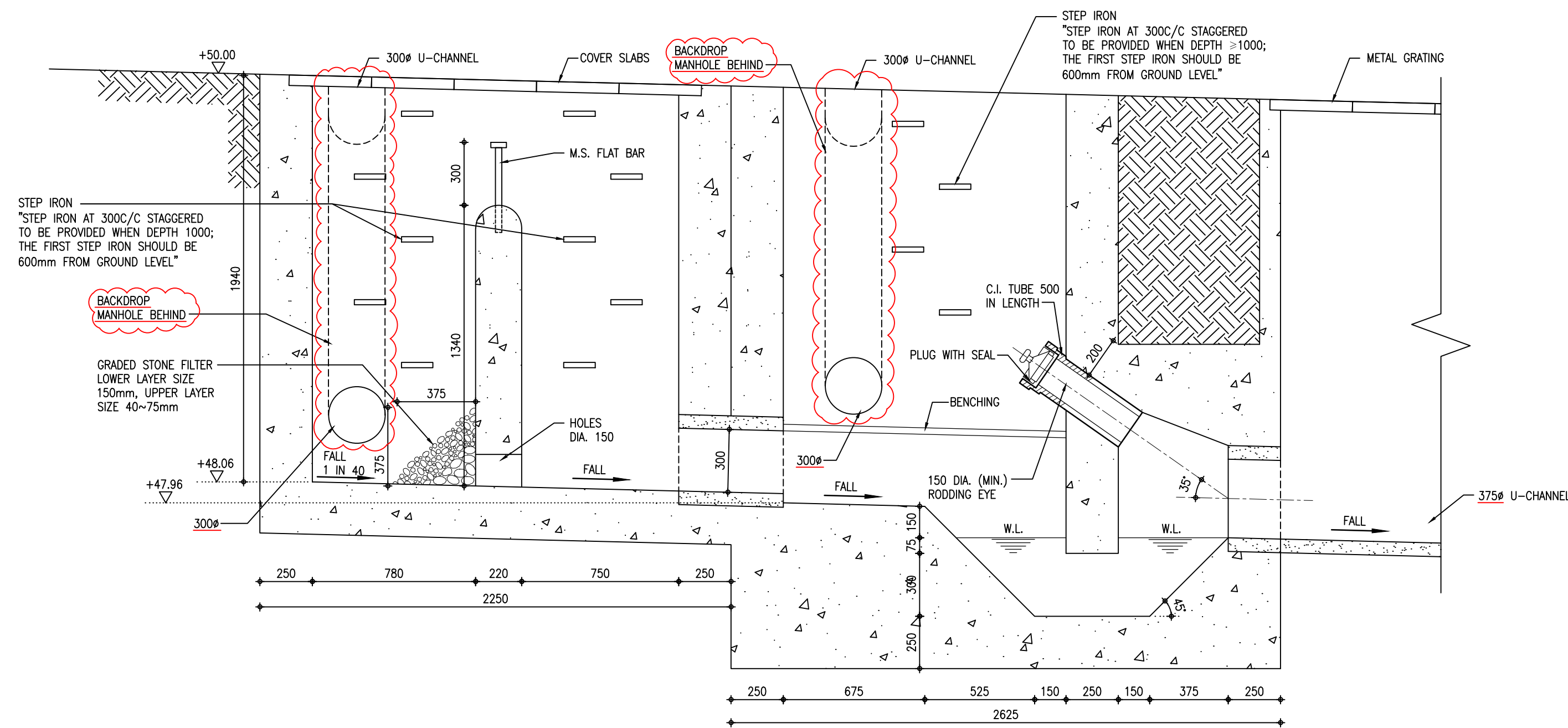
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DRAWING NO. : A01
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STATUS : REVISION 3

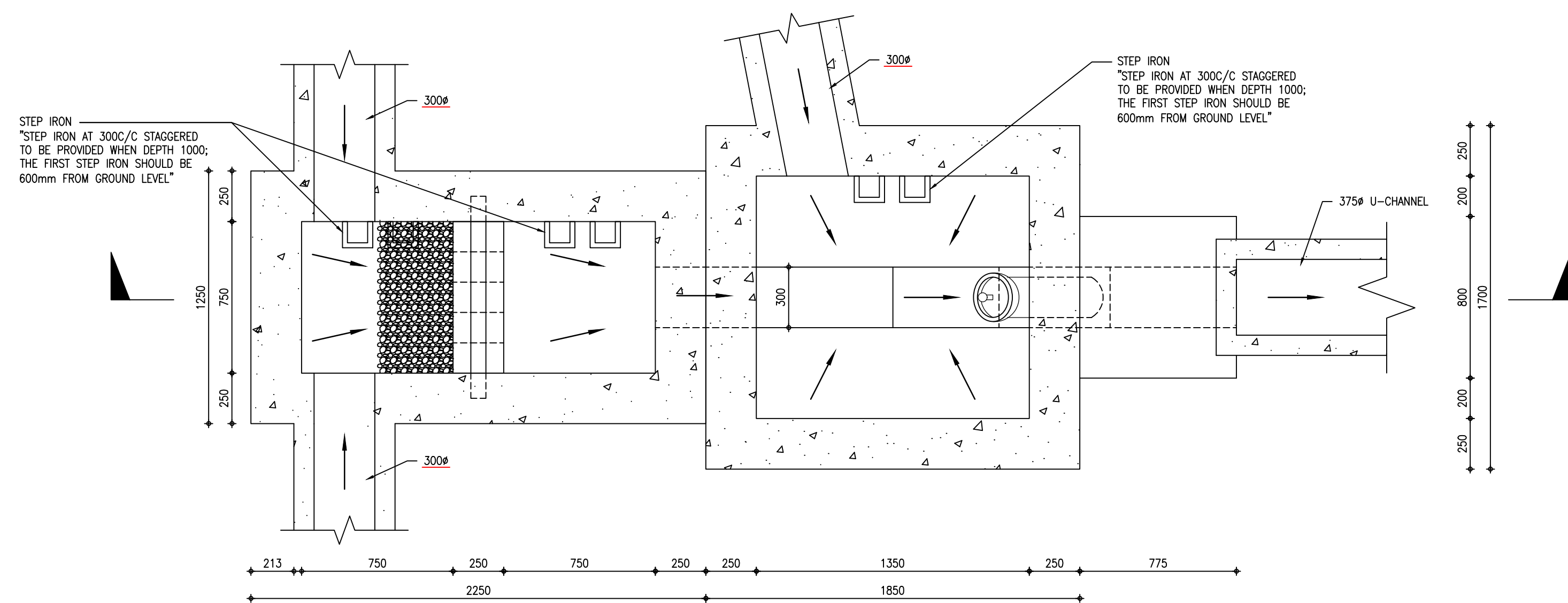


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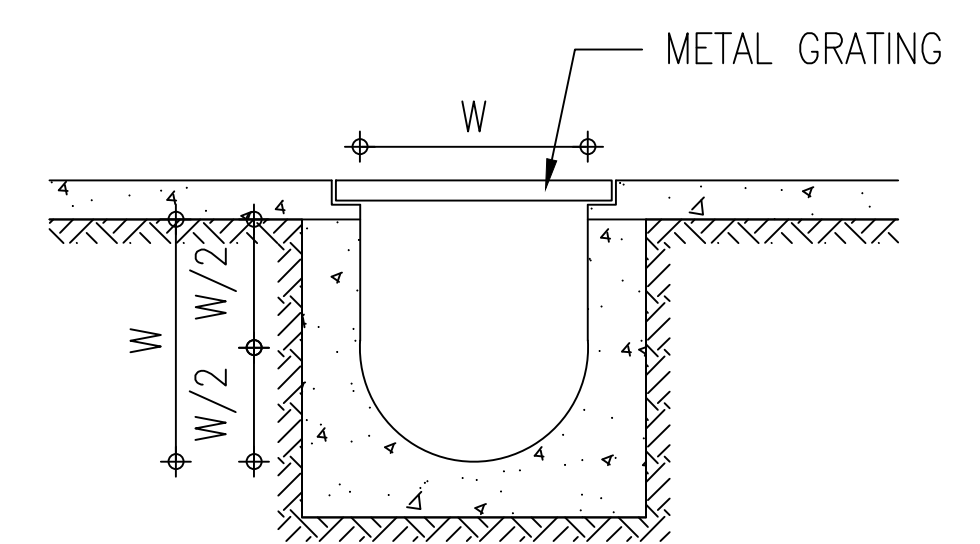
CONSULTANT :  PRUDENTIAL SURVEYORS (INTL) LTD TEL. 25078333 FAX. 25986576	PROJECT TITLE : PROPOSED STORM DRAIN LAYOUT PLAN OF LOT NO. 82 S.B ss.1 IN D.D.108, FAN KAM ROAD, PAT HEUNG, YUEN LONG, NEW TERRITORIES	DRAWING TITLE : SCHEMATIC DIAGRAM OF DRAINAGE SYSTEM	JOB NO. : B8354 FILING CODE : N:\Advisory Section\Job Files\ PSIL\B8354...\Project Team\ Topographic survey\2023-01-12 \CAD\2024 WORKING FILES\CAD\	DRAWING NO. : A02	DATE	DRAWN	DESIGNED	CHECKED	SCALE
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					STATUS : REVISION 3				



SECTION



PLAN



W = WIDTH OF U-CHANNEL

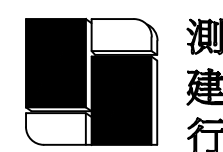
TYPICAL DETAILS OF U-CHANNEL

N.T.S

(PLEASE ALSO REFER TO CEDD'S STANDARD DRAWING NO. C2411G & C2413g FOR STEPPED U-CHANNEL FOR DETAIL)

DETAIL OF SAND TRAP & TERMINAL MANHOLE

CONSULTANT :



PRUDENTIAL SURVEYORS (INTL) LTD
TEL. 25078333 FAX. 25986576

PROJECT TITLE :

PROPOSED STORM DRAIN
LAYOUT PLAN OF LOT NO. 82
S.B ss.1 IN D.D.108,
FAN KAM ROAD, PAT HEUNG,
YUEN LONG, NEW TERRITORIES

DRAWING TITLE :

TYPICAL DETAILS OF SAND TRAP & TERMINAL
MANHOLE, TYPICAL DETAILS OF U-CHANNEL

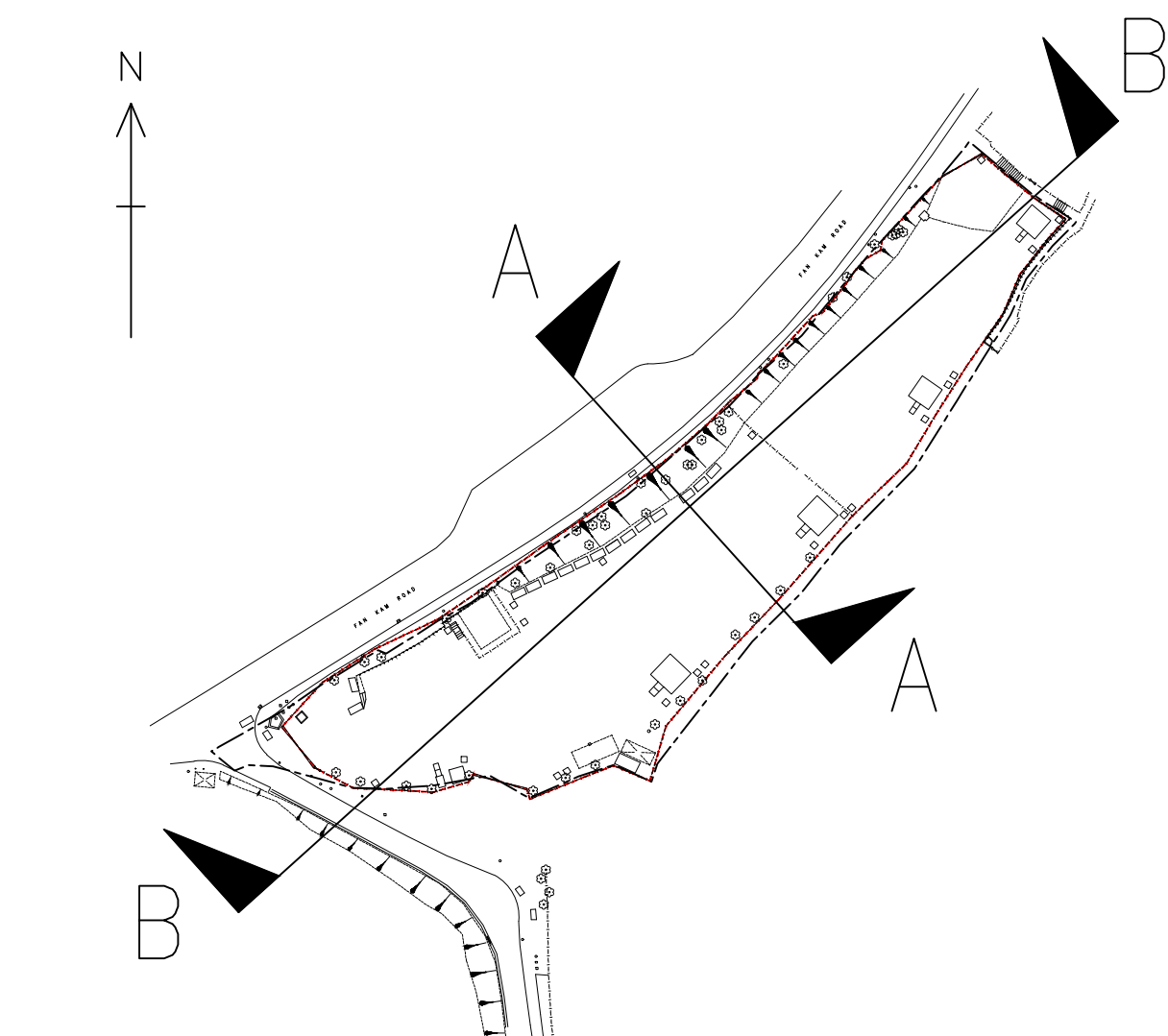
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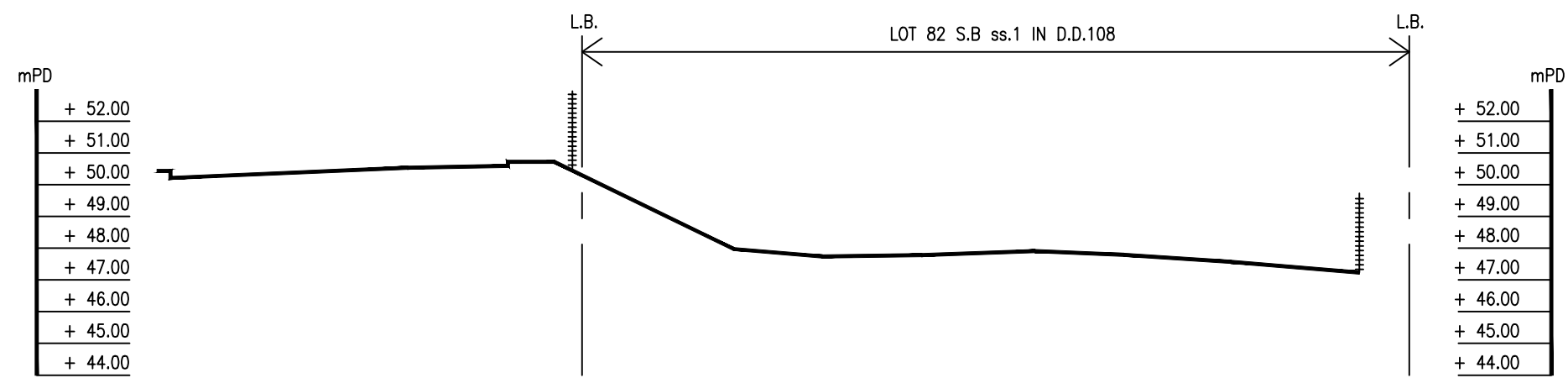
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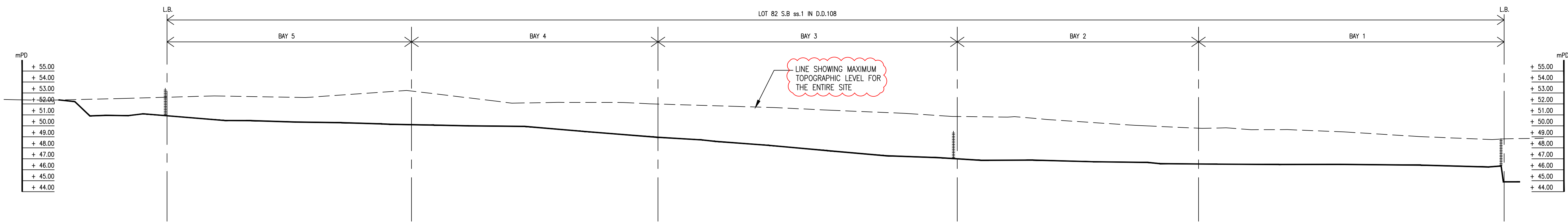
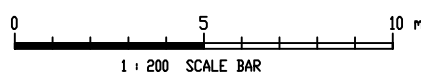
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DEC/24	LW	TL	--	N.T.S.
STATUS :		REVISION 3		



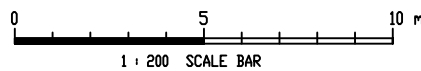
KEY PLAN
N.T.S



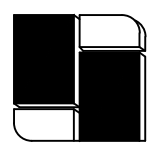
SECTION A-A



SECTION B-B



CONSULTANT :



測
建
行

PRUDENTIAL SURVEYORS (INTL) LTD
TEL. 25078333 FAX. 25986576

PROJECT TITLE :

PROPOSED STORM DRAIN
LAYOUT PLAN OF LOT NO. 82
S.B ss.1 IN D.D.108,
FAN KAM ROAD, PAT HEUNG,
YUEN LONG, NEW TERRITORIES

DRAWING TITLE :

TOPOGRAPHY SECTION VIEW

JOB NO. :

B8354

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\CAD\2024 WORKING FILES\CAD\

DRAWING NO. :

A04

DATE

JUNE/23

DRAWN

LW

DESIGNED

TL

CHECKED

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SCALE

1:200 @ A1

STATUS :

REVISION 3

- GENERAL NOTES:
- SAND TRAP DETAIL – PLEASE REFER TO DSD'S STANDARD DRAWING NO. DS1025B.
TYPICAL DETAIL OF CATCHPIT – PLEASE REFER TO CEDD'S STANDARD DRAWING NO. C2405/1, C2405/2, C2405/3, C2405/4, C2405/5, C2406/1 AND C2406/2A, EXCEPT OTHERWISE SPECIFIED IN DWG NO.A03.
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SCHEDULE OF INSPECTION FOR PUMP (FROM TABLE 26 OF STORMWATER DRAINAGE MANUAL)

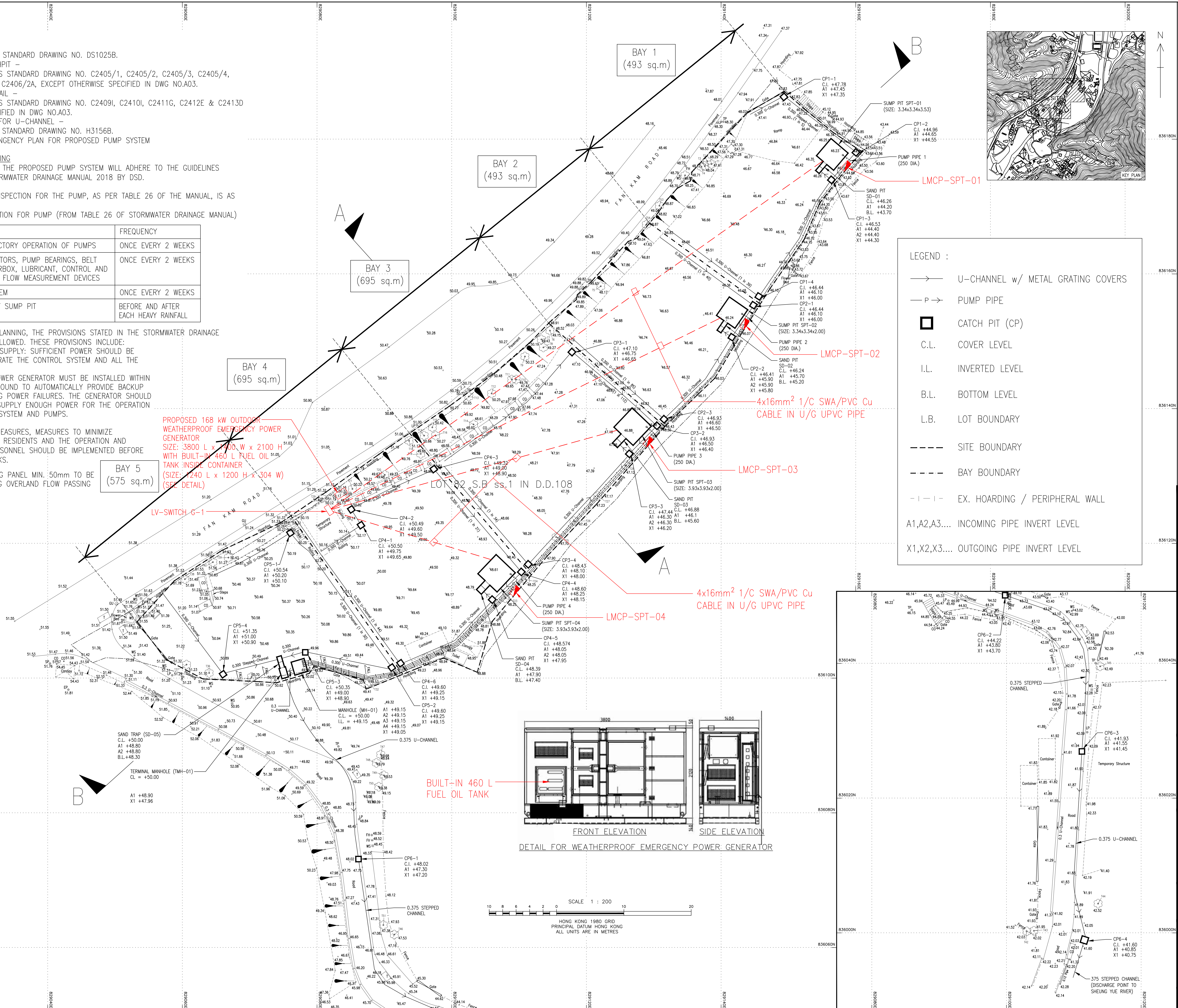
DUTIES	FREQUENCY
CHECK FOR SATISFACTORY OPERATION OF PUMPS	ONCE EVERY 2 WEEKS
CHECK ELECTRIC MOTORS, PUMP BEARINGS, BELT DRIVE TENSION, GEARBOX, LUBRICANT, CONTROL AND SENSOR EQUIPMENT, FLOW MEASUREMENT DEVICES	ONCE EVERY 2 WEEKS
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- U-CHANNEL w/ METAL GRATING COVERS
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- C.L. COVER LEVEL
- I.L. INVERTED LEVEL
- B.L. BOTTOM LEVEL
- L.B. LOT BOUNDARY
- SITE BOUNDARY
- BAY BOUNDARY
- |-|- EX. HOARDING / PERIPHERAL WALL
- A1,A2,A3.... INCOMING PIPE INVERT LEVEL
- X1,X2,X3.... OUTGOING PIPE INVERT LEVEL

REV.	DESCRIPTION	DATE

CONSULTANT :
測建行
PRUDENTIAL SURVEYORS (INTL) LTD
TEL. 25078333 FAX. 25986576

PROJECT TITLE :
PROPOSED STORM DRAIN
LAYOUT PLAN OF LOT NO. 82
S.B. ss.1 IN D.D.108,
FAN KAM ROAD, PAT HEUNG,
YUEN LONG, NEW TERRITORIES

DRAWING TITLE :
E&M INSTALLATIONS (1)

DATE	DRAWN	DESIGNED	CHECKED	SCALE
JUNE/23	LW	TL	--	1:200B40

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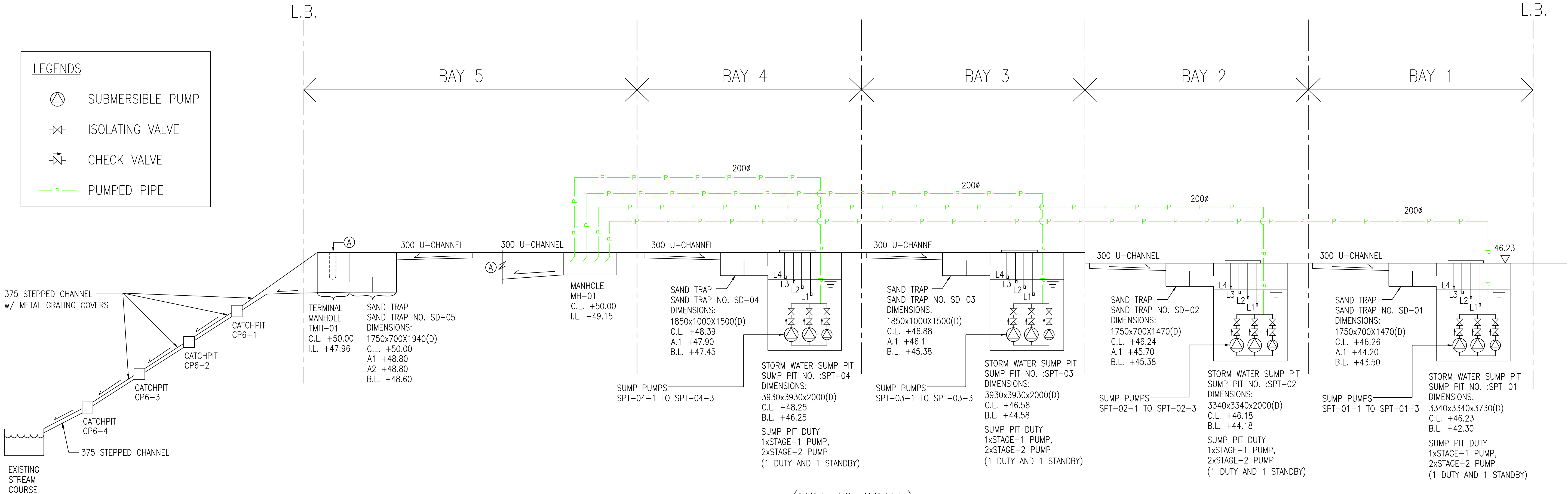
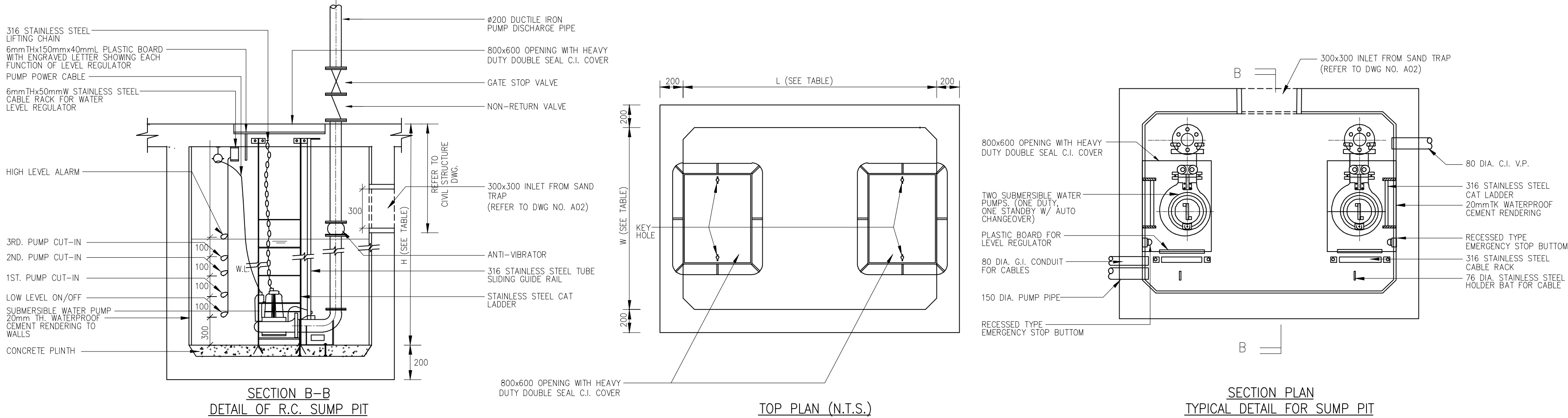
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PUMP SCHEDULE

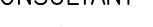
EQUIPMENT NO.	SPT-01-1 TO SPT-01-3	SPT-02-1 TO SPT-02-3	SPT-03-1 TO SPT-03-3	SPT-04-1 TO SPT-04-3
LOCATION	SPT-01 SUMP PIT	SPT-02 SUMP PIT	SPT-03 SUMP PIT	SPT-04 SUMP PIT
NO. OFF	3 PER EACH SUMP PIT			
FLOW (L/S)	30			
HYDRAULIC HEAD (m)	22			
SPEED (rpm)	1450			
TYPE	VERTICAL CENTRIFUGAL SUBMERSIBLE PUMP			
DRIVE	DIRECT			
FLUID HANDLED	STORM WATER			
FLUID TEMPERATURE (°C)	28			
WORKING PRESSURE (kPa)	1000			
TESTING PRESSURE	1200			
MINIMUM EFFICIENCY	80			
BREAK POWER	7.5			
MOTOR DATA:				
TYPE	TEFC			
SPEED (rpm)	1450			
RATING (kW)	11			
POWER SUPPLY (PHASE/CYCLE/VOLT)	3/50/380			
OPERATING WEIGHT (kg)	150			
REMARKS	— ONE AS STAND-BY FOR EACH SUMP PIT			

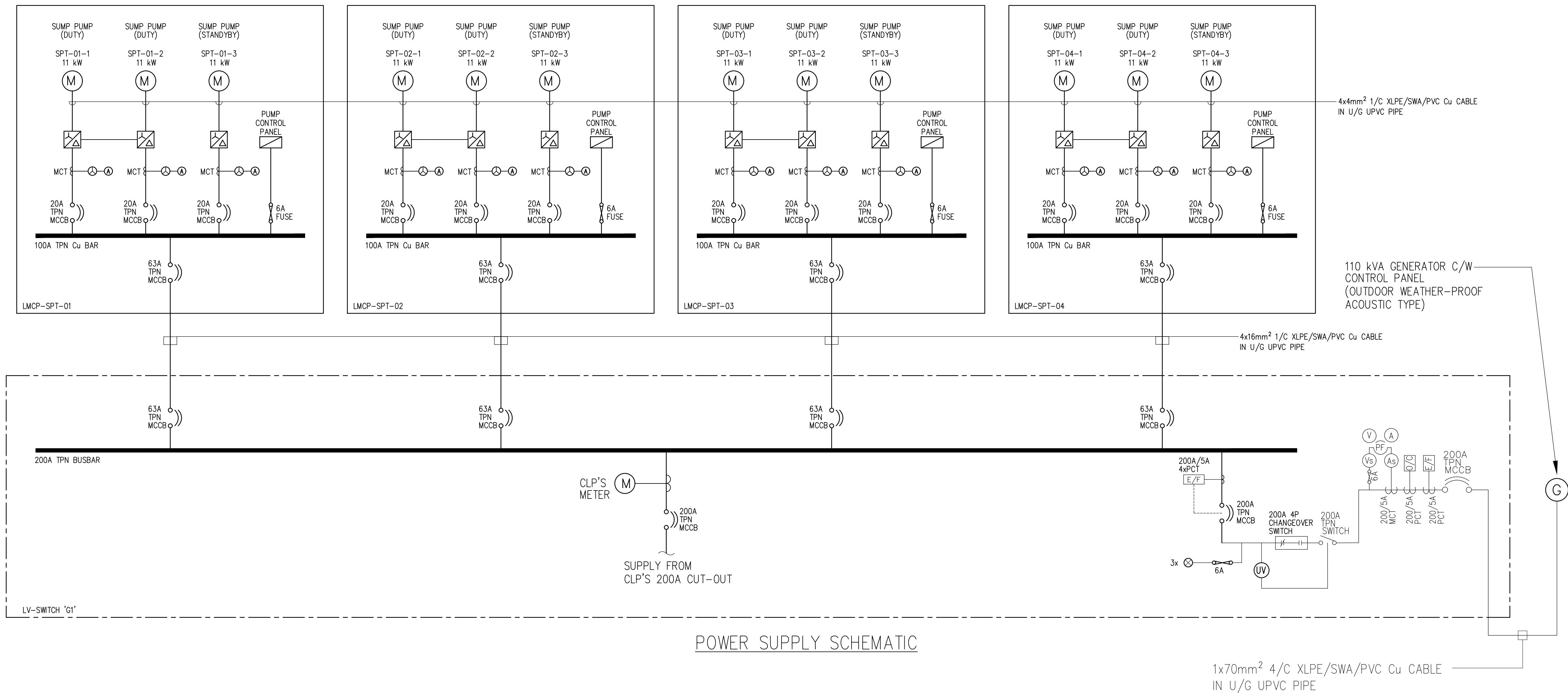
SUMP PIT DIMENSIONS

SUMP PIT NO.	L	W	H
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SPT-02	3340	3340	2000
SPT-03	3930	3930	2000
SPT-04	3930	3930	2000

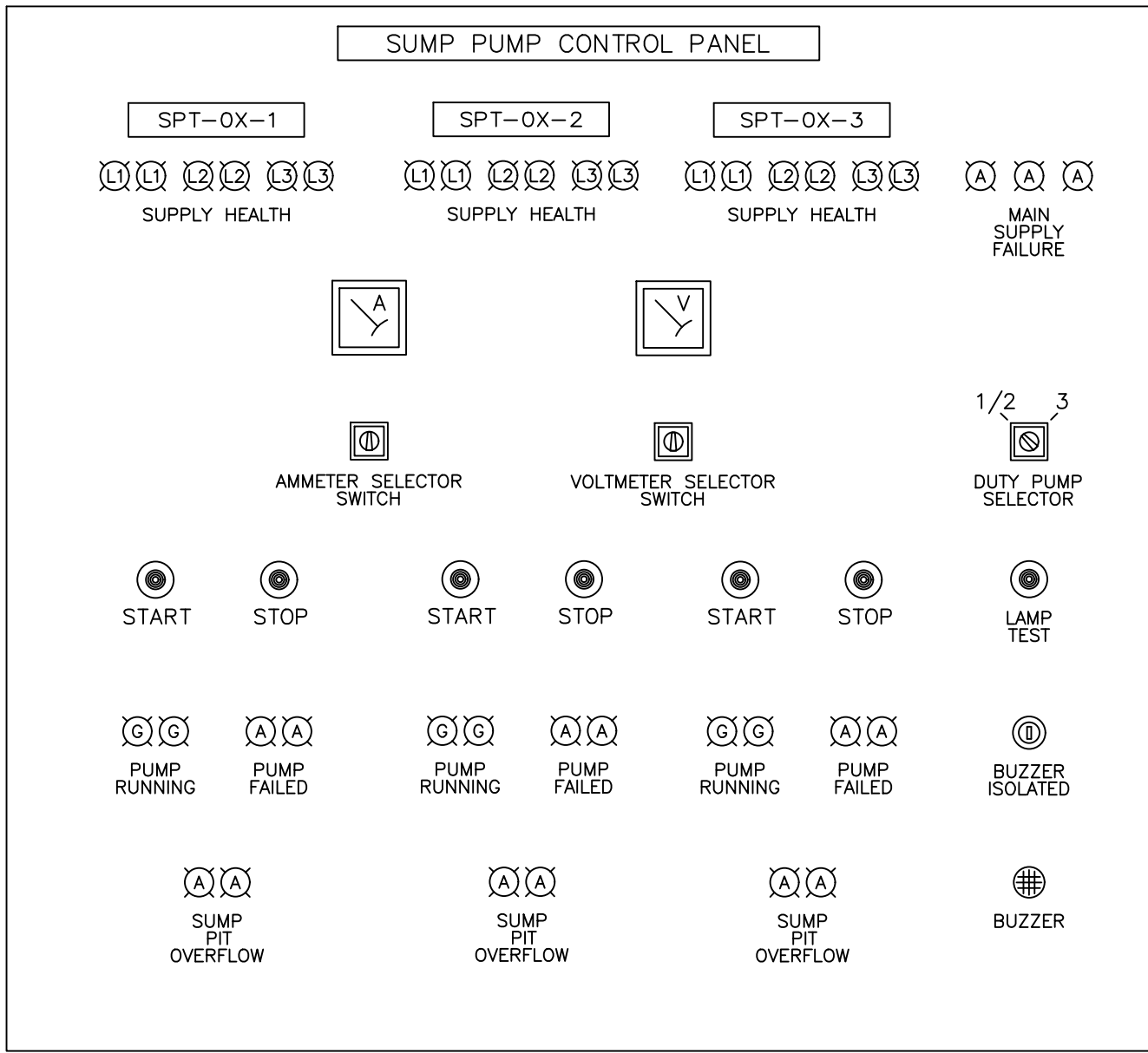


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CONSULTANT :		PROJECT TITLE :		DRAWING TITLE :		JOB NO. :		DRAWING NO. :		<table><tr><th>DATE</th><th>DRAWN</th><th>DESIGNED</th><th>CHECKED</th><th>SCALE</th></tr><tr><td>11/MAY/23</td><td>LW</td><td>TL</td><td>--</td><td>N.T.S.</td></tr><tr><td colspan="2">STATUS :</td><td colspan="3">REV. 3</td></tr></table>					DATE	DRAWN	DESIGNED	CHECKED	SCALE	11/MAY/23	LW	TL	--	N.T.S.	STATUS :		REV. 3		
DATE	DRAWN	DESIGNED	CHECKED	SCALE																									
11/MAY/23	LW	TL	--	N.T.S.																									
STATUS :		REV. 3																											
 御 建 行 PRUDENTIAL SURVEYORS (INTL) LTD TEL. 25078333 FAX. 25986576		PROPOSED STORM DRAIN LAYOUT PLAN OF LOT NO. 82 S.B ss.1 IN D.D.108, FAN KAM ROAD, PAT HEUNG, YUEN LONG, NEW TERRITORIES		E&M INSTALLATIONS (2) – SUMP PUMP SCHEMATIC		B8354 FILING CODE : N:\Advisory Section\Job Files\PSIL\ B8354...\Project Team\ Topographic survey\2023-01-12\CAD\2024 WORKING FILES\CAD\E01-E03.dwg		E02																					



POWER SUPPLY SCHEMATIC

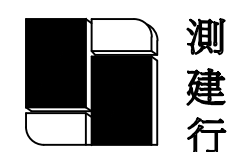


TYPICAL LMCP DETAILS

LEGEND

SYMBOL	DISCRIPTION		
	AUTOMATIC CHANGEOVER SWITCH (C/W M&E INTERLOCK DEVICE)		REACTIVE POWER CONTROL RELAY
	DISTRIBUTION BOARD		CAPACITOR BANK
	ISOLATOR		EARTH PIT
	TRANSFORMER		MCCB BOARD
	ACB		FUSE SWITCH
	CLP kWhr METER		SWITCH
	AMMETER SELECTOR		MCCB
	VOLTMETER SELECTOR		MCB
	AMMETER		COPPER BUSBAR CHAMBER
	VOLTMETER		POWER FACTOR METER
	CURRENT TRANSFORMER		CHECK METER
	I.D.M.T. EARTH FAULT RELAY		TIMER
	I.D.M.T. OVERCURRENT RELAY		METER SYSTEM
	NETWORK ANALYSER		
	CABLE CHANGING BOX		
	UNDER VOLT RELAY		

CONSULTANT :



PRUDENTIAL SURVEYORS (INTL) LTD
TEL. 25078333 FAX. 25986576

PROJECT TITLE :

PROPOSED STORM DRAIN
LAYOUT PLAN OF LOT NO. 82
S.B ss.1 IN D.D.108,
FAN KAM ROAD, PAT HEUNG,
YUEN LONG, NEW TERRITORIES

DRAWING TITLE :

E&M INSTALLATIONS (3) -
ELECTRICAL INSTALLATIONS

JOB NO. :

B8354

FILING CODE :
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DRAWING NO. :

E03

DATE DRAWN DESIGNED CHECKED SCALE

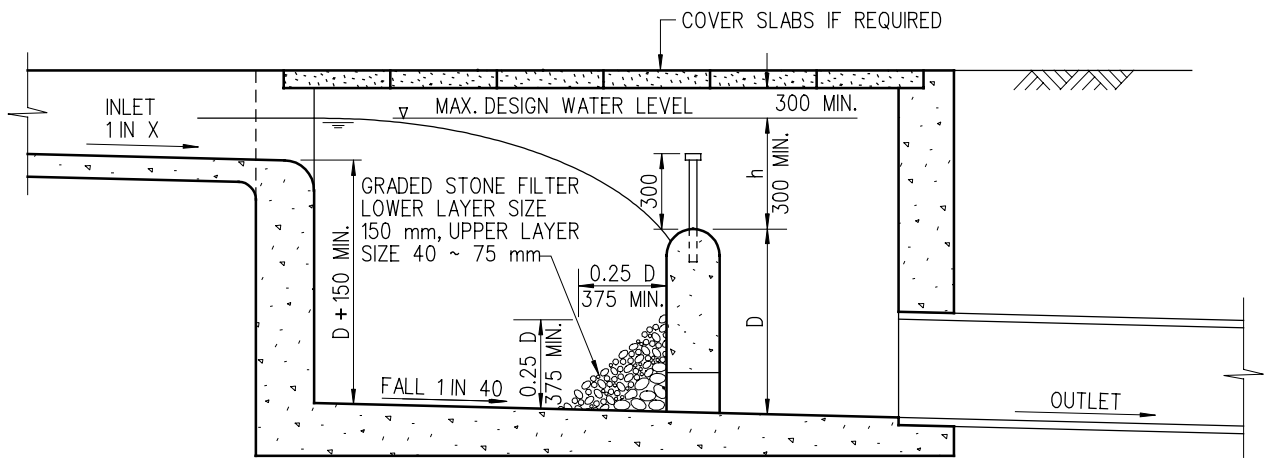
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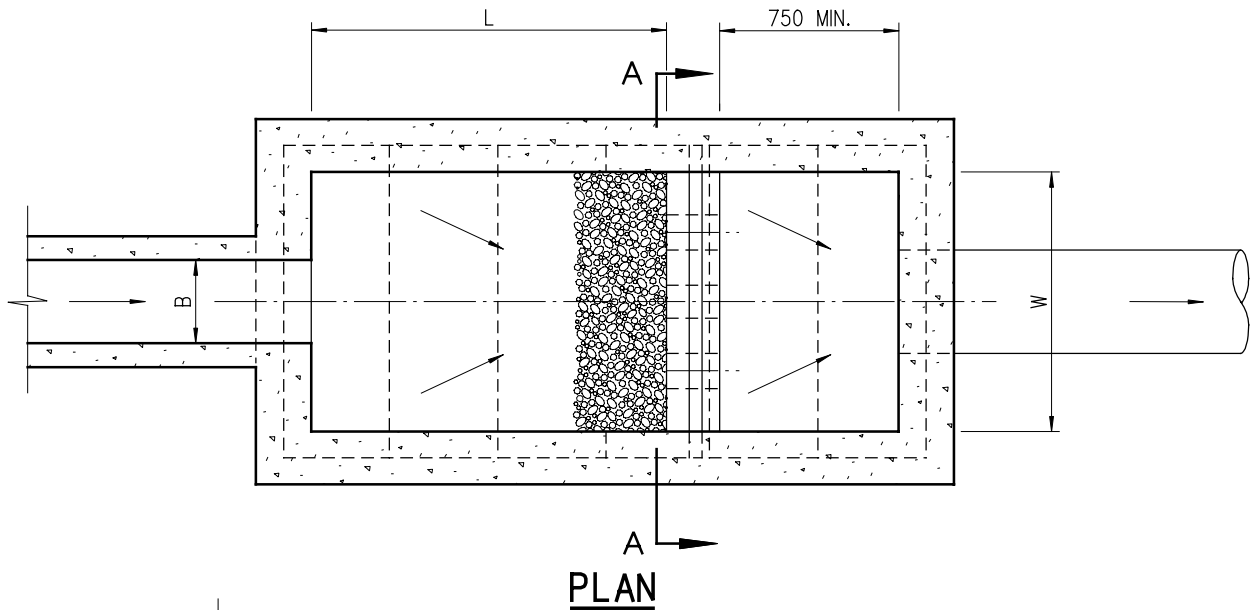
ANNEX 3

**REFERENCE DRAWINGS – STANDARD DRAWINGS
FROM DRAINAGE SERVICES DEPARTMENT (DSD),
HIGHWAYS DEPARTMENT (HYD) & CIVIL
ENGINEERING AND DEVELOPMENT DEPARTMENT
(CED)**

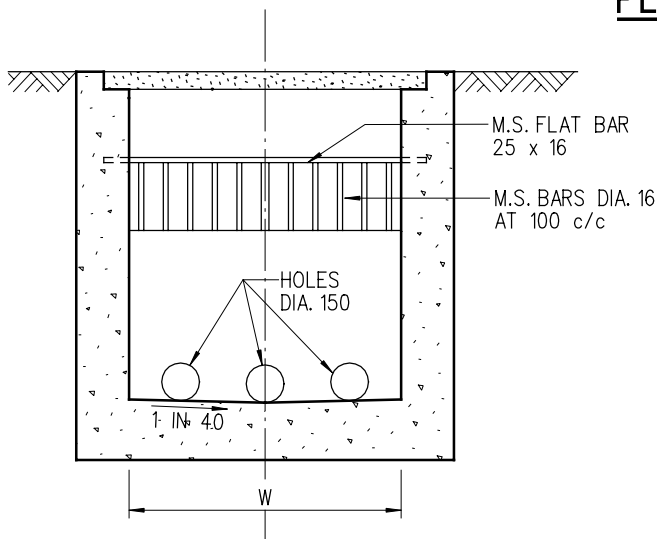
DRAWING NO.	DRAWING TITLE	ISSUED BY
DS 1025B	SAND TRAP	DSD
H3156B	CAST IRON CHANNEL GRATING NOT SUBJECT TO VEHICULAR LOAD	HYD
C2405/1	STANDARD CATCHPIT DETAILS (SHEET 1 OF 5)	CED
C2405/2	STANDARD CATCHPIT DETAILS (SHEET 2 OF 5)	CED
C2405/3	STANDARD CATCHPIT DETAILS (SHEET 3 OF 5)	CED
C2405/F	STANDARD CATCHPIT DETAILS (SHEET 4 OF 5)	CED
C2405/5	STANDARD CATCHPIT DETAILS (SHEET 5 OF 5)	CED
C2406/1	CATCHPIT WITH TRAP (SHEET 1 OF 2)	CED
C2406/2A	CATCHPIT WITH TRAP (SHEET 2 OF 2)	CED
C2409I	DETAILS OF HALF-ROUND AND U-CHANNELS (TYPE A – WITH MASONRY APRON)	CED
C2410	DETAILS OF HALF-ROUND AND U-CHANNELS (TYPE B – WITH EROSION CONTROL MAT APRON)	CED
C2411G	DETAILS OF STEPPED CHANNEL	CED
C2412E	COVER SLAB AND CAST IRON GRATING FOR CHANNELS	CED
C2513D	JUNCTION OF STEPPED AND U-CHANNELS	CED



LONGITUDINAL SECTION



PLAN



SECTION A-A

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. NORMALLY FOR DRAINS OF 900 mm DIA. AND BELOW. FOR BIGGER DRAINS AND STEEP TERRAIN, SAND TRAP SHOULD BE SPECIALLY DESIGNED.
3. SIZE
DEPTH : $D \leq 750$
WIDTH : $W \geq 3B$
LENGTH : $4.8D^{0.67} h^{0.5} X^{0.5} \geq 4B$
4. GRADED STONE FILTER SHALL BE CRUSHER RUN GRANITE AGGREGATE.
5. CAPACITY D W L TO BE ACCORDING TO SIZE AND NATURE OF CATCHMENT, PROVIDING DETENTION TIME NOT LESS THAN 5 MINUTES FOR MAX. DESIGN FLOW OF INLET.

B	REDRAWN BY CAD	ORIGINAL SIGNED	8.8.2001
A	GENERAL REVIEW	ORIGINAL SIGNED	2.2.2001
REV.	DESCRIPTION	SIGNATURE	DATE

SAND TRAP

DRAINAGE SERVICES DEPARTMENT

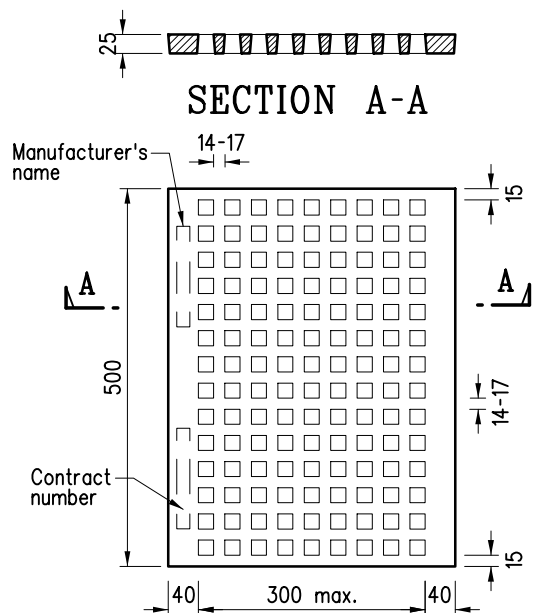
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DRAWING No.

SCALE

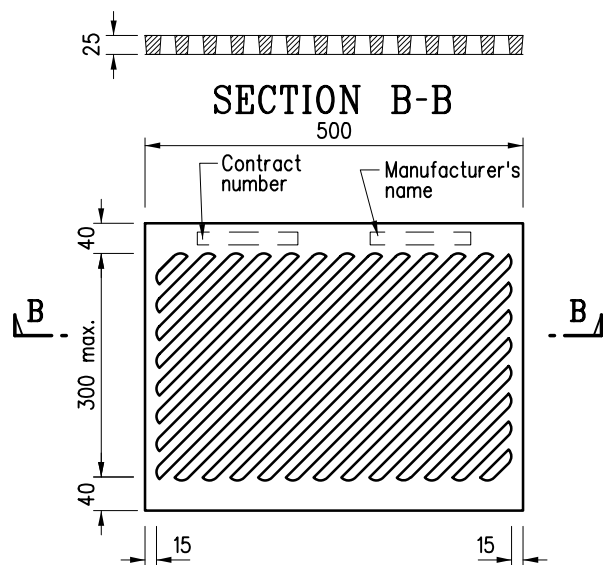
DIAGRAMMATIC

DS 1025B



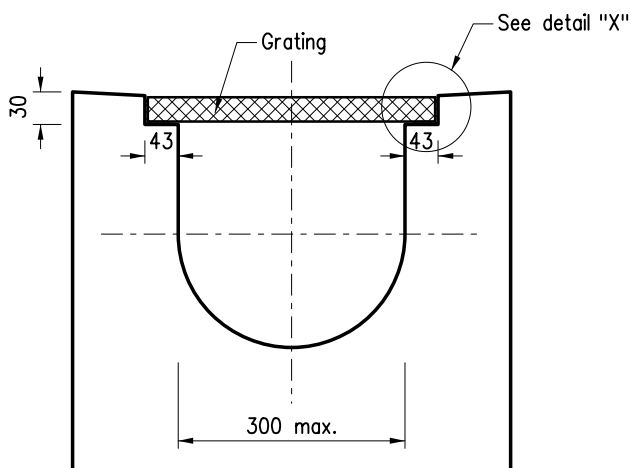
GRATING - SQUARE HOLES PATTERN

(All holes are 20x20 in size and all ribs are of equal width. Exact no. of holes and ribs to be adjusted to suit channel width)

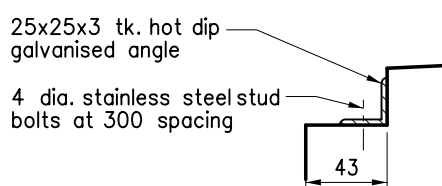


GRATING - OBLIQUE BARS PATTERN

(All slots and ribs are 13 in width. Exact no. of slots and ribs to be adjusted to suit channel width)



TYPICAL CROSS SECTION OF CHANNEL



DETAIL "X"

(Scale 1:5)

Notes:

1. All dimensions are in millimetres.
2. Gratings are cast iron to conform with grade EN-GJL-150 of BS EN 1561.
3. All cast iron units shall be coated with a bitumen coating.
4. All grating corners shall be rounded to approximately 2mm.
5. Gratings with square holes pattern are suitable for use on cycle tracks. Gratings with oblique bars pattern are suitable for use along the back of footpaths or along verges.
6. Surface channel shall be planned on 500mm modules with special pieces purposely manufactured to suit actual site conditions and to avoid on-site cutting of gratings.
7. For hinged channel gratings on highway structures, refer to Structures Standard Drg. no. SSD94.
8. Lettering for the contract no. and manufacturer's name shall be raised 2mm above normal surface.

B	Note 2 Revised	Original signed	Nov 21
A	Revise the width of slots and ribs and the size of holes	-	Aug 18
	New Issue	-	Oct 11
REF.	REVISION	SIGNATURE	DATE

**CAST IRON
CHANNEL GRATING
NOT SUBJECT TO
VEHICULAR LOAD**

HIGHWAYS DEPARTMENT

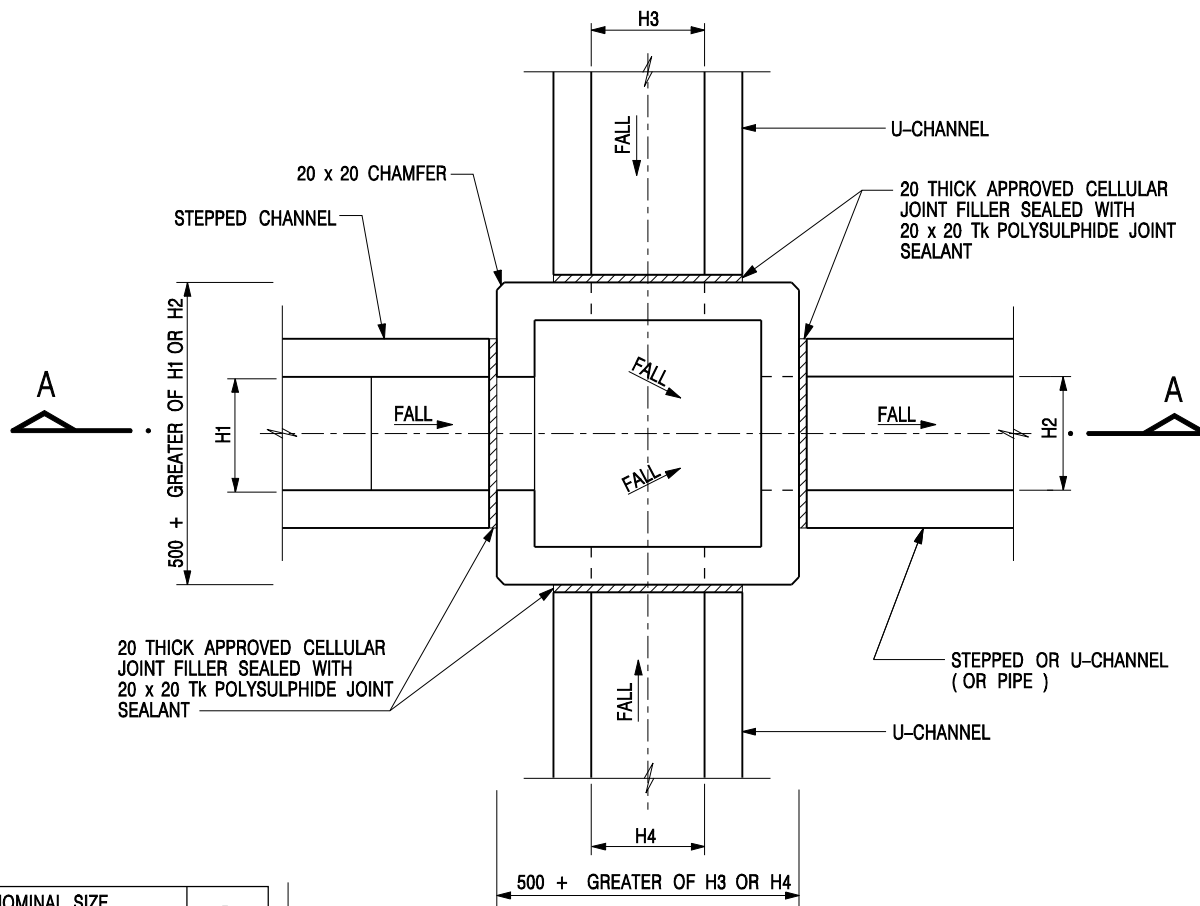
REFERENCE
Obsolote Drg. H2233

DRAWING No.

CAD

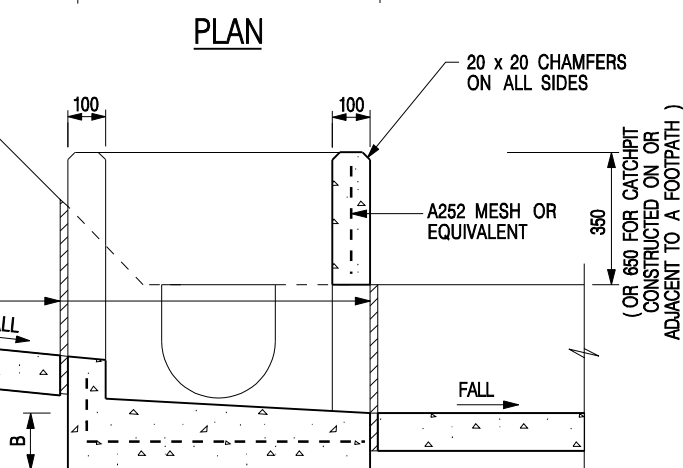
SCALE
1 : 10 or As Shown

H 3156B



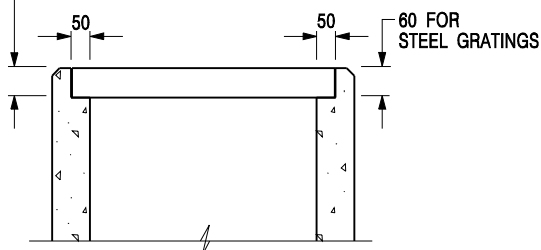
NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 - 600	150
675 - 900	175

20 THICK APPROVED CELLULAR JOINT FILLER SEALED WITH 20 x 20 Tk POLYSULPHIDE JOINT SEALANT



SECTION A - A

DEPTH OF RECESS AND DETAILS OF PRECAST CONCRETE COVERS (SEE STD. DRG. NO. C2407)



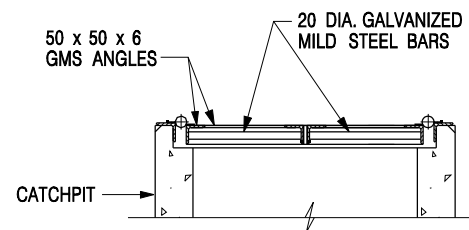
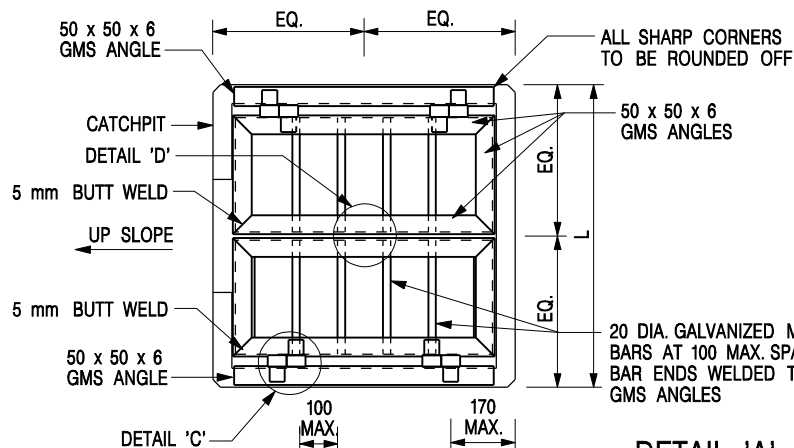
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 5 FOR OTHER NOTES.

ALTERNATIVE TOP SECTION FOR PRECAST CONCRETE COVERS / GRATINGS

STANDARD CATCHPIT DETAILS (SHEET 1 OF 5)

-	FORMER DRG. NO. C2405J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT			
SCALE 1 : 20		DRAWING NO. C2405 /1	
DATE JAN 1991			

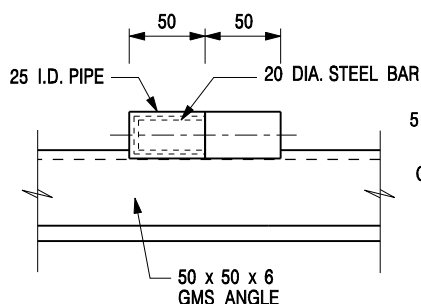


SECTIONAL ELEVATION

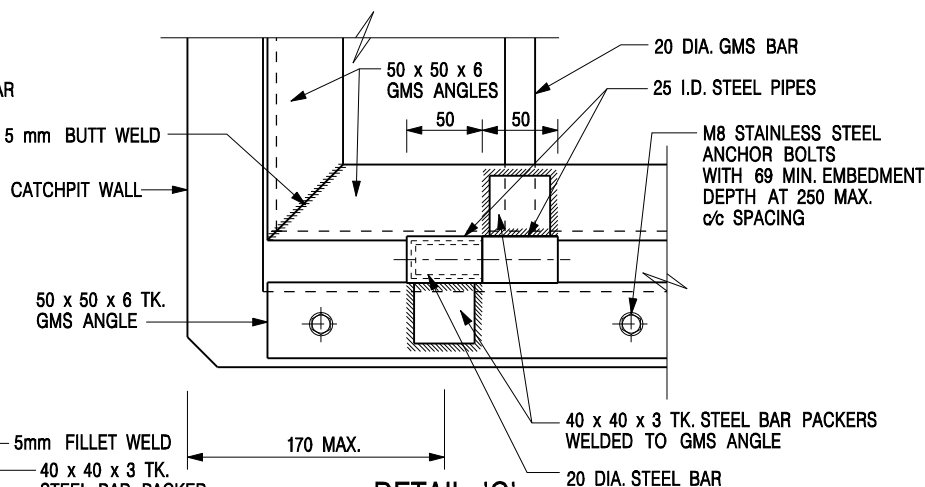
DETAIL 'A'

(DETAILS OF DOUBLE SIDE OPENING STEEL GRATING FOR L > 900mm)

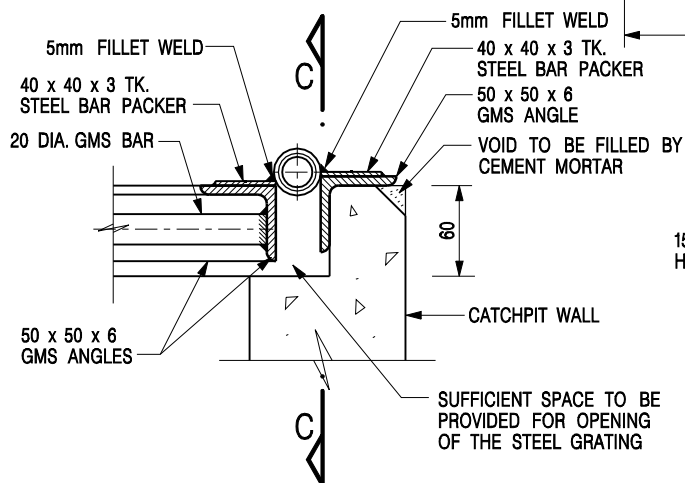
SCALE 1 : 20



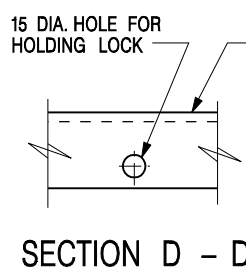
SECTION C - C



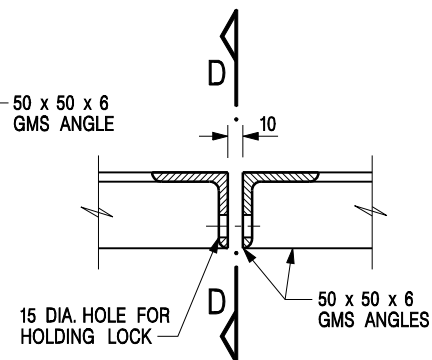
DETAIL 'C'
(DETAILS OF HINGE)
SCALE 1 : 5



SECTIONAL ELEVATION
(DETAIL 'C')



SECTION D - D



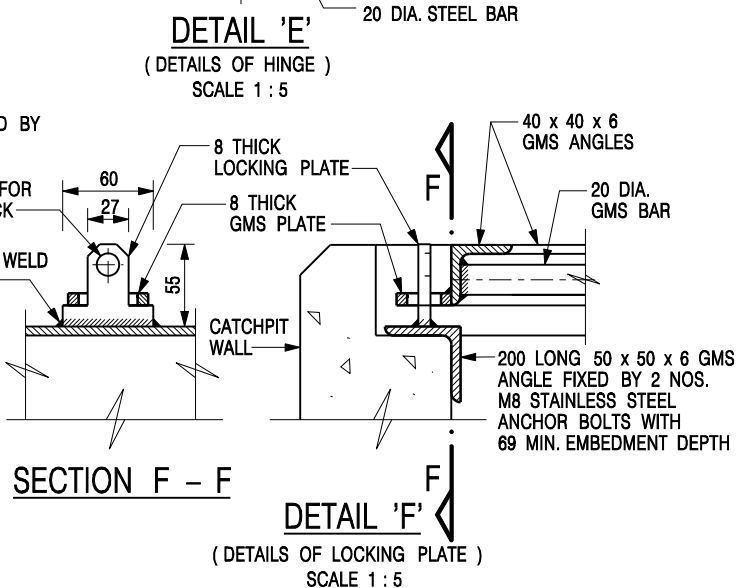
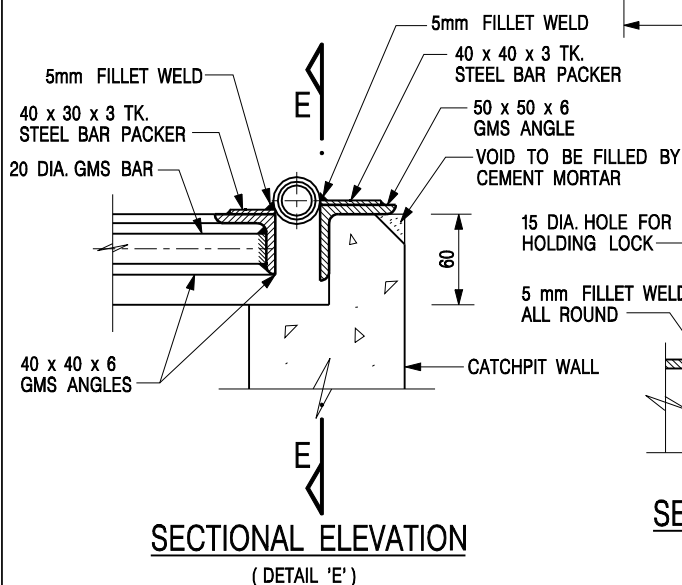
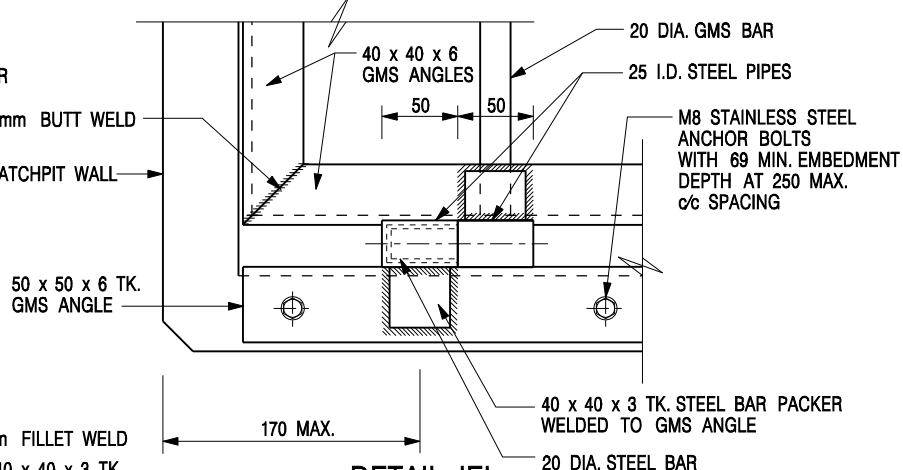
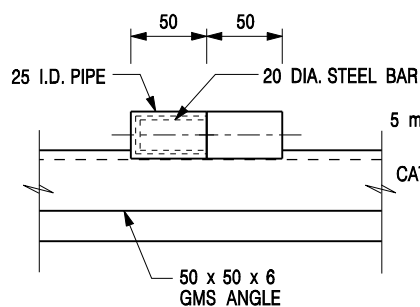
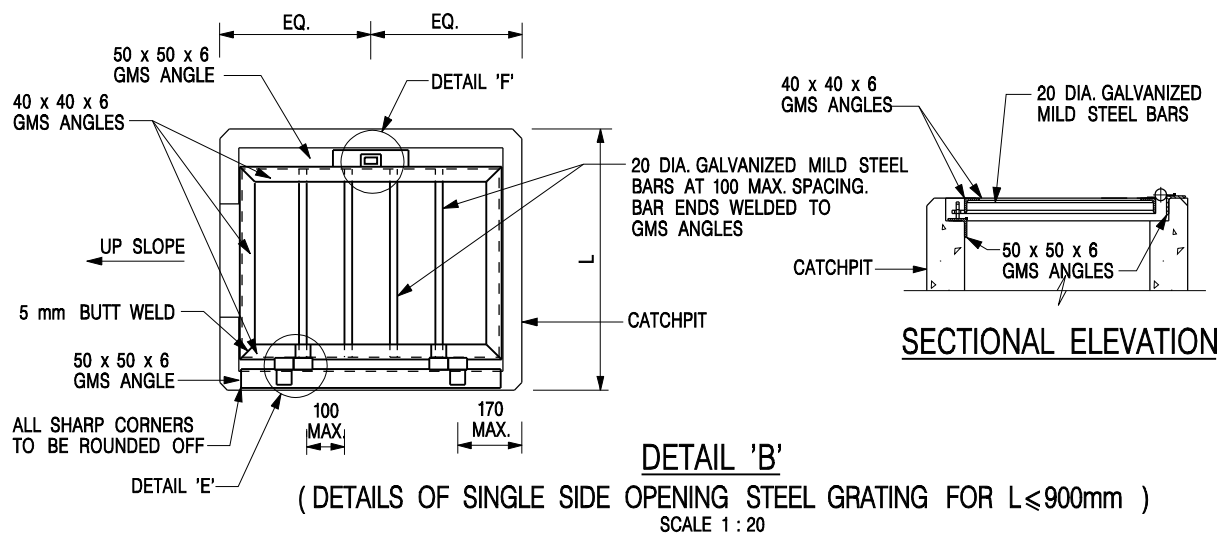
DETAIL 'D'
(DETAILS OF HOLE FOR LOCK)
SCALE 1 : 5

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 5 FOR OTHER NOTES.

STANDARD CATCHPIT DETAILS
(SHEET 2 OF 5)

-	FORMER DRG. NO. C2405J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT		SCALE AS SHOWN DATE JAN 1991	
		DRAWING NO. C2405 /2	

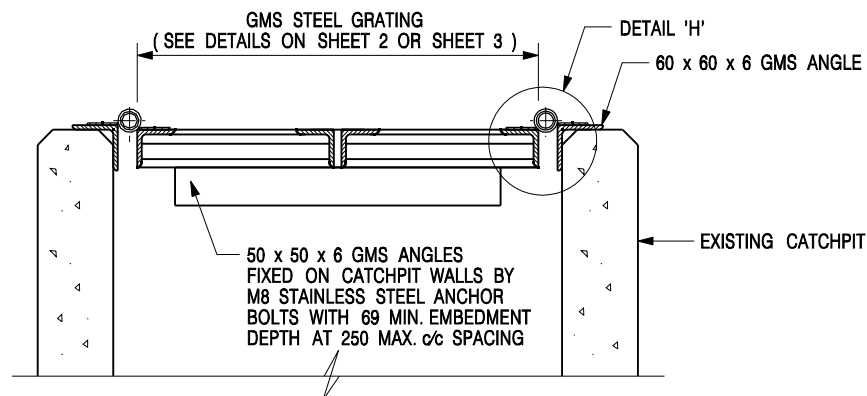


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 5 FOR OTHER NOTES.

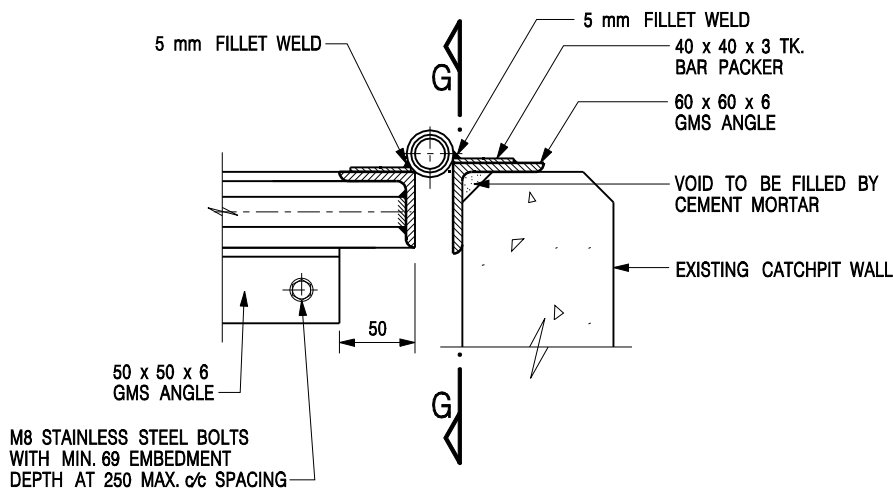
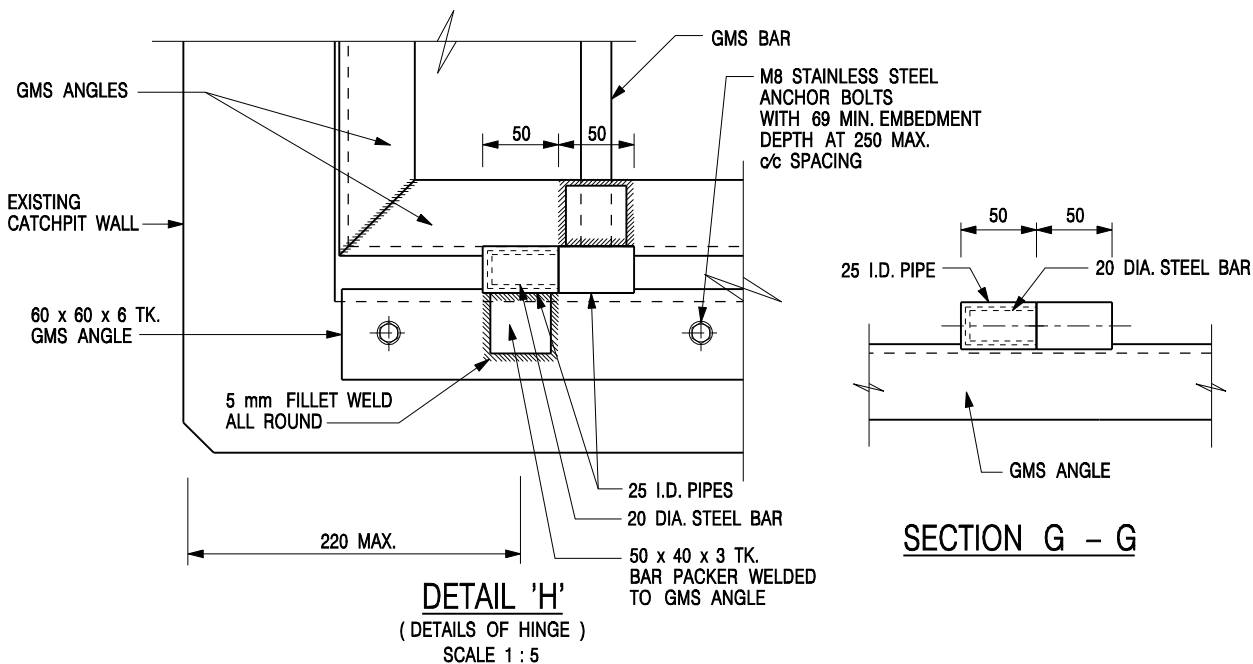
STANDARD CATCHPIT DETAILS
(SHEET 3 OF 5)

-	FORMER DRG. NO. C2405J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT		SCALE AS SHOWN DATE JAN 1991	
		DRAWING NO. C2405 /3	



DETAIL 'G' - DETAILS OF STEEL GRATING CONSTRUCTED ON EXISTING CATCHPIT

SCALE 1 : 10



SECTIONAL ELEVATION

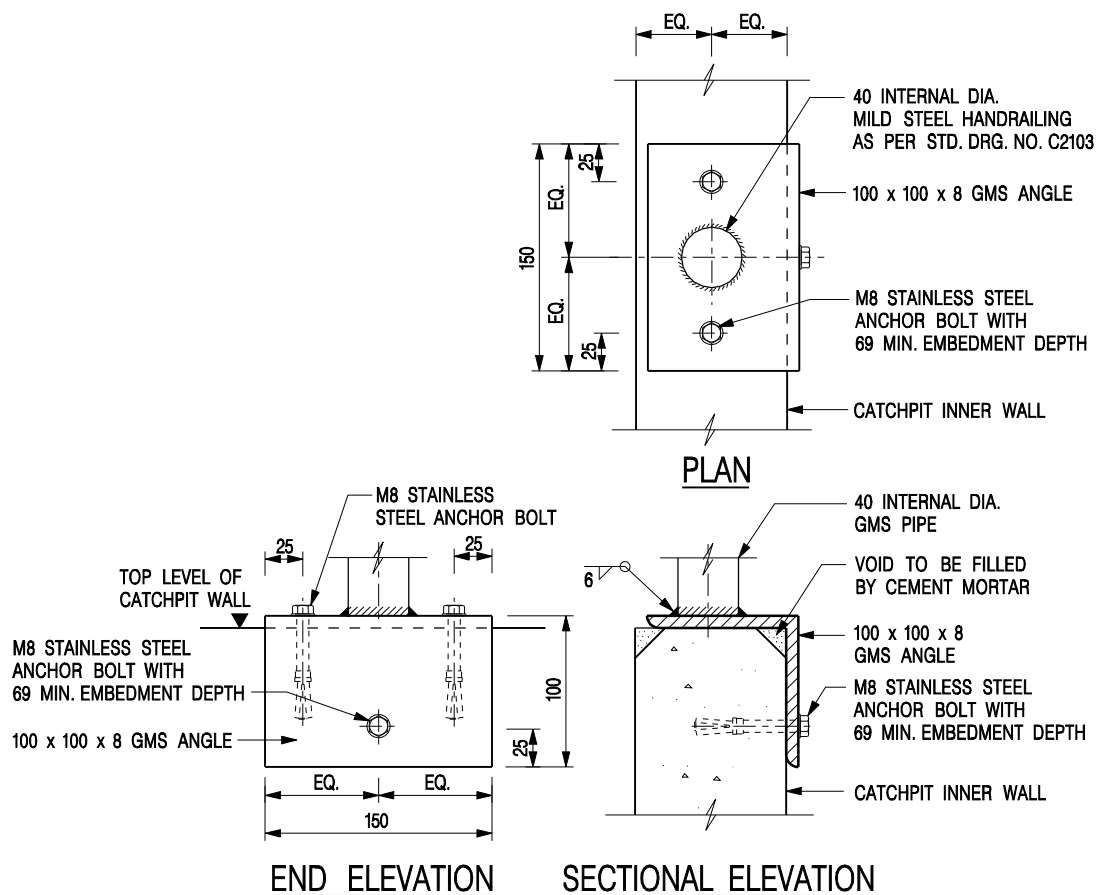
(DETAIL 'H')

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 5 FOR OTHER NOTES.

STANDARD CATCHPIT DETAILS
(SHEET 4 OF 5)

-	FORMER DRG. NO. C2405J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT			
SCALE AS SHOWN		DRAWING NO. C2405 /4	
DATE JAN 1991			



DETAIL 'J' – FIXING DETAILS FOR HANDRAILING ON TOP OF CATCHPIT WALL

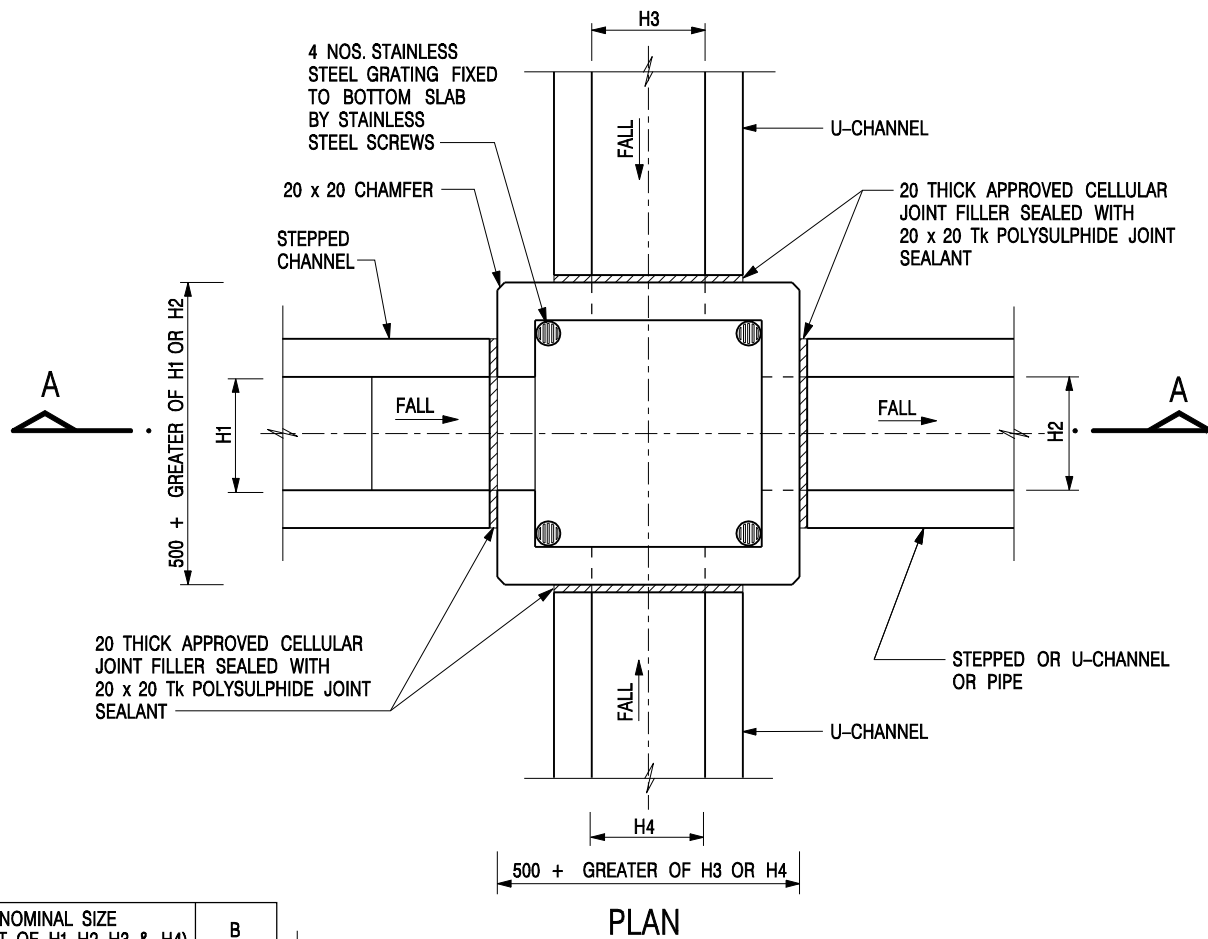
SCALE 1 : 5

NOTES:

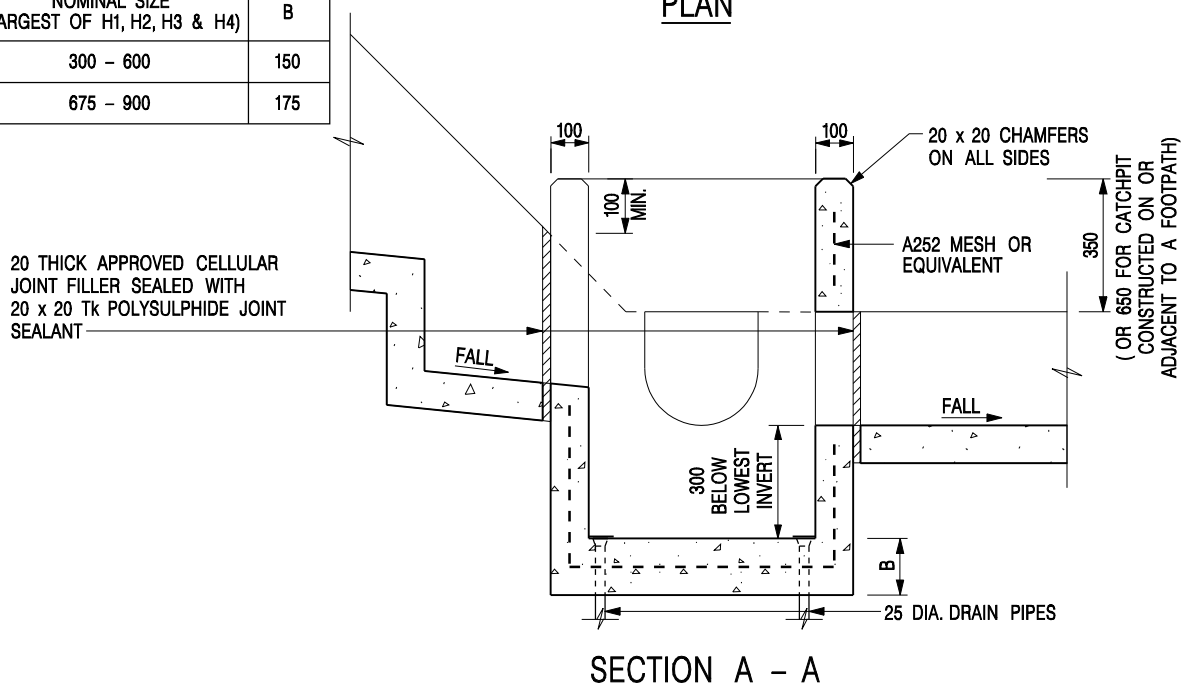
- ALL DIMENSIONS ARE IN MILLIMETRES.
- ALL CONCRETE SHALL BE GRADE 20 /20.
- CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
- FOR DETAILS OF JOINT, REFER TO STD. DRG. NO. C2413.
- CONCRETE TO BE COLOURED AS SPECIFIED.
- FOR CATCHPITS CONSTRUCTED ON OR ADJACENT TO A FOOTPATH, STEEL GRATINGS (SEE DETAILS ON SHEET 2 OR SHEET 3) OR CONCRETE COVERS (SEE STD. DRG. NO. C2407) SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER.
- IF INSTRUCTED BY THE ENGINEER, HANDRAILING (SEE DETAIL 'J' ON SHEET 5; EXCEPT ON THE UPSLOPE SIDE) IN LIEU OF STEEL GRATINGS OR CONCRETE COVERS CAN BE ACCEPTED AS AN ALTERNATIVE SAFETY MEASURE FOR CATCHPITS NOT ON A FOOTPATH NOR ADJACENT TO IT. TOP OF THE HANDRAILING SHALL BE 1 000 mm MIN. MEASURED FROM THE ADJACENT GROUND LEVEL.
- MINIMUM INTERNAL CATCHPIT WIDTH SHALL BE 1 000 mm FOR CATCHPITS WITH A HEIGHT EXCEEDING 1 000 mm MEASURED FROM THE INVERT LEVEL TO THE ADJACENT GROUND LEVEL. AND, STEP IRONS (SEE DSD STD. DRG. NO. DS1043) AT 300 mm c/c STAGGERED SHALL BE PROVIDED. THICKNESS OF CATCHPIT WALL FOR INSTALLATION OF STEP IRONS SHALL BE INCREASED TO 150 mm.
- FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'G' ON SHEET 4.
- ALL STEEL ANGLES SHALL COMPLY WITH BS EN 10025 AND BS EN 10056.
- UNLESS OTHERWISE SPECIFIED, ALL WELDS SHALL BE 5 mm CONTINUOUS FILLET WELDS.
- ALL WELDS SHALL BE CHIPPED, GROUND SMOOTH, BRUSHED TO REMOVE SLAG PRIOR TO HOT-DIP GALVANIZATION.
- ALL STEELWORK SHALL BE HOT-DIP GALVANIZED TO BS EN ISO 1461. ALL EXPOSED STEELWORK SURFACES SHALL BE TREATED AND PAINTED IN ACCORDANCE WITH THE GENERAL SPECIFICATION.
- SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

STANDARD CATCHPIT DETAILS
(SHEET 5 OF 5)

-	FORMER DRG. NO. C2405J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT			
SCALE AS SHOWN		DRAWING NO. C2405 /5	
DATE JAN 1991			



NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 - 600	150
675 - 900	175

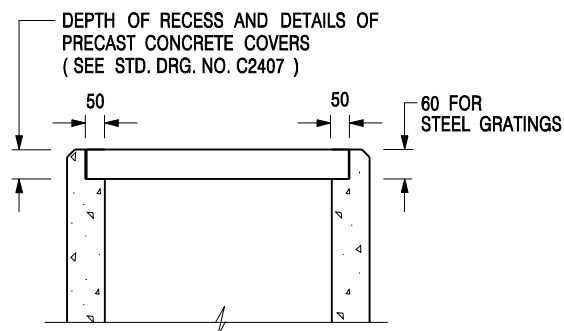


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 2 FOR OTHER NOTES.

CATCHPIT WITH TRAP
(SHEET 1 OF 2)

-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT		SCALE 1 : 20	
		DRAWING NO. C2406 /1	
DATE JAN 1991			



ALTERNATIVE TOP SECTION FOR PRECAST CONCRETE COVERS / GRATINGS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL CONCRETE SHALL BE GRADE 20 /20.
3. CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
4. FOR DETAILS OF JOINT, REFER TO STD. DRG. NO. C2413.
5. CONCRETE TO BE COLOURED AS SPECIFIED.
6. UNLESS REQUESTED BY THE MAINTENANCE PARTY AND AS DIRECTED BY THE ENGINEER, CATCHPIT WITH TRAP IS NORMALLY NOT PREFERRED DUE TO PONDING PROBLEM.
7. UPON THE REQUEST FROM MAINTENANCE PARTY, DRAIN PIPES AT CATCHPIT BASE CAN BE USED BUT THIS IS FOR CATCHPITS LOCATED AT SLOPE TOE ONLY AND AS DIRECTED BY THE ENGINEER.
8. FOR CATCHPITS CONSTRUCTED ON OR ADJACENT TO A FOOTPATH, STEEL GRATINGS (SEE DETAIL 'A' ON STD. DRG. NO. C2405 /2) OR CONCRETE COVERS (SEE STD. DRG. NO. C2407) SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER.
9. IF INSTRUCTED BY THE ENGINEER, HANDRAILING (SEE DETAIL 'J' ON STD. DRG. NO. C2405 /5; EXCEPT ON THE UPSLOPE SIDE) IN LIEU OF STEEL GRATINGS OR CONCRETE COVERS CAN BE ACCEPTED AS AN ALTERNATIVE SAFETY MEASURE FOR CATCHPITS NOT ON A FOOTPATH NOR ADJACENT TO IT. TOP OF THE HANDRAILING SHALL BE 1 000 mm MIN. MEASURED FROM THE ADJACENT GROUND LEVEL.
10. MINIMUM INTERNAL CATCHPIT WIDTH SHALL BE 1 000 mm FOR CATCHPITS WITH A HEIGHT EXCEEDING 1 000 mm MEASURED FROM THE INVERT LEVEL TO THE ADJACENT GROUND LEVEL. AND, STEP IRONS (SEE DSD STD. DRG. NO. DS1043) AT 300 c/c STAGGERED SHALL BE PROVIDED. THICKNESS OF CATCHPIT WALL FOR INSTALLATION OF STEP IRONS SHALL BE INCREASED TO 150 mm.
11. FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'G' ON STD. DRG. NO. C2405 /4.
12. SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

A	MINOR AMENDMENT.	Original Signed	04.2016
-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE

**CATCHPIT WITH TRAP
(SHEET 2 OF 2)**



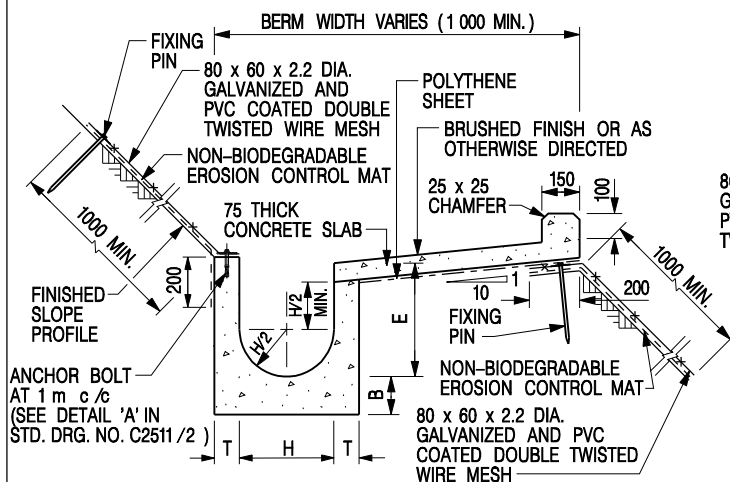
**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE 1 : 20

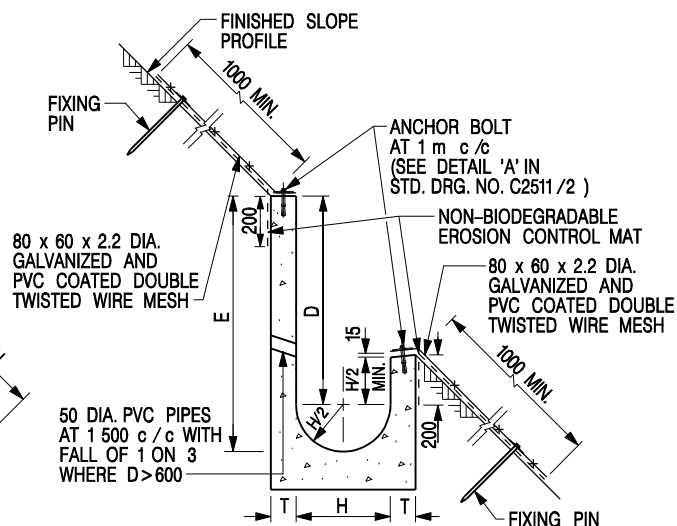
DATE JAN 1991

DRAWING NO.

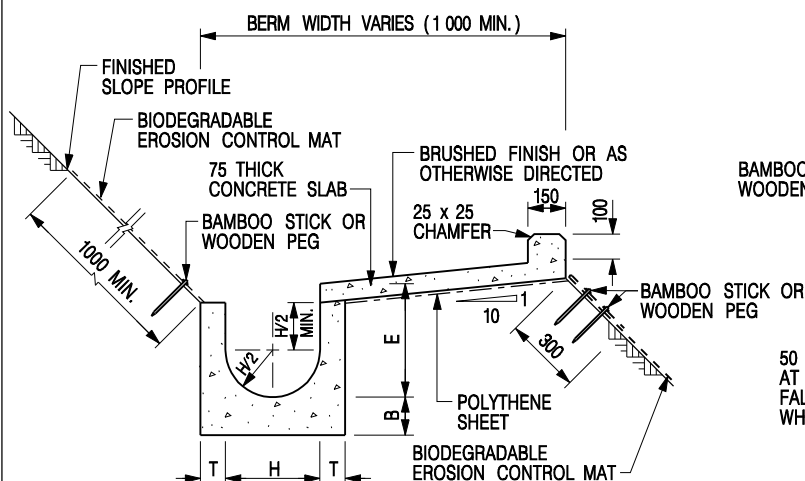
C2406 /2A



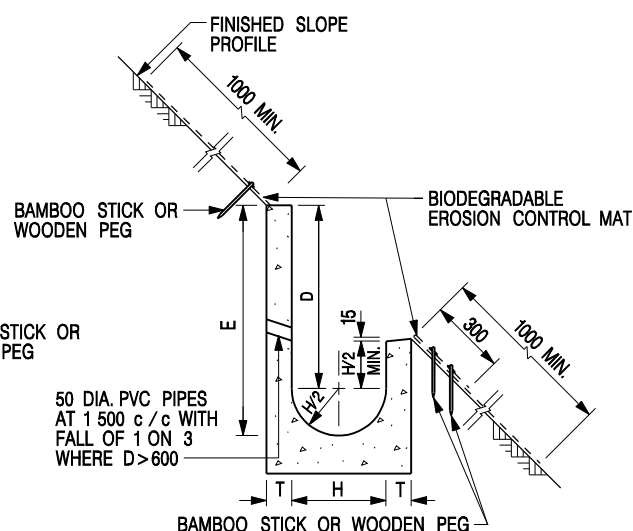
**U-CHANNELS CONSTRUCTED ON BERM
WITH NON-BIODEGRADABLE
EROSION CONTROL MAT**



**U-CHANNELS NOT CONSTRUCTED ON BERM
WITH NON-BIODEGRADABLE
EROSION CONTROL MAT**



**U-CHANNELS CONSTRUCTED ON BERM
WITH BIODEGRADABLE
EROSION CONTROL MAT**



**U-CHANNELS NOT CONSTRUCTED ON BERM
WITH BIODEGRADABLE
EROSION CONTROL MAT**

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- ALL CONCRETE TO BE GRADE 20 /20.
- CONCRETE SURFACE FINISH SHALL BE CLASS U2, F2 OR BRUSHED FINISH AS DIRECTED.
- SPACING OF EXPANSION JOINT IN CHANNELS, BERM SLABS AND APRONS TO BE 10 METRES MAXIMUM, SEE STD. DRG. NO. C2413 FOR DETAILS.
- JOINTS FOR CHANNELS, BERM SLABS, APRONS AND WALLS, ETC. TO BE ON THE SAME ALIGNMENT.
- FOR DIMENSIONS T, H, & B, SEE TABLE BELOW.
- FOR TYPICAL FIXING PIN DETAILS, SEE STD. DRG. NO. C2511/2.
- MINIMUM SIZE OF 25 x 50 x 300mm SHALL BE PROVIDED FOR WOODEN PEG.
- MINIMUM SIZE OF 10mm DIAMETER WITH 200mm LONG SHALL BE PROVIDED FOR BAMBOO STICK.
- THE FIXING DETAILS OF NON-BIODEGRADABLE AND BIODEGRADABLE EROSION CONTROL MATS ON EXISTING BERM SHALL REFER TO STD. DRG. NO. C2511/1.

NOMINAL SIZE H	T	B	REINFORCEMENT
300	80	100	A252 MESH PLACED CENTRALLY AND T=100 WHEN E > 650
375 - 600	100	150	
675 - 900	125	175	A252 MESH PLACED CENTRALLY

I	MINOR AMENDMENT.	Original Signed	07.2018
H	FIXING DETAILS OF BIODEGRADABLE EROSION CONTROL MAT ADDED.	Original Signed	12.2017
G	DIMENSION TABLE AMENDED.	Original Signed	01.2005
F	MINOR AMENDMENT.	Original Signed	01.2004
E	GENERAL REVISION.	Original Signed	12.2002
D	MINOR AMENDMENT.	Original Signed	08.2001
C	150 x 100 UPSTAND ADDED AT BERM.	Original Signed	6.99
B	MINOR AMENDMENT.	Original Signed	3.94
A	MINOR AMENDMENT.	Original Signed	10.92
REF.	REVISION	SIGNATURE	DATE

**DETAILS OF HALF-ROUND AND
U-CHANNELS (TYPE B - WITH
EROSION CONTROL MAT APRON)**



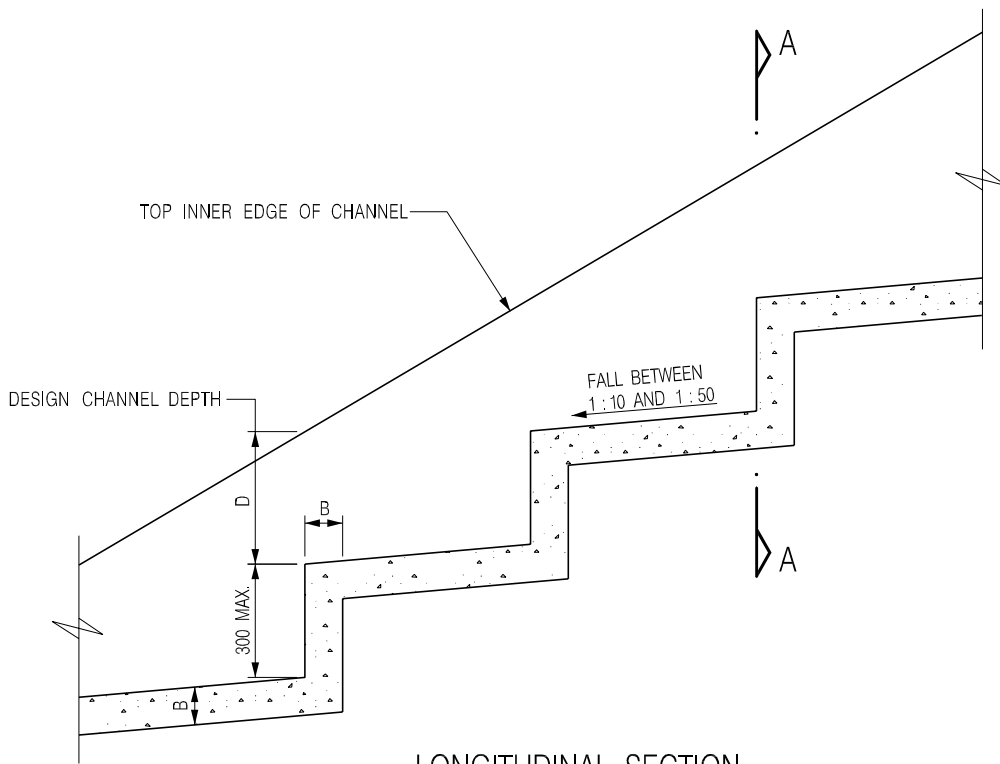
**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE DIAGRAMMATIC

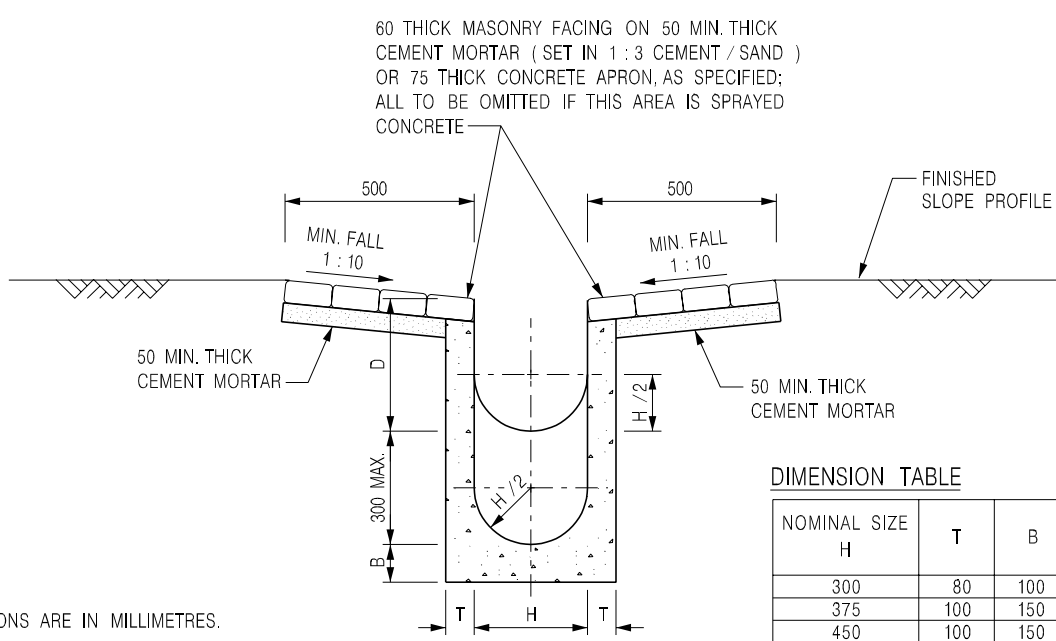
DRAWING NO.

DATE JAN 1991

C24101



LONGITUDINAL SECTION



SECTION A - A

DIMENSION TABLE

NOMINAL SIZE H	T	B	D
300	80	100	350
375	100	150	540
450	100	150	575
525	100	150	615
600	100	150	650
675	125	175	740
750	125	175	775
900	125	175	850

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR DIMENSIONS OF CHANNELS SEE TABLE.
3. ALL CONCRETE SHALL BE GRADE 20 / 20.
4. CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
5. EXPANSION JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 10 METRES WITH DETAILS AS SHOWN ON STD. DRG. NO. C2413.
6. 675 - 900 CHANNELS SHALL BE REINFORCED AS SHOWN ON STD. DRG. NO. C2410.

G	GENERAL REVISION.	Original Signed	08.2006
F	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
E	NOTE 6 AMENDED.	Original Signed	01.2004
D	GENERAL REVISION.	Original Signed	12.2002
C	MINOR AMENDMENT.	Original Signed	08.2001
B	MINOR AMENDMENT.	Original Signed	3.94
A	MINOR AMENDMENT.	Original Signed	11.92
REF.	REVISION	SIGNATURE	DATE

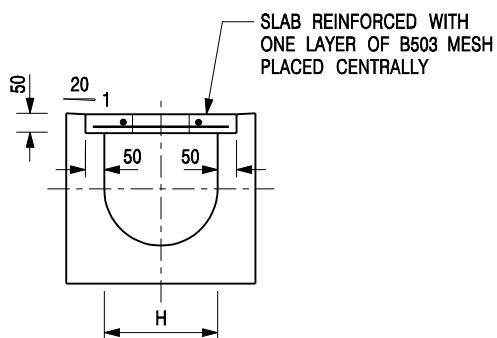
DETAILS OF
STEPPED CHANNEL



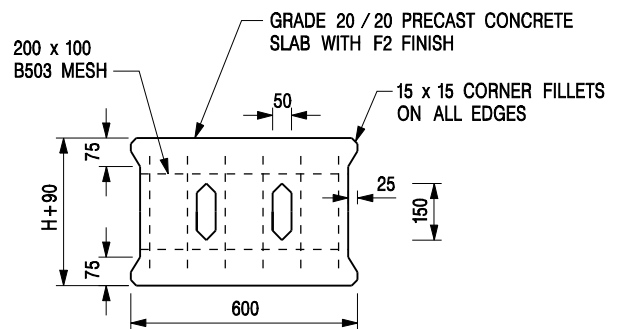
CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

SCALE 1 : 20
DATE JAN 1991

DRAWING NO.
C2411G



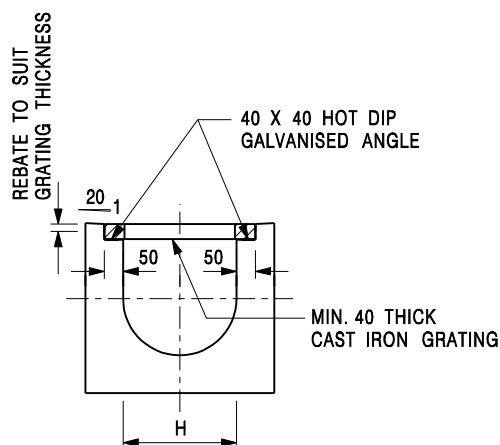
TYPICAL SECTION



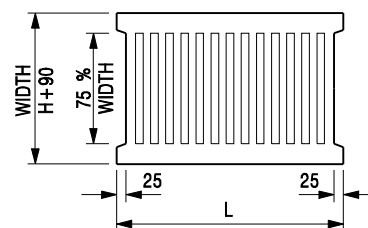
PLAN OF SLAB

U-CHANNELS WITH PRECAST CONCRETE SLABS

(UP TO H OF 525)



TYPICAL SECTION



L = 600mm FOR H ≤ 375mm
L = 400mm FOR H > 375mm

CAST IRON GRATING

(DIMENSIONS ARE FOR GUIDANCE ONLY, CONTRACTOR MAY SUBMIT EQUIVALENT TYPE)

U-CHANNEL WITH CAST IRON GRATING

(UP TO H OF 525)

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- H=NOMINAL CHANNEL SIZE.
- ALL CAST IRON FOR GRATINGS SHALL BE GRADE EN-GJL-150 COMPLYING WITH BS EN 1561.
- FOR COVERED CHANNELS TO BE HANDED OVER TO HIGHWAYS DEPARTMENT FOR MAINTENANCE, THE GRATING DETAILS SHALL FOLLOW THOSE AS SHOWN ON HyD STD. DRG. NO. H3156.

E	NOTES 3 & 4 AMENDED.	Original Signed	12.2014
D	NOTE 4 ADDED.	Original Signed	06.2008
C	MINOR AMENDMENT. NOTE 3 ADDED.	Original Signed	12.2005
B	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
A	CAST IRON GRATING AMENDED.	Original Signed	12.2002
REF.	REVISION	SIGNATURE	DATE

**COVER SLAB AND CAST IRON
GRATING FOR CHANNELS**

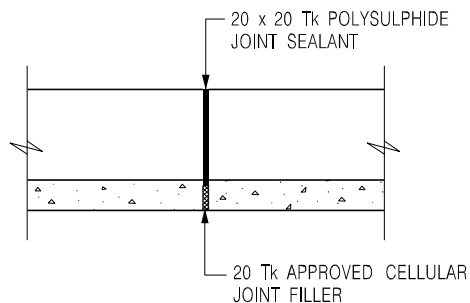


**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

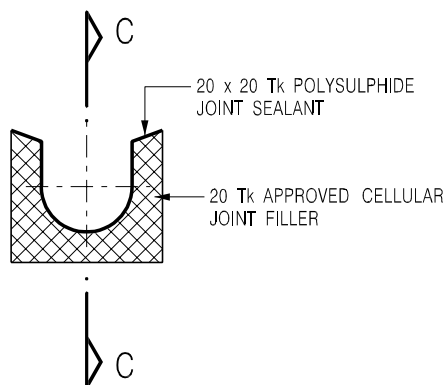
SCALE 1 : 20

DATE JAN 1991

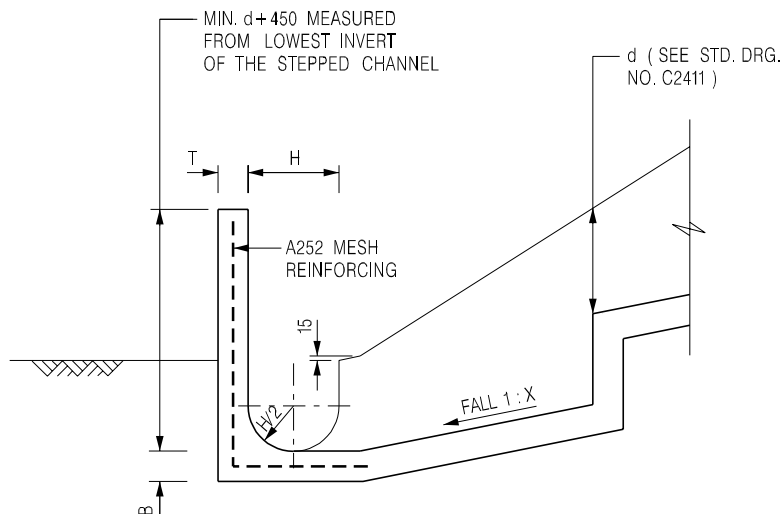
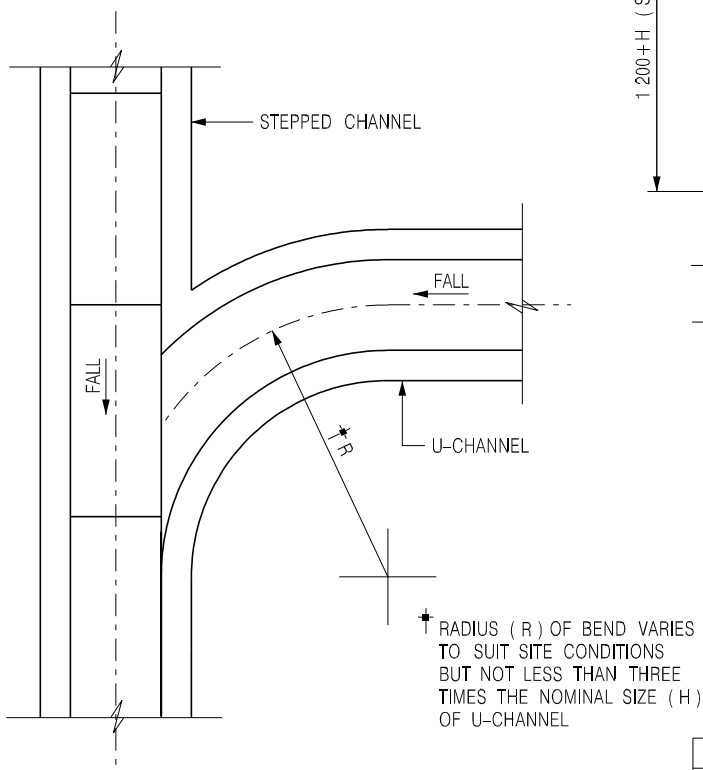
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C2412E



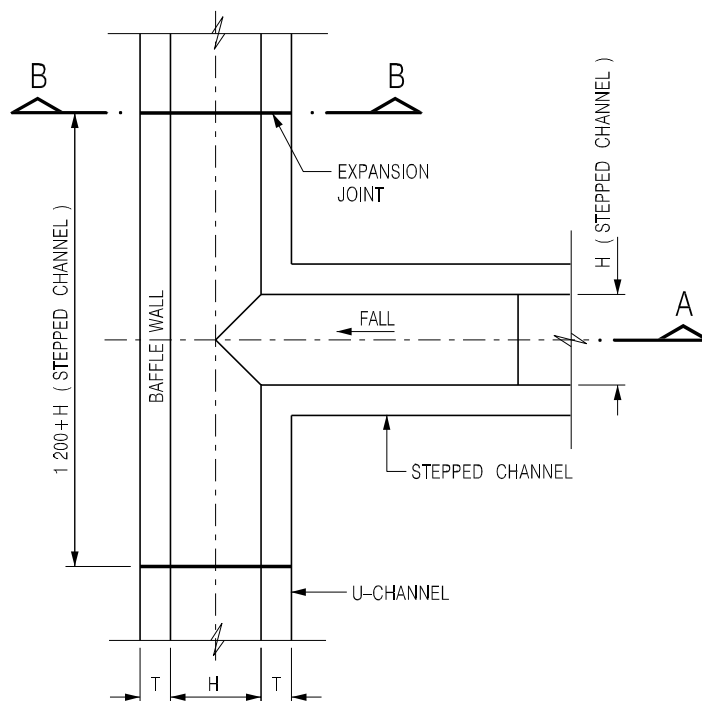
SECTION C - C



SECTION B - B
(DETAILS OF EXPANSION JOINT)



SECTION A - A



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. EXPANSION JOINTS SHALL BE PROVIDED AT A MAXIMUM INTERVAL OF 10 METRES.
3. CONCRETE SURFACE SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
4. FOR DIMENSIONS B, T, H AND d, REFER TO RELEVANT CHANNEL DETAIL DRAWINGS.
5. $20 \leq X \leq 50$ UNLESS OTHERWISE SPECIFIED.
6. CONCRETE TO BE COLOURED AS SPECIFIED.

D	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
C	MINOR AMENDMENT.	Original Signed	08.2001
B	MINOR AMENDMENT.	Original Signed	3.94
A	MINOR AMENDMENT.	Original Signed	11.92
REF.	REVISION	SIGNATURE	DATE

JUNCTION OF STEPPED AND U-CHANNELS



CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

SCALE 1 : 25

DATE JAN 1991

DRAWING NO.
C2413D

ANNEX 4

DRINAGE DESIGN REPORT

	Maximum Run Off (L/s)	Maximum Run Off (L/min)	Area (m ²)	Min. Sump Pit's Volume (m ³)
Bay 1	48.84	2930.29	493	14.65
Bay 2	49.59	2975.15	493	14.88
Bay 3	68.54	4112.40	695	20.56
Bay 4	67.62	4057.21	695	20.29
Bay 5	57.54	3452.18	575	-
Total	292.12	17527.22	2951	-

Table 1 - Runoff Calculation

Return Period T (years)	a	b	c
50	505.5	3.29	0.355

Surface Characteristics	Concrete
Runoff Coefficient, C	0.95

Climate Change	
Time	End of 21st Century
Rainfall Increase	16.0%
Design Allowance	12.1%
Total Increase	28.1%

Bay	Area A		Distance (On Plan) L_{area} (m)	Elevation (mPD)		Average Slope H (m/100m)	Inlet Time $t_0=0.14465L/(H^{0.2}A^{0.1})$ (min)	Time of Concentration $t_c=t_0$ (min)	Extreme Mean Intensity $i=a/(t_d+b)^c$ (mm/hr)	Extreme Mean Intensity With Climate Change i' (mm/hr)	Peak Runoff $Q=0.278Ci'A$	
	(m ²)	(km ²)		Upstream	Downstream						(m ³ /s)	(L/s)
1	493	0.000493	29.861	48.87	44.61	14.27	1.37	1.37	292.82	375.10	0.049	48.84
2	493	0.000493	25.856	49.91	46.03	15.01	1.17	1.17	297.30	380.84	0.050	49.59
3	695	0.000695	32.153	50.82	46.3	14.06	1.42	1.42	291.50	373.41	0.069	68.54
4	695	0.000695	34.927	52.31	48.25	11.62	1.61	1.61	287.59	368.40	0.068	67.62
5	575	0.000575	26.336	52.31	49.25	11.62	1.24	1.24	295.77	378.88	0.058	57.54

Table 2 - Sump Pit Design Calculation

Bay	Min. Sump Pit Volume (To Retain 5mins of Water) V_{min} (m ³)	Sump Pit Bottom Area A_p (m ²)	Max. Design Water Level $D_{\text{max}}=V_{\text{min}}/A_p$ (m)	Sump Pit Depth D (m)	Freeboard $D_f=D-D_{\text{max}}$ (m)	Check if Freeboard Is More Than 0.3m
1	14.65	11.16	1.31	3.73	2.42	Okay!
2	14.88	11.16	1.33	2	0.67	Okay!
3	20.56	15.44	1.33	2	0.67	Okay!
4	20.29	15.44	1.31	2	0.69	Okay!

Table 3 - Manholes, Catchpits and Sand Traps Levels

Bay	Item	C.L.	A1	A2	X1/B.L.	Level Difference Between CL and A1	Level Difference Between CL and A2	Checking For Space For Channel	Max. Channel Size	Level Difference Between A1 and X1	Level Difference Between A2 and X1	If Backdrop Is Required?	Drop Limit
1	CP1-1	47.78	47.45	-	47.35	0.33	-	Okay!	0.150	0.1	-	No need!	0.6
	CP1-2	44.96	44.65	-	44.55	0.31	-	Okay!	0.225	0.1	-	No need!	
	CP1-3	46.53	44.4	44.4	44.3	2.13	2.13	Okay!		0.1	0.1	No need!	
	CP1-4	46.44	46.1	-	46	0.34	-	Okay!		0.1	-	No need!	
	CP1-5	46.83	46.6	-	46.5	0.23	-	Okay!		0.1	-	No need!	
	SD-01	46.26	44.2	-	43.5	2.06	-	Okay!		0.7	-	Needed!	
2	CP2-1	46.83	46.6	-	46.5	0.23	-	Okay!		0.1	-	No need!	
	CP2-2	46.44	46.1	-	46	0.34	-	Okay!		0.1	-	No need!	
	CP2-3	46.41	45.9	45.9	45.8	0.51	0.51	Okay!		0.1	0.1	No need!	
	CP2-4	46.93	46.6	-	46.5	0.33	-	Okay!		0.1	-	No need!	
	SD-02	46.24	45.7	-	45.38	0.54	-	Okay!		0.3	-	No need!	
3	CP3-1	47.1	46.75	-	46.65	0.35	-	Okay!	0.3	0.1	-	No need!	
	CP3-2	46.93	46.5	-	46.4	0.43	-	Okay!		0.1	-	No need!	
	CP3-3	47.44	46.3	46.3	46.2	1.14	1.14	Okay!		0.1	0.1	No need!	
	CP3-4	48.43	48.1	-	48	0.33	-	Okay!	0.225	0.1	-	No need!	
	SD-03	46.88	46.1	-	45.78	0.78	-	Okay!		0.3	-	No need!	
4	CP4-1	50.5	49.75	-	49.65	0.75	-	Okay!	0.225	0.1	-	No need!	
	CP4-2	50.49	49.6	-	49.5	0.89	-	Okay!		0.1	-	No need!	
	CP4-3	49.32	49	-	48.9	0.32	-	Okay!		0.1	-	No need!	
	CP4-4	48.6	48.25	-	48.15	0.35	-	Okay!	0.3	0.1	-	No need!	
	CP4-5	48.574	48.05	48.05	47.95	0.524	0.524	Okay!		0.1	0.1	No need!	
	CP4-6	49.6	49.25	-	49.15	0.35	-	Okay!	0.225	0.1	-	No need!	
	SD-04	48.39	47.9	-	47.45	0.49	-	Okay!		0.4	-	No need!	
5	CP5-1	50.54	50.2	-	50.1	0.34	-	Okay!	0.3	0.1	-	No need!	
	CP5-2	49.6	49.25	-	49.15	0.35	-	Okay!		0.1	-	No need!	
	CP5-3	50.35	49	-	48.9	1.35	-	Okay!		0.1	-	No need!	
	CP5-4	51.35	51	-	50.9	0.35	-	Okay!	0.225	0.1	-	No need!	
	SD-05	50	48.8	48.8	48.06	1.2	1.2	Okay!		0.7	0.7	Needed!	
	MH-01	50	49.15	49.15	49	0.85	0.85	Okay!	0.300	0.1	0.1	No need!	
	TMH-01	50	48.9	-	47.96	1.1	-	Okay!	0.450	0.9	-	Needed!	
Outside Site Boundary	CP6-1	48.02	47.3	-	47.2	0.72	-	Okay!	0.45	0.1	-	No need!	
	CP6-2	44.22	43.8	-	43.7	0.42	-	Okay!	0.375	0.1	-	No need!	
	CP6-3	41.93	41.45	-	41.35	0.48	-	Okay!	0.45	0.1	-	No need!	
	CP6-4	41.6	40.85	-	40.75	0.75	-	Okay!	0.45	0.1	-	No need!	
	Discharge Point	41.33	40.6	-	-	0.73	-	Okay!	0.375	-	-	-	

Table 4a - Hydraulic Calculations (Bay 1-5)

Bay	Upstream	Downstream	Length L (m)	I.L. (mPD)		Gradient S		Open U-Shaped Channel Size D (mm)	Roughness Factor n	Wetted Cross-Sectional Area A (m ²)	Wetted Perimeter P (m)	Hydraulic Radius R=A/P (m)	Velocity V=R ^{2/3} S ^{1/2} /n (m/s)	Capacity Q=AV (m ³ /s)	Reduced Capacity for Sedimentation (m ³ /s)	Runoff (m ³ /s)	Check if Designed Capacity is Sufficient		
				Upstream	Downstream	(m/m)	(1 in)												
1	-	CP1-1	5.206	47.92	47.45	0.090	11	150		0.02	0.39	0.05	2.62	0.053	0.050	0.049	Okay!		
	CP1-1	CP1-2	12.662	47.35	44.65	0.213	5						4.03	0.081	0.077		Okay!		
	CP1-2	CP1-3	4.705	44.55	44.4	0.032	31						2.04	0.092	0.083		Okay!		
	-	CP1-5	20.582	47.845	46.6	0.060	17						2.81	0.127	0.121		Okay!		
	CP1-5	CP1-4	16.492	46.5	46.1	0.024	41						1.78	0.080	0.072		Okay!		
	CP1-4	CP1-3	19.657	46	44.4	0.081	12						3.26	0.147	0.140		Okay!		
	CP1-3	SD-01	1.544	44.3	44.2	0.065	15						2.91	0.131	0.125		Okay!		
2	-	CP2-1	19.267	46.895	46.6	0.015	65	225		0.05	0.58	0.08	1.41	0.064	0.057	0.050	Okay!		
	CP2-1	CP2-2	16.791	46.5	46.1	0.024	42						1.76	0.080	0.072		Okay!		
	CP2-2	CP2-3	4.926	46	45.9	0.020	49						1.63	0.074	0.066		Okay!		
	-	CP2-4	18.359	46.895	46.6	0.016	62						1.45	0.065	0.059		Okay!		
	CP2-4	CP2-3	15.122	46.5	45.9	0.040	25						2.28	0.103	0.093		Okay!		
	CP2-3	SD-02	1.288	45.8	45.7	0.078	13						3.18	0.144	0.137		Okay!		
	-	CP3-1	24.626	48.535	46.75	0.072	14						3.08	0.139	0.132		Okay!		
3	CP3-1	CP3-2	15.897	46.65	46.5	0.009	106	300		0.08	0.77	0.10	1.34	0.108	0.097	0.069	Okay!		
	CP3-2	CP3-3	5.053	46.4	46.3	0.020	51						1.95	0.156	0.141		Okay!		
	-	CP3-4	18.782	48.745	48.1	0.034	29						2.12	0.096	0.086		Okay!		
	CP3-4	CP3-3	21.419	48	46.3	0.079	13						3.22	0.145	0.138		Okay!		
	CP3-3	SD-03	1.524	46.2	46.1	0.066	15						2.93	0.132	0.126		Okay!		
	-	CP4-1	6.72	49.935	49.75	0.028	36						1.90	0.086	0.077		Okay!		
	CP4-1	CP4-2	1.948	49.65	49.6	0.026	39						1.83	0.083	0.074		Okay!		
4	CP4-2	CP4-3	12.858	49.5	49	0.039	26	225		0.05	0.58	0.08	2.25	0.102	0.092	0.068	Okay!		
	CP4-3	CP4-4	19.245	48.9	48.25	0.034	30						2.10	0.095	0.085		Okay!		
	CP4-4	CP4-5	5.159	48.15	48.05	0.019	52						1.93	0.155	0.139		Okay!		
	-	CP4-6	26.083	49.925	49.25	0.026	39						1.84	0.083	0.075		Okay!		
	CP4-6	CP4-5	12.914	49.15	48.05	0.085	12						3.33	0.151	0.143		Okay!		
	CP4-5	SD-04	1.322	47.95	47.9	0.038	26						2.22	0.100	0.090		Okay!		
	-	CP5-1	12.572	50.405	50.2	0.016	61						1.46	0.066	0.059		Okay!		
5	CP5-1	CP5-2	24.24	50.1	49.25	0.035	29	300		0.08	0.77	0.10	2.14	0.097	0.087	0.058	Okay!		
	CP5-2	CP5-3	12.367	49.15	49	0.012	82						1.52	0.122	0.110		Okay!		
	CP5-3	SD-05	3.214	48.9	48.8	0.031	32						2.01	0.091	0.082		Okay!		
	-	CP5-4	14.566	51.63	51	0.043	23						2.38	0.107	0.102		Okay!		
	CP5-4	SD-05	7.987	50.9	48.8	0.263	4						4.47	0.090	0.085		Okay!		
	MMH-01	TMH-01	0.997	49	48.9	0.100	10						0.10	4.38	0.352		0.334	0.235	Okay!
														min	1.34				
								max	4.47										
								min. req.	1.30										
								max. allow.	5.00										

Table 4b - Hydraulic Calculations (Outside Site Boundary)

	Upstream	Downstream	Length L (m)	I.L. (mPD)		Gradient S		Open U-Shaped Channel Size D (mm)	Roughness Factor n	Wetted Cross-Sectional Area A (m ²)	Wetted Perimeter P (m)	Hydraulic Radius R=A/P (m)	Velocity V=R ^{2/3} S ^{1/2} /n (m/s)	Capacity Q=AV (m ³ /s)	Reduced Capacity for Sedimentation (m ³ /s)	Runoff (m ³ /s)	Check if Designed Capacity is Sufficient
				Upstream	Downstream	(m/m)	(1 in)										
Outside Site Boundary	TMH-01	CP6-1	29.98	47.96	47.3	0.022	45	450	0.016	0.18	1.16	0.16	2.69	0.486	0.438	0.292	Okay!
	CP6-1	CP6-2	29.9	47.2	43.8	0.114	9	300		0.08	0.77	0.10	4.67	0.375	0.356		Okay!
	CP6-2	CP6-3	30.02	43.7	41.45	0.075	13	375		0.13	0.96	0.13	4.40	0.552	0.524		Okay!
	CP6-3	CP6-4	27.86	41.35	40.85	0.018	56	450		0.18	1.16	0.16	2.43	0.439	0.395		Okay!
	CP6-4	Discharge Point	5.77	40.75	40.6	0.026	38	375		0.13	0.96	0.13	2.59	0.325	0.293		Okay!
													min	2.43			
													max	4.67			
													min. req.	1.30			
													max. allow.	5.00			

Table 5 - Runoff Summary

Bay	Runoff (L/s)	Runoff (m ³ /s)
1	48.84	0.049
2	49.59	0.050
3	68.54	0.069
4	67.62	0.068
5	57.54	0.058
max	68.54	0.069
Total	292.12	0.292
Total (1-4)	234.58	0.235

ANNEX 5

DESIGN CALCULATION FOR STORM WATER PUMP DISCHARGE

Design calculation for storm water pump discharge

Design calculation for storm water pump discharge

A. Summary of Bay 1 to Bay 4 using by storm water sump pump Discharge

Bay	Maximum Run Off (L/s)	Maximum Run Off (L/min)	Catchment Area (m ²)	Sump Pit's Volume (m ³)
Bay 1	48.84	2930.29	493	14.65
Bay 2	49.59	2975.15	493	14.88
Bay 3	68.54	4112.40	695	20.56
Bay 4	67.62	4057.21	695	20.29

1. Discharge from Area **Bay 1**

- (i) Total catchment area = 493 m²
- (ii) Total maximum runoff capacity = 48.84 lit/sec(l/s)
- (iii) Storm water sump pit size = 3340 x 3340 x 3730 D
- (iv) Effective volume of sump pit = 14.65 m³
- (v) Total discharge collected
 - a. Design Maximum runoff capacity = 48.84 lit/sec.
 - b. Selected storm water pump duty = each 30 lit/sec
= 60 lit/sec.(2 duties pump, 1 standby)
- (vi) Time interval for start
 - a. $T = [\text{Eff. vol.}/(\text{select pump duty} - \text{max. runoff})] + [\text{Eff. vol.}/\text{max. runoff}]$
 $= [14.65 \text{ m}^3/11.16] + [14.65 \text{ m}^3/48.84]$
 $= 1611 \text{ sec}$
 $= 26.86 \text{ minutes}$
 - b. Nos. of cycle for pump on/off in one hour
 $= 60 \text{ minutes} / 26.86 \text{ minutes}$
 $= 2.24 \text{ times} / \text{hour}$
- (vii) Result
 - a. On/off cycles is less than 10 times in one hour
 - b. Acceptable

Design calculation for storm water pump discharge

2. Discharge from Area Bay 2

- (i) Total catchment area = 493 m²
- (ii) Total maximum runoff capacity = 49.59 lit/sec(l/s)
- (iii) Storm water sump pit size = 3340 x 3340 x 2000 D
- (iv) Effective volume of sump pit = 14.88 m³
- (v) Total discharge collected
 - c. Design Maximum runoff capacity = 49.59 lit/sec.
 - d. Selected storm water pump duty = each 30 lit/sec
= 60 lit/sec.(2 duties pump, 1 standby)
- (vi) Time interval for start
 - c. $T = [\text{Eff. vol.}/(\text{select pump duty} - \text{max. runoff})] + [\text{Eff. vol.}/\text{max. runoff}]$
= $[14.88 \text{ m}^3/10.41] + [14.88 \text{ m}^3/49.59]$
= 1729 sec
= 28.82 minutes
 - d. Nos. of cycle for pump on/off in one hour
= 60 minutes / 27.30 minutes
= 2.08 times / hour
- (vii) Result
 - c. On/off cycles is less than 10 times in one hour
 - d. Acceptable

Design calculation for storm water pump discharge

3. Discharge from Area **Bay 3**

- (i) Total catchment area = 695 m²
- (ii) Total maximum runoff capacity = 68.54 lit/sec(l/s)
- (iii) Storm water sump pit size = 3930 x 3930 x 2000 D
- (iv) Effective volume of sump pit = 20.56 m³
- (v) Total discharge collected
 - a. Design Maximum runoff capacity = 68.54 lit/sec.
 - b. Selected storm water pump duty = each 40 lit/sec
= 80 lit/sec.(2 duties pump, 1 standby)
- (vi) Time interval for start
 - a. $T = [\text{Eff. vol.}/(\text{select pump duty} - \text{max. runoff})] + [\text{Eff. vol.}/\text{max. runoff}]$
= $[20.56 \text{ m}^3/11.46] + [20.56 \text{ m}^3/68.54]$
= 2094 sec
= 34.90 minutes
 - b. Nos. of cycle for pump on/off in one hour
= 60 minutes / 34.90 minutes
= 1.72 times /hour
- (vii) Result
 - a. On/off cycles is less than 10 times in one hour
 - b. Acceptable

Design calculation for storm water pump discharge

4. Discharge from Area Bay 4

- (i) Total catchment area = 695 m²
- (ii) Total maximum runoff capacity = 67.62 lit/sec(l/s)
- (iii) Storm water sump pit size = 3930 x 3930 x 2000 D
- (iv) Effective volume of sump pit = 20.29 m³
- (v) Total discharge collected
 - a. Design Maximum runoff capacity = 67.62 lit/sec.
 - b. Selected storm water pump duty = each 40 lit/sec
= 80 lit/sec.(2 duties pump, 1 standby)
- (vi) Time interval for start
 - a. $T = [\text{Eff. vol.}/(\text{select pump duty} - \text{max. runoff})] + [\text{Eff. vol.}/\text{max. runoff}]$
= $[20.29 \text{ m}^3/12.38] + [20.29 \text{ m}^3/67.62]$
= 1936 sec
= 32.27 minutes
 - b. Nos. of cycle for pump on/off in one hour
= 60 minutes / 32.27 minutes
= 1.86 times /hour
- (vii) Result
 - a. On/off cycles is less than 10 times in one hour
 - b. Acceptable

Project:

Appendix 4

Proposed Storm water Drain

Fan Kam Road, Pat Heung

Equipment Catalogue

1. Proposed Storm water sump pump

Capacity: @30 l/s @22 m head

2. Diesel Generator

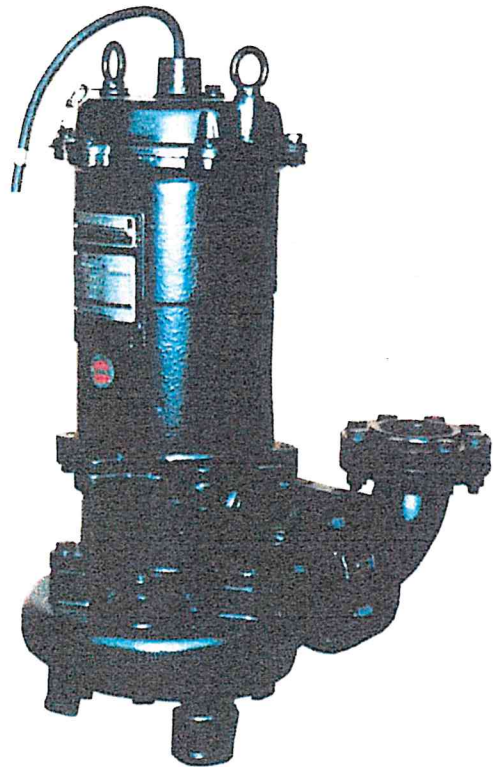
Total Capacity; 200 KW (250 KVA)



Submersible Heavy Duty Solids Handling Pumps

Model SH

*To meet your submersible pump needs
and assure the lowest possible cost
over the life . . .*



Applications:

- Sewage Lift Stations
- Treated Sewage System
- Waste Water Transfer
- Dewatering
- General Industrial Service

ISO 9001 Certificate



EIM ELECTRIC CO.,LTD.

With over 50 years of proven experience in the design and the difficult applications of heavy duty submersible pumps handling sewage, solids, sludge and slurries, EIM has been providing pumping solutions which permit customers to continuously improve pumping system reliability and cost efficient performance. The SH series pumps with non-clogging, single-vane, closed impeller have proven successful operation in the toughest applications handling large solids and stringy material.

General Description

	Standard	Option
Pump	Free Standing Models	Guide Rail System
Discharge Diameter	80, 100 and 150 mm	
Flow and TDH	See performance curves on the back page.	
Impeller	Non-clogging, single-vane, closed impeller	
Max. Solids Size	75 mm sphere	
Max. Submergence	20 m	
Liquid Temperature	-10°C to 40°C	High temperature designs up to 80°C.
Materials		
Impeller/Pump Casing /Suction Cover	Cast Iron	
Hardware	304 Stainless Steel	
Motor		
Configuration	Flange mounted, air-filled submersible vertical AC motor	
Synchronous Speed	1500RPM (50Hz)/1800RPM (60Hz)	
Insulation Class / SF	F / 1.15	Insulation Class H
Voltages / Phase / Hertz	200, 380, 400 Volts / 3 ϕ / 50 Hz 220, 380, 440 Volts / 3 ϕ / 60 Hz	Special voltages in the range of 200-600 Volts
Thermal Protection Device	up to 7.5KW: Bimetallic over current switch 11KW and above: Two normally closed thermostats embedded in windings	
Cable Length	10 m	Extra length cable
Materials		
Motor Housing	Cast Iron	
Motor Shaft	403 Stainless Steel	
Shaft Seals	Double shaft seals [Outer seal (process side)] Silicon Carbide faces (both rotating and stationary faces) [Inner seal (motor side)] Carbon against Ceramic faces	Silicon Carbide faces (both rotating and stationary faces) inner and outer seals and VITON seal elastomers
Bearings	Deep groove ball bearings	
O-Rings	Nitrile Butadiene Rubber (NBR)	VITON O-rings

Available Models

Discharge Diameter (mm)	Model No.		BHP		Discharge Diameter (mm)	Model No.		BHP	
	Free Standing	Guide Rail Svstem	KW	HP		Free Standing	Guide Rail System	KW	HP
80	SH-82E	SH-82B	1.5	2	100	SH-105E	SH-105B	3.7	5
	SH-83E	SH-83B	2.2	3		SH-108DE	SH-108DB	5.5	7.5
	SH-85E	SH-85B	3.7	5		SH-1010DE	SH-1010DB	7.5	10
	SH-88DE	SH-88DB	5.5	7.5		SH-1015DE	SH-1015DB	11	15
	SH-810DE	SH-810DB	7.5	10		SH-1020DE	SH-1020DB	15	20
	SH-815DE	SH-815DB	11	15	150	SH-158DE	SH-158DB	5.5	7.5
	SH-820DE	SH-820DB	15	20		SH-1510DE	SH-1510DB	7.5	10
						SH-1515DE	SH-1515DB	11	15
						SH-1520DE	SH-1520DB	15	20

Features

1 CABLE

Extra hard usage, water-resistant vinyl cable is used for electric cable.

2 CABLE ENTRY

Strain relief rubber bushing integrated with cable sheath at the entry point is tightly compressed to the motor housing cover. In addition, each cable strand at the entry point is formed into a solid conductor for a true non-wicking cable entry. This double sealing system completely prevents water from entering into the motor housing.

3 LIFTING DEVICE

Lifting eye-bolts of 304 stainless steel are of adequate strength to lift the entire pump assembly.

4 MOTOR

An air-filled, induction motor with specially treated class F (155°C) nonhygroscopic insulation and rated with 1.15 service factor is used as standard. The motor housing of heavy duty cast iron is sealed using O-rings.

5 SHAFT

The high quality, one-piece, oversized shaft made of 403 stainless steel is designed so as to lengthen bearing and seal life reducing shaft deflection and vibration.

6 BEARINGS

Both main and support bearings packed with lithium grease for high temperature usage consist of oversized deep groove ball bearings, countering both radial and axial forces.

7 SHAFT SEAL

Double mechanical seal system for maximum resistance to corrosion, abrasion and thermal shock prevents water from penetrating into the oil chamber and the motor housing. The outer seal (process side) uses Silicon Carbide faces (both rotating and stationary faces). Carbon against ceramic faces are used for the inner seal (motor side). In addition, to prevent dust, sand, mud, sludge, slurry, etc. from entering into the seal area, the dust seal is mounted on the outside of the shaft seal, facing to process liquid.

8 OIL CHAMBER

Oil in the oil chamber lubricates and cools the shaft seals and functions as a buffer to prevent water penetration into the motor.

9 PUMP CASING

Owing to the specially designed pump casing with large opening at motor side, motor unit and wet end are easily separated for fast access to impeller and shaft seals. This results in true savings, greatly reducing maintenance and downtime costs.

10 IMPELLER

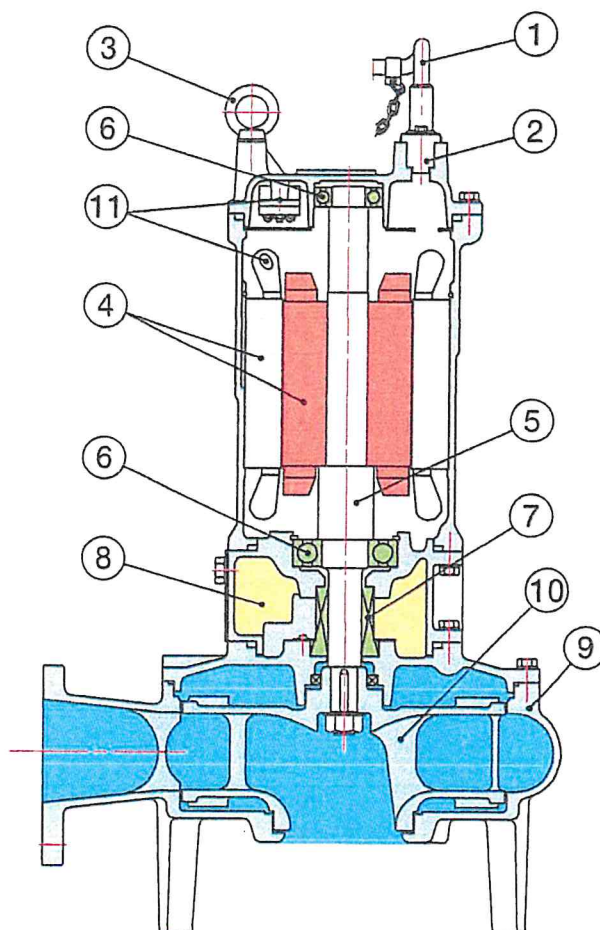
Single-vane, closed impeller with large opening assures passage of large solids and stringy material along with high pump efficiency.

11 THERMAL PROTECTOR

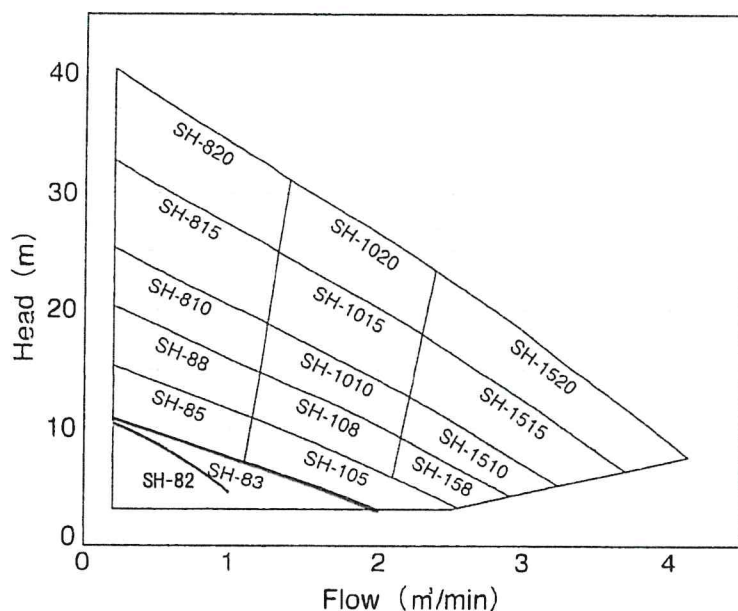
To protect over heating, bimetallic over current switch is built in the motor housing cover (discharge ϕ 80 mm) or two normally closed thermostats are embedded in the motor windings (discharge ϕ 100 mm).

12 HARDWARE

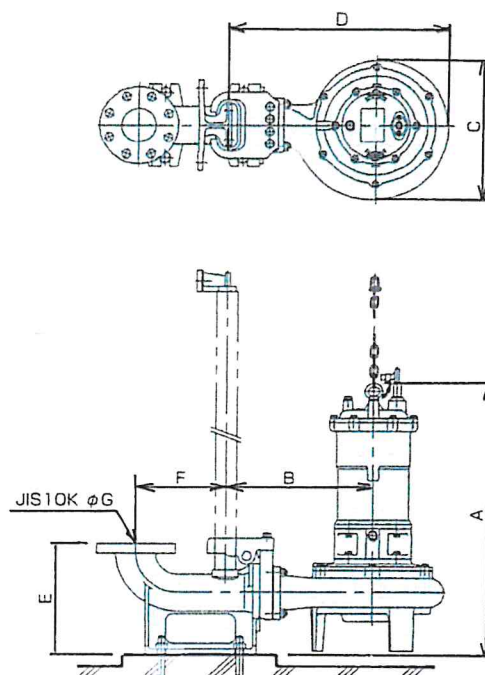
All the external hardware are made of heavy duty 304 stainless steel.



Pump Performance Curves



Dimensions



(All dimensions in mm)

Discharge Diameter	Model	A	B		C		D		E	F	G	w't(kg)	
			50Hz	60Hz	50Hz	60Hz	50Hz	60Hz				Pump	Discharge Elbow
80	SH-82B	675	352	352	335	335	525	525	270	209	80	65	25
	SH-83B	675	352	352	335	335	525	525				65	
	SH-85B	675	352	352	335	335	525	525				75	
	SH-88DB	830	412	352	440	335	635	525				140	
	SH-810DB	830	412	412	440	440	635	635				150	
	SH-815DB	830	412	412	440	440	635	635				160	
	SH-820DB	1090	462	412	530	440	730	635				240	
100	SH-105B	705	352	352	335	335	525	525	325	239	100	75	31
	SH-108DB	860	412	352	440	335	635	525				140	
	SH-1010DB	860	412	412	440	440	635	635				150	
	SH-1015DB	860	412	412	440	440	635	635				160	
	SH-1020DB	1120	462	412	530	440	730	635				240	
150	SH-158DB	930	439	379	440	335	665	555	460	282	150	140	65
	SH-1510DB	930	439	439	440	440	665	665				150	
	SH-1515DB	930	439	439	440	440	665	665				160	
	SH-1520DB	1190	489	439	530	440	760	665				240	

SAFETY PRECAUTIONS



- Before operating our pumps, read the operation manual carefully.
- All the pictures shown in this catalog have been taken after removing all the safety devices legally required, to make the products easier to see.
- Pump and pump installations drawings are only for explanatory and descriptive purposes.

• The designs or specifications of the models in this catalog are subject to change without prior notice due to continual improvement.



EIM ELECTRIC CO.,LTD.

URL <http://www.eimpump.co.jp>

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Phone : +81-47-437-2711 Telefax : +81-47-437-3969
E-mail: overseas@eimpump.co.jp

PCE-2017HK

Printed in Japan March 2009 09-3 1Ya

Estimate No.
Order No.

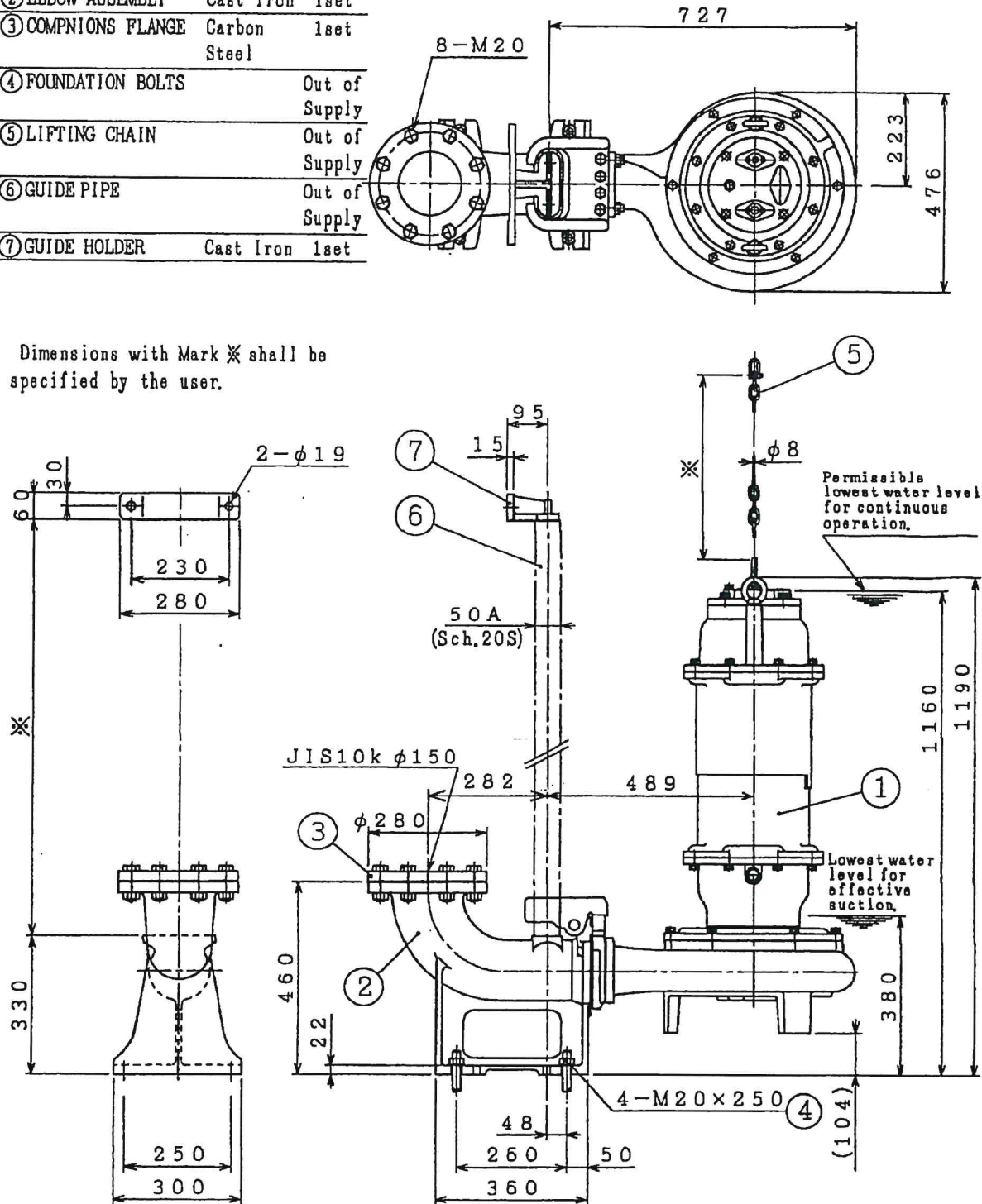
EIM SUBMERSIBLE PUMPS

DIMENSIONAL DRAWING

MODEL: SH-1520DB

Standard

① PUMP		1set
② ELBOW ASSEMBLY	Cast Iron	1set
③ COMPNIONS FLANGE	Carbon Steel	1set
④ FOUNDATION BOLTS	Out of Supply	
⑤ LIFTING CHAIN	Out of Supply	
⑥ GUIDE PIPE	Out of Supply	
⑦ GUIDE HOLDER	Cast Iron	1set



All dimensions in mm

Item No.

EIM ELECTRIC CO., LTD.

DWG.NO.B-T1151132-0

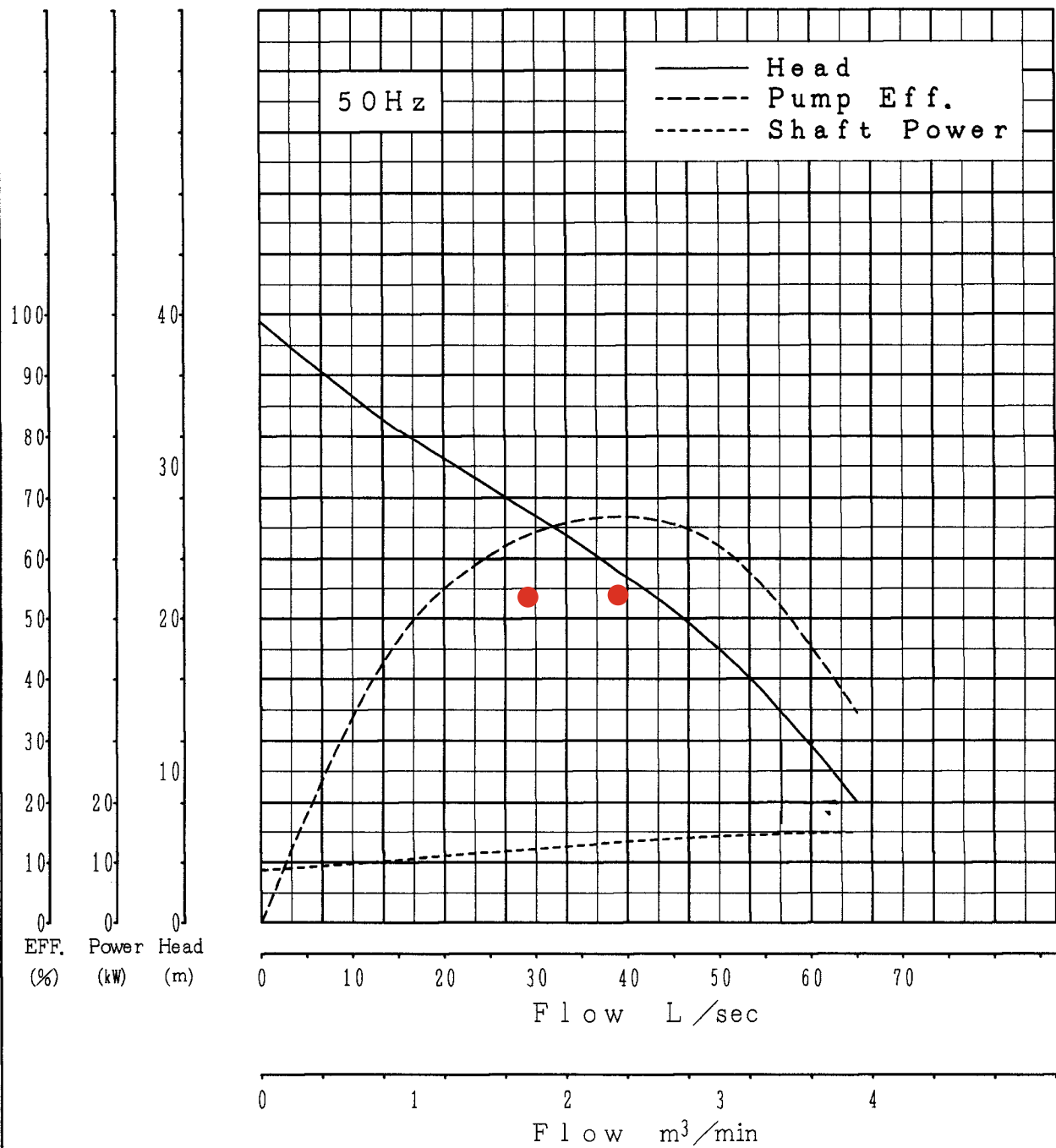
Estimate No.
Order No.

EIM SUBMERSIBLE PUMPS

PERFORMANCE CURVE

MODEL: SH-1520DB

Duty: 30 and 40 L/S x 22 M
Motor: 15 KW x 1450 RPM



Item No.

EIM Electric Co., Ltd.

DWG.NO.PC-T1151132-0

EIM SUBMERSIBLE PUMPS

MODEL: SH-1520DB

Technical drawing of a mechanical assembly, likely a pump or valve, showing a side view and a top view. The side view on the left shows a flange with 8 bolts, labeled "8-M20". The top view on the right shows a circular flange with 12 bolts. Dimensions are given: 727 for the overall width, 223 for the flange thickness, and 476 for the overall height.

[illegible]

Item No.	Description	Quantity	Unit Price	Total
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EIM ELECTRIC CO., LTD.

DWG.NO.B-T1151132-0

EIM SUBMERSIBLE PUMP JOB REFERENCE

LOCATION	MODEL(DRY PIT)	KW	QTY
Tseung Kwan O Swimming Pool	SU5-2015DTBH	11	1
TKO Hospital Expansion	UGAD-85ET(DRY PIT)	3.7	12
	UGAD-810EDT	7.5	4
Lai Chi Kok Swimming Pool	SU2-51B1	0.75	3
	SE-85LTB	3.7	7
North Lantau Hospital Phase 1, Tung Chung - Plumbing	UGAD-83ET (18M) (DRY PIT)	2.2	2
	SH-85B (18M)	3.7	8
Indoor Velodrome-cum-sports Centre in Area 45, TKO	SH-88DB	5.5	8
	SH-815DB	11	6
	SH-810DB	7.5	4
	SL-82BH	1.5	2
HOMANTIN GOVERNMENT OFFICES	SU-82E	1.5	1
CAS TRANING POOLSAI KUNG ,TAI TAN	SE-51G	0.75	2
	SE-83LB	2.2	1
SWIMMING POOL AT CSD RECREATION CLUB LAI CHI LOK	SE-82LTB	1.5	2
JORDEN VALLEY SWIMMING POOL	SU-1530DTB	22	2
	SE-83LTB	2.2	6
HAMMER HILL SWIMMING POOL	SE-83LTB	2.2	5
	SU-1520DTB	15	3
TEXACO RD, TSUN WAN SWIMMING POOL	SU-85TB	3.7	2
	SU-815DTB	11	9
	SU-108DTB	7.5	2

EIM SUBMERSIBLE PUMP JOB REFERENCE

AREA 100, MA ON SHAN SWIMMING POOL COMPLEX		3.7	6
	SU-1535DTB	25	6
LOK KWAN ST. PARK	SU-82B	1.5	2
NORTH POINT GOVERNMENT OFFICE	SE-51E	0.75	8
	SU-82E	1.5	1
BUTTERFLY BEACH LAUNDRY S.T.P.	AK2-10DB	7.5	1
MA PO PING PRISON S.T.P.	SU-158DTB	5.5	2
	SU-2015DTB	11	2
KOWLOON MEDICAL REHABILITATION CENTRE	SU-2015DTB	11	2
	SU-88DTB	5.5	8
HO MAN TIN RECREATION GROUND	SE-82HTB	1.5	4
SO KONG PO SWIMMING POOL	SU-1530DB	22	2
SAI KUNG SWIMMING POOL	SU2-82TB	1.5	2
MAN KAM TO STP	SU2-51TB	0.75	4
	SU2-82TB	1.5	4
	SU2-85TB	3.7	2
	AK2-3TB	2.2	2
	AK2-10DTB	7.5	2

EIM SUBMERSIBLE PUMP JOB REFERENCE

CHI MA WAN PRISON STP	SU2-108DTB	5.5	2
	SU2-51TB	0.75	8
	SU2-82TB	1.5	4
	SU2-83B	2.2	2
	SU-820DTB	15	2
	AK2-10DTB	7.5	4
	AK2-5TB	3.7	2
	AK2-8TB	5.5	2
PIK UK PRISON STP	AK2-10DTB	7.5	2
	AK2-5TB	3.7	4
	AK2-8DTB	5.5	2
	SE-505TB1	0.4	6
	SU2-51TB	0.75	2
	SU2-82TB	1.5	2
	SU-820DTB	15	2
	SU-1010DTB	7.5	2
SHEK WU HUI STP	SL-83BH	2.2	1
	SL-85BH	3.7	2

Certificate of Approval

This is to certify that the Management System of:

EIM ELECTRIC CO., LTD.

10-2-16, Inokuma, Mizumaki-machi, Onga-gun, Fukuoka-ken 807-0001, Japan

has been approved by LRQA to the following standards:

ISO 9001:2015

JIS Q 9001:2015

Approval number(s): ISO 9001 – 0065341

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Design, manufacture, sales and after sales service (repair and installation work) of submersible electric motors, pumps, mixers and slurry pumps.



Yasushi Horikawa

Japan Operations Manager

Issued by: LRQA Limited



Certificate Schedule

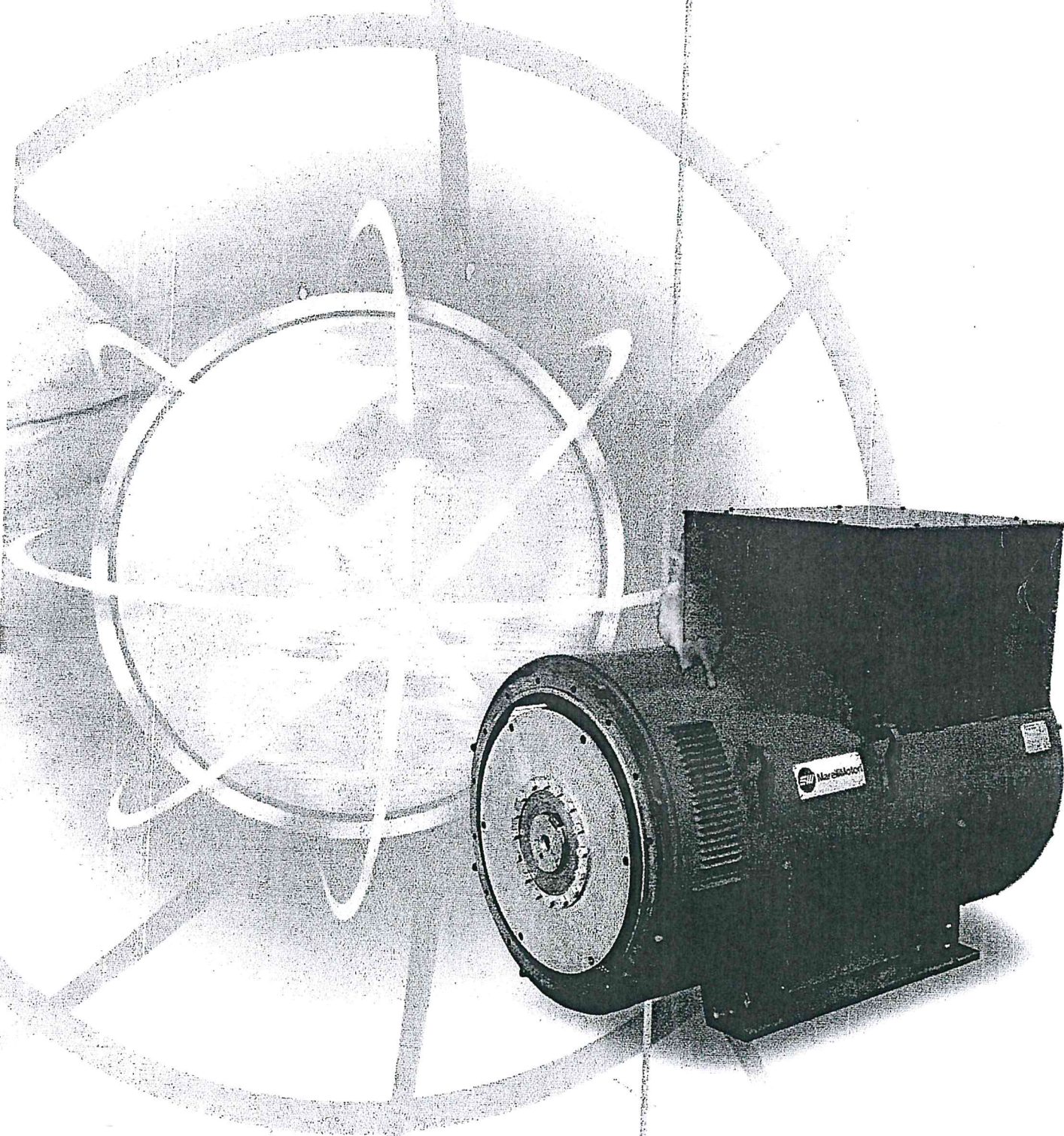
Location	Activities
EIM ELECTRIC CO., LTD. Mizumaki Works 10-2-16, Inokuma, Mizumaki-machi, Onga-gun, Fukuoka-ken 807-0001, Japan	ISO 9001:2015 As main scope.
EIM ELECTRIC CO., LTD. Headquarter 3-4, Kurosakishiroishi, Yahatanishi-ku, Kitakyushu-shi, Fukuoka-ken 806-0004, Japan	ISO 9001:2015 Headquarter.
EIM ELECTRIC CO., LTD. Kyushu Branch 3-4, Kurosakishiroishi, Yahatanishi-ku, Kitakyushu-shi, Fukuoka-ken 806-0004, Japan	ISO 9001:2015 Sales and after sales service (repair and installation work).
EIM ELECTRIC CO., LTD. Tokyo Branch 3-1-2, Kandamisaki-cho, Chiyoda-ku, Tokyo 101-0061, Japan	ISO 9001:2015 Sales.
EIM ELECTRIC CO., LTD. Osaka Branch 4-3-8, Nishi-Nakajima, Yodogawa-ku, Osaka-shi, Osaka-fu 532-0011, Japan	ISO 9001:2015 Sales.



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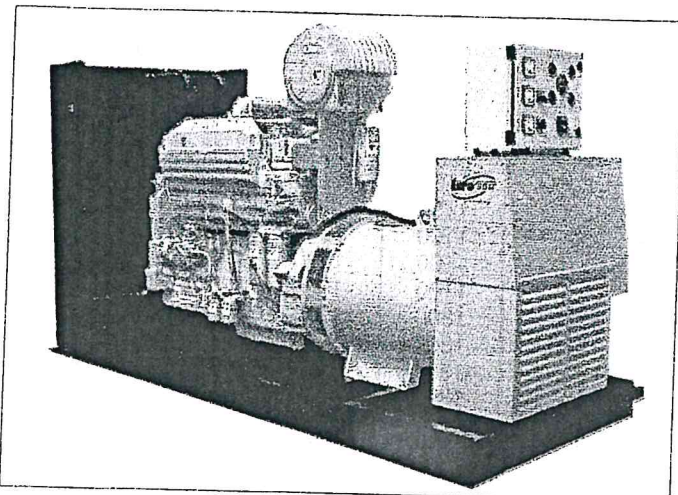
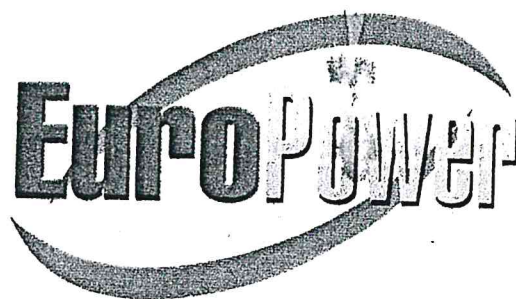
Three Phase Synchronous Generators

M&B - M&H - M&T SERIES
160 - 710 FRAME SIZES



MarelliMotori

Cummins EuroPower Diesel Generator Sets powered by Cummins



EuroPower generator sets offer a wide range of continuous & emergency power suitable for residential, commercial & industrial applications. Our standard genset includes set mounted heavy duty tropicalised radiator c/w protection guards to cool the engine up to 52°C air-on temperature.

All our equipment are warranted against manufacturing defects for a period of 12 months or 1500 operating hours from date of initial start-up, or 18 months from date of shipment, whichever is earlier.

Cummins Engine

- World renowned, heavy duty, 4-stroke, water cooled engine
- Direct fuel injection pump
- Multi-cylinder in-line or vee engine
- Naturally aspirated or turbocharged
- With replaceable air, oil & fuel filters, starter motor, charging alternator
- B, C series are 12V electrical system with mechanical governor. The rest are 24V electrical system with electronic governor

Alternator

- 4-pole, brushless, self exciting, self regulating
- Drip proof, IP21 protection, class H insulation
- Industrial standard, single bearing type
- Self ventilated, screen protected
- Voltage regulation $\pm 1\%$ at any fixed load

Scope of Supply

- Heavy duty steel channel base frame
- Vibration-damping supports between engine/alternator & base frame
- High capacity lead-acid starting batteries
- Heavy duty industrial type silencer & stainless steel flexible exhaust bellow
- Manual start set mounted control panel c/w voltmeter, ammeter, frequency/rpm meter, hour run counter, lube oil pressure gauge, water temperature gauge & safety shutdown protections for low oil pressure, high water temperature & engine overspeed

Optional Supply

- Weatherproof / Soundproof / Super soundproof enclosure
- Mobile trailer
- Remote radiator cooling
- Engine / alternator heaters
- Auto load sharing & synchronising panel
- Auto Start / Auto Mains Failure (AMF) / ATS control panel, circuit breaker

EuroPower Diesel Generator Sets powered by Cummins



1500rpm, 50Hz, 380 - 415V

Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPC38	30	38	34	42	4B3.9G2	1800	700	1450	650	8.0
EPC50	40	50	44	55	4BT3.9G3	1800	700	1450	700	9.6
EPC60	48	60	53	66	4BT3.9G4	1800	700	1450	800	11.3
EPC70	56	70	62	77	4BTA3.9G1	1800	700	1450	850	12.0
EPC85	68	85	75	94	6BT5.9G5	2050	750	1500	950	15.0
EPC100	80	100	88	110	6BT5.9G6	2050	750	1500	1000	18.0
EPC120	96	120	104	130	6BTA5.9G1	2100	750	1500	1100	19.0
EPC135	108	135	118	148	6CT8.3G2	2400	920	1600	1300	23.0
EPC180	144	180	160	200	6CTA8.3G2	2400	920	1600	1400	30.0
EPC200	160	200	176	220	6CTAA8.3G1	2400	920	1600	1500	33.4
EPC230	184	230	200	250	LTA10G2	3000	1100	1750	2300	37.1
EPC250	200	250	220	275	LTA10G3	3000	1100	1750	2400	39.0
EPC312	250	312	280	350	NT855G6	3000	1100	1900	2700	52.0
EPC318	255	318	290	362	NTA855G2	3100	1100	1900	2800	53.0
EPC350	280	350	308	385	NTA855G4	3100	1100	1900	2900	55.4
EPC380	304	380	334	418	KTA19G2	3300	1300	1900	3500	63.0
EPC450	360	450	400	500	KTA19G3	3300	1300	2000	3600	73.0
EPC500	400	500	440	550	KTA19G4	3300	1300	2000	3700	81.0
EPC500	400	500	440	550	QSK15G8	3300	1300	2000	3500	79.0
EPC630	504	630	557	697	VIA28G5	3800	1500	2000	6000	104.0
EPC725	580	725	640	800	QST30G1	4500	1780	2200	6400	116.0
EPC750	600	750	660	825	VTA28G6	3900	1500	2000	6400	110.0
EPC800	640	800	704	880	QST30G2	4500	1780	2200	6600	128.0
EPC900	720	900	800	1000	QST30G3	4600	1880	2300	6800	140.0
EPC1000	800	1000	888	1110	QST30G4	4600	1880	2300	7000	151.0
EPC1000	800	1000	888	1110	KTA38G5	4800	1880	2400	8000	155.0
EPC1275	1020	1275	1120	1400	KTA50G3	5400	1900	2500	10000	200.0
EPC1400	1120	1400	1320	1650	KTA50G8	5600	2000	2500	11000	222.0
EPC1800	1440	1800	1600	2000	QSK60G3	5900	2200	3000	13000	269.0
EPC2000	1600	2000	1760	2200	QSK60G4	5900	2200	3000	14000	295.0

1800rpm, 60Hz, 220 - 480V*

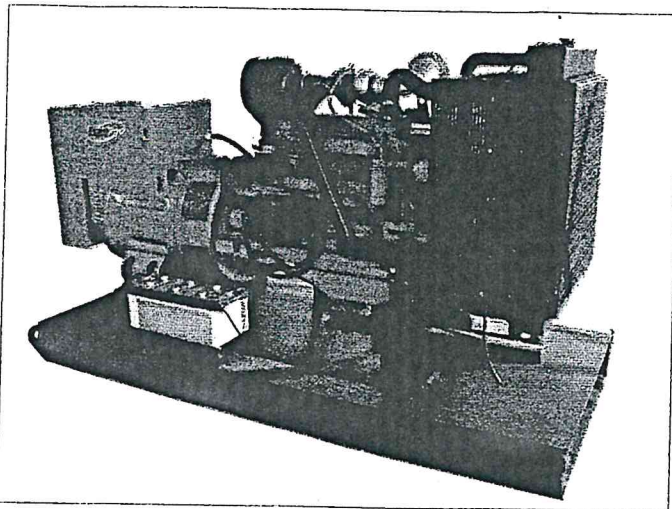
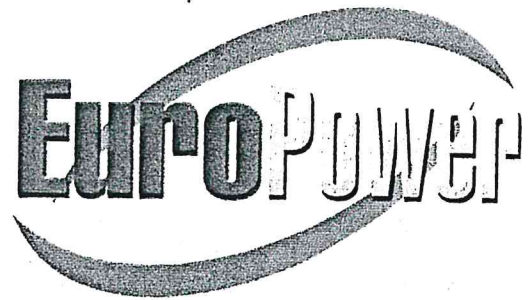
EPC38	36	46	40	50	4B3.9G2	1800	700	1450	650	9.0
EPC50	48	60	54	68	4BT3.9G3	1800	700	1450	700	11.7
EPC60	59	74	65	81	4BT3.9G4	1800	700	1450	800	13.5
EPC70	67	83	73	91	4BTA3.9G2	1800	700	1450	850	14.0
EPC85	80	100	90	112	6BT5.9G5	2050	750	1500	950	18.0
EPC100	100	125	110	137	6BT5.9G6	2050	750	1500	1000	21.0
EPC120	104	130	117	146	6BTA5.9G1	2100	750	1500	1100	22.0
EPC135	120	150	135	168	6CT8.3G2	2400	920	1600	1300	28.0
EPC180	165	206	184	230	6CTA8.3G2	2400	920	1600	1400	35.0
EPC200	184	230	200	250	6CTAA8.3G1	2400	920	1600	1500	37.8
EPC230	200	250	220	275	LTA10G2	3000	1100	1750	2300	43.1
EPC250	225	281	250	312	LTA10G1	3000	1100	1750	2400	46.0
EPC312	260	325	288	360	NT855G6	3000	1100	1900	2700	56.0
EPC318	277	346	300	375	NTA855G2	3100	1100	1900	2800	61.0
EPC350	320	400	350	438	NTA855G3	3100	1100	1900	2900	66.0
EPC380	350	437	400	500	KTA19G2	3300	1300	1900	3500	76.0
EPC450	400	500	445	557	KTA19G3	3300	1300	2000	3600	86.0
EPC500	440	550	500	625	KTA19G4	3300	1300	2000	3700	91.0
EPC500	440	550	500	625	QSK15G9	3300	1300	2000	3500	87.0
EPC630	540	675	600	750	VTA28G5	3800	1600	2000	5500	118.0
EPC725	690	862	760	950	QST30G1	4500	1780	2200	6400	137.0
EPC800	729	911	800	1000	QST30G2	4500	1780	2200	6600	145.0
EPC900	800	1000	900	1125	QST30G3	4600	1880	2300	7000	154.0
EPC1000	917	1146	1015	1269	QST30G4	4600	1880	2300	7000	177.0
EPC1000	922	1153	1022	1278	KTA38G4	4800	1880	2400	8000	180.0
EPC1275	1135	1418	1288	1610	KTA50G3	5400	1900	2500	10000	222.0
EPC1400	1295	1619	1500	1875	KTA50G9	5600	2000	2500	11000	257.0
EPC1800	1600	2000	1760	2200	QSK60G5	5900	2200	3000	13000	310.0
EPC2000	1836	2296	2033	2542	QSK60G6	5900	2200	3000	14000	360.0

Ratings based on ISO3046, BS5514, DIN 6271, $\pm 5\%$ tolerance. Standard reference conditions: air inlet temperature 27°C, altitude 100m asl, fuel weight 0.85kg/l, fuel consumption @75% prime load. **Prime rating:** Continuous running at variable load. No limit to the annual hours of operation. 10% overload capability for 1 hour in any 12 hours. **Standby rating:** Emergency power at variable load in the event of utility power failure. No overload is permitted. *Deration may be necessary at certain voltages.

Due to continually improved products, we reserve the right to make changes in model technical specifications without notice.



EuroPower Diesel Generator Sets powered by John Deere



EuroPower generator sets offer a wide range of continuous & emergency power suitable for residential, commercial & industrial applications. Our standard genset includes set mounted heavy duty tropicalised radiator c/w protection guards to cool the engine up to 52°C air-on temperature.

All our equipment are warranted against manufacturing defects for a period of 12 months or 1500 operating hours from date of initial start-up, or 18 months from date of shipment, whichever is earlier.

John Deere Engine

- Reliable, low maintenance, water cooled engine
- Quick starting & smooth running
- 3, 4 or 6 in-line
- Naturally aspirated or turbocharged
- With replaceable air, oil & fuel filters, starter motor, charging alternator
- 24V electrical system. 6125 series with electronic control (ECU)

Alternator

- 4-pole, brushless, self exciting, self regulating
- Drip proof, IP21 protection, class H insulation
- Industrial standard, single bearing type
- Self ventilated, screen protected
- Voltage regulation $\pm 1\%$ at any fixed load

Scope of Supply

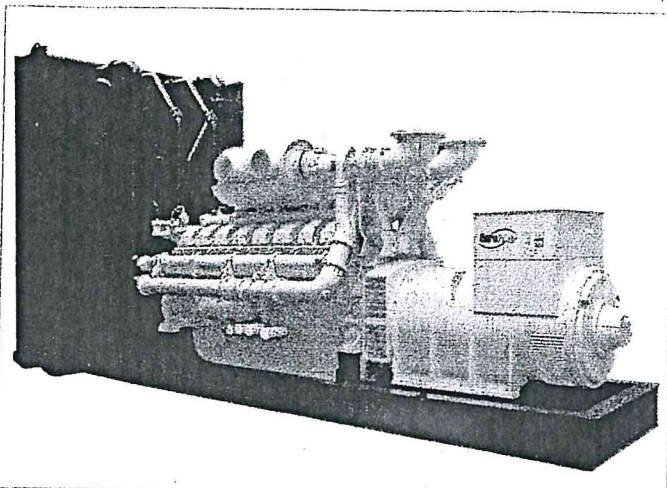
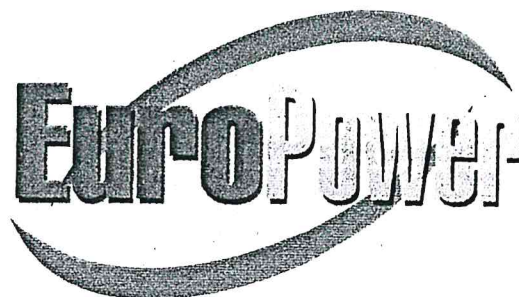
- Heavy duty steel channel base frame
- Vibration-damping supports between engine/alternator & base frame
- High capacity lead-acid starting batteries
- Heavy duty industrial type silencer & stainless steel flexible exhaust bellow
- Manual start set mounted control panel c/w voltmeter, ammeter, frequency/rpm meter, hour run counter, lube oil pressure gauge, water temperature gauge & safety shutdown protections for low oil pressure, high water temperature & engine overspeed

Optional Supply

- Weatherproof / Soundproof / Super soundproof enclosure
- Mobile trailer
- Remote radiator cooling
- Engine / alternator heaters
- Auto load sharing & synchronising panel
- Auto Start / Auto Mains Failure (AMF) / ATS control panel, circuit breaker

Your local EuroPower genset distributor

EuroPower Diesel Generator Sets powered by Perkins



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Perkins Engine

- Proven, dependable, fuel efficient combustion system
- Rugged strength, comprehensive engine range
- Improved load acceptance capability
- Multi-cylinder, 4-stroke, water cooled
- Operator & environment friendly
- EPP150 & above with 24V electrical system. EPP135 & above with electronic governor

Alternator

- 4-pole, brushless, self exciting, self regulating
- Drip proof, IP21 protection, class H insulation
- Industrial standard, single bearing type
- Self ventilated, screen protected
- Voltage regulation $\pm 1\%$ at any fixed load

Scope of Supply

- Heavy duty steel channel base frame
- Vibration-damping supports between engine/alternator & base frame
- High capacity lead-acid starting batteries
- Heavy duty industrial type silencer & stainless steel flexible exhaust bellow
- Manual start set mounted control panel c/w voltmeter, ammeter, frequency/rpm meter, hour run counter, lube oil pressure gauge, water temperature gauge & safety shutdown protections for low oil pressure, high water temperature & engine overspeed

Optional Supply

- Weatherproof / Soundproof / Super soundproof enclosure
- Mobile trailer
- Remote radiator cooling
- Engine / alternator heaters
- Auto load sharing & synchronising panel
- Auto Start / Auto Mains Failure (AMF) / ATS control panel, circuit breaker

EuroPower Diesel Generator Sets powered by Perkins



1500rpm, 50Hz, 380 - 415V

Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPP9	7	9	8	10	403C-11G	1200	700	1100	300	2.0
EPP13	10	13	12	15	403C-15G	1300	700	1100	400	2.8
EPP20	16	20	18	23	404C-22G	1300	700	1200	500	4.0
EPP27	22	27	24	30	3.1524	1800	710	1250	700	5.0
EPP45	36	45	40	50	1004G	2000	750	1250	950	8.3
EPP65	52	65	57	72	1004TG1	2000	750	1350	980	10.9
EPP75	60	75	66	83	1004TG2	2000	750	1350	1000	13.3
EPP90	72	90	80	100	1006TG1A	2400	750	1450	1300	15.7
EPP100	80	100	88	110	1006TG2A	2400	750	1450	1350	17.2
EPP135	108	135	120	150	1006TAG	2400	750	1450	1800	24.0
EPP150	120	150	132	165	1306-E87TG1	2850	950	1700	2200	26.0
EPP175	140	175	154	192	1306-E87TAG1	2850	950	1700	2350	29.5
EPP200	160	200	176	220	1306-E87TAG3	2850	950	1700	2400	32.0
EPP225	180	225	198	248	1306-E87TAG4	2850	950	1700	2400	35.0
EPP235	188	235	207	259	1306-E87TAG5	2850	950	1700	2400	36.6
EPP250	200	250	220	275	1306-E87TAG6	2850	950	1700	2450	40.0
EPP300	240	300	264	330	2306C-E14TAG1	3400	1380	1730	3300	46.9
EPP350	280	350	308	385	2306C-E14TAG2	3400	1380	1730	3500	54.3
EPP400	320	400	352	440	2306C-E14TAG3	3400	1380	1730	3600	65.4
EPP450	360	450	396	495	2806C-E16TAG1	3400	1380	2000	4000	74.0
EPP500	400	500	440	550	2806C-E16TAG2	3400	1380	2000	4200	81.0
EPP650	520	650	580	725	4006C-23TAG1A	3500	1400	2100	5000	103.0
EPP730	584	730	640	800	4006C-23TAG2A	3500	1400	2100	5200	116.0
EPP800	640	800	720	900	4006C-23TAG3A	3500	1400	2100	5400	127.0
EPP900	720	900	792	990	4008TAG1	5000	2100	2220	7100	150.0
EPP1000	800	1000	880	1100	4008TAG2	5100	2100	2220	7300	166.0
EPP1270	1016	1270	1120	1400	4012TAG/TWG2	5300	2150	2250	9400	200.0
EPP1350	1080	1350	1200	1500	4012TAG1	5300	2150	2250	9500	217.0
EPP1500	1200	1500	1320	1650	4012TAG2	5300	2150	2250	9700	237.0
EPP1750	1400	1750	1540	1925	4016TAG	6700	2750	3500	13200	277.0
EPP1845	1476	1845	1622	2028	4016TAG1	6700	2800	3500	13300	290.0
EPP2000	1600	2000	1760	2200	4016TAG2	6700	2800	3500	13800	329.0

1800rpm, 60Hz, 220 - 480V*

EPP9	9	11	10	13	403C-11G	1200	700	1100	300	2.4
ERP13	13	16	14	18	403C-15G	1300	700	1100	400	3.3
EPP20	19	24	20	25	404C-22G	1300	700	1200	500	4.8
EPP27	24	30	27	34	3.1524	1750	710	1250	700	6.2
EPP45	40	50	45	56	1004G	2000	750	1250	950	9.5
EPP65	57	71	62	77	1004TG1	2000	750	1350	980	13.2
EPP75	61	78	68	83	1004TG2	2000	750	1350	1000	15.7
EPP90	87	109	96	120	1006TG1A	2400	750	1450	1300	19.8
EPP100	97	121	106	133	1006TG2A	2400	750	1450	1350	21.5
EPP135	120	150	132	165	1006TAG	2400	750	1450	1800	26.0
EPP150	139	174	154	192	1306-E87TG1	2850	950	1700	2200	30.5
EPP175	151	189	166	207	1306-E87TAG1	2850	950	1700	2300	33.6
EPP190	164	205	178	223	1306-E87TAG2	2850	950	1700	2350	36.9
EPP200	185	231	200	250	1306-E87TAG3	2850	950	1700	2400	38.4
EPP225	196	245	216	270	1306-E87TAG4	2850	950	1700	2400	42.0
EPP300	275	344	300	375	2306C-E14TAG1	3400	1380	1730	3300	58.0
EPP350	320	400	350	438	2306C-E14TAG2	3400	1380	1730	3500	63.3
EPP400	350	438	400	500	2306C-E14TAG3	3400	1380	1730	3600	75.9
EPP450	460	575	500	625	2806C-E16TAG1	3400	1380	2100	4000	89.0
EPP500	500	625	560	700	2806C-E16TAG2	3400	1380	2150	4200	96.0
EPP650	540	675	600	750	4006C-23TAG1A	3500	1400	2100	5000	116.0
EPP730	600	750	675	844	4006C-23TAG2A	3500	1400	2100	5200	120.0
EPP800	675	844	750	938	4006C-23TAG3A	3500	1400	2100	5400	143.0
EPP900	704	880	788	975	4008TAG1	5000	2100	2220	7100	140.0
EPP1000	796	995	878	1098	4008TAG2	5100	2100	2220	7300	154.5
EPP1270	992	1240	1100	1375	4012TWG2	5300	2150	2250	9400	201.0
EPP1350	1090	1363	1200	1500	4012TAG1	5300	2150	2250	9500	221.0
EPP1500	1200	1500	1325	1656	4012TAG2	5300	2150	2250	9700	249.0

Ratings based on ISO3046, BS5514, DIN 6271, $\pm 5\%$ tolerance. Standard reference conditions: air inlet temperature 27°C, altitude 100m asl, fuel weight 0.85kg/l, fuel consumption @75% prime load. **Prime rating:** Continuous running at variable load. No limit to the annual hours of operation. 10% overload capability for 1 hour in any 12 hours. **Standby rating:** Emergency power at variable load in the event of utility power failure. No overload is permitted. *Deration may be necessary at certain voltages.

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EuroPower Diesel Generator Sets powered by John Deere



1500rpm, 50Hz, 380 - 415V

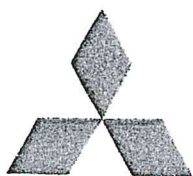
Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPJ25	20	25	22	28	3029TF158	1600	800	1300	650	4.0
EPJ40	32	40	35	44	3029TF158	1600	800	1300	800	6.0
EPJ60	48	60	53	66	4039TF008	2300	1000	1300	900	11.0
EPJ80	64	80	70	88	4045TF258	2300	1000	1300	1000	14.5
EPJ100	80	100	88	110	6068TF158	2300	1000	1500	1200	17.0
EPJ120	96	120	106	132	6068TF258	2300	1000	1500	1300	20.0
EPJ150	120	150	132	165	6068HF158	2600	1000	1500	1450	25.5
EPJ180	144	180	160	200	6068HF258	2600	1000	1500	1500	30.0
EPJ200	160	200	176	220	6081HF001A	3000	1300	1600	1600	33.0
EPJ250	200	250	220	275	6081HF001B	3000	1300	1600	1850	41.0
EPJ300	240	300	264	330	6125HF070A	3000	1300	1700	2400	47.0
EPJ350	280	350	308	385	6125HF070B	3000	1300	1700	2500	55.0
EPJ380	304	380	336	420	6125HF070C	3000	1300	1700	2600	60.0

1800rpm, 60Hz, 220 - 480V*

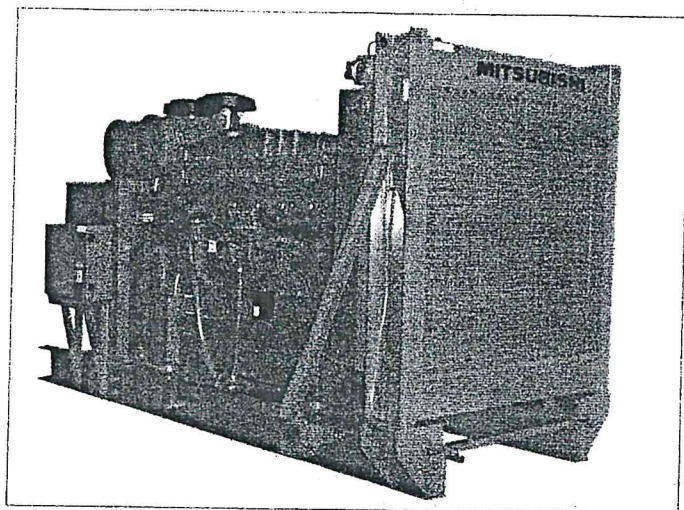
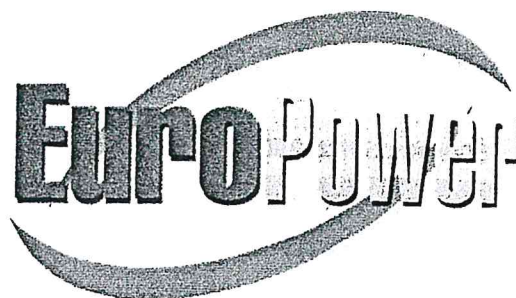
Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPJ25	28	35	30	38	3029TF158	1600	800	1300	650	5.0
EPJ40	36	45	40	50	3029TF158	1600	800	1300	800	7.2
EPJ60	60	75	65	82	4039TF008	2300	1000	1300	900	13.6
EPJ80	72	90	80	100	4045TF258	2300	1000	1300	1000	15.8
EPJ100	96	120	105	131	6068TF158	2300	1000	1500	1200	23.6
EPJ120	110	138	125	156	6068TF258	2300	1000	1500	1300	24.0
EPJ150	150	188	165	206	6068HF158	2600	1000	1500	1450	26.3
EPJ180	160	200	180	225	6068HF258	2600	1000	1500	1500	30.0
EPJ200	190	238	220	275	6081HF001A	3000	1300	1600	1600	33.0
EPJ250	228	285	250	313	6081HF001B	3000	1300	1600	1850	39.2
EPJ300	260	325	285	356	6125HF070A	3000	1300	1700	2400	56.0
EPJ350	285	356	315	394	6125HF070B	3000	1300	1700	2500	61.5
EPJ380	320	400	360	450	6125HF070C	3000	1300	1700	2600	72.5
EPJ400	320	400	400	500	6125HF070C	3000	1300	1700	2700	72.5

Ratings based on ISO3046, BS5514, DIN 6271, $\pm 5\%$ tolerance. Standard reference conditions: air inlet temperature 27°C, altitude 100m asl, fuel weight 0.85kg/l, fuel consumption @75% prime load. **Prime rating:** Continuous running at variable load. No limit to the annual hours of operation. 10% overload capability for 1 hour in any 12 hours. **Standby rating:** Emergency power at variable load in the event of utility power failure. No overload is permitted. *Deration may be necessary at certain voltages.

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EuroPower Diesel Generator Sets powered by Mitsubishi



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Mitsubishi Engine

- Advance design, low maintenance, durable
 - Direct fuel injection pump
 - High power to weight ratio
 - Multi-cylinder in-line 4, 6 up to vee 12, 16
 - Naturally aspirated or turbocharged
 - 12/24V electrical system.
- Mechanical/hydraulic/electronic governor

Alternator

- 4-pole, brushless, self exciting, self regulating
- Drip proof, IP21 protection, class H insulation
- Industrial standard, single bearing type
- Self ventilated, screen protected
- Voltage regulation $\pm 1\%$ at any fixed load

Scope of Supply

- Heavy duty steel channel base frame
- Vibration-damping supports between engine/alternator & base frame
- High capacity lead-acid starting batteries
- Heavy duty industrial type silencer & stainless steel flexible exhaust bellow
- Manual start set mounted control panel c/w voltmeter, ammeter, frequency/rpm meter, hour run counter, lube oil pressure gauge, water temperature gauge & safety shutdown protections for low oil pressure, high water temperature & engine overspeed

Optional Supply

- Weatherproof / Soundproof / Super soundproof enclosure
- Mobile trailer
- Remote radiator cooling
- Engine / alternator heaters
- Auto load sharing & synchronising panel
- Auto Start / Auto Mains Failure (AMF) / ATS control panel, circuit breaker

Your local EuroPower genset distributor

EuroPower Diesel Generator Sets powered by Mitsubishi



1500rpm, 50Hz, 380 - 415V

Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPMIT20	16	20	18	22	S4Q2	1480	650	860	400	4.3
EPMIT40	32	40	34	43	S4S-T	1650	720	1100	650	7.0
EPMIT50	40	50	44	55	S4K-T	1800	820	1120	800	10.3
EPMIT70	56	70	62	77	S6K-T	2060	820	1170	1100	12.5
EPMIT85	68	85	75	94	S6K-T	2060	820	1170	1100	15.3
EPMIT118	94	118	100	125	6D16-T	2360	820	1300	1400	22.0
EPMIT200	160	200	-	-	6D22-TC	2780	1090	1400	2150	35.0
EPMIT250	200	250	220	275	S6B-PTA	2780	1180	1560	2500	44.0
EPMIT300	240	300	252	315	S6B-PTA2	2900	1180	1560	2600	50.0
EPMIT375	300	375	330	413	S6B3-PTA	3000	1400	1700	2900	61.0
EPMIT450	360	450	400	500	S6A3-PTA	3000	1480	1900	3700	74.0
EPMIT500	400	500	440	550	S6A3-PTAA	3300	1600	1900	4000	82.0
EPMIT600	480	600	525	656	S6R-PTA	3500	1600	2000	5400	94.0
EPMIT650	520	650	600	750	S6R2-PTA	3800	1600	2000	5500	104.0
EPMIT750	600	750	660	825	S6R2-PTAA	4000	1800	2000	5700	123.0
EPMIT750	600	750	680	850	S12A2-PTA	4000	1800	2000	6500	119.0
EPMIT1000	800	1000	840	1050	S12H-PTA	4300	1800	2450	8100	168.0
EPMIT1275	1020	1275	1120	1400	S12R-PTA	4700	2300	2450	10900	202.0
EPMIT1375	1100	1375	1224	1530	S12R-PTA2	4950	2300	2900	11000	224.0
EPMIT1500	1200	1500	1320	1650	S12R-PTAA2	5100	2300	3050	13000	240.0
EPMIT1735	1388	1735	1520	1900	S16R-PTA	5550	2750	3050	13300	270.0
EPMIT1900	1520	1900	1680	2100	S16R-PTA2	5650	2750	3050	14000	301.0
EPMIT2000	1600	2000	1800	2250	S16R-PTAA2	6000	2750	3500	16000	321.0

1800rpm, 60Hz, 220 - 480V*

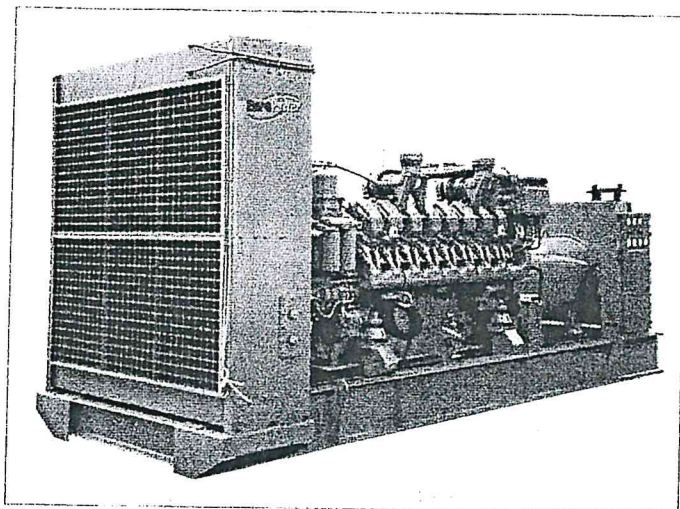
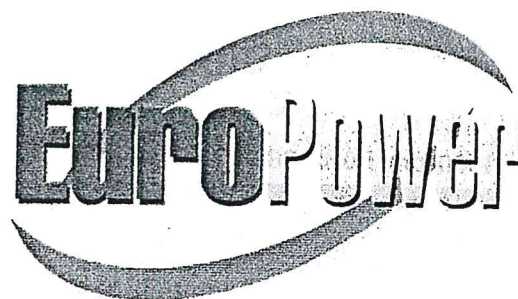
Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPMIT20	20	25	22	28	S4Q2	1480	650	860	400	5.3
EPMIT40	37	46	40	50	S4S-T	1650	720	1100	650	8.3
EPMIT50	50	63	55	69	S4K-T	1800	820	1120	800	11.5
EPMIT85	78	98	85	106	S6K-T	2060	820	1170	1100	17.5
EPMIT118	110	138	120	150	6D16-T	2400	820	1300	1400	26.0
EPMIT180	170	213	184	230	6D22-T	2780	1090	1400	2100	40.0
EPMIT200	185	231	200	250	6D22-TC	2780	1090	1400	2150	43.0
EPMIT250	240	300	265	331	S6B-PTA	2780	1180	1560	2500	50.0
EPMIT300	275	344	300	375	S6B-PTA2	2900	1180	1560	2600	57.0
EPMIT375	336	420	372	465	S6B3-PTA	3000	1400	1700	2900	69.0
EPMIT450	400	500	460	575	S6A3-PTA	3000	1480	1900	3700	81.0
EPMIT500	428	535	480	600	S6A3-PTAA	3300	1600	1900	3800	91.0
EPMIT600	545	681	600	750	S6R-PTA	3500	1600	2000	5400	112.0
EPMIT750	672	840	700	875	S12A2-PTA	4050	1750	2000	6300	137.0
EPMIT800	700	875	800	1000	S12A2-PTA	4050	1750	2000	6500	143.0
EPMIT1000	896	1120	920	1150	S12H-PTA	4300	1800	2500	8000	181.5
EPMIT1100	932	1165	1000	1250	S12H-PTA	4300	1800	2500	8100	189.0
EPMIT1275	1100	1357	1200	1500	S12R-PTA	4700	2250	2500	11000	227.0
EPMIT1375	1236	1545	1380	1725	S12R-PTA2	5000	2250	2900	11000	252.0
EPMIT1500	1304	1630	1500	1875	S12R-PTAA2	5100	2250	3060	13000	276.0
EPMIT1735	1476	1845	1625	2031	S16R-PTA	5600	2750	3050	13500	295.0
EPMIT1900	1660	2075	1800	2250	S16R-PTA2	5650	2750	3050	14000	329.0
EPMIT2000	1800	2250	2000	2500	S16R-PTAA2	6000	2750	3500	16000	365.0

Ratings based on ISO3046, BS5514, DIN 6271, $\pm 5\%$ tolerance. Standard reference conditions: air inlet temperature 27°C, altitude 100m asl, fuel weight 0.85kg/l, fuel consumption @75% prime load. **Prime rating:** Continuous running at variable load. No limit to the annual hours of operation. 10% overload capability for 1 hour in any 12 hours. **Standby rating:** Emergency power at variable load in the event of utility power failure. No overload is permitted. *Deration may be necessary at certain voltages.

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EuroPower Diesel Generator Sets powered by MTU



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MTU Engine

- Advance technology, environment friendly
- Heavy duty, 4-stroke, water cooled
- Naturally aspirated or turbocharged
- Multi-cylinder in-line 6 up to vee 20
- 183 series with mechanical governor. 2000 & 4000 series with electronic governor
- 24V electrical system. 4000 series with remote radiator

Alternator

- 4-pole, brushless, self exciting, self regulating
- Drip proof, IP21 protection, class H insulation
- Industrial standard, single bearing type
- Self ventilated, screen protected
- Voltage regulation $\pm 1\%$ at any fixed load

Scope of Supply

- Heavy duty steel channel base frame
- Vibration-damping supports between engine/alternator & base frame
- High capacity lead-acid starting batteries
- Heavy duty industrial type silencer & stainless steel flexible exhaust bellow
- Manual start set mounted control panel c/w voltmeter, ammeter, frequency/rpm meter, hour run counter, lube oil pressure gauge, water temperature gauge & safety shutdown protections for low oil pressure, high water temperature & engine overspeed

Optional Supply

- Weatherproof / Soundproof / Super soundproof enclosure
- Mobile trailer
- Remote radiator cooling
- Engine / alternator heaters
- Auto load sharing & synchronising panel
- Auto Start / Auto Mains Failure (AMF) / ATS control panel, circuit breaker

Your local EuroPower genset distributor

EuroPower Diesel Generator Sets powered by MTU



1500rpm, 50Hz, 380 - 415V

Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPMTU140	112	140	123	154	6R183AA32	2600	1000	1470	1950	24.0
EPMTU200	160	200	176	220	6R183TA32	2600	1000	1470	2170	32.9
EPMTU250	200	250	220	275	8V183TA32	3000	1300	1500	2470	43.0
EPMTU285	228	285	252	315	8V183TE32	3000	1300	1600	2700	45.2
EPMTU400	320	400	352	440	12V183TA32	3300	1500	1650	3200	65.4
EPMTU450	360	450	400	500	12V183TE32	3300	1500	1650	3400	71.0
EPMTU500	400	500	440	550	12V183TB32	3700	1600	1750	3600	77.8
EPMTU550	440	550	480	600	12V183TB32L	3700	1600	1750	4300	87.0
EPMTU600	480	600	528	660	12V2000G22	4050	1600	1950	4400	90.0
EPMTU650	520	650	576	720	12V2000G22	4050	1600	1950	4800	97.0
EPMTU720	576	720	628	785	12V2000G62	4050	1600	1950	4900	107.5
EPMTU830	664	830	740	925	16V2000G22	4400	1800	2300	5000	128.0
EPMTU925	740	925	824	1030	16V2000G62	4400	1800	2300	5800	137.0
EPMTU1000	800	1000	880	1100	18V2000G62	5000	2000	2400	6000	154.8
EPMTU1400	1120	1400	1232	1540	12V4000G20	5800	2100	2450	8000	214.0
EPMTU1540	1232	1540	1360	1700	12V4000G60	6000	2200	2450	10700	230.0
EPMTU1850	1480	1850	1600	2000	16V4000G20	6000	2200	2750	11300	281.0
EPMTU2000	1600	2000	1760	2200	16V4000G60	6050	2200	2750	15500	298.0
EPMTU2500	2000	2500	2200	2750	20V4000G22	8500	3400	2850	19500	380.0
EPMTU2800	2240	2800	2464	3080	20V4000G62	8500	3500	2850	19800	415.3

1800rpm, 60Hz, 220 - 480V*

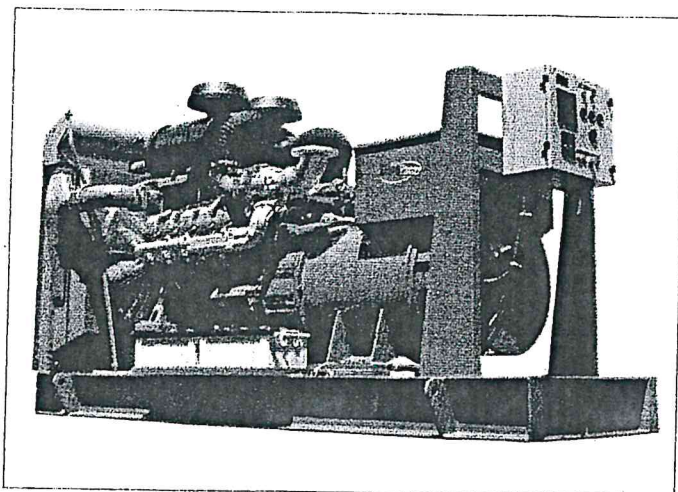
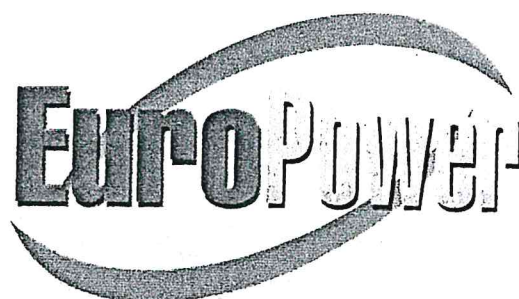
Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPMTU140	135	169	140	175	6R183AA32	2600	1000	1470	1950	29.2
EPMTU200	175	219	190	238	6R183TA32	2600	1000	1470	2170	30.8
EPMTU250	215	269	240	300	8V183TA32	3000	1300	1500	2470	37.8
EPMTU285	250	313	280	350	8V183TE32	3000	1300	1500	2500	54.1
EPMTU400	335	419	375	469	12V183TA32	3300	1500	1650	3200	71.5
EPMTU450	400	500	450	563	12V183TE32	3300	1500	1650	3400	77.0
EPMTU500	470	588	520	650	12V183TB32	3700	1600	1750	3600	93.0
EPMTU550	-	-	530	663	12V183TB32L	3700	1600	1750	4300	95.0
EPMTU650	-	-	670	838	12V2000G42	4050	1600	1950	4400	120.0
EPMTU720	630	788	760	950	12V2000G82	4050	1600	1950	4900	122.0
EPMTU830	-	-	920	1150	16V2000G42	4400	1800	2300	5000	160.0
EPMTU925	850	1063	1020	1275	16V2000G82	4400	1800	2300	5800	163.2
EPMTU1000	950	1188	1140	1425	18V2000G82	5000	2000	2400	6000	183.0
EPMTU1400	-	-	1400	1750	12V4000G40	5800	2100	2450	8000	238.0
EPMTU1540	1400	1750	1500	1875	12V4000G80	6000	2200	2450	10700	262.0
EPMTU1850	-	-	1850	2313	16V4000G40	6000	2200	2750	11300	310.5
EPMTU2000	1850	2313	2000	2500	16V4000G80	6000	2200	2750	15500	342.0
EPMTU2500	2300	2875	2500	3125	20V4000G42	8500	3400	2850	19500	423.4
EPMTU2800	2500	3125	2800	3500	20V4000G82	8500	3500	2850	19800	495.0

Ratings based on ISO3046, BS5514, DIN 6271, $\pm 5\%$ tolerance. Standard reference conditions: air inlet temperature 27°C, altitude 100m asl, fuel weight 0.85kg/l, fuel consumption @75% prime load. **Prime rating:** Continuous running at variable load. No limit to the annual hours of operation. 10% overload capability for 1 hour in any 12 hours. **Standby rating:** Emergency power at variable load in the event of utility power failure. No overload is permitted. *Deration may be necessary at certain voltages.

Due to continually improved products, we reserve the right to make changes in model, technical specs, colour, etc without prior notice



EuroPower Diesel Generator Sets powered by MAN



EuroPower generator sets offer a wide range of continuous & emergency power suitable for residential, commercial & industrial applications. Our standard genset includes set mounted heavy duty tropicalised radiator c/w protection guards to cool the engine up to 52°C air-on temperature.

All our equipment are warranted against manufacturing defects for a period of 12 months or 1500 operating hours from date of initial start-up, or 18 months from date of shipment, whichever is earlier.

MAN Engine

- Environment friendly, low pollutant emission
- Compact & robust design, durable
- Water cooled, 4-stroke with either 6 in-line, V8, V10 or V12
- Direct fuel injection, turbocharging & intercooling
- Maintenance free Bosch in-line injection pump
- 24V electrical system with electronic governor

Alternator

- 4-pole, brushless, self exciting, self regulating
- Drip proof, IP21 protection, class H insulation
- Industrial standard, single bearing type
- Self ventilated, screen protected
- Voltage regulation $\pm 1\%$ at any fixed load

Scope of Supply

- Heavy duty steel channel base frame
- Vibration-damping supports between engine/alternator & base frame
- High capacity lead-acid starting batteries
- Heavy duty industrial type silencer & stainless steel flexible exhaust bellow
- Manual start set mounted control panel c/w voltmeter, ammeter, frequency/rpm meter, hour run counter, lube oil pressure gauge, water temperature gauge & safety shutdown protections for low oil pressure, high water temperature & engine overspeed

Optional Supply

- Weatherproof / Soundproof / Super soundproof enclosure
- Mobile trailer
- Remote radiator cooling
- Engine / alternator heaters
- Auto load sharing & synchronising panel
- Auto Start / Auto Mains Failure (AMF) / ATS control panel, circuit breaker

Your local EuroPower genset distributor

EuroPower Diesel Generator Sets powered by MAN



1500rpm, 50Hz, 380 - 415V

Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPMAN170	136	170	150	188	D0826LE201	3000	1200	1800	2300	28.0
EPMAN250	200	250	220	275	D2866LE201	3200	1200	1900	2400	42.0
EPMAN300	240	300	275	344	D2866LE201	3200	1200	1900	2500	52.0
EPMAN400E	-	-	320	400	D2866LE203	3500	1200	1900	2700	62.0
EPMAN400	320	400	352	440	D2876LE201	3500	1420	1900	3000	72.0
EPMAN500E	-	-	400	500	D2876LE203	3500	1420	1900	3000	83.0
EPMAN400	320	400	352	440	D2848LE201	3500	1420	1900	3500	72.0
EPMAN500E	-	-	400	500	D2848LE203	3500	1420	1900	3500	83.0
EPMAN500	400	500	440	550	D2840LE201	3500	1440	1950	4000	84.0
EPMAN625E	-	-	500	625	D2840LE203	3500	1440	1950	4000	97.0
EPMAN635	508	635	560	700	D2842LE201	3800	1620	2130	4500	104.0
EPMAN725E	-	-	580	725	D2842LE203	3800	1620	2130	4500	110.5

1800rpm, 60Hz, 220 - 480V*

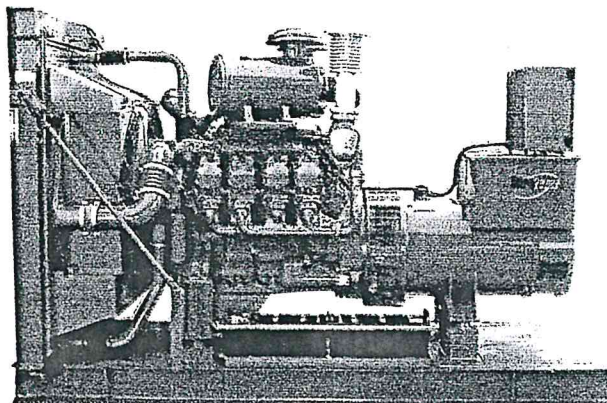
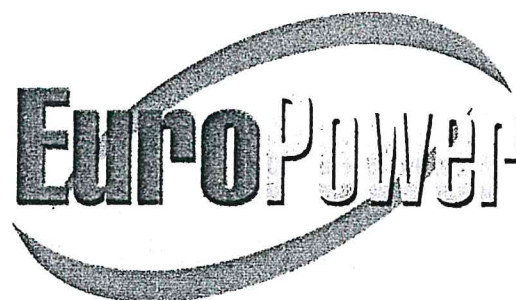
Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPMAN170	152	190	168	210	D0826LE201	3000	1200	1800	2300	35.0
EPMAN250	232	290	250	313	D2866LE201	3200	1200	1900	2400	54.0
EPMAN300	288	360	315	394	D2866LE201	3200	1200	1900	2500	60.0
EPMAN400E	-	-	360	450	D2866LE203	3500	1200	1900	2500	62.0
EPMAN400	360	450	400	500	D2876LE201	3500	1420	1900	3000	77.5
EPMAN500E	-	-	450	563	D2876LE203	3500	1420	1900	3000	90.0
EPMAN400	370	463	400	500	D2848LE201	3500	1420	1900	3500	80.0
EPMAN500E	-	-	450	563	D2848LE203	3500	1420	1900	3500	88.0
EPMAN500	471	589	520	650	D2840LE201	3500	1440	1950	4000	95.0
EPMAN625E	-	-	520	650	D2840LE203	3500	1440	1950	4000	98.0
EPMAN635	572	715	630	787	D2842LE201	3800	1620	2130	4500	122.0
EPMAN725E	-	-	650	813	D2842LE203	3800	1620	2130	4500	128.0

Ratings based on ISO3046, BS5514, DIN 6271, $\pm 5\%$ tolerance. Standard reference conditions: air inlet temperature 27°C, altitude 100m asl, fuel weight 0.85kg/l, fuel consumption @75% prime load. **Prime rating:** Continuous running at variable load. No limit to the annual hours of operation. 10% overload capability for 1 hour in any 12 hours. **Standby rating:** Emergency power at variable load in the event of utility power failure. No overload is permitted. *Deration may be necessary at certain voltages.

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EuroPower Diesel Generator Sets powered by Deutz



EuroPower generator sets offer a wide range of continuous & emergency power suitable for residential, commercial & industrial applications. Our standard genset includes set mounted heavy duty tropicalised radiator c/w protection guards to cool the engine up to 52°C air-on temperature.

All our equipment are warranted against manufacturing defects for a period of 12 months or 1500 operating hours from date of initial start-up, or 18 months from date of shipment, whichever is earlier.

Deutz Engine

- Powerful, compact, high power to weight ratio
- Water cooled or air cooled (models in *italic*)
- Advance fuel injection & combustion system
- Multi-cylinder in-line or vee engine
- TBD series come with remote radiators
- 1015 series & above are 24V electrical system with electronic governor

Alternator

- 4-pole, brushless, self exciting, self regulating
- Drip proof, IP21 protection, class H insulation
- Industrial standard, single bearing type
- Self ventilated, screen protected
- Voltage regulation $\pm 1\%$ at any fixed load

Scope of Supply

- Heavy duty steel channel base frame
- Vibration-damping supports between engine/alternator & base frame
- High capacity lead-acid starting batteries
- Heavy duty industrial type silencer & stainless steel flexible exhaust bellow
- Manual start set mounted control panel c/w voltmeter, ammeter, frequency/rpm meter, hour run counter, lube oil pressure gauge, water temperature gauge & safety shutdown protections for low oil pressure, high water temperature & engine overspeed

Optional Supply

- Weatherproof / Soundproof / Super soundproof enclosure
- Mobile trailer
- Remote radiator cooling
- Engine / alternator heaters
- Auto load sharing & synchronising panel
- Auto Start / Auto Mains Failure (AMF) / ATS control panel, circuit breaker

Your local EuroPower genset distributor

EuroPower Diesel Generator Sets powered by Deutz



1500rpm, 50Hz, 380 - 415V

Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPDA24	19	24	20	25	F2L1011F/3000rpm	1400	800	1200	600	4.5
EPDA18	14	18	15	19	F3L1011F	1400	800	1200	600	4.0
EPDA25	20	25	22	27	F4L1011F	1400	800	1200	700	5.0
EPDA30	24	30	26	33	BF4L1011F	1400	800	1200	700	6.0
EPDA30	24	30	25	31	F3L912	1600	850	1200	700	5.0
EPDA40	32	40	34	42	F4L912	1800	850	1200	800	7.0
EPDA60	48	60	52	65	F6L912	2300	850	1200	900	10.5
EPDA100	80	100	88	110	BF6L913	2300	850	1400	1000	18.0
EPDA135	108	135	116	145	BF6L913C	2600	1000	1500	1100	23.0
EPD60	48	60	50	62	BF4M1012E	2300	850	1200	900	10.5
EPD75	60	75	62	78	BF4M1012EC	2300	850	1300	1000	12.5
EPD90	72	90	77	96	BF4M1013E	2300	850	1500	1150	15.5
EPD100	80	100	88	110	BF4M1013EC	2300	850	1500	1250	18.0
EPD135	108	135	116	145	BF6M1013E	2600	1100	1600	1500	23.0
EPD165	132	165	138	173	BF6M1013EC	2600	1100	1600	1650	26.0
EPD230	184	230	200	250	BF6M1015	3000	1400	2000	2150	42.0
EPD313	250	313	276	345	BF6M1015C	3000	1400	2000	2300	51.5
EPD380	304	380	330	412	BF6M1015CP	3000	1400	2000	2300	60.0
EPD450	360	450	380	475	BF8M1015C	3500	1400	2000	2600	70.0
EPD500	400	500	440	550	BF8M1015CP	3500	1400	2000	2700	80.0
EPD800	640	800	684	855	TBD616V12	5000	1900	2400	5800	120.0
EPD1000	800	1000	880	1100	TBD616V16	5000	1950	2500	7000	150.0
EPD1600	1280	1600	1360	1700	TBD620V12	6000	2100	2600	10000	230.0
EPD2000	1600	2000	1760	2200	TBD620V16	6800	2800	2600	14000	293.0
EPD2150	1720	2150	1812	2265	TBD620V16	6800	2850	2600	14600	315.5

1800rpm, 60Hz, 220 - 480V*

Genset Model	Prime		Standby		Engine Model	Approx. Dimensions, Dry Weight & Fuel Consumption				
	kW	kVA	kW	kVA		L (mm)	W (mm)	H (mm)	kg	l/h
EPDA18	18	23	20	25	F3L1011F	1400	800	1200	700	5.0
EPDA25	26	33	29	36	F4L1011F	1400	800	1200	700	6.0
EPDA30	34	43	36	45	BF4L1011F	1400	800	1200	700	7.5
EPDA30	28	35	30	38	F3L912	1600	850	1200	700	6.5
EPDA40	38	48	40	50	F4L912	1800	850	1200	800	8.5
EPDA60	58	73	60	75	F6L912	2300	850	1200	900	13.0
EPDA100	100	125	108	135	BF6L913	2300	850	1400	1000	22.0
EPDA135	134	168	140	175	BF6L913C	2600	850	1500	1000	27.0
EPD60	48	60	50	63	BF4M1012E	2300	850	1200	900	11.0
EPD75	60	75	65	81	BF4M1012EC	2300	850	1300	1000	13.5
EPD90	75	94	80	100	BF4M1013E	2300	850	1500	1150	17.0
EPD100	92	115	96	120	BF4M1013EC	2300	850	1500	1250	20.0
EPD135	116	145	125	156	BF6M1013E	2600	1100	1600	1500	25.0
EPD165	138	173	145	181	BF6M1013EC	2600	1100	1600	1650	30.0
EPD230	200	250	225	281	BF6M1015	3000	1400	2000	2150	48.0
EPD313	280	350	300	375	BF6M1015C	3000	1400	2000	2300	59.0
EPD380	315	394	345	431	BF6M1015CP	3000	1400	2000	2300	67.0
EPD450	372	465	400	500	BF8M1015C	3500	1400	2000	2600	78.0
EPD500	430	538	468	585	BF8M1015CP	3500	1400	2000	2700	88.0
EPD800	692	865	760	950	TBD616V12	5000	1900	2400	5800	138.0
EPD1000	922	1153	1000	1250	TBD616V16	5000	1950	2500	7000	170.0
EPD1600	1390	1738	1480	1850	TBD620V12	6000	2100	2600	10000	260.0
EPD2150	1888	2360	2000	2500	TBD620V16	6800	2850	2600	14600	354.0

Ratings based on ISO3046, BS5514, DIN 6271, $\pm 5\%$ tolerance. Standard reference conditions: air inlet temperature 27°C, altitude 100m asl, fuel weight 0.85kg/l, fuel consumption @75% prime load. **Prime rating:** Continuous running at variable load. No limit to the annual hours of operation. 10% overload capability for 1 hour in any 12 hours. **Standby rating:** Emergency power at variable load in the event of utility power failure. No overload is permitted. *Deration may be necessary at certain voltages.

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ANNEX 6

MAINTENANCE AND CONTINGENCY PLAN FOR THE PUMPING SYSTEM

**Maintenance and Contingency Plan for Proposed Pump System -
Planning Application –
Temporary Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage
(Operational Tools and Materials) Use for 3 years and Filling of Land at
Sub-Section 1 of Section B of Lot No.82 (Part) in DD108, Fan Kam Road, Pat Heung, New Territories (the “Premises”) (Rev.1)**

Responsibilities and Duties

The applicant/ Land owner should be responsible for the maintenance of the storm drainage system associated with the sump pump system not only within site but also the pipework, U-channels, stepped channels and catch pits outside site boundary.

For Maintenance Plan

The maintenance and operation of the storm drainage system associated with the proposed pump system is as follows.

Responsibilities and Duties	Frequency
Check whether there debris/ obstruction of all surface channels/ U- channels, catch pits and sand traps (including the U-channels, stepped channels and catch pits outside site boundary) . Clear the debris/ obstruction immediately to avoid blockage of the drainage system.	Once every 2 weeks
Check the satisfactory operation of sump pumps.	Once every 2 weeks
Check electric motors, pump bearings, belt drive tension, gearbox, lubricant, control and sensor equipment, flow measurement devices	Once every 2 weeks
Test run the system	Once every 2 weeks
Maintain and empty sump pit	Before and after each heavy rainfall

Please refer to Maintenance Instruction for Storm Water Sump Pump in **Appendix A**.

For Contingency Plan

The provisions stated in the STORMWATER DRAINAGE MANUAL will be followed. These provisions include:

- Adequate power supply: Sufficient power should be available to operate the control system and all the pumps.
- An emergency power generator must be installed within the station compound to automatically provide backup electricity during power failures. The generator should be designed to supply enough power for the operation of the control system and pumps.
- A spare manual pump must be installed within the station compound in case the electric power system is malfunction.

For Noise abatement measures, Measures to minimize disturbance to nearby residents and the operation and maintenance (O&M) personnel should be implemented before commencement of works.

Template of the O&M Manual of Storm Drain System is shown in **Appendix B**.

For Equipment Catalogue, please refer to **Appendix C**.

1.0 Routine Operation

Once the submersible storm drain system has been set up for service, it is advisable to carry out periodic physical checks on the system equipment to ensure availability and serviceability:-

1.1 Visual inspection of sump pit

- Clean the inlet pipe and pump discharge pipe in good condition
- Remove all debris from the bottom of the pit
- Remove all debris floating in the water
- Remove all debris from the float switch
- Fill the pit with water. Make sure pump turns on at the intended level
- Make sure the tether float switch is moving freely
- While the pump is running, make sure pump is evacuating water at a good pace

1.1.1 Pump control panel

1.1.2 Lamp Test

- Operate the "Lamp Test" switch. All lamps should light
- Identify any failed lamp replace as necessary

1.2.2 Functional Check (using by Manual Mode)

Turn the "Auto/Off/Manual" selector switch on the control panel to Manual position for testing

1.2.3 Test the Manual "On" function by press the "start" button

1.2.4 Test the Manual "Off" function by press "stop" button

1.2.5 Test the "Emergency stop" function by press the "E-stop" button

When the duty pump is functioning correctly, proceed to testing the standby pump using the same above procedures.

Proposed Storm Drain
Fan Kam Road Pat Heung
Maintenance Instruction for Storm Water Sump Pump
Storm Water Sump and Pump System

APPENDIX A

Log Sheet: Record of Storm water sump pump system

Frequency: Weekly / Monthly

Item	Task	Done		Result
		Date	Time	(Y/N)
1	Review log: Review log kept by operators. Observe for any abnormal record. Review any alarm logged by Management team			
2	Visual inspection of sump pit (incl. all debris inside pit (see routine operation)			
3	Motor condition: Check motor against excessive noise, vibration and overheating			
4	Pipe / pump fixing-Bolt & Bracket Check all mounting and accessories against rust and loosened bolts			
5	Motor cable termination : Open motor terminal box and inspect the cable connection. Repair as necessary			
6	Lamp test: Press the lamp test switch. All indication lamps should light immediately. If not, check and repair / replace as necessary			
7	Level control: Check settings and test functionally			
8	Control & safety switches: Test for correct operation and rectify any fault			
9	O/L protection: Check that the O/L protection setting agrees with motor full load current			
10	Others			

Comments:

Checked by:

Endorsed by

Signature / Date

Signature /Date

Proposed Storm Drain
Fan Kam Road Pat Heung
Maintenance Instruction for Storm Water Sump Pump
Storm Water Sump and Pump System

APPENDIX A

Log Sheet: Record of Storm water sump pump system

Frequency: Annually

Item	Task	Done		Result
		Date	Time	(Y/N)
1	Flexible joints: Check suction and delivery flexible joints against leaks. Replace in case of leakage			
2	Motor mega test: Perform insulation test to the motor			
3	Motor condition: Check motor against excessive noise, vibration and overheating			
4	Pipe / pump fixing-Bolt & Bracket Check all mounting and accessories against rust and loosened bolts			
5	Motor cable termination : Open motor terminal box and inspect the cable connection. Repair as necessary			
6	Lamp test: Press the lamp test switch. All indication lamps should light immediately. If not, check and repair / replace as necessary			
7	Level controls: Check settings and test functionally			
8	Control & safety switches: Test for correct operation and rectify any fault			
9	O/L protection function: Oress the test switch at the O/L protection relay. Pump should stop immediately. If not, check protection relay and control circuit and repair /replace			
10	Surface finish: Inspect the equipment surface finish against damage to coating, rust etc. Touch up as necessary			

Comments:

Checked by:

Endorsed by:

Signature / Date

Signature / Date

Operation & Maintenance
Instruction Manual
of
Storm Drain System
For
Sub-Section 1 of Section B of Lot No.82 (Part) in DD108, Fan Kam Road, Pat Heung, New Territories

To: Client
 From: Contractor
 Date: XX-XX-202X

TABLE OF CONTENT

Section	Description	Page No.
1	Introduction	
2	System Description	
3	Operation and Maintenance	
4	Equipment Schedule	
Appendix 1	Site Location Plan	To be prepared by Contractor upon completion of works in future
Appendix 2	Catalogue of material/ equipment (E&M)	
Appendix 3	As-fitted drawings	
Appendix 4	List for the Contractor/ Suppliers and Contact Points	
Appendix 5	Record of Testing & Commissioning	

1 Introduction

- 1.1 The site is located at Sub-Section 1 of Section B of Lot No.82 (Part) in DD108, Fan Kam Road, Pat Heung, New Territories (see Location Plan in **Appendix 1**).
- 1.2 This manual is for client's routine maintenance and operation of the drainage system.

2 System Description

Please read in conjunction with the as-fitted drawings in **Appendix 3**.

- 2.1 This manual explains the storm drain system, list out major equipment and provide information for the operation and maintenance of the system.

- 2.2 The storm drain system consists of collection of storm water of the site by dividing into 5 bays and discharge the storm water to Sheung Yue River through one terminal manhole.
- 2.3 The storm water at Bay 1 to Bay 4 is collected through the surface channels/ U-channels by means of gravity flowing to sand-trap and then to the sump pit. Sump pump system is used for pumping the collected storm water to Manhole No. MH-01, then through MH-01 to the terminal manhole no. TMH-01 and finally to Sheung Yue River.
- 2.4 The storm water at Bay 5 is also the surface channels/ U-channels by means of gravity flowing to the sand-trap, then to the terminal manhole no. TMH-01 and subsequently to Sheung Yue River.
- 2.5 The sump pumps for each sump pit can be operated automatic mode or manually. Totally 3 nos. of pump sets are installed at each sump pit. For automatic mode, the pump at Stage 1 will be operated under a pre-set water level. If the water level rises to certain higher level, especially when heavy rainfall, the pump set will be started to Stage 2.
- 2.6 Portable emergency generator(s) will be allowed for connection of the pumping system. In case of power failure, the pumps can still be operated manually with the use of emergency power supply.

3.0 Operation and Maintenance

- 3.1 Recommended Inspection Frequency is as follows:

Item	Duties	Frequency
1	Check whether there debris/ obstruction of all surface channels/ U- channels, catch pits and sand traps (including the U-channels, stepped channels and catch pits outside site boundary). Clear the debris/ obstruction immediately to avoid blockage of the drainage system.	Once every 2 weeks
2	Check the satisfactory operation of pumps.	Once every 2 weeks
3	Check electric motors, pump bearings, belt drive tension, gearbox, lubricant, control and sensor equipment, flow measurement devices	Once every 2 weeks
4	Test run the system	Once every 2 weeks
5	Maintain and empty sump pit	Before and after each heavy rainfall
6	Switch off the pumps whenever there is abnormal noise, heat or vibration.	

- 3.2 The above checking is recommended by a licensed plumber.
- 3.3 Training will be provided to client or his assigned representative upon completion of testing and commissioning.
- 3.4 In case of emergency maintenance, the client/ his representative can contact the emergency contact point as marked in **Appendix 4**.
- 3.5 For operation:
- I) Auto Running Procedure**
 - a. Turn the main switch on.
 - b. Turn the "AUTO-OFF-MANUAL" to "AUTO" position for standby mode.
 - c. One of the two pumps will operate automatically at 30 minute interval. The pump will start when the water reaches to the required pressure and stop.
 - II) Manual Running Procedure (For maintenance & functional test purposes.**
 - a) Turn the main switch on.
 - b) Turn the "AUTO-OFF-MANUAL" to "MANUAL" position for manual mode.
 - c) Press the start button the pumps will start. d. Press the stop button the pumps will stop
 - III) Emergency Stop Procedure**
 - a) When at auto mode
 - b) Either pump is running
 - c) Press the emergency button inside the cabinet
 - d) Pumps stop automatically, standby pump will start to run and alarm will buzzing
 - e) Reset the buttons by turning the caps of the emergency button, and pressing buzzer reset button on panel
 - f) When at manual mode
 - g) Select the pump and press start button to run
 - h) Press the emergency button inside cabinet
 - i) Pumps stop automatically, standby pump will not start and alarm will buzzing.
 - j) Reset the buttons by turning the caps of the emergency button, and pressing buzzer reset button on panel, selected pump will start again.

4.0 Equipment Schedule

Equipment No.	SPT-01-1 To SPT-01-3	SPT-02-1 To SPT-02-3	SPT-03-1 To SPT-03-3	SPT-04-1 To SPT-04-3
Location	SPT-01 Sump Pit	SPT-02 Sump Pit	SPT-03 Sump Pit	SPT-04 Sump Pit
No. of pump	3 per each sump pit			
Flow (L/S)	30			
Hydraulic Head (m)	22			
Speed (rpm)	1450			
Type	Vertical centrifugal submersible pump			
Drive	Direct			
Fluid handled	Storm water			
Fluid temperature (°C)	28			
Working pressure (kPa)	1000			
Testing Pressure (kPa)	1200			
Minimum efficiency	80			
Break Power	7.5			
Motor Data:				
Type	TEFC			
Speed (rpm)	1450			
Rating (kW)	11			
Power supply (Phase/ Cycle/ Volt)	3/50/380			
Operating Weight (kg)	150			
Remarks	- One as stand-by for each sump pit			

4.1 Please see for Catalogue of material/ equipment (E&M) in **Appendix 4** for information of the material and equipment.

For Appendix 5 - Record of Testing & Commissioning.

Hydraulic Test for Piping of Sump Pumps

Method Statement – Hydraulic Pressure Testing

1. Testing sequence as below:

From sump pit tank to swp tee-off point

2. After this testing, the section of the tested pipe would be link to the water supply system for easily observation whether the pipework has been damaged.

3. Testing Requirement

The testing pressure should be 1.5 times of the maximum working preseeure or not less than 150psi (1030 kPa), whichever is the greater. The testing period should be not less than six (6) hours.

4. Equipment for hydraulic test

- a) Manual pump
- b) Flexible hose
- c) Gate valve and pressure guage set on upstream side calibrate in bar or psi

5. Testing procedure

- a) Preliminary checks
 - i) Check the pipe-works are complete
 - ii) Check and flush the pipe-works system to ensure it is internally clean
 - iii) Isolate valve is equipped to the tested section
- b) Plug off the section of pipework under test, fit the hand pump together with pressure gauge to the individual water pipe end points
- c) Discharge water to the test section and all air liberated.
- d) Pressurize the section of the pipework by manual pump to testing pressure.
- e) Observe the test section and pressure gauge for a period of not less than 1 hour.
- f) If water pressure drop, check for leaks. Take appropriate action to rectify the defect and then repeat the test until found satisfactory. Pre-test is finish. Proceed the formal T&C.
- g) Submit inspection forms to client/ client's representative 1 day in advance for joint inspection.
- h) Re-pressurize the section of the pipework by manual pump to testing pressure.
- i) Close the isolate valve to lock and keep the testing pressure within the tested section.
- j) Observe the test section and pressure gauge for a period not less than 2 hours.

APPENDIX B

- k) Test shall be witness by the contractor and certified the client/ client's representative.

Project:

APPENDIX C

Proposed Storm water Drain

Fan Kam Road, Pat Heung

Equipment Catalogue

1. Proposed Storm water sump pump

Capacity: @30 l/s @22 m head

2. Diesel Generator

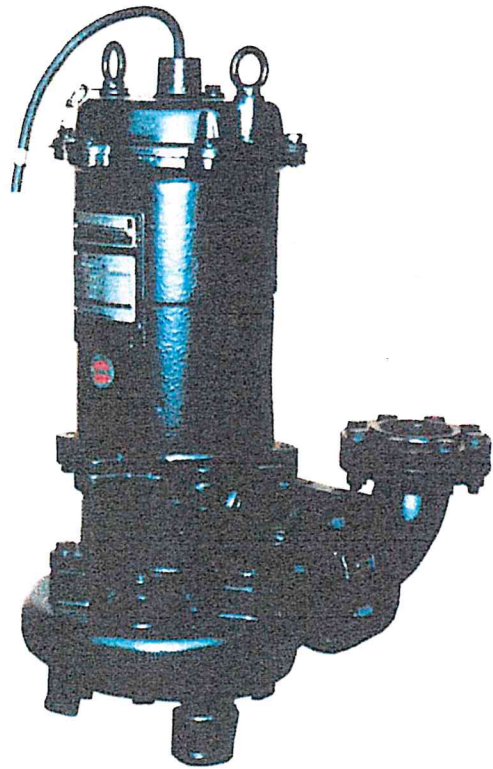
Total Capacity; 200 KW (250 KVA)



Submersible Heavy Duty Solids Handling Pumps

Model SH

*To meet your submersible pump needs
and assure the lowest possible cost
over the life . . .*



Applications:

- Sewage Lift Stations
- Treated Sewage System
- Waste Water Transfer
- Dewatering
- General Industrial Service

ISO 9001 Certificate



EIM ELECTRIC CO.,LTD.

With over 50 years of proven experience in the design and the difficult applications of heavy duty submersible pumps handling sewage, solids, sludge and slurries, EIM has been providing pumping solutions which permit customers to continuously improve pumping system reliability and cost efficient performance. The SH series pumps with non-clogging, single-vane, closed impeller have proven successful operation in the toughest applications handling large solids and stringy material.

General Description

	Standard	Option
Pump	Free Standing Models	Guide Rail System
Discharge Diameter	80, 100 and 150 mm	
Flow and TDH	See performance curves on the back page.	
Impeller	Non-clogging, single-vane, closed impeller	
Max. Solids Size	75 mm sphere	
Max. Submergence	20 m	
Liquid Temperature	-10°C to 40°C	High temperature designs up to 80°C.
Materials		
Impeller/Pump Casing /Suction Cover	Cast Iron	
Hardware	304 Stainless Steel	
Motor		
Configuration	Flange mounted, air-filled submersible vertical AC motor	
Synchronous Speed	1500RPM (50Hz)/1800RPM (60Hz)	
Insulation Class / SF	F / 1.15	Insulation Class H
Voltages / Phase / Hertz	200, 380, 400 Volts / 3 ϕ / 50 Hz 220, 380, 440 Volts / 3 ϕ / 60 Hz	Special voltages in the range of 200-600 Volts
Thermal Protection Device	up to 7.5KW: Bimetallic over current switch 11KW and above: Two normally closed thermostats embedded in windings	
Cable Length	10 m	Extra length cable
Materials		
Motor Housing	Cast Iron	
Motor Shaft	403 Stainless Steel	
Shaft Seals	Double shaft seals [Outer seal (process side)] Silicon Carbide faces (both rotating and stationary faces) [Inner seal (motor side)] Carbon against Ceramic faces	Silicon Carbide faces (both rotating and stationary faces) inner and outer seals and VITON seal elastomers
Bearings	Deep groove ball bearings	
O-Rings	Nitrile Butadiene Rubber (NBR)	VITON O-rings

Available Models

Discharge Diameter (mm)	Model No.		BHP		Discharge Diameter (mm)	Model No.		BHP	
	Free Standing	Guide Rail Svstem	KW	HP		Free Standing	Guide Rail System	KW	HP
80	SH-82E	SH-82B	1.5	2	100	SH-105E	SH-105B	3.7	5
	SH-83E	SH-83B	2.2	3		SH-108DE	SH-108DB	5.5	7.5
	SH-85E	SH-85B	3.7	5		SH-1010DE	SH-1010DB	7.5	10
	SH-88DE	SH-88DB	5.5	7.5		SH-1015DE	SH-1015DB	11	15
	SH-810DE	SH-810DB	7.5	10		SH-1020DE	SH-1020DB	15	20
	SH-815DE	SH-815DB	11	15	150	SH-158DE	SH-158DB	5.5	7.5
	SH-820DE	SH-820DB	15	20		SH-1510DE	SH-1510DB	7.5	10
						SH-1515DE	SH-1515DB	11	15
						SH-1520DE	SH-1520DB	15	20

Features

1 CABLE

Extra hard usage, water-resistant vinyl cable is used for electric cable.

2 CABLE ENTRY

Strain relief rubber bushing integrated with cable sheath at the entry point is tightly compressed to the motor housing cover. In addition, each cable strand at the entry point is formed into a solid conductor for a true non-wicking cable entry. This double sealing system completely prevents water from entering into the motor housing.

3 LIFTING DEVICE

Lifting eye-bolts of 304 stainless steel are of adequate strength to lift the entire pump assembly.

4 MOTOR

An air-filled, induction motor with specially treated class F (155°C) nonhygroscopic insulation and rated with 1.15 service factor is used as standard. The motor housing of heavy duty cast iron is sealed using O-rings.

5 SHAFT

The high quality, one-piece, oversized shaft made of 403 stainless steel is designed so as to lengthen bearing and seal life reducing shaft deflection and vibration.

6 BEARINGS

Both main and support bearings packed with lithium grease for high temperature usage consist of oversized deep groove ball bearings, countering both radial and axial forces.

7 SHAFT SEAL

Double mechanical seal system for maximum resistance to corrosion, abrasion and thermal shock prevents water from penetrating into the oil chamber and the motor housing. The outer seal (process side) uses Silicon Carbide faces (both rotating and stationary faces). Carbon against ceramic faces are used for the inner seal (motor side). In addition, to prevent dust, sand, mud, sludge, slurry, etc. from entering into the seal area, the dust seal is mounted on the outside of the shaft seal, facing to process liquid.

8 OIL CHAMBER

Oil in the oil chamber lubricates and cools the shaft seals and functions as a buffer to prevent water penetration into the motor.

9 PUMP CASING

Owing to the specially designed pump casing with large opening at motor side, motor unit and wet end are easily separated for fast access to impeller and shaft seals. This results in true savings, greatly reducing maintenance and downtime costs.

10 IMPELLER

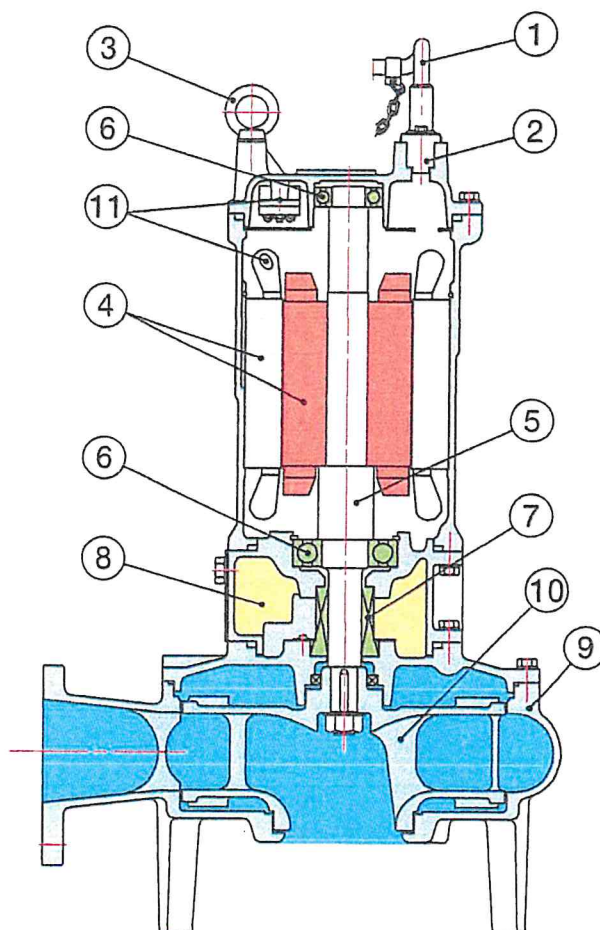
Single-vane, closed impeller with large opening assures passage of large solids and stringy material along with high pump efficiency.

11 THERMAL PROTECTOR

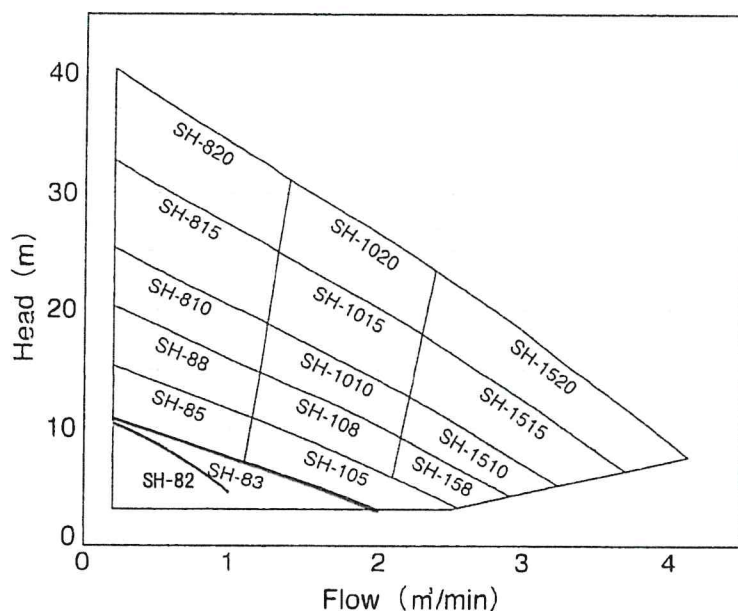
To protect over heating, bimetallic over current switch is built in the motor housing cover (discharge ϕ 80 mm) or two normally closed thermostats are embedded in the motor windings (discharge ϕ 100 mm).

12 HARDWARE

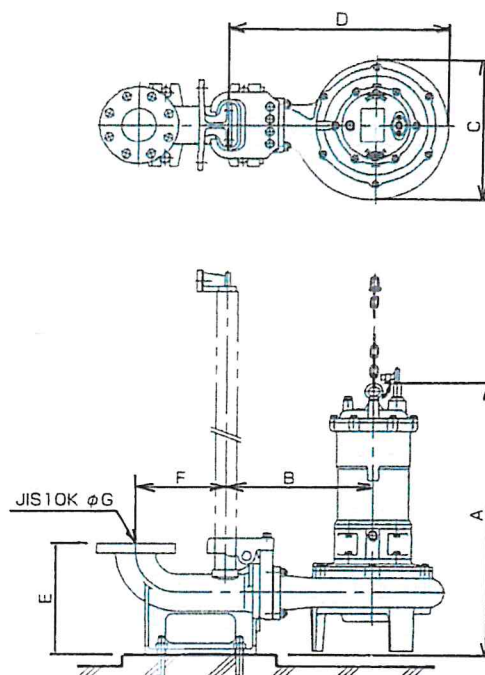
All the external hardware are made of heavy duty 304 stainless steel.



Pump Performance Curves



Dimensions



(All dimensions in mm)

Discharge Diameter	Model	A	B		C		D		E	F	G	w't(kg)	
			50Hz	60Hz	50Hz	60Hz	50Hz	60Hz				Pump	Discharge Elbow
80	SH-82B	675	352	352	335	335	525	525	270	209	80	65	25
	SH-83B	675	352	352	335	335	525	525				65	
	SH-85B	675	352	352	335	335	525	525				75	
	SH-88DB	830	412	352	440	335	635	525				140	
	SH-810DB	830	412	412	440	440	635	635				150	
	SH-815DB	830	412	412	440	440	635	635				160	
	SH-820DB	1090	462	412	530	440	730	635				240	
100	SH-105B	705	352	352	335	335	525	525	325	239	100	75	31
	SH-108DB	860	412	352	440	335	635	525				140	
	SH-1010DB	860	412	412	440	440	635	635				150	
	SH-1015DB	860	412	412	440	440	635	635				160	
	SH-1020DB	1120	462	412	530	440	730	635				240	
150	SH-158DB	930	439	379	440	335	665	555	460	282	150	140	65
	SH-1510DB	930	439	439	440	440	665	665				150	
	SH-1515DB	930	439	439	440	440	665	665				160	
	SH-1520DB	1190	489	439	530	440	760	665				240	

SAFETY PRECAUTIONS



- Before operating our pumps, read the operation manual carefully.
- All the pictures shown in this catalog have been taken after removing all the safety devices legally required, to make the products easier to see.
- Pump and pump installations drawings are only for explanatory and descriptive purposes.

• The designs or specifications of the models in this catalog are subject to change without prior notice due to continual improvement.



EIM ELECTRIC CO.,LTD.

URL <http://www.eimpump.co.jp>

412, Katsushika 2-chome, Funabashi City, Chiba, 273-0032 Japan
Phone : +81-47-437-2711 Telex : +81-47-437-3969
E-mail: overseas@eimpump.co.jp

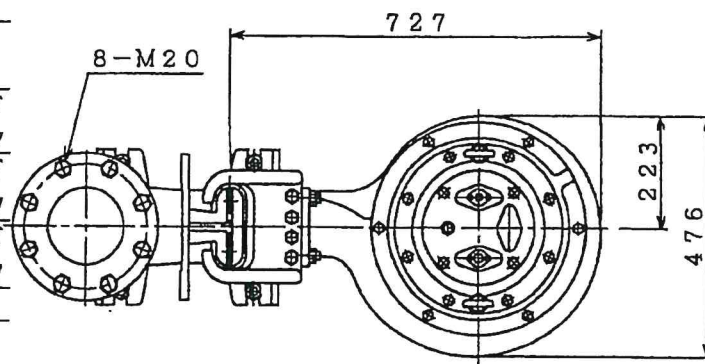
PCE-2017HK

Printed in Japan March 2009 09-3 1Ya

EIM SUBMERSIBLE PUMPS

MODEL: SH-1520DB

① PUMP		1set
② ELBOW ASSEMBLY	Cast Iron	1set
③ COMPNIONS FLANGE	Carbon Steel	1set
④ FOUNDATION BOLTS		Out of Supply
⑤ LIFTING CHAIN		Out of Supply
⑥ GUIDE PIPE		Out of Supply
⑦ GUIDE HOLDER	Cast Iron	1set



Dimensions with Mark ※ shall be specified by the user.

The drawing shows a vertical pump assembly with the following dimensions and callouts:

- Top Flange:** 2- $\phi 19$ holes, 230 mm inner diameter, 280 mm outer diameter.
- Vertical Pipe:** 50 A (Sch. 20S), 15 mm wall thickness, 9 mm outer diameter at the top.
- Flange (3):** JIS 10k $\phi 150$, 282 mm diameter.
- Flange (1):** 489 mm diameter.
- Flange (2):** 460 mm diameter, 22 mm wall thickness.
- Flange (4):** 4-M20 x 250, 48 mm diameter, 260 mm outer diameter, 50 mm wall thickness, 360 mm outer diameter.
- Bottom Flange:** 250 mm inner diameter, 300 mm outer diameter, 330 mm height.
- Water Level:** Lowest water level for effective suction (380 mm), Permissible lowest water level for continuous operation (1160 mm).
- Other Dimensions:** 30 mm, 60 mm, 1190 mm, 104 mm.

All dimensions in mm

DWG. NO. B-T1151132-0

Estimate No.
Order No.

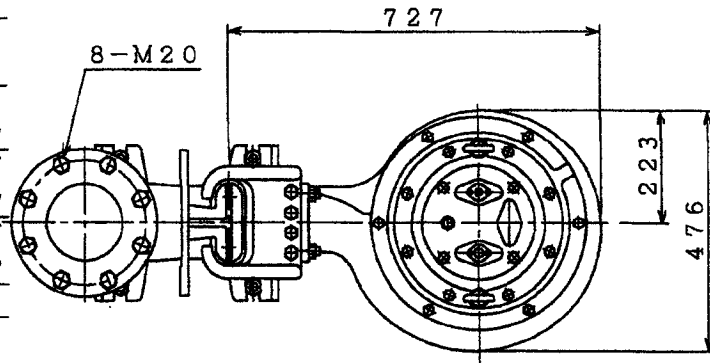
EIM SUBMERSIBLE PUMPS

DIMENSIONAL DRAWING

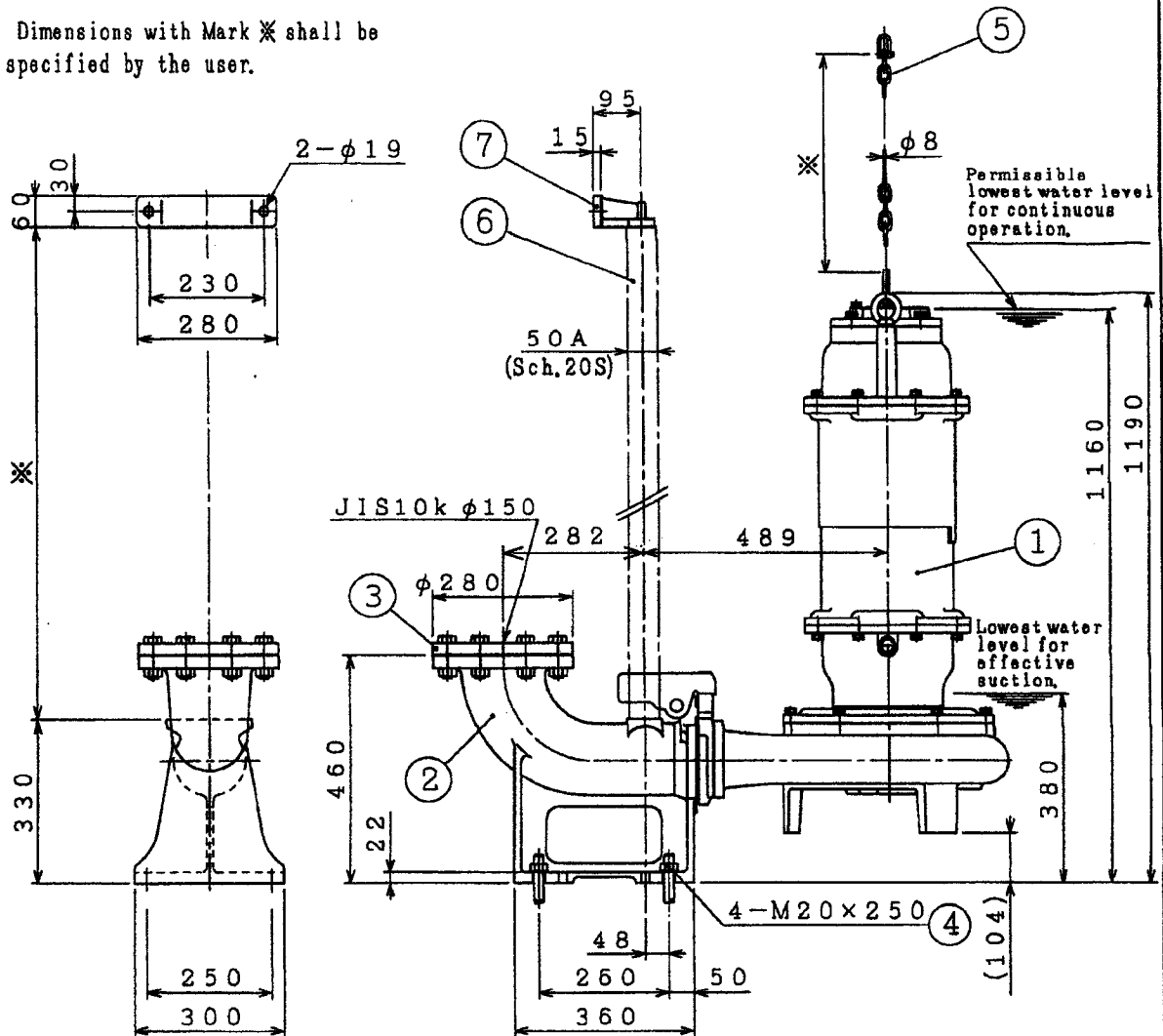
MODEL: SH-1520DB

Standard

① PUMP		1set
② ELBOW ASSEMBLY	Cast Iron	1set
③ COMPNIONS FLANGE	Carbon Steel	1set
④ FOUNDATION BOLTS	Out of Supply	
⑤ LIFTING CHAIN	Out of Supply	
⑥ GUIDE PIPE	Out of Supply	
⑦ GUIDE HOLDER	Cast Iron	1set



Dimensions with Mark ※ shall be specified by the user.



All dimensions in mm

Item No.

EIM ELECTRIC CO., LTD.

DWG.NO.B-T1151132-0

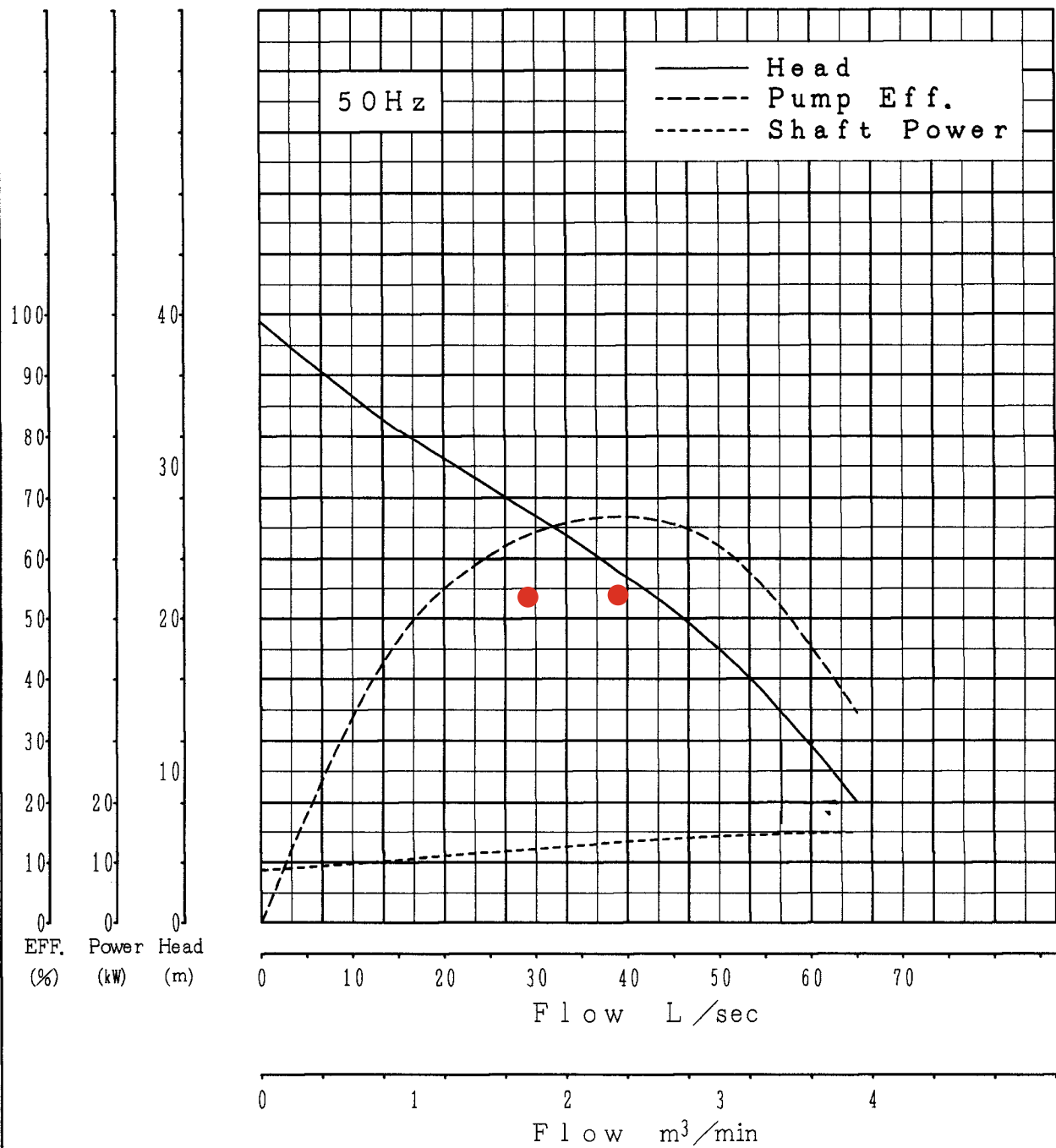
Estimate No.
Order No.

EIM SUBMERSIBLE PUMPS

PERFORMANCE CURVE

MODEL: SH-1520DB

Duty: 30 and 40 L/S x 22 M
Motor: 15 KW x 1450 RPM



Item No.

EIM Electric Co., Ltd.

DWG.NO.PC-T1151132-0

EIM SUBMERSIBLE PUMP JOB REFERENCE

LOCATION	MODEL(DRY PIT)	KW	QTY
Tseung Kwan O Swimming Pool	SU5-2015DTBH	11	1
TKO Hospital Expansion	UGAD-85ET(DRY PIT)	3.7	12
	UGAD-810EDT	7.5	4
Lai Chi Kok Swimming Pool	SU2-51B1	0.75	3
	SE-85LTB	3.7	7
North Lantau Hospital Phase 1, Tung Chung - Plumbing	UGAD-83ET (18M) (DRY PIT)	2.2	2
	SH-85B (18M)	3.7	8
Indoor Velodrome-cum-sports Centre in Area 45, TKO	SH-88DB	5.5	8
	SH-815DB	11	6
	SH-810DB	7.5	4
	SL-82BH	1.5	2
HOMANTIN GOVERNMENT OFFICES	SU-82E	1.5	1
CAS TRANING POOLSAI KUNG ,TAI TAN	SE-51G	0.75	2
	SE-83LB	2.2	1
SWIMMING POOL AT CSD RECREATION CLUB LAI CHI LOK	SE-82LTB	1.5	2
JORDEN VALLEY SWIMMING POOL	SU-1530DTB	22	2
	SE-83LTB	2.2	6
HAMMER HILL SWIMMING POOL	SE-83LTB	2.2	5
	SU-1520DTB	15	3
TEXACO RD, TSUN WAN SWIMMING POOL	SU-85TB	3.7	2
	SU-815DTB	11	9
	SU-108DTB	7.5	2

EIM SUBMERSIBLE PUMP JOB REFERENCE

AREA 100, MA ON SHAN SWIMMING POOL COMPLEX		3.7	6
	SU-1535DTB	25	6
LOK KWAN ST. PARK	SU-82B	1.5	2
NORTH POINT GOVERNMENT OFFICE	SE-51E	0.75	8
	SU-82E	1.5	1
BUTTERFLY BEACH LAUNDRY S.T.P.	AK2-10DB	7.5	1
MA PO PING PRISON S.T.P.	SU-158DTB	5.5	2
	SU-2015DTB	11	2
KOWLOON MEDICAL REHABILITATION CENTRE	SU-2015DTB	11	2
	SU-88DTB	5.5	8
HO MAN TIN RECREATION GROUND	SE-82HTB	1.5	4
SO KONG PO SWIMMING POOL	SU-1530DB	22	2
SAI KUNG SWIMMING POOL	SU2-82TB	1.5	2
MAN KAM TO STP	SU2-51TB	0.75	4
	SU2-82TB	1.5	4
	SU2-85TB	3.7	2
	AK2-3TB	2.2	2
	AK2-10DTB	7.5	2

EIM SUBMERSIBLE PUMP JOB REFERENCE

CHI MA WAN PRISON STP	SU2-108DTB	5.5	2
	SU2-51TB	0.75	8
	SU2-82TB	1.5	4
	SU2-83B	2.2	2
	SU-820DTB	15	2
	AK2-10DTB	7.5	4
	AK2-5TB	3.7	2
	AK2-8TB	5.5	2
	AK2-10DTB	7.5	2
PIK UK PRISON STP	AK2-5TB	3.7	4
	AK2-8DTB	5.5	2
	SE-505TB1	0.4	6
	SU2-51TB	0.75	2
	SU2-82TB	1.5	2
	SU-820DTB	15	2
	SU-1010DTB	7.5	2
	SL-83BH	2.2	1
	SL-85BH	3.7	2
SHEK WU HUI STP	SL-83BH	2.2	1
	SL-85BH	3.7	2

Certificate of Approval

This is to certify that the Management System of:

EIM ELECTRIC CO., LTD.

10-2-16, Inokuma, Mizumaki-machi, Onga-gun, Fukuoka-ken 807-0001, Japan

has been approved by LRQA to the following standards:

ISO 9001:2015

JIS Q 9001:2015

Approval number(s): ISO 9001 – 0065341

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Design, manufacture, sales and after sales service (repair and installation work) of submersible electric motors, pumps, mixers and slurry pumps.



Yasushi Horikawa

Japan Operations Manager

Issued by: LRQA Limited



Certificate Schedule

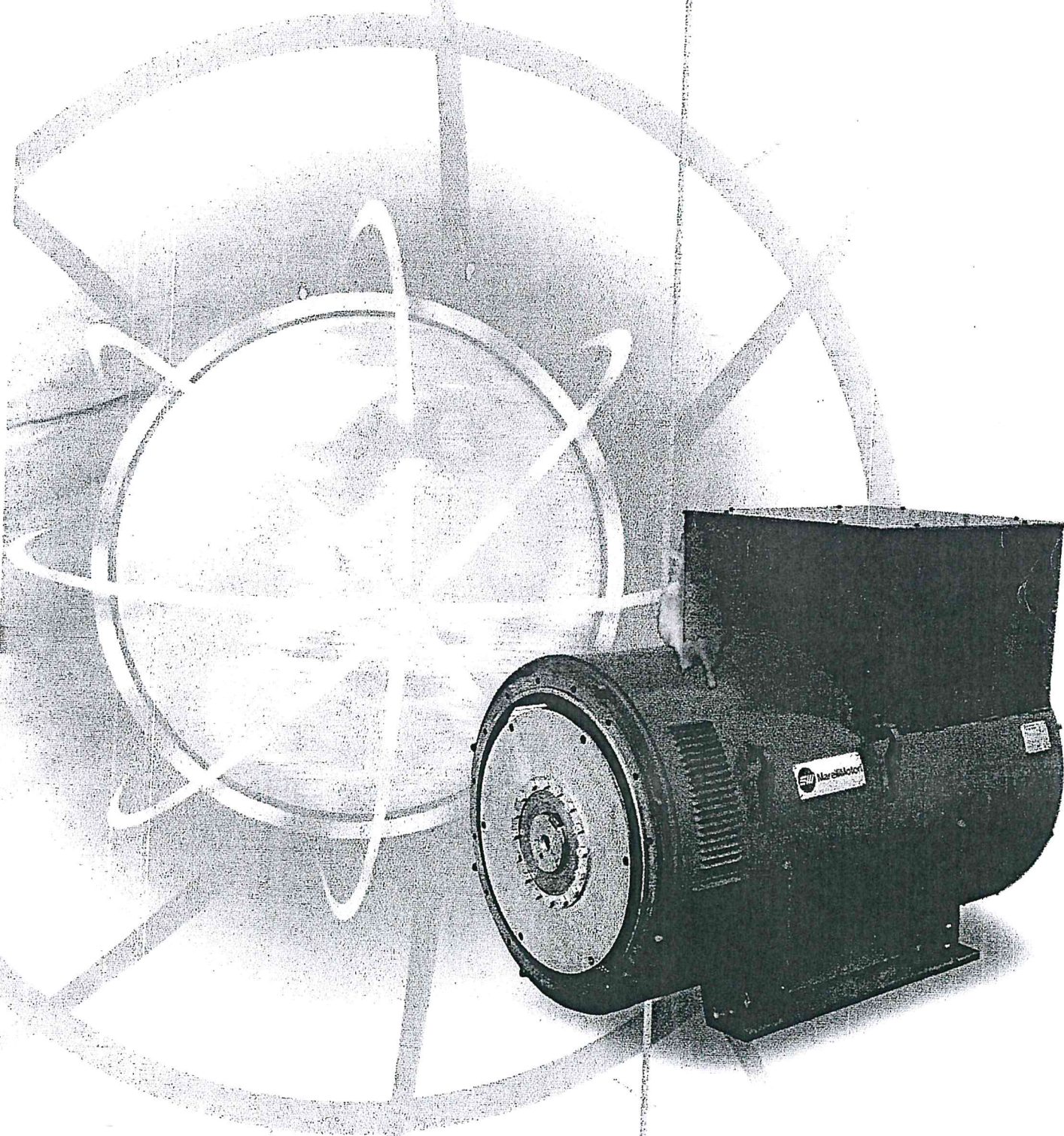
Location	Activities
EIM ELECTRIC CO., LTD. Mizumaki Works 10-2-16, Inokuma, Mizumaki-machi, Onga-gun, Fukuoka-ken 807-0001, Japan	ISO 9001:2015 As main scope.
EIM ELECTRIC CO., LTD. Headquarter 3-4, Kurosakishiroishi, Yahatanishi-ku, Kitakyushu-shi, Fukuoka-ken 806-0004, Japan	ISO 9001:2015 Headquarter.
EIM ELECTRIC CO., LTD. Kyushu Branch 3-4, Kurosakishiroishi, Yahatanishi-ku, Kitakyushu-shi, Fukuoka-ken 806-0004, Japan	ISO 9001:2015 Sales and after sales service (repair and installation work).
EIM ELECTRIC CO., LTD. Tokyo Branch 3-1-2, Kandamisaki-cho, Chiyoda-ku, Tokyo 101-0061, Japan	ISO 9001:2015 Sales.
EIM ELECTRIC CO., LTD. Osaka Branch 4-3-8, Nishi-Nakajima, Yodogawa-ku, Osaka-shi, Osaka-fu 532-0011, Japan	ISO 9001:2015 Sales.



0001

Three Phase Synchronous Generators

M&B - M&H - M&T SERIES
160 - 710 FRAME SIZES



MarelliMotori

APPENDIX D

PROPOSED PORTABLE EMERGENCY GENSET CATALOGUE

POWER GENERATION FOR GLOBAL MARKETS

Engine Model: QSL8.9-G2 - Driven by Joint-venture Cummins

2023 Version



	Genset Model	Prime Rating		Standby Rating	
50 Hz	TOP220Q	160 kW	200 kVA	168 kW	210 kVA
60 Hz	/	/	/	/	/

- Authorized Genset Original Equipment Manufacturer (GOEM) of Cummins Inc. and Chongqing Cummins
- Fully load tested and checked under standard procedures
- Tailor fit specific operational needs (please turn over)

Specifications

Engine	50 Hz	60Hz
Engine Model - Joint-venture Cummins	QSL8.9-G2	
Engine Speed	1500rpm	/
Fuel consumption (Standby) Litre/hour 100%	59	/
Fuel consumption (Prime) Litre/hour		
100%	55	/
75%	45	/
50%	31	/
25%	16	/
Engine Type	6-Cylinder	
Aspiration	Turbocharged & Aftercooled	
Bore x Stroke	114mm x 144.5mm	
Displacement	6.7 Litre	
Compression Ratio	17.73:1	
Lubrication System - Total System Capacity	28.1 Litre	
Cranking Motor	24 Volt	
Fuel injection System	Electronically controlled high voltage common rail	

Control System

Standard Control Panel System

- ComAp Control: single gen-set controllers, paralleling gen-set controllers
- Deep Sea Electronics: key start, auto start, synchronising
- Analog Instrument Panel

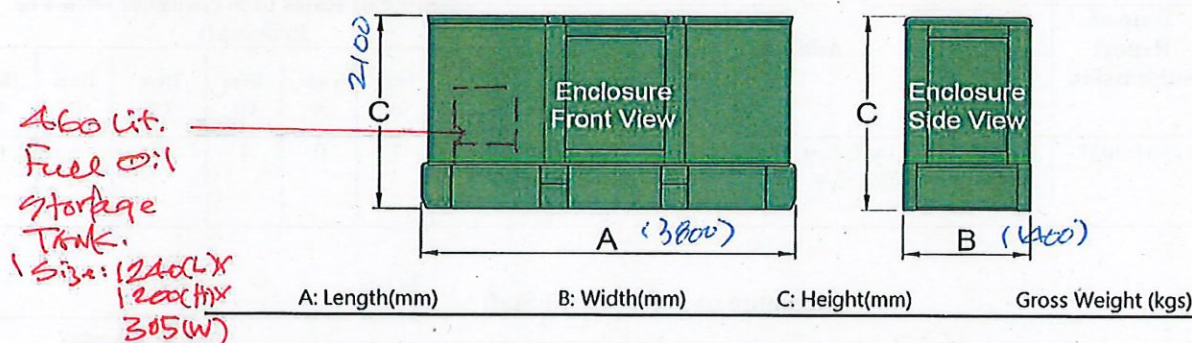
Alternator

Alternator Model - STAMFORD Alternators	UCI274H
Rated Power Factor	0.8
Insulation System	Class H
Winding Pitch	Two Thirds
Winding Leads	12
Protection	IP23

Control System - Separately Excited By P.M.G.

A.V.R.	MX321	MX341	
Voltage Regulation	± 0.5 %	± 1.0 %	With 4% Engine Governing

Dimensions and Weights



Open-set	/	/	/	/
Enclosure-set	3800	1400	2100	3000

* Dimensions and weights are for guidance only. Do not use for installation design.

Available Options

We offer a wide range of optional equipment to tailor your generating sets so as to meet your operational needs. Options include:

- Alternator heater, engine heater or panel heater
- Circuit breaker 3P/4P
- Customisation of the fuel tank size
- Silencer
- Tailor-made enclosure sets
- Waterproof socket: 16A x3 32A x3 63A x1

For further information on the standard or optional equipment accompanying this product, please feel free to contact us.

Documentation

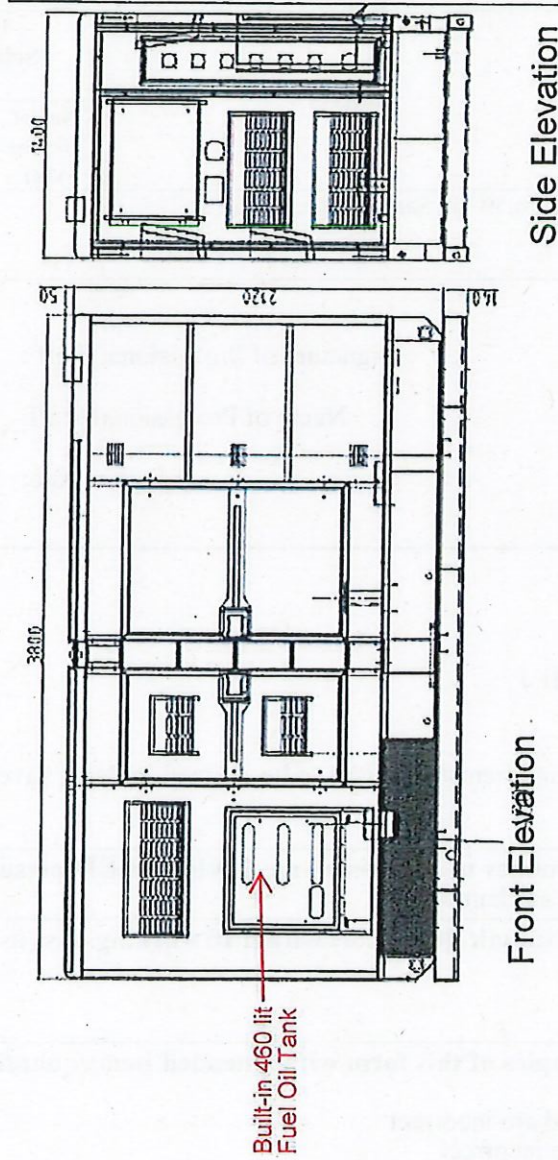
A full set of operation and maintenance manuals as well as circuit wiring diagrams.

Warranty

Parts warranty up to 1500 hours or a year of operation whichever comes first. Please contact us for full details on warranty cover.

*All specifications are subject to change without notice.



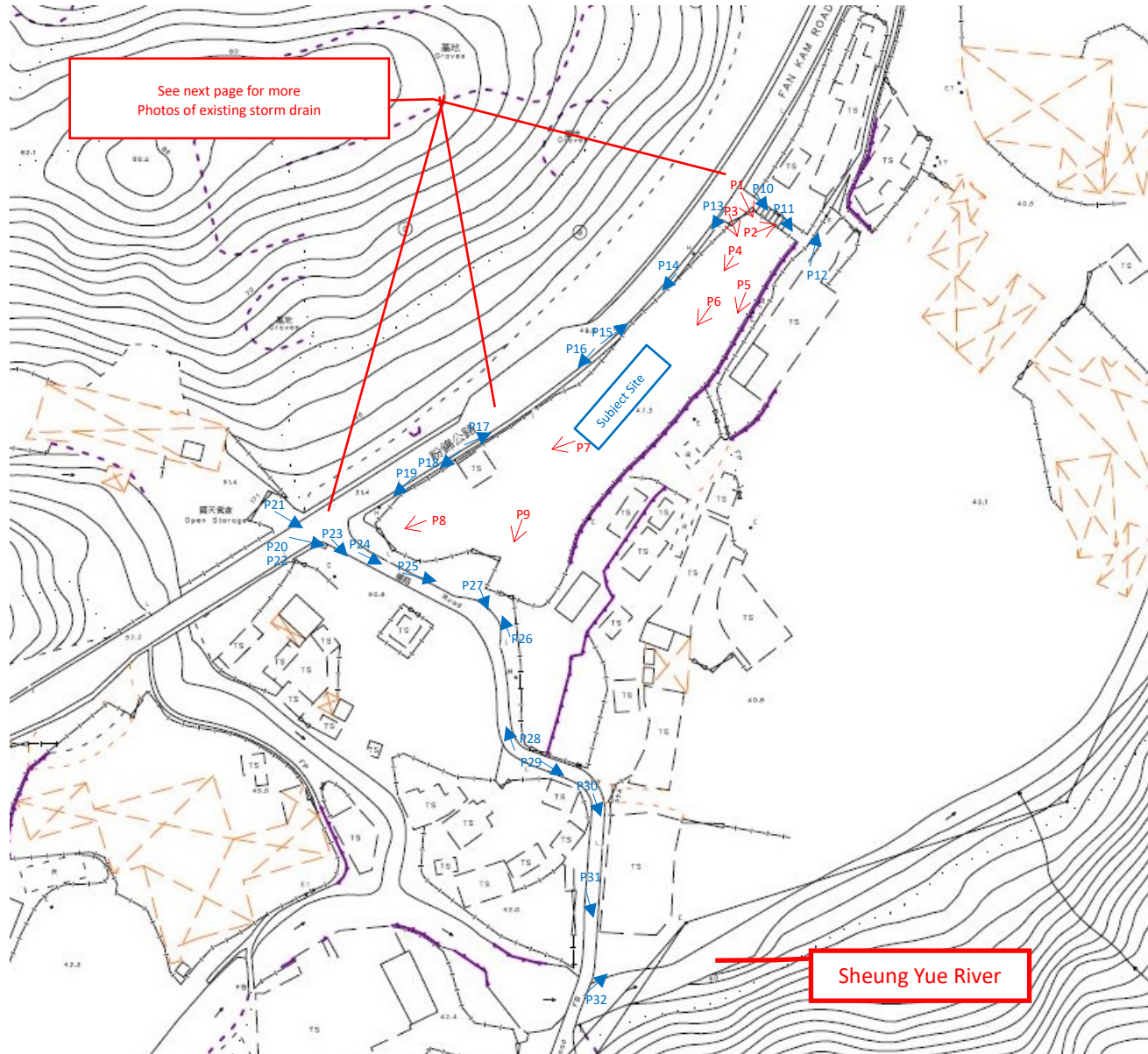


Emergency Power Generator (Package Type)

Detail - 01

ANNEX 7

PHOTOS



Locations of Photo Taken

ANNEX 4

	P1
	P2

	P3
	P4

	P5
	P6
	P7

 A photograph showing a paved area, possibly a parking lot or entrance, with a corrugated metal wall on the left. In the background, there is a gate and a sign with Chinese characters. The ground is cracked and uneven.	P8
 A photograph showing a paved area, possibly a parking lot or entrance, with a green corrugated metal fence in the background. There are trees and foliage behind the fence. The ground is cracked and uneven.	P9

	P10
	P11

	P12
	P13

	P14
	P15

[Type here]

	P16
	P17

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	P18
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	P20
	P21
	P22

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	P23
	P24

[Type here]

	P25
	P26
	P27

[Type here]

	P28
	P29

[Type here]

	P30
	P31
	P32

[Type here]

Appendix P - Photo Record showing gullies along fan kam road



■ 50cm x 45cm

— Channel 35cm (Dia) x 40cm



20 m

Appendix 7

Traffic Impact Assessment Report

Traffic Impact Assessment

For

Section 16 Application

For

Proposed Open Storage and Parking of Vehicle (Temporary Base)

at Sub-Section 1 of Section B of Lot No.82 in DD108,

Fan Kam Road, Pat Heung, Yuen Long

Proposed by: Prudential Surveyors International Limited

Revision: -

Date: Nov 2024

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1. Introduction

1.1 Purpose of this Report

- 1.1.1 The Site falls within an area zoned “Government, Institute or Community” (“G/IC”) under the Approved Kwai Chung Zoning Plan No. S/KC/30 (the Approved OZP). **[Figure 1]**
- 1.1.2 This Traffic Impact Assessment is to support a planning permission from the Town Planning Board (TPB) under Section 16 of the Town Planning Ordinance (CAP. 131) for Proposed Open Storage and Parking of Vehicle (Temporary Base) (the Proposed Development) at Sub-Section 1 of Section B of Lot No.82 in DD108, Fan Kam Road, Pat Heung, Yuen Long (the Site).
- 1.1.3 The applicant has the intention to operate the Site as an Open Storage and Parking of Vehicle (Temporary Base).

1.2 Structure of this Report

- 1.2.1 Following this introductory section, the TIA Report is structured as follows:
 - **Chapter 2** – The Preferred Development Scheme, presents the Site and internal transport facilities;
 - **Chapter 3** – Existing Traffic Context, describes the road network and traffic condition in the vicinity;
 - **Chapter 4** – Traffic Forecasts, describes the methodology of traffic forecasting;
 - **Chapter 5** – Traffic Impact Assessment, presents the assessment results of the TIA at the adopted design year and recommend any improvement measure to alleviate the foreseeable problems, if considered necessary;
 - **Chapter 6** – Summary and Conclusion, summarizes the findings of the study and presents the conclusion accordingly.

2. The Preferred Development Scheme

2.1 Site Location

- 2.1.1 The subject site is located at the junction of Fan Kam Road and local road to Ta Shek Wu Tsuen. The location of the subject site is indicated in **Figure 1**.

2.2 Development Schedule

- 2.2.1 The area of subject site is about 2,943 m². It was previously used as parking site for vacuum pumping vehicles.
- 2.2.2 The northern part of the site is proposed for “Open Storage” use.
- 2.2.3 The southern part of the site would contain 10 numbers of 7.2-metre goods vehicle parking spaces of 7.5m X 2.5m in dimensions and 5 numbers of 9.3-metre goods vehicle parking spaces of 9.5m x 2.8m in dimensions to accommodate 15 numbers of dedicated vehicles as shown in **Table 2.1**.

Table 2.1: List of Parking Vehicles

Vehicle#	License Plate	Dimensions			
		Length (m)	Width (m)	Height (m)	Weight (tonne)
1	SX2534	9.3	2.5	2.9	24
2	WD5200	8.9	2.5	3.25	24
3	UR1333	8.38	2.49	3.02	24
4	WM7737	8.3	2.5	3.15	24
5	SL5808	8.6	2.5	2.9	24
6	RB8146	7.2	2.2	2.5	14
7	UX1398	7.04	2.39	2.51	14
8	WK6901	6.9	2.3	2.7	14
9	UX2055	6.3	2.03	2.11	9
10	VZ5526	6.5	2	2.2	9
11	VC4421	6.78	2.16	2.24	7
12	WD564	5	1.9	1.97	VAN
13	XH3313	5	1.9	1.97	VAN
14	UE4390	5	1.9	1.97	VAN

2.3 Vehicular Access Arrangement

- 2.3.1 The vehicular access to the site is directly located at Fan Kam Road, which serves as run-in/out of vehicles as listed in **Table 2.1**.
- 2.3.2 There are two existing run-in/out for southern part of the Site along access road to Ta Shek Wu Tsuen. For ease of management, neither run-in/out will be used, and only one run-in/out on the northern side of the site will be utilized for access.

3. Existing Traffic Context

3.1 Study Area

- 3.1.1 In order to assess the junction(s) and link(s) which may be affected by the proposed development, the extent of study area is therefore proposed to cover the junction(s) and link(s) that along the major vehicular access routes of the Site. The extent of study area for the TIA are indicated on **Figure 2**.

3.2 Existing Road Network

- 3.2.1 The anticipated vehicular traffic trips of the Site would pass through the following key road links:
- Fan Kam Road, is a rural road connecting Kam Tin Road in south and Fanling Highway in north. The carriageway of Fan Kam Road along the site is single- 2 with about 6m width.

3.3 Existing Public Transport Services

- 3.3.1 The Site is covered by the existing public transport facilities serving the adjacent local area. Bus stops for Fanling bound and Yuen Long bound are located within 100m walking distance from the subject site. The service details are summarized in **Table 3.1**.

Table 3.1: Existing Public Transport Services

RouteNo.	Destinations	Peak Frequency (mins)	Remarks
Franchised Bus			
KMB			
77K	Sheung Shui <> Yuen Long	20-30	-

3.4 Traffic Survey

- 3.4.1 Manual classified traffic count surveys have been conducted on a normal weekday in November 2024 during the morning and evening peak period (0700 to 1000 and 1600 to 1900 hours) at the identified key junction, i.e. priority junction of Fan Kam Road and local road to Ta Shek Wu Tsuen.
- 3.4.2 As indicated by the survey results, the peak hour traffic of the local area would occur during 0800 to 0900 and 1700 to 1800 in the morning and evening periods respectively.

3.5 Existing Traffic Conditions

- 3.5.1 Junction capacity assessments were carried out at the key junctions as listed in Table 3.3 based on the observed peak hour traffic flows. The results are summarized in below **Table 3.2** and the detailed calculation sheets are shown in **Appendix B**.

Table 3.2: Existing Junction Performance

Junction	Location	Control Method	Reserved Capacity	
			AM Peak	PM Peak
J1	Fan Kam Road / Local Road to Ta Shek Wu Tsuen	Priority	0.01	0.01

- 3.5.2 The road link(s) were assessed based on the capacity of nearest width stipulated in Ch.2.4, Vol.2 of TPDM and the Volume to Capacity (V/C) ratio are shown in **Table 3.3**:

Table 3.3: Existing Link Performance

Road	Section	Capacity (veh/hr)	2024 AM Peak		2024 PM Peak	
			Flow (veh/hr)	V/C ratio	Flow (veh/hr)	V/C ratio
Fan Kam Road	Outside the Site	1,400	873	0.62	944	0.67

- 3.5.3 The assessment result showed that the identified key junction and road link are currently operating with spare capacities during peak hour periods.

4. Traffic Forecast

4.1 Methodology

- 4.1.1 The construction works of the Site is limited for proposed use and expected to be completed by 2025. Therefore, it is proposed to adopt 2028 (3 years after completion) as the design year for this TIA study.
- 4.1.2 The background traffic forecasts for the design year 2028 were derived according to the existing traffic flows obtained from traffic survey and then projected by applying a growth rate. The growth rate used was derived by referring to the past traffic growth trend and the latest Territorial Population and Employment Data Matrix (TPEDM).
- 4.1.3 Trip generation of the Site were estimated based on the proposed development schedule and actual operation as advised by the Client. The traffic generations were then assigned to the surrounding road network based on the existing traffic pattern and superimposed onto the reference traffic forecasts to create the design year forecasts for assessment use.

4.2 Growth Rate Determination

- 4.2.1 The background traffic forecasts at design year 2028 were projected by applying a growth rate to the observed traffic flow. The growth rates were determined with reference to the Annual Traffic Census (ATC) Reports published by TD and 2019- based TPEDM planning data published on the website of Planning Department (PlanD). The derivation of the growth rate is presented in the following paragraphs.

Annual Traffic Census

- 4.2.2 The historical traffic growth trend of the major roads in the vicinity of the Site was reviewed by making reference to the ATC reports. The Annual Average Daily Traffic (AADT) data from year 2016 to year 2022 were extracted and the estimated average annual growth rate is given in **Table 4.1**.

Table 4.1: Annual Traffic Census Data

Station No.	Road Link	Average Annual Daily Traffic (AADT)							Growth Rate (p.a.)
		2016	2017	2018	2019	2020	2021	2022	
6212	Fan Kam Road	11900	10780	11570	11660	12250	12450	12400	+0.69%

- 4.2.3 The average annual growth rate determined from ATC data is about +0.69% p.a. from year 2016 to year 2022.

Territorial Population and Employment Data Matrix

- 4.2.4 Reference was also made to the open version of the latest 2019-based TPEDM from year 2019 to year 2031 in the Northwest and Northeast of New Territories. The average annual growth rates in terms of population and employment from year 2019 to 2031 and the estimated growth rates are illustrated in **Table 4.2**.

Table 4.2: Territorial Population and Employment Data

District	Population		Employment		Population + Employment	
	2019	2031	2019	2031	2019	2031
NORTHWEST NEW TERRITORIES	222 800	353 900	58 400	140 150	281 200	494 050
NORTHEAST NEW TERRITORIES	105 400	240 600	36 050	65 550	141 450	306 150
Total	328 200	594 500	94 450	205 700	422 650	800 200
Growth rate (p.a.)	5.08%		6.70%		5.46%	

- 4.2.5 The annual growth rate determined from sum of TPEDM population and employment are about +5.46% p.a. from year 2019 to year 2031.

Adopted Growth Rate

- 4.2.6 From the derived growth rates from ATC and the annual growth rate determined from TPEDM, a growth rate of +5.46% per annum will be adopted to produce the year 2028 background traffic flows in order to conduct a conservative assessment.

4.3 Background Traffic Forecast

- 4.3.1 Applying the adopted growth rate of +5.46% p.a. to the year 2024 observed traffic flow, the 2028 background traffic forecasts during the peak hours are derived.

4.4 Development Traffic Generation

- 4.4.1 As advised by the Client, the assignment of the vehicles is by-appointment basis and mainly occur in late-night period, after opening hours of shops and restaurants. For conservative assessment, 1 time of moving in/out for each of the 15 dedicated vehicles as listed in Table 2.1 is assumed during AM/PM peak hour.
- 4.4.2 Also, for conservative assessment, same number of traffic generation is assumed for "Open Storage" in north part of the Site since the site area is similar. The actual generated traffic is expected lower in certain extend, depends on the exact usage of the spaces.

5. Traffic Impact Assessment

5.1 Methodology

- 5.1.1 The operational performance of junction(s) has been assessed based on the traffic forecast produced in Section 4 according to the procedures outlined in TPDM under both Reference (without the Site) and Design (with the Site) scenarios at the design year 2028.

5.2 Junction and Link Operational Assessment

- 5.2.1 Junction operational assessment has been carried out at the key junction(s) for the year 2028 Reference and Design scenarios. The results of different assessment scenarios are shown in **Table 5.1** and the detail calculation sheets are shown in **Appendix B**.

Table 5.1: Year 2028 Junction Performance

Junction	Location	Control Method	Junction Capacity			
			Reference		Design	
			AM Peak	PM Peak	AM Peak	PM Peak
J1	Fan Kam Road / Local Road to Ta Shek Wu Tsuen	Priority	0.01	0.01	0.09	0.09

- 5.2.2 The road links performance for the year 2028 Reference and Design scenarios are summarized in **Table 5.2**:

Table 5.2: Year 2028 Link Performance

Road	Section	Capacity (veh/hr)	2028 Reference Scenario				2028 Design Scenario			
			AM Peak		PM Peak		AM Peak		PM Peak	
			Flow (veh/hr)	V/C ratio	Flow (veh/hr)	V/C ratio	Flow (veh/hr)	V/C ratio	Flow (veh/hr)	V/C ratio
Fan Kam Road	Outside the Site	1,400	1081	0.77	1168	0.83	1096	0.78	1183	0.84

- 5.2.3 As shown in above tables, all of the identified key junctions and links are still operated within its capacity limit even with the operation of the Site in design year 2028.

6. Summary and Conclusions

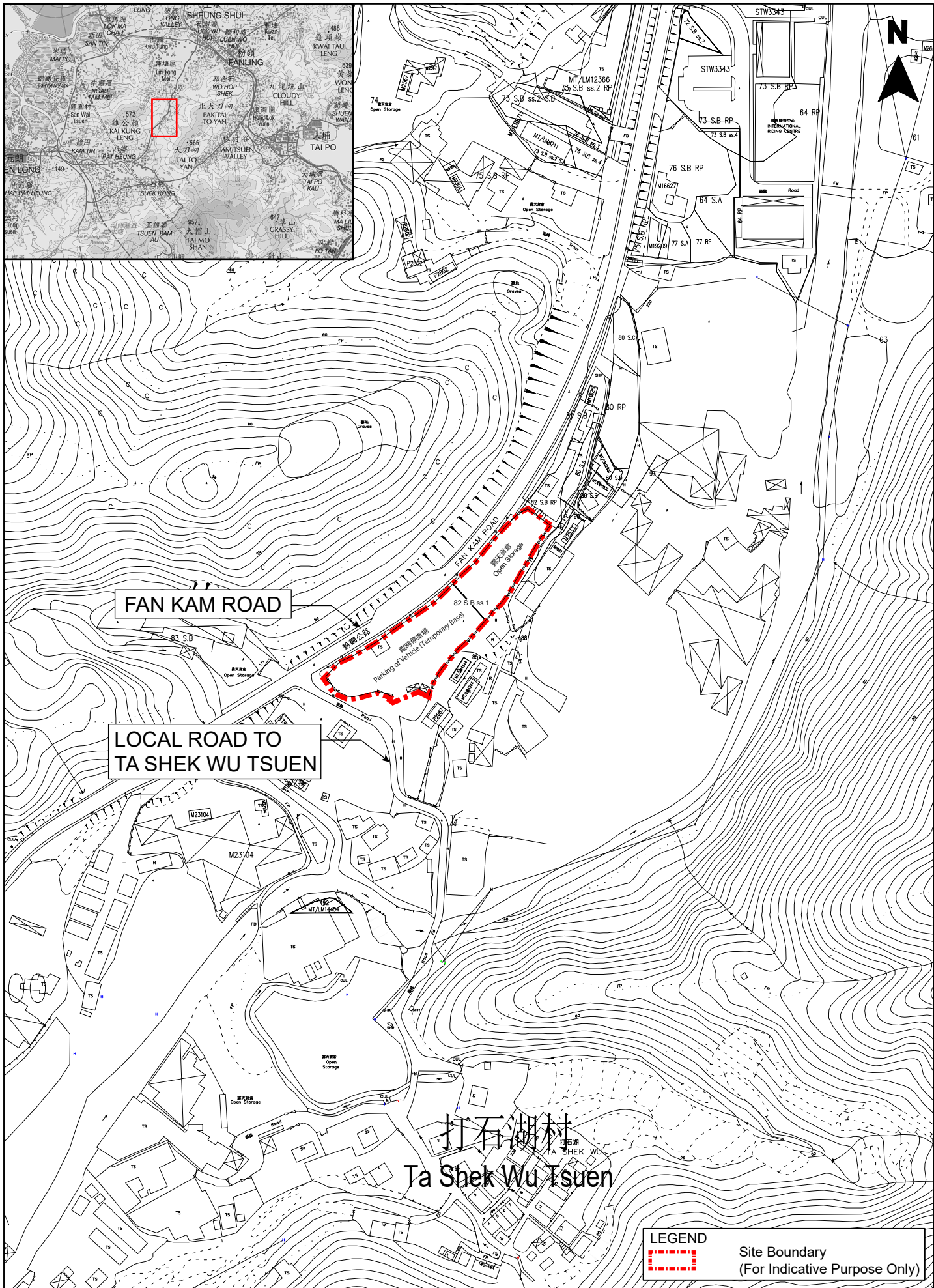
6.1 Summary

- 6.1.1 The applicant has the intention to operate the Site as Open Storage and Temporary Private Car Park containing ten 7.2-metre goods vehicle parking spaces and five 9.3-metre goods vehicle parking spaces.
- 6.1.2 The Site is served by village access road currently with limited local traffic. With the estimated traffic generated by the proposed carpark, the local road and its junction with Fan Kam Road shall perform properly in design scenario.

6.2 Conclusion

- 6.2.1 It is concluded that the Proposed Development would not generate adverse traffic impacts to the adjacent road network and therefore supported from engineering point of view.

Figures



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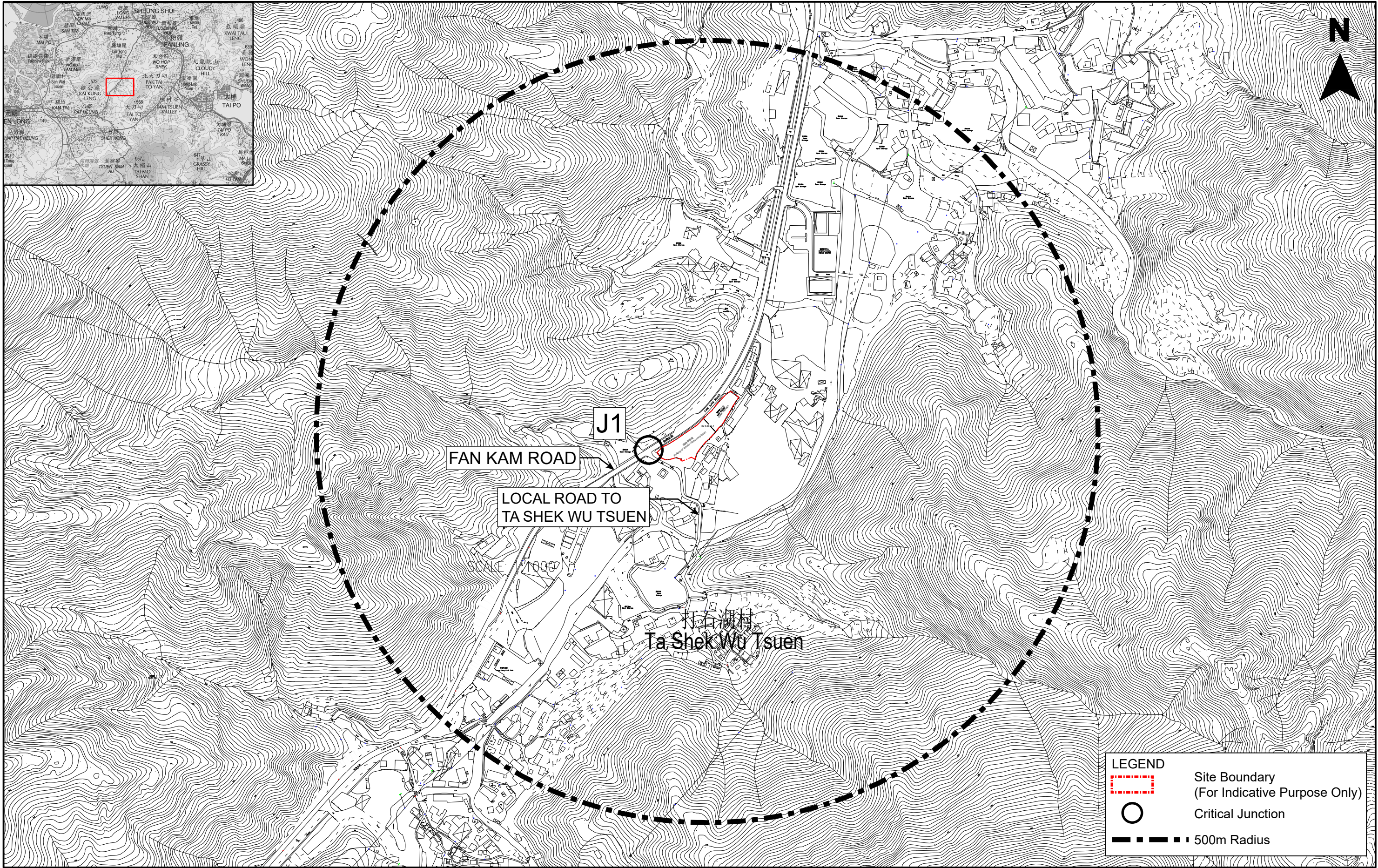


ADDRESS: 3/F & 3/F TUNG WIP COMMERCIAL BUILDING
244 DES VOEUX ROAD CENTRAL HONG KONG
TEL: 2907 8333
FAX: 2908 8578

JOB TITLE:
TEMPORARY VEHICLE PARK (MEDIUM AND HEAVY
GOODS VEHICLE) AND OPEN STORAGE
(OPERATIONAL TOOLS AND MATERIALS) USE FOR
3 YEARS AND FILLING OF LAND AT SUB-SECTION
1 OF SECTION 8 OF LOT NO. 82 (PART) IN DD108,
FAN KAM ROAD, PAT HEUNG, NEW TERRITORIES

Drawing Title:
FIGURE 1
SITE LOCATION PLAN

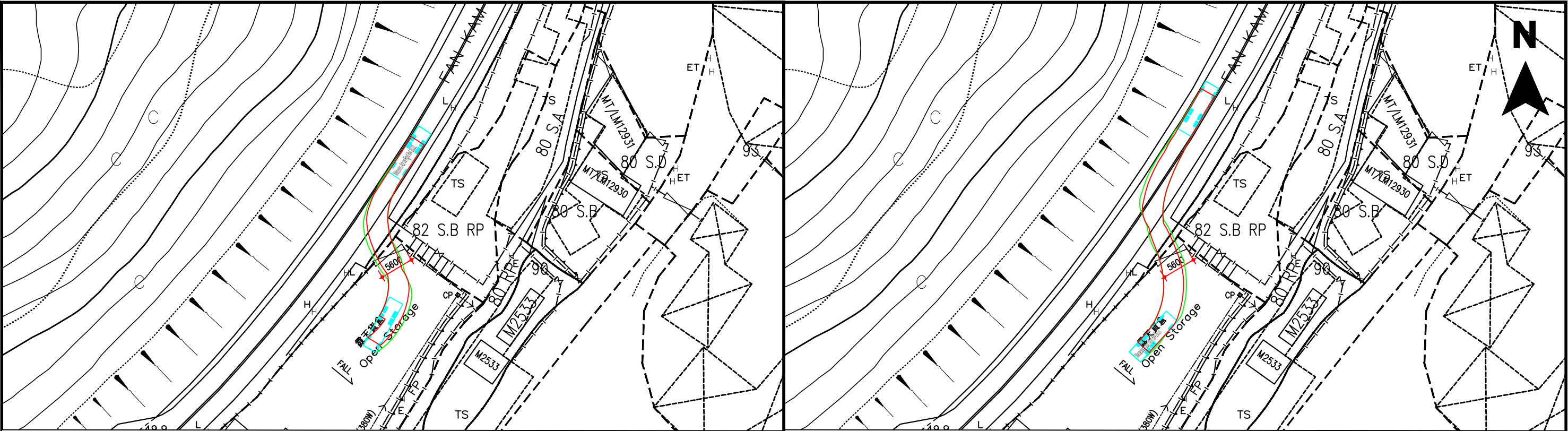
			Drawn IY	Date 14/07/22	Drawing No. TKYLC_P_TIA_01
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			Scale	NTS	Rev.
Rev	Description	Date			



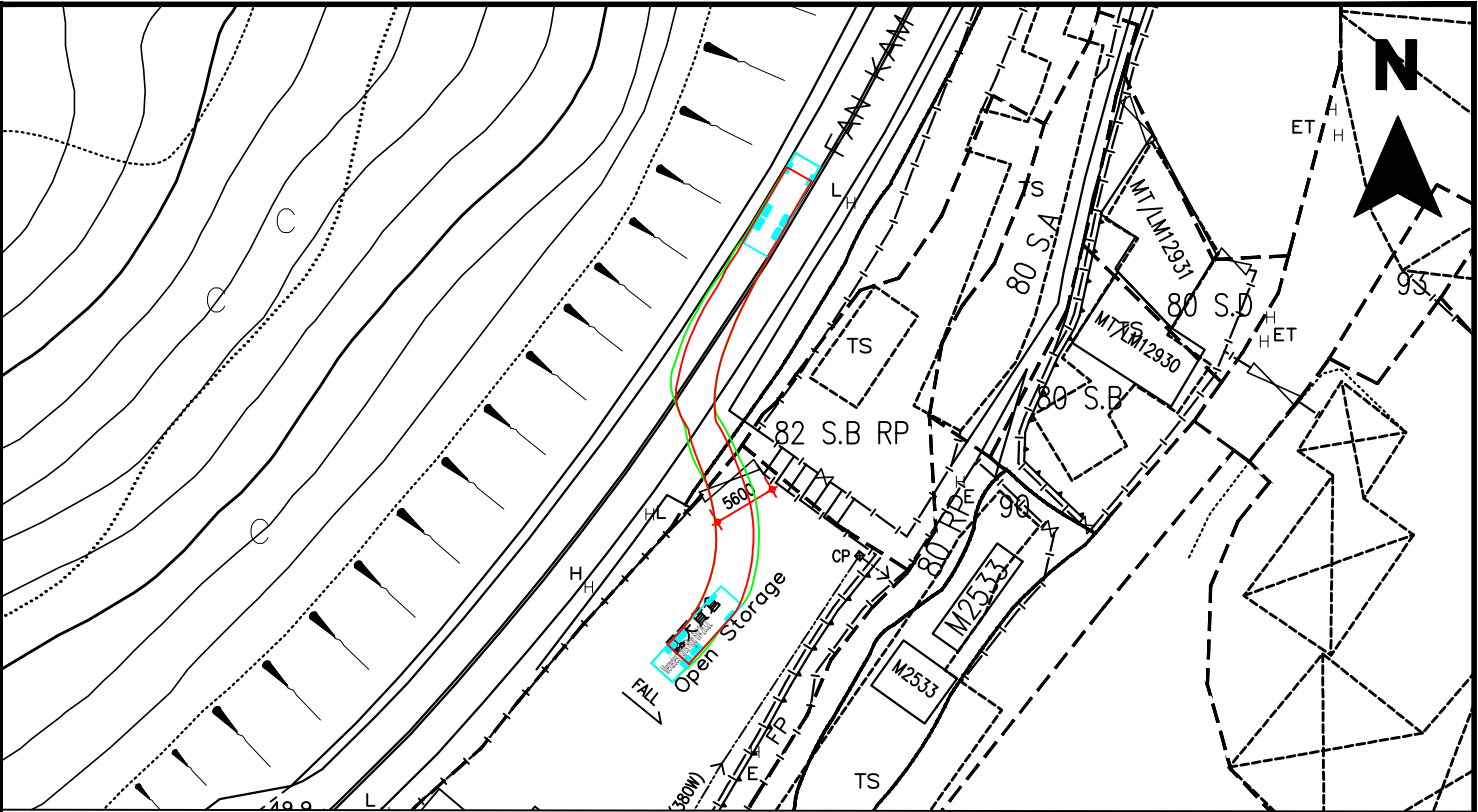
 PRUDENTIAL SUJYIP INC. AND ASSOCIATES LIMITED	ADDRESS: 2/F & 3/F TUNG HIP COMMERCIAL BUILDING 244 DES VOEUX ROAD CENTRAL HONG KONG TEL: 2507 8333 FAX: 2598 6576	JOB TITLE: TEMPORARY VEHICLE PARK (MEDIUM AND HEAVY GOODS VEHICLE) AND OPEN STORAG (OPERATIONAL TOOLS AND MATERIALS) USE FOR 3 YEARS AND FILLING OF LAND AT SUB-SECTION 1 OF SECTION B OF LOT NO.82 (PART) IN DD108, FAN KAM ROAD, PAT HEUNG, NEW TERRITORIES	Drawing Title FIGURE 2 STUDY AREA AND CRITICAL JUNCTION				Drawn	IY	Date	15/07/22	Drawing No. TKYLCP_TIA_02		
							Checked	CH	Approved	CH			
										Scale	1:1000 @ A3		Rev.
				Rev		Description		Date					

Appendix A

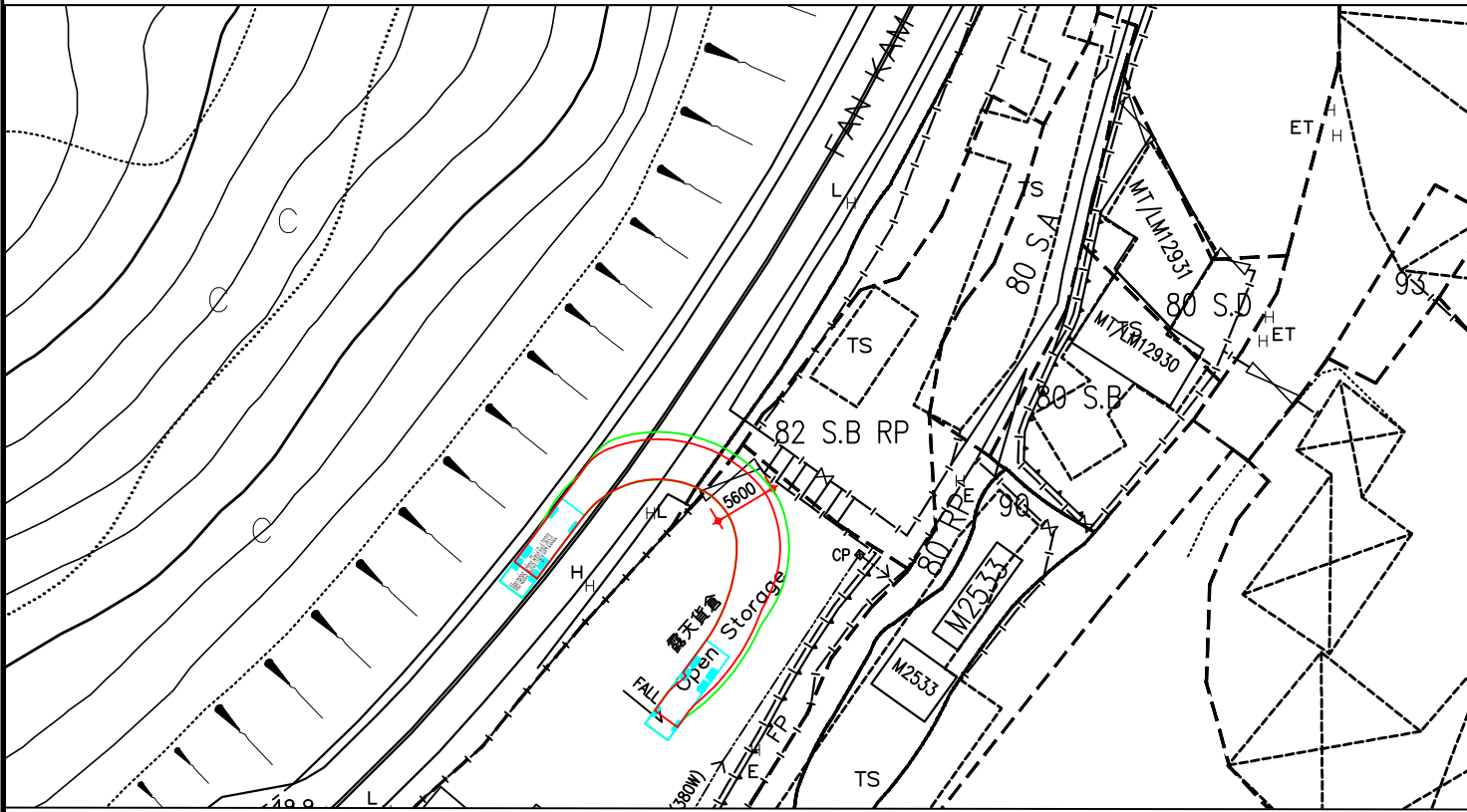
Swept Path Analysis



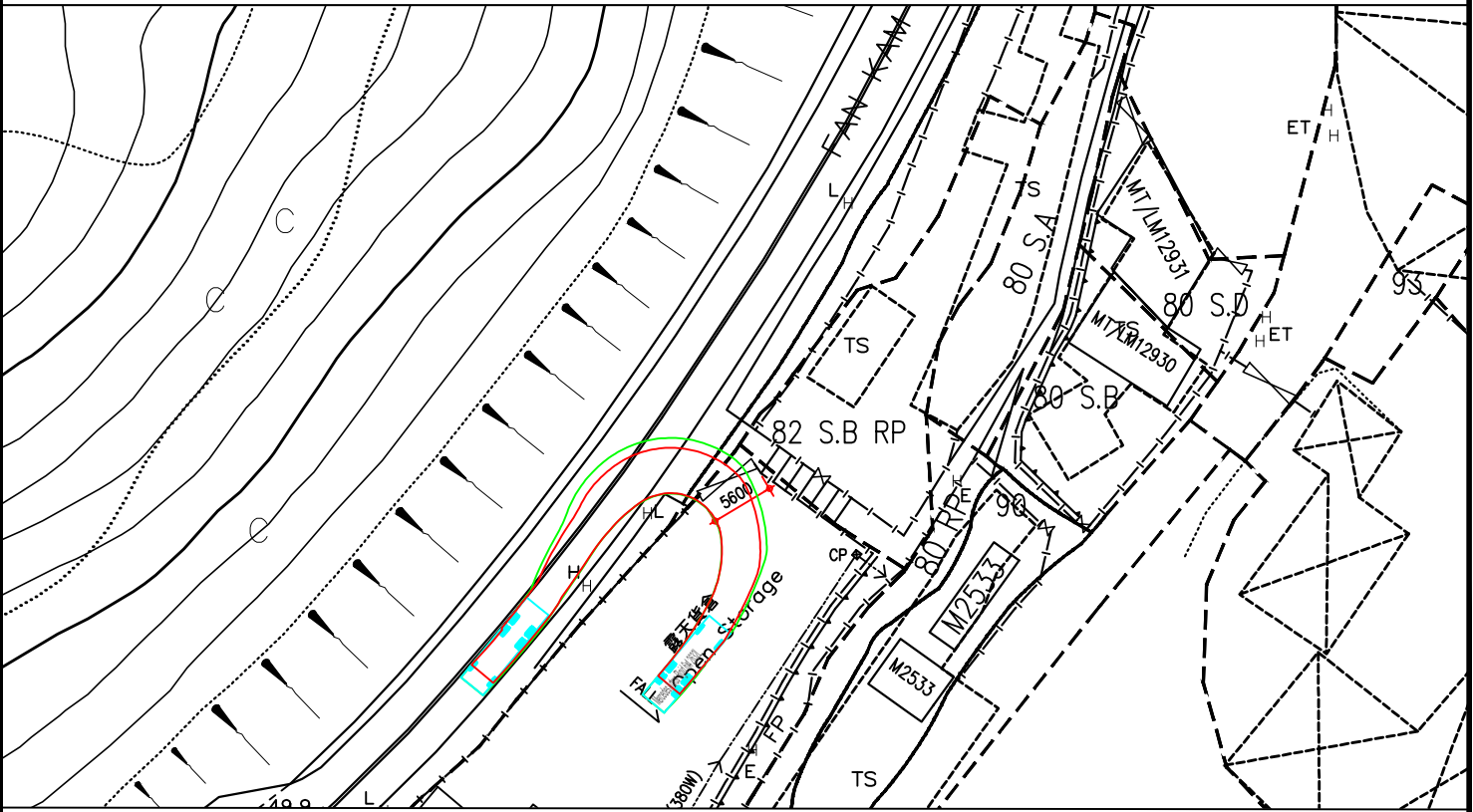
9.3-METRE GOODS VEHICLE MANOEUVRING (ENTER FROM THE RIGHT)
SPEED: 5KM/HR



9.3-METRE GOODS VEHICLE MANOEUVRING (EXIT TO THE RIGHT)
SPEED: 5KM/HR



9.3-METRE GOODS VEHICLE MANOEUVRING (ENTER FROM THE LEFT)
SPEED: 5KM/HR



9.3-METRE GOODS VEHICLE MANOEUVRING (EXIT TO THE LEFT)
SPEED: 5KM/HR

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Filename :

	ADDRESS: 2/F & 3/F TUNG HUP COMMERCIAL BUILDING 244 DES VOEUX ROAD CENTRAL HONG KONG TEL: 2507 8333 FAX: 2598 6576	JOB TITLE: PROPOSED OPEN STORAGE AND PARKING OF VEHICLE (TEMPORARY BASE) AT SUB-SECTION 1 OF SECTION B OF LOT NO.82 IN DD108, FAN KAM ROAD, PAT HEUNG, YUEN LONG	Drawing Title SWEPT PATH DEMONSTRATION – ENTRANCE AND EXIT (OPEN STORAGE PORTION)				Drawn	IV	Date	05/07/22	Drawing No. TKYLCP_SP_ENTRANCE AND EXIT (OPEN STORAGE PORTION)	
							Checked	CH	Approved	CH		
				Rev	Description	Date	Scale		1:1000 @ A3		Rev.	-

Appendix B

Junction Calculations

PRIORITY JUNCTION CALCULATION			INITIALS	DATE	
S16 for DD108 (Section) Fan Kam Road, Pat Heung, Yuen Long	2024AM	PROJECT NO.:	PREPARED BY:	IY	Nov-24
J1: Fan Kam Road / Local Road to Ta Shek Wu Tsuen		FILENAME :	CHECKED BY:	HY	Nov-24
		J1_FKR-TSWT.xls	REVIEWED BY:	CH	Nov-24
		NOTES : (GEOMETRIC INPUT DATA) W = MAJOR ROAD WIDTH W cr = CENTRAL RESERVE WIDTH W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b VI b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a Vr b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b D = STREAM-SPECIFIC B-A E = STREAM-SPECIFIC B-C F = STREAM-SPECIFIC C-B Y = (1-0.0345W)			
GEOMETRIC DETAILS: MAJOR ROAD (ARM A) W = 6.00 (metres) W cr = 0 (metres) q a-b = 1 (pcu/hr) q a-c = 492 (pcu/hr) MAJOR ROAD (ARM C) W c-b = 3.00 (metres) Vr c-b = 250 (metres) q c-a = 381.5 (pcu/hr) q c-b = 1 (pcu/hr) MINOR ROAD (ARM B) W b-a = 3.00 (metres) W b-c = 3.00 (metres) VI b-a = 250 (metres) Vr b-a = 250 (metres) Vr b-c = 250 (metres) q b-a = 5 (pcu/hr) q b-c = 5 (pcu/hr) GEOMETRIC FACTORS : D = 1.1116764 E = 1.0487513 F = 1.0487513 Y = 0.793 THE CAPACITY OF MOVEMENT : Q b-a = 462 Q b-c = 632 Q c-b = 632 Q b-ac = 533.8 TOTAL FLOW = 885.48 (PCU/HR) COMPARISON OF DESIGN FLOW TO CAPACITY: DFC b-a = 0.0108 DFC b-c = 0.0079 DFC c-b = 0.0016 DFC b-c (share lane) = 0.0094 CRITICAL DFC = 0.01					

PRIORITY JUNCTION CALCULATION			INITIALS	DATE	
S16 for DD108 (Section) Fan Kam Road, Pat Heung, Yuen Long	2024PM	PROJECT NO.:	PREPARED BY:	IY	Nov-24
J1: Fan Kam Road / Local Road to Ta Shek Wu Tsuen		FILENAME :	CHECKED BY:	HY	Nov-24
		J1_FKR-TSWT.xls	REVIEWED BY:	CH	Nov-24

NOTES : (GEOMETRIC INPUT DATA)

W = MAJOR ROAD WIDTH

W cr = CENTRAL RESERVE WIDTH

W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a

W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c

W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b

VI b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a

Vr b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a

Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c

Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b

D = STREAM-SPECIFIC B-A

E = STREAM-SPECIFIC B-C

F = STREAM-SPECIFIC C-B

Y = (1-0.0345W)

GEOMETRIC DETAILS:		GEOMETRIC FACTORS :		THE CAPACITY OF MOVEMENT :		COMPARISON OF DESIGN FLOW TO CAPACITY:	
MAJOR ROAD (ARM A)		D = 1.1116764		Q b-a = 447		DFC b-a = 0.0112	
W = 6.00 (metres)		E = 1.0487513		Q b-c = 632 Q b-c (O) = 630.2		DFC b-c = 0.0079	
W cr = 0 (metres)		F = 1.0487513		Q c-b = 632		DFC c-b = 0.0016	
q a-b = 1 (pcu/hr)		Y = 0.793		Q b-ac = 523.6		DFC b-c (share lane) = 0.0095	
q a-c = 492 (pcu/hr)							
MAJOR ROAD (ARM C)				TOTAL FLOW = 955.76 (PCU/HR)			
W c-b = 3.00 (metres)							
Vr c-b = 250 (metres)							
q c-a = 451.8 (pcu/hr)							
q c-b = 1 (pcu/hr)							
MINOR ROAD (ARM B)							
W b-a = 3.00 (metres)							
W b-c = 3.00 (metres)							
VI b-a = 250 (metres)							
Vr b-a = 250 (metres)							
Vr b-c = 250 (metres)							
q b-a = 5 (pcu/hr)							
q b-c = 5 (pcu/hr)							

CRITICAL DFC = 0.01

PRIORITY JUNCTION CALCULATION			INITIALS	DATE	
S16 for DD108 (Section) Fan Kam Road, Pat Heung, Yuen Long	2028AMref	PROJECT NO.:	PREPARED BY:	IY	Nov-24
J1: Fan Kam Road / Local Road to Ta Shek Wu Tsuen		FILENAME :	CHECKED BY:	HY	Nov-24
		J1_FKR-TSWT.xls	REVIEWED BY:	CH	Nov-24

Diagram illustrating the junction layout and traffic flow. The junction involves Sheung On Street SB (ARM A), Sheung On Street NB (ARM C), and Fung Yip Street (ARM B). Traffic flow values are indicated: 609 for Sheung On Street SB, 1 for Sheung On Street NB, and 5 for Fung Yip Street in both directions. Lane numbers [4], [3], [5], and [6] are also shown.

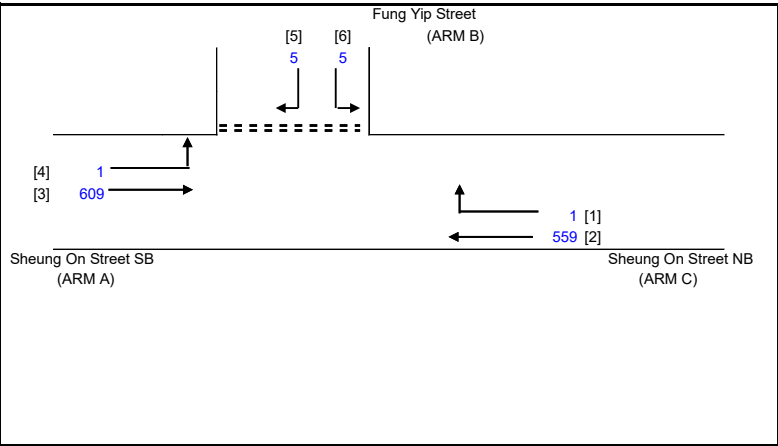
NOTES : (GEOMETRIC INPUT DATA)

W = MAJOR ROAD WIDTH
W cr = CENTRAL RESERVE WIDTH
W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
Vl b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
Vr b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
D = STREAM-SPECIFIC B-A
E = STREAM-SPECIFIC B-C
F = STREAM-SPECIFIC C-B
Y = (1-0.0345W)

GEOMETRIC DETAILS:		GEOMETRIC FACTORS :		THE CAPACITY OF MOVEMENT :		COMPARISON OF DESIGN FLOW TO CAPACITY:	
MAJOR ROAD (ARM A)		D = 1.1116764		Q b-a = 406		DFC b-a = 0.0123	
W = 6.00 (metres)		E = 1.0487513		Q b-c = 597 Q b-c (O) = 595.2		DFC b-c = 0.0084	
W cr = 0 (metres)		F = 1.0487513		Q c-b = 597		DFC c-b = 0.0017	
q a-b = 1 (pcu/hr)		Y = 0.793		Q b-ac = 483.3		DFC b-c (share lane) = 0.0103	
q a-c = 609 (pcu/hr)							
MAJOR ROAD (ARM C)				TOTAL FLOW = 1092.584806 (PCU/HR)			
W c-b = 3.00 (metres)							
Vr c-b = 250 (metres)							
q c-a = 472 (pcu/hr)							
q c-b = 1 (pcu/hr)							
MINOR ROAD (ARM B)							
W b-a = 3.00 (metres)							
W b-c = 3.00 (metres)							
Vl b-a = 250 (metres)							
Vr b-a = 250 (metres)							
Vr b-c = 250 (metres)							
q b-a = 5 (pcu/hr)							
q b-c = 5 (pcu/hr)							

CRITICAL DFC = 0.01

		PRIORITY JUNCTION CALCULATION		INITIALS	DATE	
S16 for DD108 (Section) Fan Kam Road, Pat Heung, Yuen Long		2028PMref	PROJECT NO.:	PREPARED BY:	IY	Nov-24
J1: Fan Kam Road / Local Road to Ta Shek Wu Tsuen			FILENAME :	CHECKED BY:	HY	Nov-24
			J1_FKR-TSWT.xls	REVIEWED BY:	CH	Nov-24



NOTES : (GEOMETRIC INPUT DATA)

W = MAJOR ROAD WIDTH

W cr = CENTRAL RESERVE WIDTH

W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a

W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c

W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b

VI b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a

Vr b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a

Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c

Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b

D = STREAM-SPECIFIC B-A

E = STREAM-SPECIFIC B-C

F = STREAM-SPECIFIC C-B

Y = (1-0.0345W)

GEOMETRIC DETAILS:

GEOMETRIC FACTORS :

THE CAPACITY OF MOVEMENT :

COMPARISON OF DESIGN FLOW TO CAPACITY:

MAJOR ROAD (ARM A)

W = 6.00 (metres)

W cr = 0 (metres)

q a-b = 1 (pcu/hr)

q a-c = 609 (pcu/hr)

D = 1.1116764

E = 1.0487513

F = 1.0487513

Y = 0.793

Q b-a = 388

Q b-c = 597

Q c-b = 597

Q b-ac = 470.3

DFC b-a = 0.0129

DFC b-c = 0.0084

DFC c-b = 0.0017

DFC b-c (share lane) = 0.0106

MAJOR ROAD (ARM C)

W c-b = 3.00 (metres)

Vr c-b = 250 (metres)

q c-a = 558.9 (pcu/hr)

q c-b = 1 (pcu/hr)

TOTAL FLOW = 1179.528411 (PCU/HR)

MINOR ROAD (ARM B)

W b-a = 3.00 (metres)

W b-c = 3.00 (metres)

VI b-a = 250 (metres)

Vr b-a = 250 (metres)

Vr b-c = 250 (metres)

q b-a = 5 (pcu/hr)

q b-c = 5 (pcu/hr)

CRITICAL DFC = 0.01

PRIORITY JUNCTION CALCULATION			INITIALS	DATE	
S16 for DD108 (Section) Fan Kam Road, Pat Heung, Yuen Long	2028AMdes	PROJECT NO.:	PREPARED BY:	IY	Nov-24
J1: Fan Kam Road / Local Road to Ta Shek Wu Tsuen		FILENAME :	CHECKED BY:	HY	Nov-24
		J1_FKR-TSWT.xls	REVIEWED BY:	CH	Nov-24

NOTES : (GEOMETRIC INPUT DATA)

W = MAJOR ROAD WIDTH

W cr = CENTRAL RESERVE WIDTH

W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a

W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c

W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b

VI b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a

Vr b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a

Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c

Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b

D = STREAM-SPECIFIC B-A

E = STREAM-SPECIFIC B-C

F = STREAM-SPECIFIC C-B

Y = (1-0.0345W)

GEOMETRIC DETAILS:		GEOMETRIC FACTORS :		THE CAPACITY OF MOVEMENT :		COMPARISON OF DESIGN FLOW TO CAPACITY:	
MAJOR ROAD (ARM A)		D = 1.1116764		Q b-a = 406		DFC b-a = 0.0862	
W = 6.00 (metres)		E = 1.0487513		Q b-c = 597 Q b-c (O) = 584.1		DFC b-c = 0.0586	
W cr = 0 (metres)		F = 1.0487513		Q c-b = 597		DFC c-b = 0.0017	
q a-b = 1 (pcu/hr)		Y = 0.793		Q b-ac = 483.3		DFC b-c (share lane) = 0.0724	
q a-c = 609 (pcu/hr)							
MAJOR ROAD (ARM C)				TOTAL FLOW = 1152.584806 (PCU/HR)			
W c-b = 3.00 (metres)							
Vr c-b = 250 (metres)							
q c-a = 472 (pcu/hr)							
q c-b = 1 (pcu/hr)							
MINOR ROAD (ARM B)							
W b-a = 3.00 (metres)							
W b-c = 3.00 (metres)							
VI b-a = 250 (metres)							
Vr b-a = 250 (metres)							
Vr b-c = 250 (metres)							
q b-a = 35 (pcu/hr)							
q b-c = 35 (pcu/hr)							

CRITICAL DFC = 0.09

PRIORITY JUNCTION CALCULATION			INITIALS	DATE	
S16 for DD108 (Section) Fan Kam Road, Pat Heung, Yuen Long	2028PMdes	PROJECT NO.:	PREPARED BY:	IY	Nov-24
J1: Fan Kam Road / Local Road to Ta Shek Wu Tsuen		FILENAME :	CHECKED BY:	HY	Nov-24
		J1_FKR-TSWT.xls	REVIEWED BY:	CH	Nov-24

NOTES : (GEOMETRIC INPUT DATA)

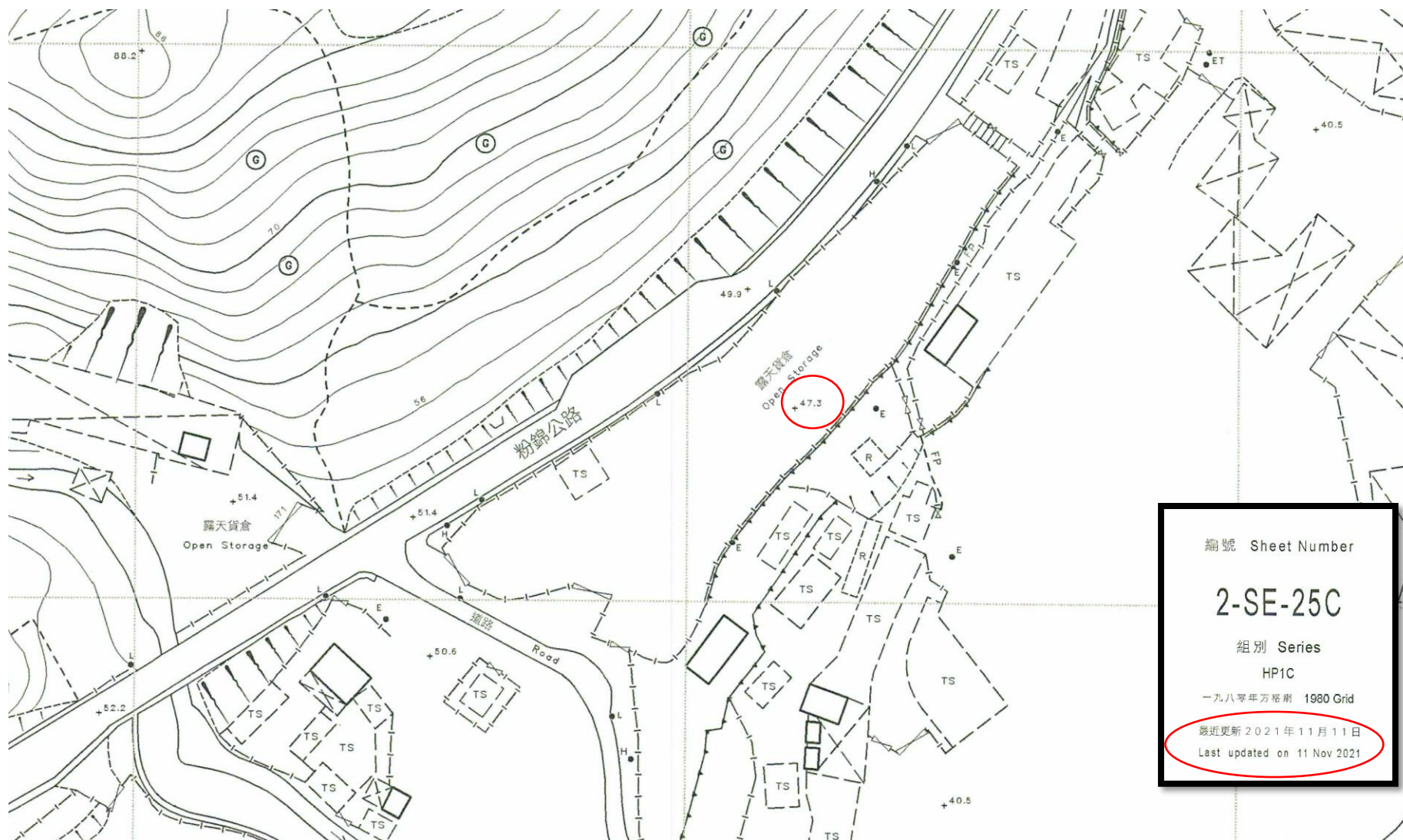
W = MAJOR ROAD WIDTH
W cr = CENTRAL RESERVE WIDTH
W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
Vl b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
Vr b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
D = STREAM-SPECIFIC B-A
E = STREAM-SPECIFIC B-C
F = STREAM-SPECIFIC C-B
Y = (1-0.0345W)

GEOMETRIC DETAILS:		GEOMETRIC FACTORS :		THE CAPACITY OF MOVEMENT :		COMPARISON OF DESIGN FLOW TO CAPACITY:	
MAJOR ROAD (ARM A)		D = 1.1116764		Q b-a = 388		DFC b-a = 0.0902	
W = 6.00 (metres)		E = 1.0487513		Q b-c = 597 Q b-c (O) = 583.5		DFC b-c = 0.0586	
W cr = 0 (metres)		F = 1.0487513		Q c-b = 597		DFC c-b = 0.0017	
q a-b = 1 (pcu/hr)		Y = 0.793		Q b-ac = 470.3		DFC b-c (share lane) = 0.0744	
q a-c = 609 (pcu/hr)							
MAJOR ROAD (ARM C)				TOTAL FLOW = 1239.528411 (PCU/HR)			
W c-b = 3.00 (metres)							
Vr c-b = 250 (metres)							
q c-a = 558.9 (pcu/hr)							
q c-b = 1 (pcu/hr)							
MINOR ROAD (ARM B)							
W b-a = 3.00 (metres)							
W b-c = 3.00 (metres)							
Vl b-a = 250 (metres)							
Vr b-a = 250 (metres)							
Vr b-c = 250 (metres)							
q b-a = 35 (pcu/hr)							
q b-c = 35 (pcu/hr)							

CRITICAL DFC = 0.09

Appendix 8

Historical Survey Sheets

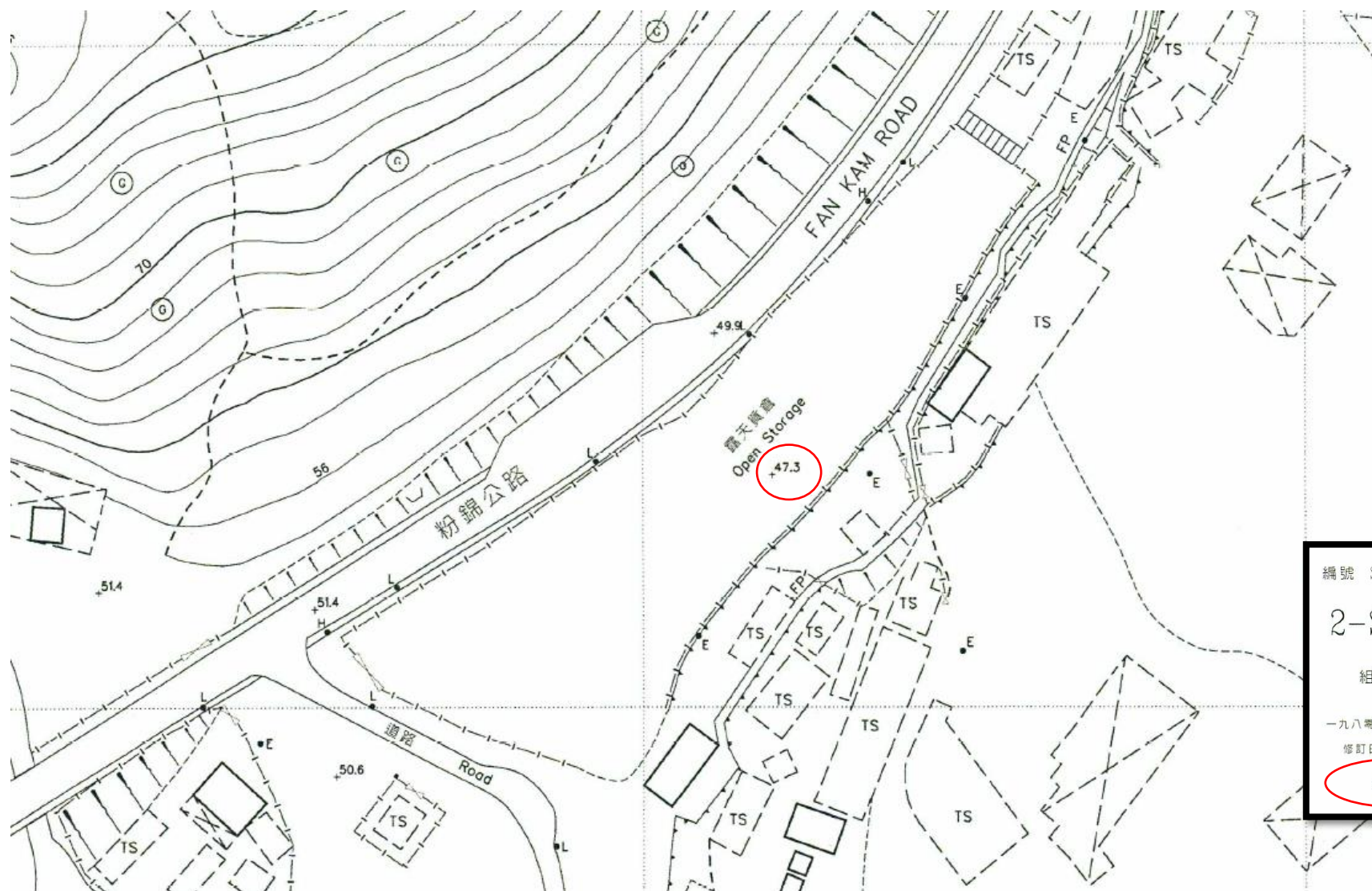


編號 Sheet Number
2-SE-25C

組別 Series
HP1C

一九八零年方格網 1980 Grid

最近更新 2021 年 11 月 11 日
Last updated on 11 Nov 2021



編號	Sheet Number
2-SE-25C	
組別	Series
HPIC	
一九八零年方格網 1980 Grid	
修訂日期	Revision Date
Nov 2004	

Appendix 9

Historical Aerial Photos

A/YL-PH/499
(15/01/2021)



A/YL-PH/499
(29/07/2005)



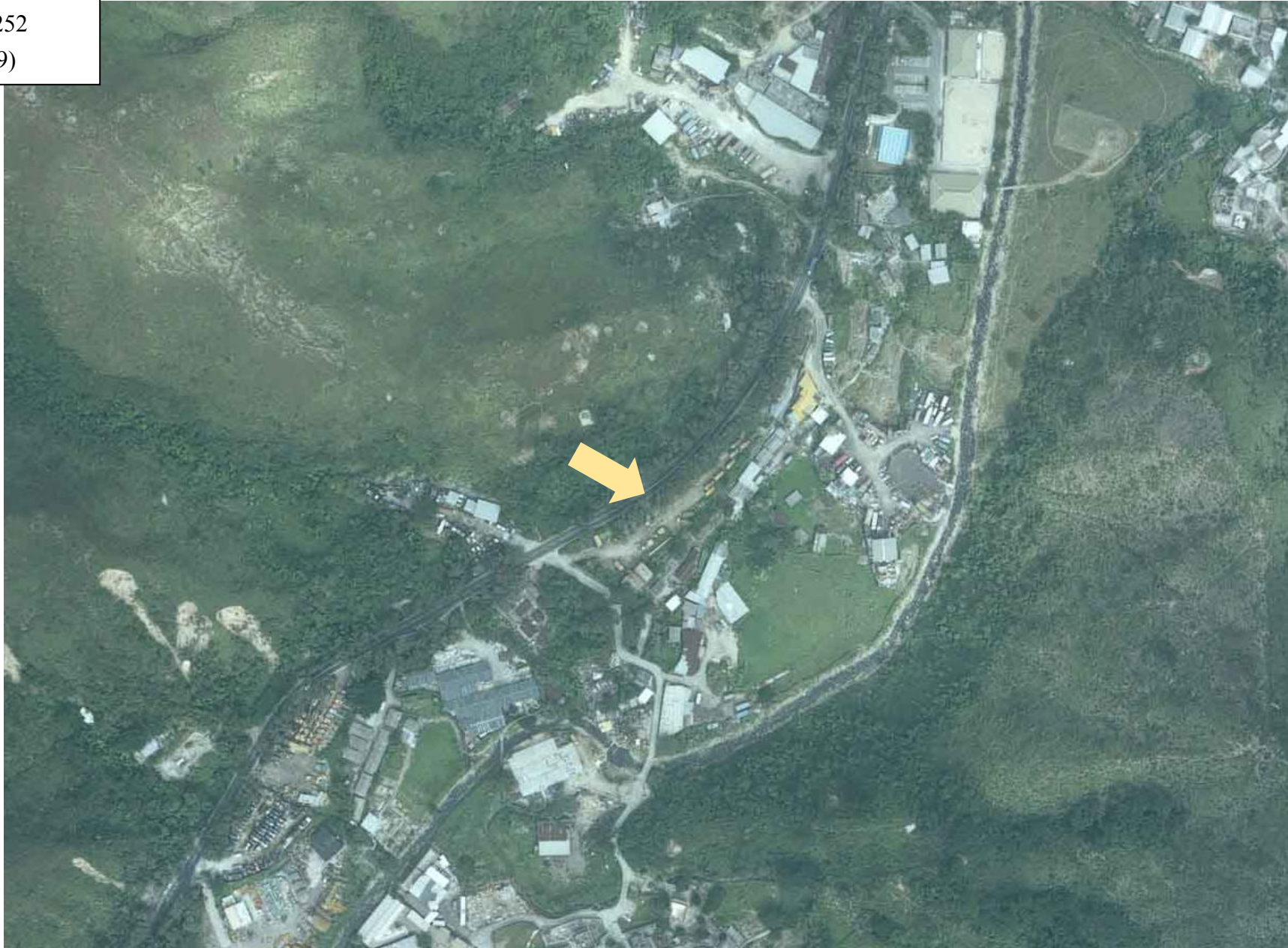
A/YL-PH/459
(26/03/2004)



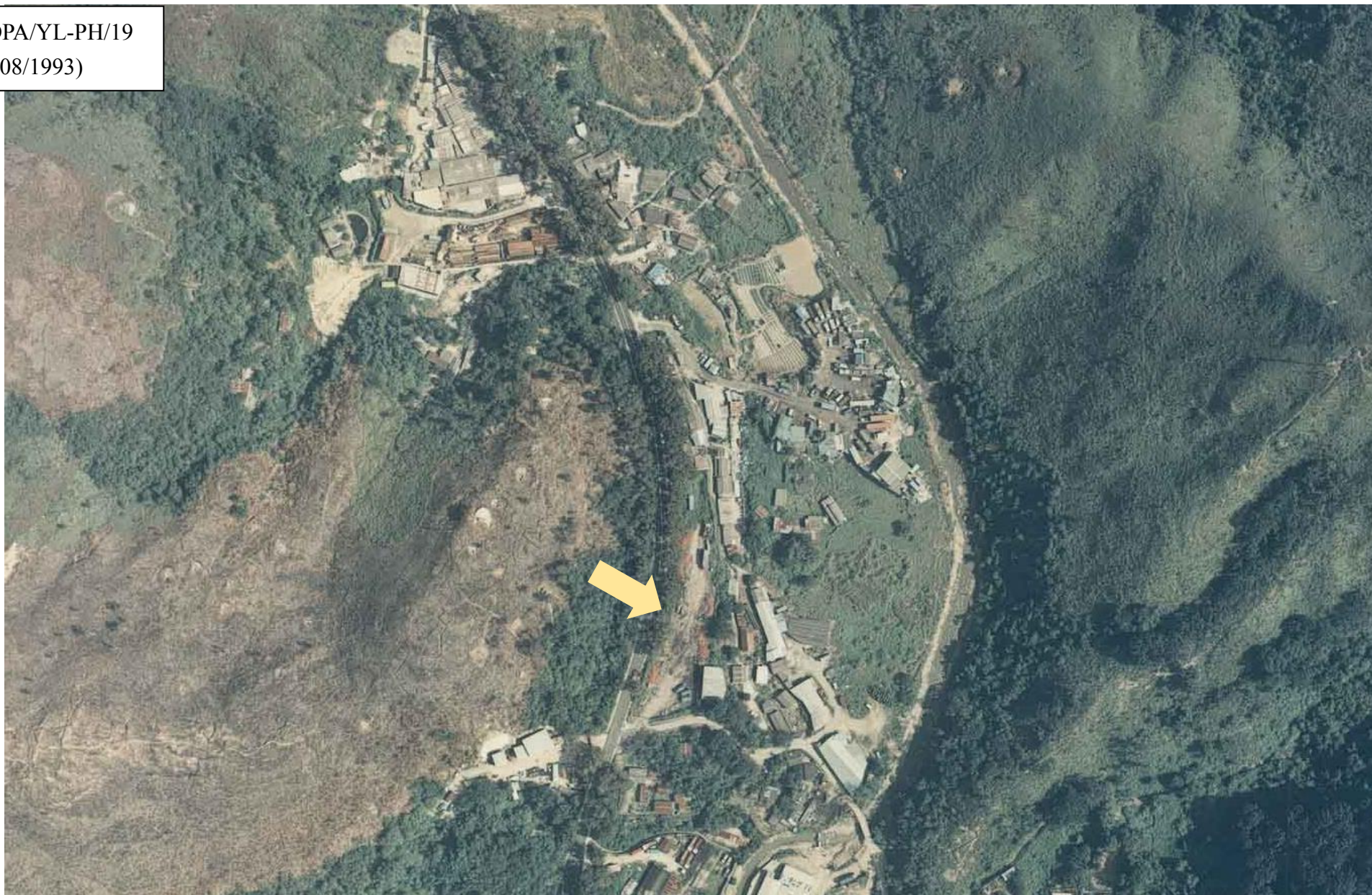
A/YL-PH/354
(02/02/2001)



A/YL-PH/252
(08/01/1999)



A/DPA/YL-PH/19
(13/08/1993)



19 December 2024

Our Ref: TPB191224OA-B8354

By Post
Secretary
Town Planning Board Secretariat
15/F North Point Government Offices
333 Java Road
North Point
Hong Kong

Dear Sirs,

**Re: Planning Application for
Temporary Private Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage
(Operational Tools and Materials) Use for 3 years and Associated Filling of Land at
Sub-Section 1 of Section B of Lot No.82 (Part) in DD108, Fan Kam Road, Pat Heung, New
Territories (the "Premises")**

We act on behalf of the applicant and lot owner of the Premises, HUGE GREAT INTERNATIONAL LIMITED, to submit the application under s.16 of the Town Planning Ordinance for a Temporary Private Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage (Operational Tools and Materials) Use for 3 years at the Premises and Associated Filling of Land.

Four copies of the application documents are attached. Should you have any queries, please feel free to contact our Mr. Ken Fong at [REDACTED] or the undersigned at [REDACTED].

We look forward to hearing from you soon.

Yours faithfully,
For and on behalf of
PRUDENTIAL SURVEYORS INTERNATIONAL LIMITED



Michael C K Lee
Director
Valuation & Advisory
Encls.

c.c. Client



Member of PRUDEN



Our Fellows



From: Ken Fong [REDACTED]
Sent: Monday, March 17, 2025 11:25 AM
To: [REDACTED]
Subject: Re: Inquiry regarding your S16 Planning Application for Lot 82 S.B ss.1 in D.D. 108, Pat Heung

Dear Ms. Leung,

As talked, attached please find the revised executive summary.

--

Best Regards
Ken Fong
Associate Director
Valuation & Advisory

Prudential Surveyors (Hong Kong) Limited 測建行香港有限公司
3/F & 2/F Tung Hip Commercial Building 244 Des Voeux Road Central Hong Kong Map
香港德輔道中 244 號 東協商業大廈 3 樓及 2 樓 地圖
Tel 電話: [REDACTED]
DDI 直線: [REDACTED]
Mobile 手機: [REDACTED]
Fax 傳真: (852) 2598 6576
Info 查詢: info@pruden.com.hk<mailto:info@pruden.com.hk>
Website 網址: www.pruden.com.hk<http://www.pruden.com.hk>

寄件者: Ken Fong [REDACTED]
寄件日期: 2025年04月24日星期四 15:04
收件者: tpbpd/PLAND
副本: [REDACTED]
主旨: Re: S16 Planning application No. A/YL-PH/1056 - FI
附件: 250423 letter.pdf; RtoC.pdf

類別: Internet Email

Dear Sirs,

We refer to the captioned application and would like to submit the FI (dated 23 April 2025) in response to the public comments and comments from DPO as attached.

Regards

Ken Fong

Ken Fong 於 23/4/2025 12:22 寫道:

> Dear Sirs,

>

> We would like to withdraw our letter dated 22 April 2025.

>

--

Best Regards

Ken Fong

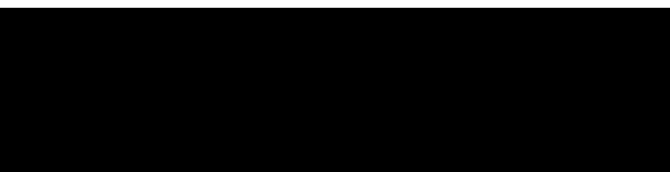
Associate Director

Valuation & Advisory

Prudential Surveyors (Hong Kong) Limited 測建行香港有限公司

3/F & 2/F Tung Hip Commercial Building 244 Des Voeux Road Central Hong Kong Map

香港德輔道中 244 號 東協商業大廈 3 樓及 2 樓 地圖



Fax 傳真: (852) 2598 6576

Info 查詢: info@pruden.com.hk<mailto:info@pruden.com.hk>

Website 網址: www.pruden.com.hk<http://www.pruden.com.hk>

23 April 2025

Your Ref: A/YL-PH/1056
Our Ref: TPB230425OA-B8354

By Email and by Post

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

Dear Sirs,

**Re: Planning Application A/YL-PH/1056 for
Temporary Private Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage
(Operational Tools and Materials) Use and Associated Filling of Land for 3 years at
Sub-Section 1 of Section B of Lot No.82 (Part) in DD108, Fan Kam Road, Pat Heung, New
Territories (the "Premises")**

We refer to the captioned application and the public comments and comments from District Planning Office received on 16 April 2025 and would like to submit the reply as attached.

Should you have any queries, please feel free to contact our Mr. Ken Fong at [REDACTED] or the undersigned at [REDACTED].

Yours faithfully,
For and on behalf of
PRUDENTIAL SURVEYORS INTERNATIONAL LIMITED



Michael C K Lee
Director
Valuation & Advisory
Encls.

c.c. Client



**Re: S16 Planning Application A/YL-PH/1056 for
Temporary Private Vehicle Park (Medium and Heavy Goods Vehicle) and Open Storage (Operational Tools and Materials) Use and
Associated Filling of Land for 3 years at
Sub-Section 1 of Section B of Lot No.82 (Part) in DD108, Fan Kam Road, Pat Heung, New Territories**

(A) Comments from Planning Department**Applicant/Consultant's Response**

1.	Please clarify whether the applied uses under the current application is the same with the last application No. (A/YL-PH/933) and also support the operation of a cleansing company.	The applied uses of current application are same as the last application No. (A/YL-PH/933) and also support the operation of a cleansing company for parking of company's vehicle (same user as previous application).
2.	The area of the open storage for cleansing tools and materials and circulation space (northern portion of the Site) and the area of the private vehicle park (the southern portion of the site).	The area of the open storage for cleansing tools and materials and circulation space is mainly at northern portion of the Site with area about 973 s.m. whilst the private vehicle park is at the southern portion with area about 1,829 s.m..
3.	The existing condition of the northern part of the Site as containers are observed during our site inspection. What are those containers for.	The containers on site are used for temporary storage of the tools and materials.
4.	The types of cleansing objects/tools/materials to be stored at the Site (northern portion).	Please noted that the List of Tools and Equipment to be stored at the application site is shown in Appendix 4 of the S.16 Submission. The list is attached in Annex 1 for easy reference.
5.	The types of vehicles to be parked at the site (southern portion).	Please noted that the types of vehicles to parked at the site is shown on P.4 of Traffic Impact Assessment Report in Appendix 7 of the S.16 Submission which included vans and pumping vehicles for domestic liquid waste and waste cooking oils. The extract page is attached in Annex 2 for easy reference.
6.	The reasons for non-compliance with the approval conditions in relation to the submission and implementation of drainage proposal under the last application No. (A/YL-PH/933). How the Applicant can ensure compliance of approval conditions this time.	After the approval of the previous S.16 Application on 28 July 2023, the Applicant has actively addressed the comments from Drainage Service Department (DSD) regarding to the drainage proposal. Serval version of drainage proposal has been submitted to DSD on 15 February 2024, 8

		August 2024 and the DSD has provide their further comments on the drainage proposal on 25 April 2024, 15 June 2024 and 8 Oct 2024. Due to the time frame set out by Town Planning Board/Planning Department, there is not sufficient time for the Applicant to submit another version of the drainage proposal for DSD's approval and also conduct the proposed drainage works under the previous approval. Therefore, the Applicant decided to submit the new application. Please note that the Applicant is always willing to comply with the approval conditions and are prepared to implement the drainage proposal once it is approved by DSD.
7.	Please confirm whether there is vehicle repair workshop/workshop activities to be conducted at the Site.	Please be confirmed that no vehicle repair workshop or any other type of workshop activities will be conducted at the Site.
8.	Reponses to public comments which have been sent to you in our email dated 15.4.2025; in particular the types of vehicle of the said medium/heavy goods vehicles to be parked on the Site (photos of the vehicles), as well as any planned mitigation measures to reduce the environmental nuisances to the nearby residents (Ta Shek Wu Tsuen).	As per the TIA report, the vehicle access for the Site would be Fan Kam Road which could avoid disturbance to the local residents on traffic aspect. The vehicles to be parked on site included vans, goods vehicles and pumping vehicles for domestic liquid waste and waste cooking oils, photos of the vehicles are attached in Annex 3. Pumping vehicles will only be parked at the Site. No further processing nor operation will be conducted on the Site. Also, the user of the Site has obtained permission/license to handle domestic liquid waste from DSD and waste cooking oils from EPD (the licenses are attached in Annex 4). Therefore, they have complied also relevant government requirements on handling the waste, and would not generate environment nuisances to the nearby residents.

Annex

1. List of Tools and Equipment
2. List of Vehicles
3. Photos of Vehicles
4. "Waste Cooking Oils" Collector License and Domestic Liquid Waste Disposal Permission

類別 Category	貨品描述 Item Description
CCTV 裝備	CCTV車仔電池(o)
CCTV 裝備	CCTV鏡頭套(o)
CCTV 裝備	CCTV鏡頭 (大)(o)
CCTV 裝備	CCTV鏡頭 (細)(o)
CCTV 裝備	CCTV車仔(o)
CCTV 裝備	CCTV手推機電腦(o)
CCTV 裝備	CCTV車仔電腦(o)
CCTV 裝備	CCTV40米推藤 (SPP-40)(o)
CCTV 裝備	CCTV60米推藤 (SPP-60)(o)
CCTV 裝備	CCTV80米推藤 (SPP-80)(o)
工具-服務	泊洛(1.5噸)
工具-服務	擋水板
工具-服務	快駁 (2.5吋公)
工具-服務	快駁 (2吋呔)
工具-服務	快駁 (2吋公)
工具-服務	快駁 (3吋呔)
工具-服務	快駁 (3吋公)
工具-服務	快駁蓋 (放水喉蓋)(4吋)
工具-服務	4吋公外瓦
工具-服務	3吋呔外瓦
工具-服務	2.5吋刁2"
工具-服務	3吋刁2.5"
工具-服務	4吋呔外瓦
工具-服務	4吋快駁呔
工具-服務	4吋快駁公
工具-服務	3吋公外瓦
工具-服務	3吋呔內瓦
工具-服務	2.5吋公外瓦
工具-服務	2吋公外瓦
工具-服務	2.5吋呔外瓦
工具-服務	三星架 (開井蓋用)
工具-服務	鐵撬
工具-服務	玻璃膠
工具-服務	手提式通渠機機轆
工具-服務	手提式通渠機渠滕
工具-服務	鈎 (通渠用)(短)
工具-服務	鈎 (通渠用)(長)
工具-服務	井匙 (大)
工具-服務	井匙 (中)
工具-服務	井匙 (細)
工具-服務	手搖泊洛
工具-服務	照明燈
工具-服務	18" 元形雙止口輕身沙井(淨蓋面)
工具-服務	高壓水槍(o)
工具-服務	鋁梯 (5級)(o)
工具-服務	鋁梯 (7級)(o)
工具-服務	爬齒(o)
工具-服務	刷(吸油箱仔用)
工具-服務	鐵殼
工具-服務	樹葉杷
工具-服務	膠圈 (4吋)
工具-服務	膠圈 (2吋)
工具-服務	4吋波子閘掣
工具-服務	4齒鋤耙
工具-服務	3吋防漏膠圈

類別 Category	貨品描述 Item Description
工具-服務	淡水泵(細)
工具-服務	剗 (吸井用)(短)
工具-服務	小心地滑牌
制服	高級 / 服務員 - 黑色 長斜布褲 (30碼)
制服	高級 / 服務員 - 黑色 長斜布褲 (32碼)
制服	高級/服務員-黑色長斜布褲(34碼)
制服	高級/服務員-黑色長斜布褲(36碼)
制服	高級/服務員-黑色長斜布褲(42碼)
制服	STI-紅色polo衫(加加加加大碼)
制服	送貨員T-Shirt (大) 短袖
制服	送貨員T-Shirt (大)長袖
制服	送貨員T-Shirt(中) 短袖
制服	送貨員T-Shirt(中) 長袖
制服	送貨員T-Shirt (加大) 短袖
制服	送貨員T-Shirt (加大) 長袖
制服	送貨員T-Shirt (加加大) 短袖
制服	送貨員T-Shirt (加加大) 長袖
消耗品-服務	喉箍 (2吋)
消耗品-服務	喉箍 (2.5吋)
消耗品-服務	喉箍 (3吋)
消耗品-服務	保護衣(藍色)
消耗品-服務	DT215保護衣
消耗品-服務	Fogger - Filter
消耗品-服務	Fogger - Mask
消耗品-服務	黑色膠圈 (2.5吋)
消耗品-服務	油渣手套(藍)
消耗品-服務	馬路膠紙
消耗品-服務	引水帶
消耗品-服務	百潔布-中國(紅)
消耗品-服務	海棉
消耗品-服務	VACUUM HOSE-2
消耗品-服務	VACUUM HOSE-2.5
消耗品-服務	VACUUM HOSE-2-01
消耗品-服務	VACUUM HOSE-3
消耗品-服務	漁夫褲(半身)
消耗品-服務	漁夫褲(全身)
消耗品-輔助	手套 (黑色膠手套)
密閉空間/個人防護裝備	寶露華連風喉 (12吋)
密閉空間/個人防護裝備	寶露華連風喉 (8吋)
密閉空間/個人防護裝備	GAS DETECTOR
密閉空間/個人防護裝備	安全帽(到期日: 2024)
密閉空間/個人防護裝備	安全帽(到期日: 2024/11)
密閉空間/個人防護裝備	醫療急救箱(密閉空間專用)
密閉空間/個人防護裝備	充氣救生衣(一次性)
密閉空間/個人防護裝備	個人警報器(救命鐘)
密閉空間/個人防護裝備	復甦器
密閉空間/個人防護裝備	安全帶
密閉空間/個人防護裝備	眼罩
密閉空間/個人防護裝備	擔架床
機件-服務	發電機(o)
機件-服務	電磨機(o)
機件-服務	電攪機(o)
機件-服務	中國焗霧機件(0)
機件-服務	手提式通渠機(o)
機件-服務	電吊機(o)

類別 Category	貨品描述 Item Description
機件-服務	水泵 (清洗水缸用)(o)
機件-服務	吸水機 (小露寶)
機件-服務	吸水機 3600w,90L(小露寶)
機件-服務	(小露寶)-長駁頭(光嘴)40mm
機件-服務	(小露寶)-短接頭(凹凸嘴)40mm

2. The Preferred Development Scheme

2.1 Site Location

- 2.1.1 The subject site is located at the junction of Fan Kam Road and local road to Ta Shek Wu Tsuen. The location of the subject site is indicated in **Figure 1**.

2.2 Development Schedule

- 2.2.1 The area of subject site is about 2,943 m². It was previously used as parking site for vacuum pumping vehicles.
- 2.2.2 The northern part of the site is proposed for “Open Storage” use.
- 2.2.3 The southern part of the site would contain 10 numbers of 7.2-metre goods vehicle parking spaces of 7.5m X 2.5m in dimensions and 5 numbers of 9.3-metre goods vehicle parking spaces of 9.5m x 2.8m in dimensions to accommodate 15 numbers of dedicated vehicles as shown in **Table 2.1**.

Table 2.1: List of Parking Vehicles

Vehicle#	License Plate	Dimensions				
		Length (m)	Width (m)	Height (m)	Weight (tonne)	
1	SX2534	9.3	2.5	2.9	24	Pumping Vehicles
2	WD5200	8.9	2.5	3.25	24	
3	UR1333	8.38	2.49	3.02	24	
4	WM7737	8.3	2.5	3.15	24	
5	SL5808	8.6	2.5	2.9	24	
6	RB8146	7.2	2.2	2.5	14	
7	UX1398	7.04	2.39	2.51	14	
8	WK6901	6.9	2.3	2.7	14	
9	UX2055	6.3	2.03	2.11	9	
10	VZ5526	6.5	2	2.2	9	
11	VC4421	6.78	2.16	2.24	7	
12	WD564	5	1.9	1.97	VAN	
13	XH3313	5	1.9	1.97	VAN	
14	UE4390	5	1.9	1.97	VAN	

2.3 Vehicular Access Arrangement

- 2.3.1 The vehicular access to the site is directly located at Fan Kam Road, which serves as run-in/out of vehicles as listed in **Table 2.1**.
- 2.3.2 There are two existing run-in/out for southern part of the Site along access road to Ta Shek Wu Tsuen. For ease of management, neither run-in/out will be used, and only one run-in/out on the northern side of the site will be utilized for access.

S.16 Application No. A/YL-PH/1056

Photos of Vehicles

Van



Pumping Vehicle



Pumping Vehicle



Pumping Vehicle



環境保護署
Environmental Protection Department

登記證書 Certificate of Registration

謹此證明
This is to certify that

史偉莎環保服務有限公司

LBS Environmental Services Limited

商業登記號碼 Business Registration No.: 67184916

已獲環境保護署登記成為
「廢置食用油」（只限隔油池廢物）收集商。

has been registered with
the Environmental Protection Department as
“Waste Cooking Oils” (Grease Trap Waste only) Collector.

登記編號 Registration number: WCO-CR-1702001

有效日期 Valid Period: 29.05.2023 - 28.05.2025



環境保護署署長(夏婷怡 代行)
(Sherry HA)

for Director of Environmental Protection

日期 Date: 15 . 05 . 2023



環境保護署
Environmental Protection Department

登記證書 Certificate of Registration

謹此證明
This is to certify that

海洋環保服務公司

Ocean Environmental Protection Service Company

商業登記號碼 Business Registration No.: 67184916

已獲環境保護署登記成為
「廢置食用油」（只限隔油池廢物）收集商。

has been registered with
the Environmental Protection Department as
“Waste Cooking Oils” (**Grease Trap Waste only**) Collector.

登記編號 Registration number: WCO-CR-1603014

有效日期 Valid Period: 20.07.2024 - 19.07.2026



環境保護署署長(夏婷怡 代行)
(Sherry HA)

for Director of Environmental Protection

日期 Date: 15 .07.2024



Drainage Services Department
Sewage Treatment Division 1

1 Shui Chong Street, Ma Liu Shui, Shatin, N. T.

渠務署
污水處理部 1
新界沙田馬料水水廠街 1 號

來函檔號 Your Ref:

本署檔號 Our Ref: (01906J) in DSD ST 9/GEN/03/01 (2025-26)

電話 Tel: (852) 2891 6269
傳真 Fax: (852) 2827 8619

郵寄及電郵
lbsenv@lbsgroup.com.hk

LBS Environmental Services Limited (史偉莎環保服務有限公司)

(Attn : Ms Vincy Kong)

Permission No. : **P0032**
排放許可號碼

Approval of Domestic Liquid Waste Disposal Permission in Year 2025/26

(Non-Government or Non-Public Utility Facilities)

2025/26 年度住宅流質廢物排放許可續期申請 (非政府或非公用事業設施)

I write to inform you that your application to the Domestic Liquid Waste Disposal Permission in Year 2025/26 for Pillar Point Sewage Treatment Works (PPSTW), Ap Lei Chau Preliminary Treatment Works (ALCPTW) and Sai Kung Sewage Treatment Works (SKSTW) are approved. Your company may discharge domestic liquid waste (DLW) to the below assigned disposal location from 1 April 2025 to 31 March 2026 based on the Permission Clauses. The disposal cost of domestic liquid waste is **HK\$13.70** per cubic meter.

貴公司的 2025/26 年度於望后石污水處理廠、鴨脷洲污水處理廠及西貢污水處理廠的住宅流質廢物排放許可已獲批准。由 2025 年 4 月 1 日起至 2026 年 3 月 31 日期間，貴公司可按排放許可條款將住宅流質廢物運往指定的污水處理廠排放，費用為每立方米**港幣\$13.70**。

Disposal location 排放地點	Daily Permitted Volume of Sewage Treatment Plant (m ³ /day) 污水處理廠之每日可排放量上限 (立方米/每日)	Opening Hours 開放時間
Pillar Point Sewage Treatment Works 望后石污水處理廠	1500	Monday to Sunday 9:00 a.m. to 6:00 p.m. 星期一至星期日 上午九時至下午六時
Ap Lei Chau Preliminary Treatment Works 鴨脷洲污水處理廠	500	Monday to Sunday 9:00 a.m. to 5:00 p.m. 星期一至星期日 上午九時至下午五時
Sai Kung Sewage Treatment Works 西貢污水處理廠	30	Monday to Sunday 9:00 a.m. to 12:00 p.m. 星期一至星期日 上午九時至下午十二時

The updated permission clauses and Performance Assessment System (PAS) for the Permission DSD-DLW01 (Rev. 03/2022) has been effected from 1 April 2022. For details, please refer to our letter (ref. (018MJM) in DSD ST 9/GEN/03/01 (2025-26)) dated 12 February 2025 or visit our website www.dsd.gov.hk.

最新版本之排放許可條款及排放許可的表現評估制度 DSD-DLW01 (03/2022 版) 已於 2022 年 4 月 1 日生效，詳情請參閱本署於 2025 年 2 月 12 日發給貴公司的信件 (編號: (018MJM) in DSD ST 9/GEN/03/01 (2025-26)) 或瀏覽本署網頁 www.dsd.gov.hk。

According to the permission clause 13, all items of the trip ticket DSD-DLW03 (Rev. 04/2021) - (Appendix A) shall be completed truthfully and accurately. Starting from 1 April 2022, if information of the waste collection source could not be provided during DLW disposal, you shall provide information of those waste collection source to DSD within 7 days after that DLW disposal. Besides, unless otherwise approved by this department, you shall not discharge DLW collected from government facilities and public utility facilities to our plants. For disposal of DLW collected from those facilities, you shall coordinate with the responsible person of that government/public utility to seek DSD individually for granting of special approval of designated disposal arrangement. Trip Ticket template DSD-DLW03 is not applicable to the disposal of DLW collected from government/public utility facilities, other designated trip ticket approved by this department shall be used instead.

根據住宅流質廢物排放許可條款第十三條，運載記錄表 DSD-DLW03 (04/2021 版) - (附件甲) 的每一項資料都必須如實無誤地填妥。由 2022 年 4 月 1 日起，如收集廢物的來源資料未能於排放住宅流質廢物時填妥，貴公司必須於該次排放後七天內提交該次收集廢物的來源資料至本署。除本署特准情況外，貴公司不得排放由政府設施及公用事業設施收集的住宅流質廢物到本署的污水處理廠。排放由這些設施收集的住宅流質廢物，貴公司須配合該政府或公用事業設施負責人獨立向本署申請以獲得特許安排批准。運載紀錄表 DSD-DLW03 也不適用於排放由政府及公用事業設施收集的住宅流質廢物，排放由這些設施收集的住宅流質廢物須使用本署特許批准的運載紀錄表。

The template of trip ticket for disposal of domestic liquid waste DSD-DLW03 (Rev. 04/2021) can be downloaded from our website www.dsd.gov.hk and is attached in Appendix A for your reference. Should you have any enquiries, please feel free to call Tel. 2698 6548, email to "domestic_liquid_waste@dsd.gov.hk" or Whatsapp to 5191 1852.

排放住宅流質廢物之運載紀錄表 DSD-DLW03 (04/2021 版) 可於本署網頁 www.dsd.gov.hk 下載，亦隨函於附件甲附上。如有任何查詢，請致電 2698 6548、電郵至「domestic_liquid_waste@dsd.gov.hk」或 Whatsapp 至 5191 1852。

Andy C. C. HO

for Chief Engineer/Sewage Treatment 1

Drainage Services Department

渠務署 總工程師/污水處理 1

21 March 2025

2025 年 3 月 21 日

(何志忠



代行)



Drainage Services Department
Sewage Treatment Division 1

1 Shui Chong Street, Ma Liu Shui, Shatin, N. T.

渠務署
污水處理部 1
新界沙田馬料水水廠街1號

來函檔號 Your Ref:

本署檔號 Our Ref: (01906R) in DSD ST 9/GEN/03/01 (2025-26)

電話 Tel: (852) 2891 6269
傳真 Fax: (852) 2827 8619

郵寄、電郵及傳真
oceanlbs@gmail.com /2302 0669

Ocean Environmental Protection Service Company (海洋環保服務公司)

(Attn : Hannah Wong)

Permission No. : P0040
排放許可號碼

Approval of Domestic Liquid Waste Disposal Permission in Year 2025/26

(Non-Government or Non-Public Utility Facilities)

2025/26 年度住宅流質廢物排放許可續期申請 (非政府或非公用事業設施)

I write to inform you that your application to the Domestic Liquid Waste Disposal Permission in Year 2025/26 for Pillar Point Sewage Treatment Works (PPSTW), Ap Lei Chau Preliminary Treatment Works (ALCPTW) and Sai Kung Sewage Treatment Works (SKSTW) are approved. Your company may discharge domestic liquid waste (DLW) to the below assigned disposal location from 1 April 2025 to 31 March 2026 based on the Permission Clauses. The disposal cost of domestic liquid waste is **HK\$13.70** per cubic meter.

貴公司的 2025/26 年度於望后石污水處理廠、鴨脷洲污水處理廠及西貢污水處理廠的住宅流質廢物排放許可已獲批准。由 2025 年 4 月 1 日起至 2026 年 3 月 31 日期間，貴公司可按排放許可條款將住宅流質廢物運往指定的污水處理廠排放，費用為每立方米**港幣\$13.70**。

Disposal location 排放地點	Daily Permitted Volume of Sewage Treatment Plant (m ³ /day) 污水處理廠之每日可排放量上限 (立方米/每日)	Opening Hours 開放時間
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我們的**抱負**是提供世界級的污水和雨水處理排放服務，以促進香港的可持續發展。

Our **VISION** is to provide world-class wastewater and stormwater drainage services enabling the sustainable development of Hong Kong.

ISO 9001, 14001 &
45001
Certified

- 備註： (i) All sewage treatment plants disposal services will be suspended when typhoon signal no. 8 or above is issued by the Observatory
當天文台發出八號或以上颱風信號時，所有污水處理廠將暫停接受流質廢物排放。
- (ii) According to Permission Clause 14, when our sewage treatment plant has reached the daily permitted volume, our plant staff have the right to stop receiving DLW and may request any tanker to leave the plant.
跟據排放許可條款第十四條，當本署之污水處理廠到達每日可排放量上限時，本署職員有權停止接收住宅流質廢物，並要求吸缸車離開。

We observed that your estimated disposal volume in PPSTW, ALCPTW and SKSTW are 270, 54 and 216 m³/month respectively. According to current information declared by various companies, the estimated disposal volume is close to the daily permitted volume of PPSTW and SKSTW, which may exceed the treatment capacity of the plant. To avoid misunderstanding, you are being reminded for Permission Clause 14 and please consider to suitably distribute your disposal volume to each plant.

本署留意到貴公司預計於望后石、鴨脷洲及西貢污水處理廠的預計排放量分別為每月 270、54 及 216 立方米，跟據現時各公司向本署申報的資料，望后石及西貢污水處理廠已接近每日可排放量上限及將有可能超出部分廠房的處理量。貴公司須注意排放許可條款第十四條，亦建議貴公司適當地分配於各廠房的排放量，以免產生誤會。

Your performance assessment score at 1 April 2025

: 24

貴公司於 2025 年 4 月 1 日持有之表現評估分數

The registered tanker vehicles under your company are as follows:

以下是貴公司登記的吸缸車：

Vehicle registration number 車牌號碼	Tank volume (m ³) 吸缸容量 (立方米)	Vehicle chassis number 底盤號碼	Vehicle engine number 引擎號碼
RB8146	4.8	FK62FG-A00025	6M60-154100
ZU2989	5.6	JHDFE8JJPXXX10097	J08EWT12004
SL5808	12	JALFXZ777E7000005	6UZ1-480420

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The template of trip ticket for disposal of domestic liquid waste DSD-DLW03 (Rev. 04/2021) can be downloaded from our website www.dsd.gov.hk and is attached in Appendix A for your reference. Should you have any enquiries, please feel free to call Tel. 2698 6548, email to "domestic_liquid_waste@dsd.gov.hk" or Whatsapp to 5191 1852.

排放住宅流質廢物之運載紀錄表 DSD-DLW03 (04/2021 版) 可於本署網頁 www.dsd.gov.hk 下載，亦隨函於附件甲附上。如有任何查詢，請致電 2698 6548、電郵至「domestic_liquid_waste@dsd.gov.hk」或 Whatsapp 至 5191 1852。

Andy C. C. HO

for Chief Engineer/Sewage Treatment 1

Drainage Services Department

渠務署 總工程師/污水處理 1

13 March 2025

2025 年 3 月 13 日

(何志忠



代行)

**Relevant Extracts of Town Planning Board Guidelines for
Application for Open Storage and Port Back-Up Uses
under Section 16 Of The Town Planning Ordinance (TPB PG-No.13G)**

1. On 14.4.2023, the Town Planning Board Guidelines for Application for Open Storage and Port Back-Up Uses under Section 16 Of The Town Planning Ordinance (TPB PG-No.13G) were promulgated, which set out the following criteria for the various categories of the area:
 - (a) Category 1 areas: favourable consideration will normally be given to applications within these areas, subject to no major adverse departmental comments and local objections, or the concerns of the departments and local residents can be addressed through the implementation of approval conditions. Technical assessments should be submitted if the proposed uses, such as container trailer/tractor park and open storage of chemical products/ dangerous goods etc., may cause significant environmental and traffic concerns;
 - (b) Category 2 areas: planning permission could be granted on a temporary basis up to a maximum period of 3 years, subject to no adverse departmental comments and local objections, or the concerns of the departments and local residents can be addressed through the implementation of approval conditions. Technical assessments, where appropriate or if required, should be submitted to demonstrate that the proposed uses would not have adverse drainage, traffic, visual, landscaping and environmental impacts on the surrounding areas;
 - (c) Category 3 areas: applications would normally not be favourably considered unless the applications are on sites with previous planning approvals (irrespective of whether the application is submitted by the applicant of previous approval or a different applicant). Sympathetic consideration may be given if genuine efforts have been demonstrated in compliance with approval conditions of the previous planning applications and/or relevant technical assessments/proposals have been included in the fresh applications, if required, to demonstrate that the proposed uses would not generate adverse drainage, traffic, visual, landscaping and environmental impacts on the surrounding areas. Planning permission could be granted on a temporary basis up to a maximum period of 3 years, subject to no adverse departmental comments and local objections, or the concerns of the departments and local residents can be addressed through the implementation of approval conditions; and
 - (d) Category 4 areas: applications would normally be rejected except under exceptional circumstances. For applications on sites with previous planning approvals (irrespective of whether the application is submitted by the applicant of previous approval or a different applicant), and subject to no adverse departmental comments and local objections, sympathetic consideration may be given if genuine efforts have been demonstrated in compliance with approval conditions of the previous planning applications and/or relevant technical assessments/ proposals have been included in the fresh application, if required, to demonstrate that the proposed uses would not generate adverse drainage, traffic, visual, landscaping and environmental impacts on the surrounding areas. The intention is however to encourage the phasing out of such non-conforming uses as early as possible. A maximum period of 3 years may be allowed for an applicant to identify suitable sites for relocation. Application for renewal of approval will be assessed on its individual merits.

2. In assessing applications for open storage and port back-up uses, the other major relevant assessment criteria are also summarised as follows:
- (a) port back-up sites and those types of open storage generating adverse noise, air pollution and visual intrusion and frequent heavy vehicle traffic should not be located adjacent to sensitive receivers such as residential dwellings, hospitals, schools and other community facilities;
 - (b) port back-up uses are major generators of traffic, with container trailer/ tractor parks generating the highest traffic per unit area. In general, therefore, port back-up sites should have good access to the strategic road network, or be accessed by means of purpose built roads;
 - (c) adequate screening of sites through landscaping and/or fencing should be considered where sites are located adjacent to public roads or are visible from surrounding residential areas;
 - (d) there is a general presumption against conversion of active or good quality agricultural land and fish ponds to other uses on an ad-hoc basis. For flood prone areas or sites which would obstruct natural drainage channels and overland flow, advice should be sought;
 - (e) for applications involving sites with previous planning approvals, should there be no evidence to demonstrate that the applicants have made any genuine effort to comply with the approval conditions of the previous planning applications, the Board may refuse to grant permission, notwithstanding other criteria set out in this Guidelines are complied with; and
 - (f) having considered that the open storage and port back-up uses have a role to play in Hong Kong's economy and provide considerable employment opportunities, and the operators/uses affected by resumption and clearance operations of the Government to make way for developments may face difficulties in finding a replacement site, sympathetic consideration could be given to such type of applications, except those involving land in Category 4 area (only minor encroachment may be allowed), if the following criteria are met:
 - (i) policy support is given by the relevant bureau(x) to the application for relocation of the affected uses/operations to the concerned sites; and
 - (ii) no adverse departmental comments and local objections, or the concerns could be addressed by approval conditions.

Previous Applications involving the Site

Approved Applications

	Application No.	Proposed Uses/Developments	Date of Consideration (RNTPC)
1.	A/DPA/YL-PH/19	Open Storage of Vehicles and General Goods	13.8.1999 (for three years)
2.	A/YL-PH/252	Temporary Open Storage of Private Cars and Lorries (excluding Containers and Container Vehicles) for a Period of 12 Months	8.1.1999
3.	A/YL-PH/354	Proposed Temporary Open Storage of Private Cars and Lorries for a Period of 3 Years	29.11.2001
4.	A/YL-PH/459	Temporary Open Storage of Private Cars and Lorries and Machinery for a Period of 3 Years	26.3.2004 (Revoked on 2.8.2005)
5.	A/YL-PH/499	Temporary Open Storage of Private Cars and Lorries for a Period of 3 Years	29.7.2005
6.	A/YL-PH/933	Proposed Temporary Vehicle Park (Medium and Heavy Goods Vehicles) and Open Storage (Cleansing Tools and Materials) for a Period of 3 Years and Filling of Land	14.7.2023 (Revoked on 14.11.2024)

**Similar Applications within the “Residential (Group D)” Zone
in the Vicinity of the Site in the Past Five Years**

Approved Applications

	Application No.	Proposed Uses/Developments	Date of Consideration (RNTPC)
1.	A/YL-PH/849	Proposed Temporary Public Vehicle Park (Private Cars only) with Ancillary Site Office for a Period of 3 Years	4.9.2020
2.	A/YL-PH/852	Proposed Temporary Private Vehicle Park (Private Cars Only) for a Period of 3 Years	18.9.2020
3.	A/YL-PH/862	Proposed Temporary Public Vehicle Park and Office for a Period of 3 Years	18.12.2020 (Revoked on 18.5.2023)
4.	A/YL-PH/869	Proposed Temporary Open Storage of Construction Machinery for a Period of 3 Years	22.1.2021 (Revoked on 22.4.2023)
5.	A/YL-PH/909	Renewal of Planning Approval for Temporary Open Storage of Excavators and Loaders for a Period of 3 Years	6.5.2022
6.	A/YL-PH/922	Proposed Temporary Private Vehicle Park (Private Cars Only) for a Period of 3 Years and Filling of Land	15.7.2022
7.	A/YL-PH/953	Temporary Open Storage of Construction Materials and Machineries with Ancillary Facilities for a Period of 3 Years	23.6.2023 (Revoked on 4.8.2023)
8.	A/YL-PH/957	Proposed Temporary Open Storage of Construction Materials and Machineries with Ancillary Facilities for a Period of 3 Years and Filling of Land	28.7.2023
9.	A/YL-PH/1015	Temporary Open Storage of Construction Materials and Machineries with Ancillary Facilities for a Period of 3 Years and Associated Filling of Land	22.11.2024

Government Bureau/Departments' General Comments

1. Land Administration

Comments of the District Lands Officer/Yuen Long, Lands Department:

- no adverse comment on the application;
- the application site (the Site) comprises Old Schedule Agricultural Lot No. 82 S.B. ss.1 in D.D. 108 held under the Block Government Lease which contains the restriction that no structures are allowed to be erected without the prior approval of the Government; and
- advisory comments are at **Appendix VI**.

2. Traffic

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

- no in-principle objection to the application from highways maintenance perspective; and
- advisory comments are at **Appendix VI**.

3. Drainage

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

- no objection to the application from public drainage point of view;
- should the application be approved, approval conditions requiring the submission of a revised drainage proposal, and implementation and maintenance of the drainage proposal for the development should be included in the planning permission; and
- advisory comments are at **Appendix VI**.

4. Fire Safety

Comments of the Director of Fire Services:

- no in-principle objection to the application subject to fire service installations being provided to the satisfaction of his department; and
- advisory comments are at **Appendix VI**.

5. **Landscape Aspect**

Comments of the Chief Town Planner/Urban Design and Landscape, Planning Department:

- the Site falls within an area zoned “Residential (Group D)” which is a non-landscape sensitive zoning and no significant landscape impact arising from the applied uses are anticipated.

6. **Building Matters**

Comments of the Chief Building Surveyor/New Territories West, Buildings Department:

- no objection to the application; and
- advisory comments are at **Appendix VI**.

7. **District Office’s Comments**

Comments of the District Officer (Yuen Long), Home Affairs Department:

- no particular comment on the application and no comment received from the locals upon close of consultation.

8. **Other Departments**

The following government departments have no objection to/no adverse comment/no comment on the application and their advisory comments, if any, are in **Appendix VI**:

- Chief Engineer/Construction, Water Supplies Department;
- Chief Engineer/Railway Development 1-1, HyD; and
- Project Manager (West), Civil Engineering and Development Department.

Recommended Advisory Clauses

- (a) prior planning permission should have been obtained before commencing the applied use at the application site (the Site);
- (b) should you fail to comply with any of the approval conditions again resulting in the revocation of planning permission, sympathetic consideration may not be given to any further applications;
- (c) to note the comments of the District Lands Officer/Yuen Long, Lands Department (LandsD) that the lot owner(s) shall apply to this office for a Short Term Waiver (STW) to permit the structure(s) erected within the said private lot(s). The application(s) 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 applied use is temporary in nature, only erection of temporary structure(s) will be considered;
- (d) to note the comments of the Commissioner for Transport that the Site is connected to the public road network via a section of a local access road which is not managed by the Transport Department (TD). The land status of the local access road should be checked with the Lands Department. 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;
- (e) to note the comments of the Chief Highway Engineer/New Territories West, Highways Department (HyD) that:
 - (i) the proposed access arrangement should be commented and approved by TD;
 - (ii) HyD is not responsible for the maintenance of the proposed access connecting the Site and Fan Kam Road;
 - (iii) the applicant should ensure a 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
 - (iv) adequate drainage measures should be provided to prevent surface water running from the Site to nearby public road and drains;
- (f) to note the comments of the Director of Environmental Protection that the applicant shall:
 - (i) follow the revised “Code of Practice on Handling the Environmental Aspects of Temporary Uses and Open Storage Sites” issued by the Environmental Protection Department to minimise any potential environmental nuisance;

- (ii) follow the relevant guidelines and requirements in relevant Professional Persons Environmental Consultative Committee Practice Notes (ProPECC PNs), in particular the ProPECC PN 1/23 “Drainage Plans subject to Comment by the Environmental Protection Department”;
 - (iii) provide adequate supporting infrastructure/facilities for proper collection, treatment and disposal of waste/wastewater generated from the applied use;
 - (iv) meet the statutory requirements under relevant environmental legislation; and
 - (v) keep good housekeeping for the pumping vehicles for domestic liquid waste and waste cooking oils to avoid causing environmental nuisance and follow the statutory requirements under the Cap. 311 Air Pollution Control Ordinance and Cap. 358 Water Pollution Control Ordinance;
- (g) to note the comments of the Chief Engineer/Mainland North, Drainage Services Department (DSD) that:
- (i) Tables 4a and 4b of the drainage proposal submitted by the applicant indicated that the velocity of stormwater flow in some of the channels are higher than 3m/s and hence, the applicant is advised to consider using bigger size channels/pipes to reduce the velocity of stormwater flow in channels/pipes and to check the available free board at channel, catchpit and manhole due to high velocity head;
 - (ii) the size of the manhole (MN-01) should be advised;
 - (iii) any contingency plan for maintenance/repairing of pumps/pump pits, overflow at pump pits and maintenance/repairing of the u-channel outside the Site should be advised, in particular for any emergency discharge for stormwater available when the proposed drainage system is out of service;
 - (iv) the applicant should ensure that the proposed u-channel outside the Site will not affect the overland flow from the adjacent lands;
 - (v) the applicant should ensure that the proposed u-channel outside the Site is adequate to collect, convey and discharge the surface runoff accrued on the Site and to intercept the overland flow from the adjacent lands;
 - (vi) the part of the proposed u-channel falling outside the Site within Government land (GL) or private lots should be indicated in the relevant drawing in the revised drainage proposal; and
 - (vii) the applicant shall resolve any conflict/disagreement with relevant lot owners(s) and seek LandsD’s permission for laying new drains/channels and/or modifying /upgrading existing ones in other private lots or on GL outside the Site;

(h) to note the comments of the Director of Fire Services (D of FS) that:

- (i) the standards and specification of the proposed emergency lighting shall be revised to 'BS 5266-1:2016, BS EN 1838:2013 and the FSD Circular Letter No. 4/2021' in the revised fire services installation (FSIs) proposal;
- (ii) the standards and specification of the proposed directional and exit signs shall be revised to 'BS 5266-1:2016 and the FSD Circular Letter No. 5/2008' in the revised FSIs proposal;
- (iii) the applicant is required to submit a valid fire certificate (F.S. 251) to his department for approval to address the approval condition on the provision of fire extinguisher(s);
- (iv) the applicant is reminded that if the proposed structures are required to comply with the Buildings Ordinance (BO), detailed fire services requirements will be formulated upon receipt of formal submission of general building plan; and
- (v) the applicant should adhere to the Good Practice Guidelines for Open Storage Sites as follows:

		Internal Access for Fire Appliances	Lot Boundaries (Clear Width)	Distance between Storage Cluster and Temporary Structure	Cluster Size	Storage Height
1.	Open Storage of Containers	-	2m	4.5m	-	-
2.	Open Storage of Non-combustibles or Limited Combustibles	4.5m	2m	4.5m	-	-
3.	Open Storage of Combustibles	4.5m	2m	4.5m	40m x 40m	3m

Remarks: Smoking and naked flame activities shall not be allowed within the open storage/recycling site.

(i) to note the comments of the Chief Building Surveyor/New Territories West, Buildings Department (BD) that:

- (i) it is noted that five structures and associated filling of land is proposed in the current application. Before any new building works (including containers/open sheds as temporary buildings, demolition and land filling, etc.) are to be carried out on the Site, prior approval and consent of the Building Authority (BA) should be obtained, otherwise they are unauthorized building works (UBW) under the BO. An Authorized Person should be appointed as the coordinator for the proposed building works in accordance with the BO;

- (ii) emergency vehicular access shall be provided for all the buildings to be erected on the Site in accordance with Regulation 41D of the Building (Planning) Regulations (B(P)R);
 - (iii) the Site abuts on a specified street (Fan Kam Road) of not less than 4.5m wide. Its permitted development intensity shall be determined under the First Schedule of B(P)R at building plan submission stage;
 - (iv) if the existing structure is erected on leased land without the approval of the BA, they are UBW under the BO and should not be designated for any proposed use under the current application;
 - (v) for UBW erected on leased land, enforcement action may be taken by 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 the BO;
 - (vi) any temporary shelters or converted containers for office, storage, washroom or other uses are considered as temporary buildings are subject to the control of Part VII of the B(P)R;
 - (vii) detailed checking under the BO will be carried out at the building plan submission stage; and
- (j) to note the comments of the Chief Engineer/Construction, Water Supplies Department (WSD) that:
- (i) the existing water mains will be affected as shown on **Plan A-2**. The cost of any necessary diversion shall be borne by the proposed development;
 - (ii) in case it is not feasible to divert the affected water mains, a waterworks reserve within 1.5m from the center line of the water mains 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 WSD or their contractor to carry out construction, inspection, operation, maintenance and repair works;
 - (iii) no tree or shrubs with penetrating roots may be planted within the Waterworks Reserve or in the vicinity of the water mains; and
 - (iv) 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.

就規劃申請/覆核提出意見 Making Comment on Planning Application / Review

參考編號

Reference Number:

250330-180637-50937

提交限期

Deadline for submission:

08/04/2025

提交日期及時間

Date and time of submission:

30/03/2025 18:06:37

有關的規劃申請編號

The application no. to which the comment relates:

A/YL-PH/1056

「提意見人」姓名/名稱

Name of person making this comment:

先生 Mr. Mr. Wong

意見詳情

Details of the Comment :

我反對這宗申請, 因這申請不是涉及普通的臨時停車場 或儲存倉, 而是用作吸糞車或吸油車的停車場, 這些大型的吸糞車或吸油車 出入的時候 對路人造成非常大的危險 因為行人 通道狹窄 停車場的入口是在粉錦公路的路口, 剛好村民等候乘車的地方也是在路口, 每當大型車出入的時候 因為有盲點, 會對等候乘車的村民造成非常之危險, 也試過很多次, 貨車司機看不到村民 而差點造成交通意外, 村民出入也需要躲避這些 大型的吸糞車或吸油車. 而每當這些吸糞車或吸油車, 在卸完成 這些廢物回來泊車的時候, 車裏的喉 也是沾滿糞便或 油的廢物, 把路口的地面 也弄得非常之骯髒, 路面沾滿糞便或廢油, 對人的健康衛生 造成非常之大的危險, 和污染環境發出臭味. 這吸糞便車或 吸油車, 已經對打石湖邨的村民造成多達三年的 滋擾, 他們在 三年前 申請的時候, 並沒有說明是 涉及吸糞車或吸油車, 以至村民承受三年的對身體健康, 環境臭味的痛苦經歷. 這些對人類健康造成非常之大影響的 車輛停車場, 應該遠離 民居, 因這停車場的 位置, 是村民的出入 必經路口, 村民每天也需要和這些病毒糞便 臭味 共存, 而香港 也經歷過 新官肺炎的慘痛經驗, 這些涉及環境污染的糞便車輛, 必須要遠離民居, 才可以保障市民健康和安.

就規劃申請/覆核提出意見 Making Comment on Planning Application / Review**參考編號****Reference Number:**

250330-221916-93062

提交限期**Deadline for submission:**

08/04/2025

提交日期及時間**Date and time of submission:**

30/03/2025 22:19:16

有關的規劃申請編號**The application no. to which the comment relates:**

A/YL-PH/1056

「提意見人」姓名/名稱**Name of person making this comment:**

先生 Mr. 張少堅

意見詳情**Details of the Comment :**

I am the Village Representative at Ta Shek Wu Tsuen.

The user of the application site is a hygiene related service company (LBS Group) that provides sewage treatment and drainage services. The user is causing undesirable impact on the surrounding environment and adverse effects on the visual and traffic for the neighbourhood. The company is using large sized vehicles to transport sewage-related goods to the site.

Further, there is already another site application (A/YL-PH/1055) at our village which is, in total, causing a great burden.

Please do not hesitate to contact me to discuss further.

致城市規劃委員會：

關於申請編號 A/YL-PH/1056 於元朗八鄉打石湖村申請作私人停車場(中型貨車及重型貨車)本人現在提出強烈反對這宗申請，因這宗申請不是普通的停車場，而是用作停泊吸糞車及處理隔油池及沙井的大型車輛停車場，自從這間公司三年前搬到本村，村民每天也要受盡滋擾，由於吸糞車及吸油車的屎水及油污把路面弄污，同時也會發出臭味，由於村口是村民每天必經之路也是等候乘車的地方，每當有大型車輛進出的時候，村民也要狼狽閃避，造成極大的危險，容易釀成意外，而吸糞車及吸油車所產生的細菌，病毒，臭味也會對村民的健康構成極壞的影響，亦會污染周圍的環境，很不幸地本村村民每天也要忍受着這些痛苦，這種厭惡性行業，其實應該遠離民居，本人希望城市規劃委員會絕對不能批准這宗申請

八鄉打石湖村居民
李小姐上

1-4-25

RECEIVED
- 1 APR 2025

Town Planning
Board

From: [REDACTED]
Sent: 2025-04-05 星期六 08:22:49
To: tpbpd/PLAND <tpbpd@pland.gov.hk>
Subject: A/YL-PH/1056 DD 108 Fam Kam Road

A/YL-PH/1056

Lot 82 S.B ss.1 (Part) in D.D. 108, Fan Kam Road, Pat Heung

Site area: About 2,802sq.m

Zoning: "Res (Group D)"

Applied use: 15 Private Vehicle Park (Medium and Heavy Goods Vehicles) / Open Storage of Operational Tools and Materials / **Filling of Land**

Dear TPB Members,

933 was revoked in Nov 2024 for failure to fulfil drainage conditions.

The Applicant is only now submitting its Drainage Proposal.

With hourly rainfall poised to increase by up to 40 percent in the next decade, this is not acceptable.

TPB should reject applications like this in order to send out a message that going forward failure to fulfil conditions will no be rewarded with auto roll over.

Mary Mulvihill

5

就規劃申請/覆核提出意見 Making Comment on Planning Application / Review**參考編號****Reference Number:**

250407-180759-30360

提交限期**Deadline for submission:**

08/04/2025

提交日期及時間**Date and time of submission:**

07/04/2025 18:07:59

有關的規劃申請編號**The application no. to which the comment relates:**

A/YL-PH/1056

「提意見人」姓名/名稱**Name of person making this comment:**

小姐 Miss Chan

意見詳情**Details of the Comment :**

本人反對這申請, 因這停車場所停放之貨車為用作吸化糞池或餐廳廢油之環保貨車, 在打石湖邨已經運作大概三年左右, 每當出車的時候 也會對路人造成危險, 因為打石湖村, 村民的候車地方也是在這個路口, 大型貨車有很多盲點的, 每當這些大型環保車出入, 村民也需要躲避. 有好幾次也出現險象橫生的場面.

而當這些大型環保車, 回來泊車的時候, 喉管或車身也沾滿很多糞便或廢油, 這些充滿細菌的廢水也沾污週圍的地面上, 行人也需要小心行走, 以免弄污. 這些充滿細菌的污水, 也會對人造成很大的健康危險, 也會對環境造成惡臭.

而當環保車出入, 也會對打石湖邨村民的 汽車出入造成交通阻塞, 因這是一條單線 雙程路. 最重要的是, 這些對環境與及人類健康造成厭惡的停車場是不應設在民居之中的.