Subject: Re: S. 16 Planning Application no. A/YL-KTN/1018 - Departmental Comments

Thank you for the phone call and email. Plesae see the attachment section for the updated proposed layout plan. If you have any question regarding to the application, please do not hesitate to contact Mr. Tang on phone ███████ or email to ███████████████.

Your sincerely,
Mr. Tang

城市規劃委員會:

有關城市規劃委員會對 A/YL-KTN/1018 的查詢

收悉 貴委員會對 A/YL-KTN/1018 申請的疑問，本人現書面回覆。

申請範圍方面，本申請與舊有 A/YL-KTN/962 的申請有關連，現時申請的範圍比 A/YL-KTN/962 大，因為上次申請時未能向業主承租現時全部申請範圍，現已向相關持分者承租相關範圍，因此已即時向 貴委員會提出新申請，以符合相關條例。
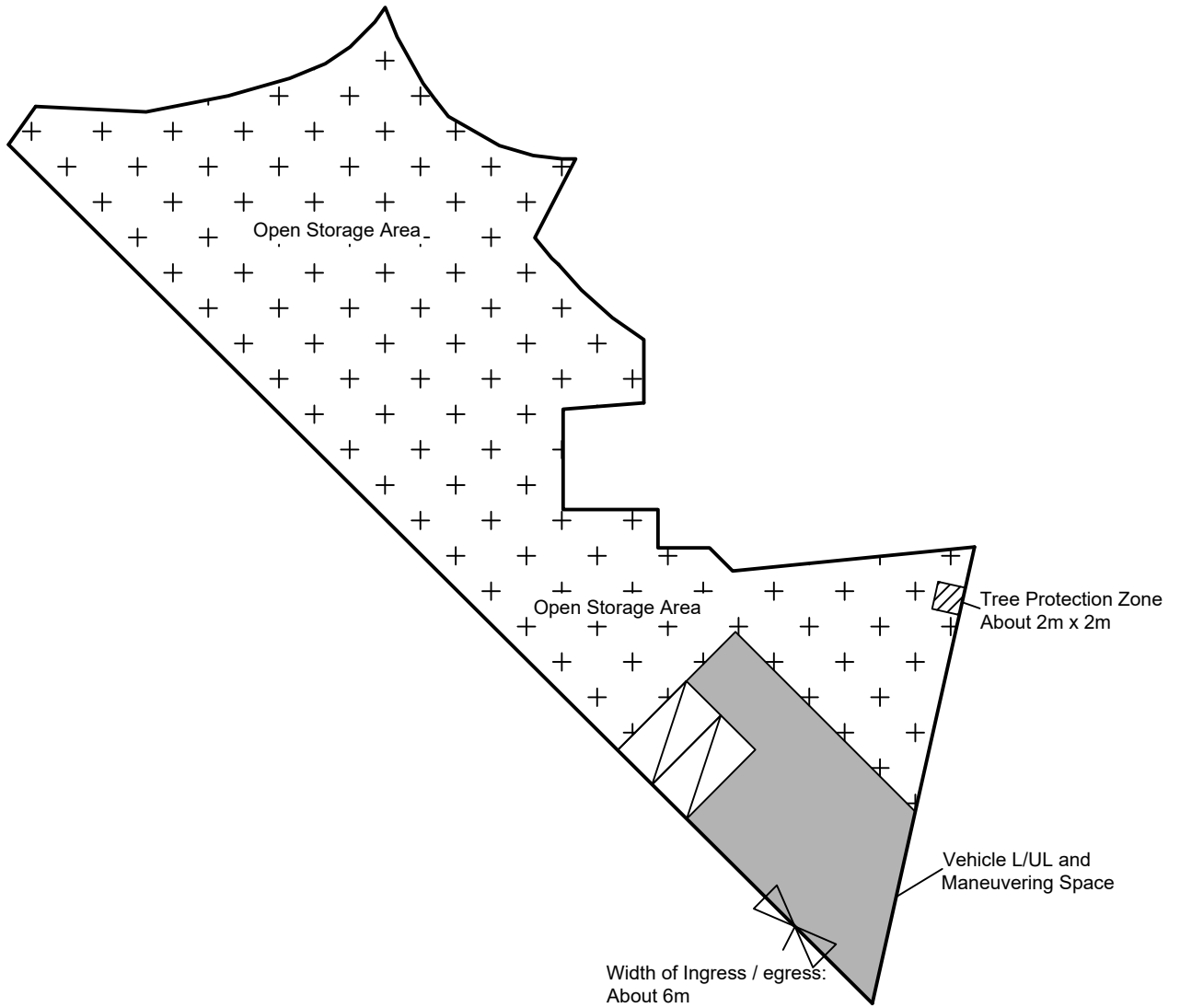
此外，履行附加條件方面，上次申請 A/YL-KTN/962 亦因申請範圍方面未能如期達成所以附加條件，本申請已向相關部門提供渠務報告及安裝消防系統建議書，申請地點現時亦放置了防火筒 (請參考 FS251 證書)，望 貴委員會諒解。

申請理由是因城市高速發展及土地資源稀少的情況下，有大量用作工業及棕地的土地已改作其他發展或計劃用作其他發展，例如錦田北分區計劃大綱核准圖編號 S/YL-KTN/11 內部份模範鄉至部份逢吉鄉由農業及工業用途外劃為住宅及政府、機構或社區」用途、洪水橋/廈村新發展區及鄰近元朗工業邨的棕地等，存放的需求大大增加。因此，本人希望能透過規劃申請，提供臨時土地收納及滿足需要搬遷的小型露天存放。

存放高度最高不超過 6 米。現場會存放小型機械及水電工程所包含的工程材料，例如排水管、水喉及電箱、挖掘機、升降台等。物料大小及長度不一，最長約 4.5 米。

本申請只會用在存放用途，不會進行任何有關回收、清潔、修理、拆解或其他工場作業。

LGV L/UL Space
Dimension: 7m x 3.5m
Unit(s): 2

N

Open Storage Area

Open Storage Area

Tree Protection Zone
About 2m x 2m

Vehicle L/UL and
Maneuvering Space

Width of Ingress / egress:
About 6m

Legend:

⋈ Ingress/egress (Width: About 6m)

▱ LGV L/UL Space (Unit(s): 2)

○ Maneuvering Space

▦ Open Storage Area

▨ Vehicle Maneuvering Space

▨ Tree Protection Zone

Total Area: 1,559.1 m^2 (About)

Open Storage Area: 1,291.1 m^2 (About)

Vehicle Maneuvering Space: 264 m^2 (About)

Tree Protection Zone: 4 m^2 (About)

Appendix 2	Proposed Layout Plan 擬議佈局平面圖 擬議臨時露天存放建築機械及物料 （為期3年）及填土 Proposed Temporary Open Storage of Construction Machinery and Materials For a Period of 3 Years and Filling of Land	SCALE 1:500 @A4
Location: DD 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part) OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture		For Identification Only	Drawing No.:
	Date: 6 January 2025	2-02

　　申請範圍約 1,559.1 平方米，當中有約 268 平方米為車輛上落區、車輛轉動區及樹木保護區，上述範圍不會用在露天存放。相關圖則請參考 Appendix 2 (2-02)。

　　希望此附加文件能釋除　貴署的隱憂，並支持本申請。

城市設計及園境組及城市規劃委員會:

<u>有關城市設計及園境組對 A/YL-KTN/1018 的查詢</u>

收悉　貴組對 A/YL-KTN/1018 申請的疑問,本人現書面回覆。

保護樹木方面,會將樹幹 2 米範圍內的混凝土打碎並運走,亦會在該範圍邊豎立不少於 1.2 米高的短柱保護樹木,建立樹木保護區,保護區不會放置任何物品,以免影響樹木生長。樹木會定期檢查及修剪,保護樹木。本人為錯誤平整相關範圍致歉,望　貴組諒解。相關圖則請參考 Appendix 2 (2-01)。

希望此附加文件能釋除　貴署的隱憂,並支持本申請。

渠務署及城市規劃委員會:

A/YL-KTN/1018 的渠務報告詳細

申請地點範圍有約 1,559.1 平方米,位於錦田北的鄉郊範圍。目前為露天空間及建有臨時建築物。

申請地點附近有大量的臨時建築物及草地。現有水平為約+14.4 mPD (此水平已完成填土及平整)。

有一條自然溪流位於申請地點的東面,並計劃將場內水流引導到該溪流。

申請範圍的北面、西北面及東北面水平比申請地點高,有機會會有水流從這面流入,申請範圍北及西北外有約一條 450mm 及一條約 300mm 的渠道收集申請地點外的流水及引導流水,因此只有少量流水會由申請地點的東北面流入申請地點。

申請地點的擬議佈局平面圖請參考 Appendix 2。

申請地點範圍有約 1,559.1 平方米,全部將以混凝土作表面,在申請地點外有約 356 平方米,全部為道路及建築物。

擬議發展	
申請地點範圍 (約 m²),全部已以混凝土平整	1,559.1
申請地點外集水區	
申請地點外北面集水區 (約 m²),大多為草地、道路及建築物,本報告將全部以凝土作評估	356

本報告會使用 STORMWATER DRAINAGE MANUAL (SDM) (2018), SDM Corrigendum No. 1/2022 and 1/2024.

根據 STORMWATER DRAINAGE MANUAL (SDM) - Table 10 – Recommended Design Return Periods based on Flood Levels

Intensively Used Agricultural Land	2-5 years
Village Drainage including Internal Drainage System under a Polder Scheme	10 years
Main Rural Catchment Drainage Channels	50 years
Urban Drainage Trunk Systems	200 years
Urban Drainage Branch Systems	50 years

本報告將使用 Main Rural Catchment Drainage Channels, 1 in 50 years return period 作評估。

本渠道設計將參考由　貴署所編寫的 SDM 作基礎，以下為所採用的數據及計算方法。

1. Intensity-Duration-Frequency Relationship - The Recommended Intensity-Duration-Frequency relationship is used to estimate the intensity of rainfall. It can be expressed by the following algebraic equation.

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

Since the site is located within the HKO Headquarters Rainfall Zone, the value is taken from STORMWATER DRAINAGE MANUAL (SDM) (2018). Therefore, for 50 years return period, the following values are adopted.

a = 505.5

b = 3.29

c = 0.355

2. The peak runoff is calculated by the Rational Method.

$$Q_p = 0.278\, C\, i\, A$$

where V = peak runoff in m³/s

C = runoff coefficient (dimensionless)

i = rainfall intensity in mm/hr

A = catchment area in km²

3. According to Section 7.5.2(b) of the Stormwater Drainage Manual (SDM), Fifth Edition January 2018

Surface Characteristics	Runoff coefficient, C
Asphalt	0.70-0.95
Concrete	0.80-0.95
Brick	0.70-0.85
Grassland (heavy soil)	
Flat	0.13-0.25
Steep	0.25-0.35
Grassland (sandy soil)	
Flat	0.05-0.15
Steep	0.15-0.20

The run-off coefficient (C) of surface runoff area taken as follows:

-   Concrete Area   C = 0.95

4. Manning's Equation is used for calculation of velocity of flow inside the channels. It can be expressed by the following algebraic equation.

$$V = \frac{R^{1/6}}{n} \sqrt{RS_f}$$

where V = Velocity of the pipe flow (m/s)

S_f = Hydraulic gradient

n = manning's coefficient

R = Hydraulic radius (m)

5.   Colebrook-White Equation is used for calculation of velocity of flow inside the pipes. It can be expressed by the following algebraic equation.

$$\bar{V} = -\sqrt{32gRS} \log\log \left(\frac{k_s}{14.8R} + \frac{1.255v}{R\sqrt{32gRS_f}}\right)$$

where	V	=	Velocity of the pipe flow (m/s)
S_f	=	Hydraulic gradient
k_f	=	roughness value (m)
v	=	kinematics viscosity of fluid
D	=	pipe diameter (m)
R	=	Hydraulic radius (m)

申請範圍主要平坦，並緩緩斜向東南面，渠道設計請參考 Appendix 5。

渠道容量計算請參考 Appendix – Calculation。

根據本報告，本臨時發展不會對附近的渠道有重大影響。

R to C:

	渠務署意見	申請人回覆
(1)	*The rainfall intensity is not correct. Please review the calculations.*	請參考 Appendix – Calculation，已修正該錯誤。
(2)	*Please provide all drainage facilities and hoarding/ fencing with adequate opening, if any, in the section drawings.*	請參考 Appendix 5.1。
(3)	*Please justify the proposed catchment areas. The catchment areas should be determined according to existing topographic levels.*	請參考 Appendix 5.2 及 Appendix 5.3。
(4)	*Please advise if any site formation/ land filling works to be carried out under this application. Please note that the overland flow from the adjacent lands should not be affected.*	請參考 Appendix 4，填土及平整不會影響附近流水。

（５）	*Surface channels at the peripheral of the site should be constructed to intercept all such rain water falling onto the site.*	已依照 貴署的意見更改，請參考 Appendix 5。
（６）	*Please indicate clearly the full alignment of the discharge path from the application site all the way down to the ultimate discharge point (e.g. a well-established stream course/public drainage system).*	請參考 Appendix 5 及 5.4。
（７）	*Please review the all invert levels as it should be determined based on corresponding gradient proposed.*	已依照 貴署的意見更改，請參考 Appendix 5。
（８）	*The capacity checking of existing natural stream does not include the downstream flow.*	已依照 貴署的意見更改，請參考 Appendix – Calculation。
（９）	*The proposal should indicate how the runoff (the flow direction) within the site would be discharged to the proposed u-channel.*	已依照 貴署的意見更改，請參考 Appendix 5。
（１０）	*The existing drainage facilities, to which the stormwater of the development from the subject site would discharge, are not maintained by this office. The applicant should identify the owner of the existing drainage facilities to which the proposed connection will be made. Also, DSD noticed that the proposed drainage connection(s) to the surrounding/downstream area(s) will run through other private lot(s). The applicant shall demonstrate that the proposed drainage construction / improvement / modification works and the operation of the drainage can be practicably implemented.*	本人了解現有的渠道設施不是由 貴署所興建及保護。如興建及接駁到其他私人或其他有關政府部門的渠道，會向有關持分者或部分了解及取得同意後才會進行相關工程。
（１１）	*The applicant should check and ensure the hydraulic capacity of the existing drainage facilities would not be adversely affected by the captioned development. Please provide site photos to show existing condition of the existing*	請參考 Appendix – Calculation 及 5.5。

	drainage facilities which receives the discharge from the application site.	
（12）	*Please clarify whether any walls or hoarding would be erected along the site boundary. Where walls or hoarding are erected are laid along the site boundary, adequate opening should be provided to intercept the existing overland flow passing through the site.*	申請範圍將會以實心金屬板圍起，並會留有不少過 10cm 的空間讓水流通過，請參考 Appendix 5.1。
（13）	*The development should neither obstruct overland flow nor adversely affect existing natural streams, village drains, ditches and the adjacent areas, etc.*	本申請不會影響水流。
（14）	*The applicant(s) shall resolve any conflict/disagreement with relevant lot owner(s) and seek LandsD's permission for laying new drains/channels and/or modifying/upgrading existing ones in other private lots or on Government land (where required) outside the application site(s).*	如興建及接駁到其他私人或其他有關政府部門的渠道，會向有關持分者或部分了解及取得同意後才會進行相關工程。

R to C (Date: 9ᵗʰ October 2024):

	渠務署意見	申請人回覆
（1）	*SDM Corrigendum No. 1/2022 and 1/2024 should be considered.*	已依照　貴署的意見改用相關數據。
（2）	*Channel turning at acute angle (i.e. at CP3 and CP4) should be avoided wherever possible.*	已依照　貴署的意見更改，請參考 Appendix 5。
（3）	*The existing drainage facilities, to which the stormwater of the development from the subject site would discharge, are not maintained by this office. The applicant should identify the owner of the existing drainage facilities to which the proposed connection will be made. Also, DSD noticed that the proposed drainage connection(s) to the surrounding/downstream*	本人了解現有的渠道設施不是由貴署所興建及保護。如興建及接駁到其他私人或其他有關政府部門的渠道，會向有關持分者或部分了解及取得同意後才會進行相關工程。

	area(s) will run through other private lot(s). The applicant shall demonstrate that the proposed drainage construction / improvement / modification works and the operation of the drainage can be practicably implemented.	
（4）	*Please clarify whether any walls or hoarding would be erected along the site boundary. Where walls or hoarding are erected/ laid along the site boundary, adequate opening should be provided to intercept the existing overland flow passing through the site.*	申請範圍將會以實心金屬板圍起，並會留有不少過 10cm 的空間讓水流通過，請參考 Appendix 5。
（5）	*Cross sections － Please justify the adjacent ground levels.*	已委託奧維環境顧問公司透過無人機在申請範圍及附近的土地上空測量申請地點與附近土地的高度，請參考 Appendix 5.6。根據高空圖，流水由北面、西北面及東北面流入，而相關方向已有現有渠道引導流水，因此只有少量流水會由申請地點的東北面流入申請地點，面積約 356 平方米。
（6）	*The development should neither obstruct overland flow nor adversely affect existing natural streams, village drains, ditches and the adjacent areas, etc.*	申請範圍將會以實心金屬板圍起，並會留有不少過 10cm 的空間讓水流通過。
（7）	*The applicant(s) shall resolve any conflict/disagreement with relevant lot owner(s) and seek LandsD＇s permission for laying new drains/channels and/or modifying/upgrading existing ones in other private lots or on Government land (where required) outside the application site(s).*	如興建及接駁到其他私人或其他有關政府部門的渠道，會向有關持分者或部分了解及取得同意後才會進行相關工程。

<u>Appendix – Calculation</u>

Capacity Flows Estimation for Propose Catchments and Drainage System with 50 Year Return Period

A1. Calculation of On-Site Runoff (After Development)

Surface Type	Catchment Area (A), m²	Catchment Area (A), km²	Average slope (H), m/100m	Flow path length (L), m	Time of Concentration (t$_c$), min	a (50 year return period)	b (50 year return period)	c (50 year return period)	Runoff intensity (i) mm/hr	Runoff coefficient (C)	C x A	Peak runoff (Q$_p$), m³/s
100% Concrete	1,915.1	0.0019151	0.63	71.9	5.36	505.5	3.29	0.355	245	0.95	0.0018193	0.124

										Total	0.124

A2. Calculation of the Capacity of Proposed Drainage (After Development)

Channel Type	Width, m	Depth, m	Slope	Length, m	Manning's Roughness Coefficient	Cross Section Area, m2	Wetted Perimeter, m	Hydraulic radius, m	Mean Velocity, m/s	Capacity flow, m3/s	Catchment Served, km²	Runoff, m3/s	% of capacity flow	Sufficient Capacity (Y/N)
Concrete Channel	0.375	0.375	0.005	201.8	0.015	0.126	0.964	0.131	1.22	0.154	0.0019151	0.124	81%	Y

*Allowed 10% for siltation

Note:

Runoff is calculated in accordance with DSD's "Stormwater Drainage Manual – Planning, Design and Management" (SDM), fifth edition, January 2018.

Equation used: $t_0 = \frac{0.14465L}{H^{0.2}A^{0.1}}$ $\quad t_c = t_0 + t_f$ $\quad i = \frac{a}{(t_d+b)^c}$ $\quad Q_p = 0.278\,C\,i\,A$ $\quad V = \frac{R^{1/6}}{n}\sqrt{RS_f}$

B1. Calculation of the runoff of Existing Drainage System

Surface Type	Catchment Area (A), m²	Catchment Area (A), km²	Average slope (H), m/100m	Flow path length (L), m	Time of Concentration (t$_c$), min	a (50 year return period)	b (50 year return period)	c (50 year return period)	Runoff intensity (i) mm/hr	Runoff coefficient (C)	C x A	Peak runoff (Q$_p$), m³/s
15% Concrete + 85% Grassland (Heavy soil) with steep surface	545,522	0.545522	24.5	1,470	29.93	505.5	3.29	0.355	140	0.44	0.24003	9.34

										Total	9.34

B2. Adequacy Check for Existing Drainage System

Channel Type	Width, m	Depth, m	Slope	Length, m	Manning's Roughness Coefficient	Cross Section Area, m2	Wetted Perimeter, m	Hydraulic radius, m	Mean Velocity, m/s	Capacity flow, m3/s	Catchment Served, km²	Runoff, m3/s	% of capacity flow	Sufficient Capacity (Y/N)
Natural-Stream (7)	2	2	0.245	1,470	0.05	4	6	0.667	7.55	30.2	0.530231	9.34	31%	Y

*Allowed 10% for siltation. For assessment purpose, assume width and depth of the channel is 2m.

Check The Capacity of Existing Natural Stream

Manning Equation is used in hydraulic design and analysis. The cross-sectional mean velocity is given in the following expression:

$$V = \frac{R^{1/6}}{n} \sqrt{RS_f}$$

Where R = hydraulic (m)
  N = Manning coefficient (s/m1/3), refer Table 13 of SDM
  Sf = friction gradient (dimensionless)
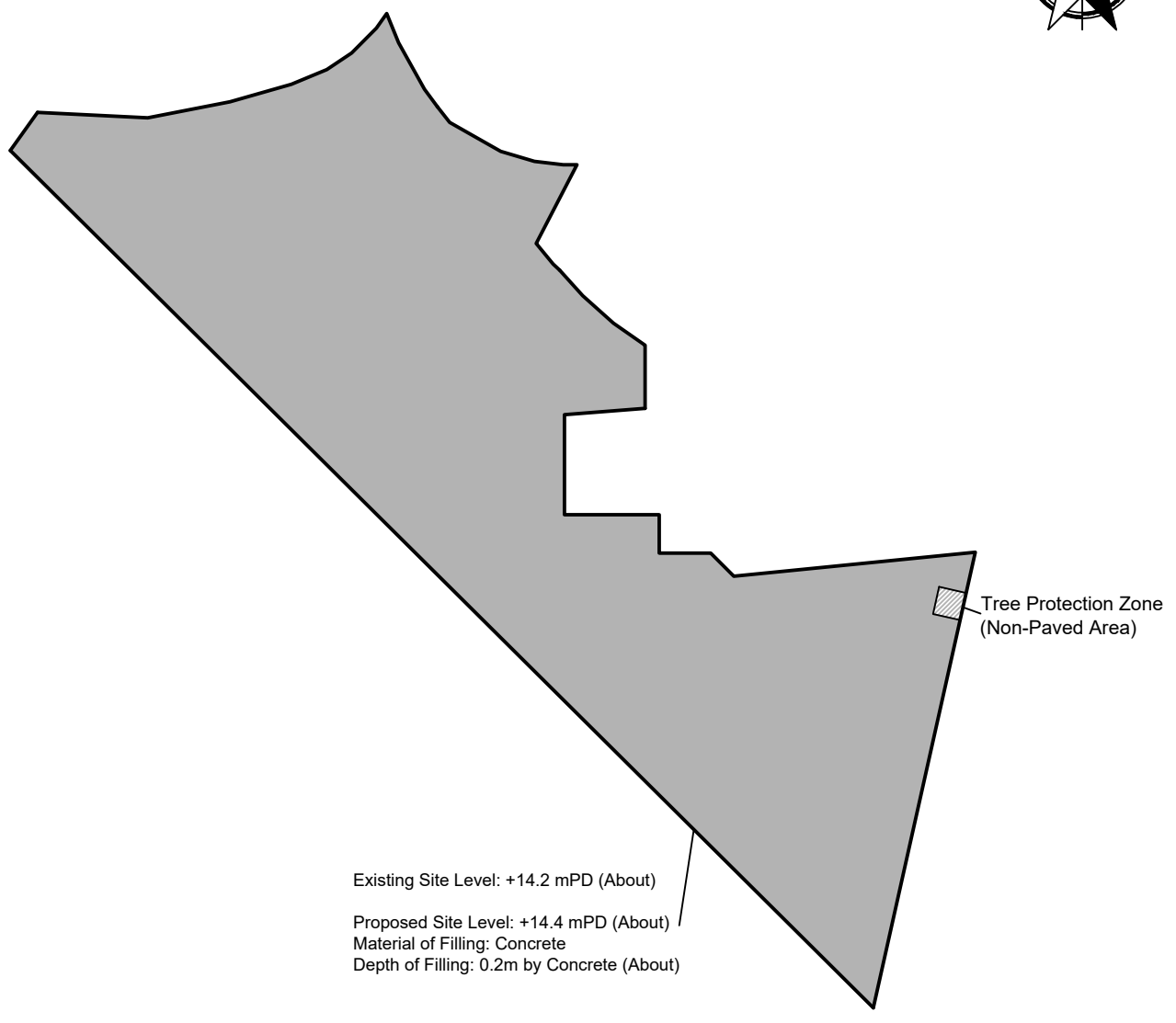
Using Manning's Equation
  $V = R^{2/3} * S_f^{0.5}/n$

  Where R $= A/P = 0.667$ m   A = 4 m^2
        P = 6 m
  n $= 0.05$ s/m$^{1/3}$ (Table 13 of Stormwater Drainage Manual)
  S_f $= 0.245$

  Therefor V $= 0.667^{2/3} * 0.245^{0.5}/0.05$
        $= 7.55$ m/sec
Maximum Capacity (Qmax)
        $= V*A$
        $= 30.2$ m^3/sec
        $> Q_{total}$ *Allowed 10% for situation.

The Existing Natural Stream has enough capacity.

N

Tree Protection Zone
(Non-Paved Area)

Existing Site Level: +14.2 mPD (About)

Proposed Site Level: +14.4 mPD (About)
Material of Filling: Concrete
Depth of Filling: 0.2m by Concrete (About)

Total Area: 1,559.1 m^2 (About)

Paved Area: 1,555.1 m^2 (About)

Non-Paved Area: 4 m^2 (About)

Legend:

Paved Area 平整範圍

Non-Paved Area 不平整範圍

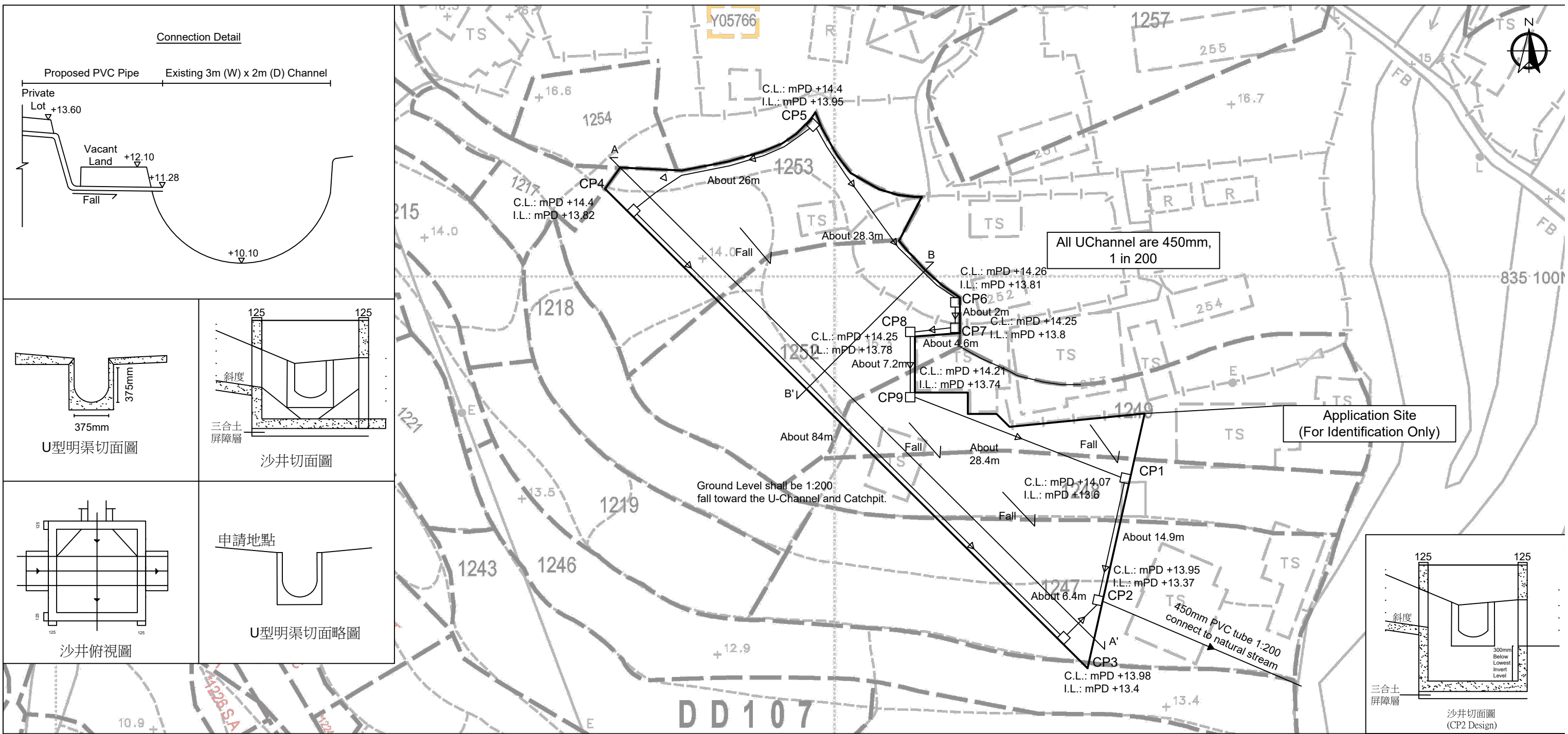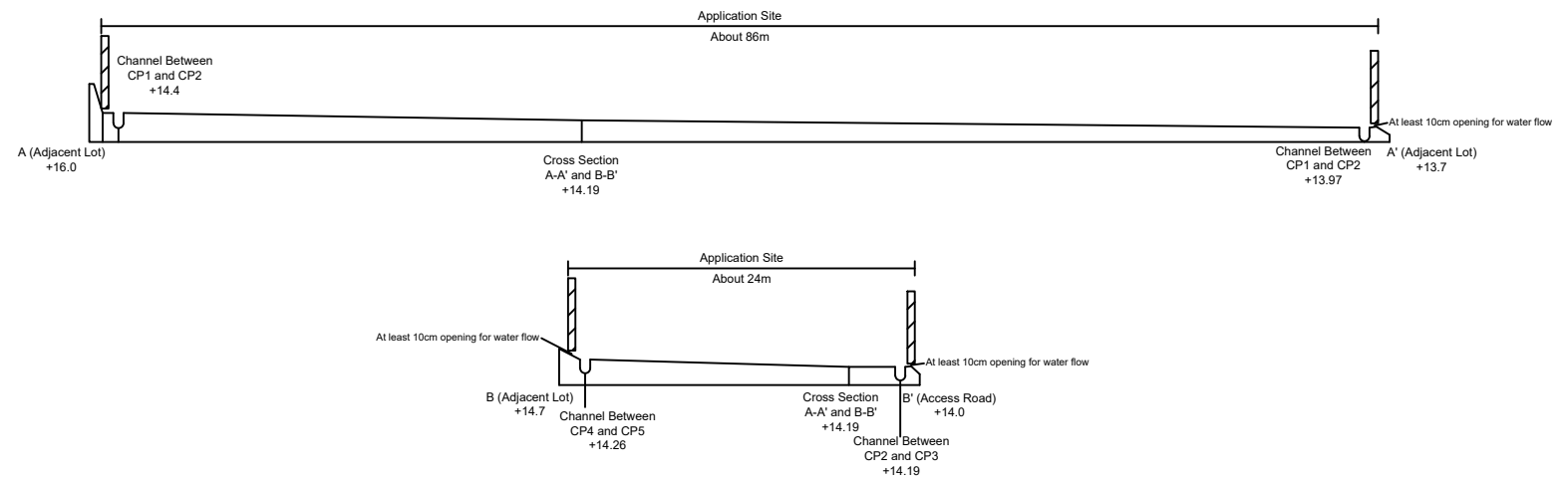| Appendix 4	Paved Area 平整位置圖	SCALE
Location: DD 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part) OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture Date: 15 September 2024	擬議臨時露天存放建築機械及物料（為期3年）及填土 Proposed Temporary Open Storage of Construction Machinery and Materials For a Period of 3 Years and Filling of Land	1:500 @A4 For Identification Only

Drawing No.:

4-01

Connection Detail

Proposed PVC Pipe | Existing 3m (W) x 2m (D) Channel

Private Lot +13.60
Vacant Land +12.10
+11.28
Fall
+10.10

U型明渠切面圖
375mm / 375mm
125 / 125
斜度
三合土屏障層
沙井切面圖

沙井俯視圖

申請地點

U型明渠切面略圖

Y05766

CP5
C.L.: mPD +14.4
I.L.: mPD +13.95

A

CP4
C.L.: mPD +14.4
I.L.: mPD +13.82

About 26m

About 28.3m
Fall

All UChannel are 450mm, 1 in 200

B

CP6
C.L.: mPD +14.26
I.L.: mPD +13.81

About 2m

CP8
C.L.: mPD +14.25
I.L.: mPD +13.78

CP7
C.L.: mPD +14.25
I.L.: mPD +13.8

About 4.6m

About 7.2m

CP9
C.L.: mPD +14.21
I.L.: mPD +13.74

Application Site
(For Identification Only)

B'

About 84m

Ground Level shall be 1:200 fall toward the U-Channel and Catchpit.

Fall

About 28.4m

Fall

CP1
C.L.: mPD +14.07
I.L.: mPD +13.6

Fall

About 14.9m

CP2
C.L.: mPD +13.95
I.L.: mPD +13.37

About 6.4m

A'

450mm PVC tube 1:200 connect to natural stream

CP3
C.L.: mPD +13.98
I.L.: mPD +13.4

斜度
三合土屏障層
125 / 125
300mm Below Lowest Invert Level
沙井切面圖
(CP2 Design)

DD 107

Note:
1. Adequate opening will be provided around the application site.
2. Catchpit design shall follow CEDD standard drawing No. C2406I.
3. All proposed U-channel and Catchpit must maintain in good shape (i.e. Inspection and maintenance regularly).
4. Grating Cover is provided on all proposed drainage for easy maintenance and cleaning.
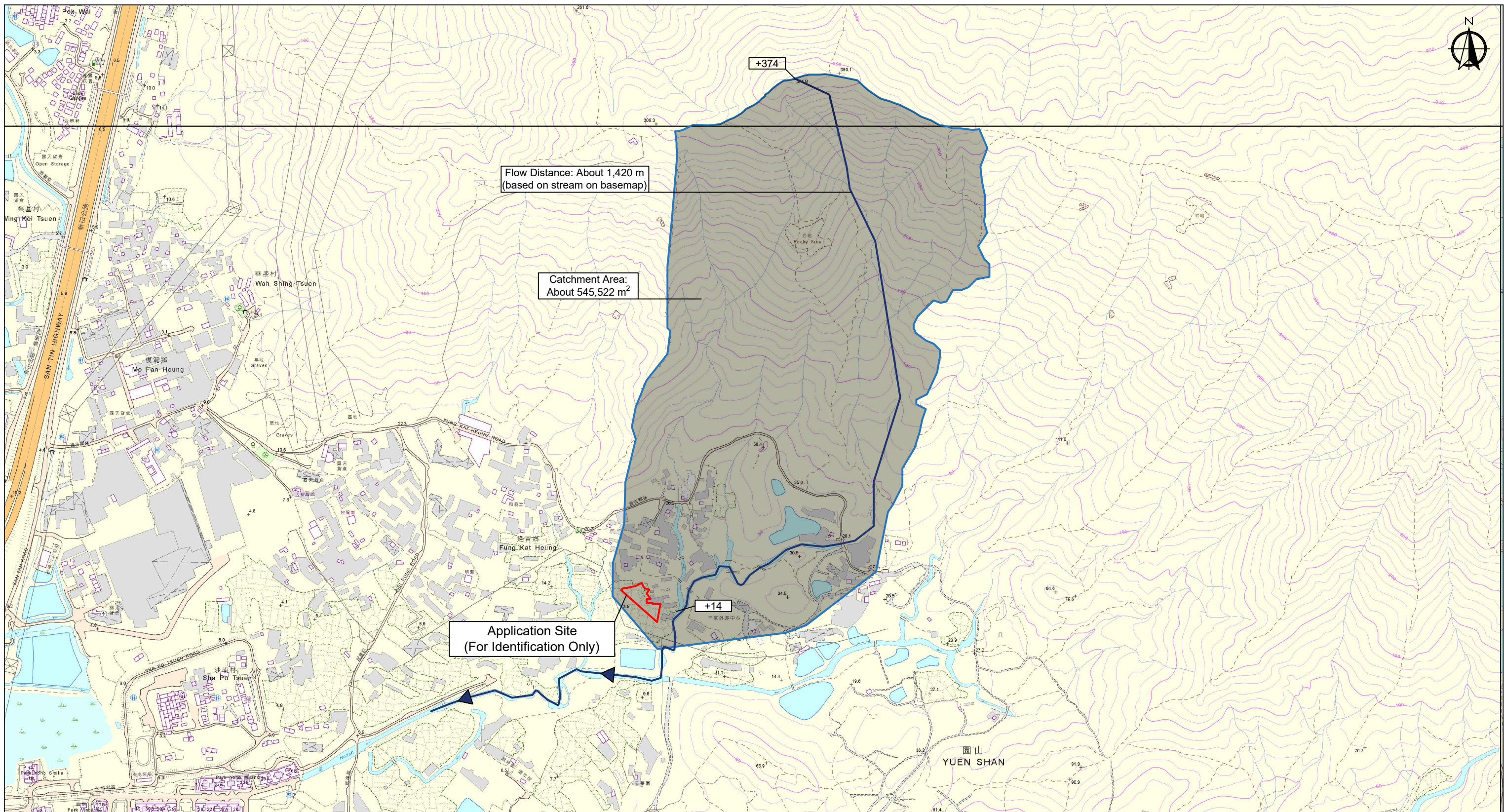
Application Site
About 86m

Channel Between CP1 and CP2 +14.4

At least 10cm opening for water flow

A (Adjacent Lot) +16.0

Cross Section A-A' and B-B' +14.19

Channel Between CP1 and CP2 +13.97

A' (Adjacent Lot) +13.7

Application Site
About 24m

At least 10cm opening for water flow

B (Adjacent Lot) +14.7

Channel Between CP4 and CP5 +14.26

Cross Section A-A' and B-B' +14.19

At least 10cm opening for water flow

B' (Access Road) +14.0

Channel Between CP2 and CP3 +14.19

Legend:
☐ Proposed Catchpit
— Proposed U-Channel
▶ Water Flow

*Invert Level of Connection Point Should Be Verified On Site Before Construction.
*Cover Level Are Indicative Only Which Should Be Verified On Site.

Location: DD 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part)
OZP: S/YL-KTN/11
District: Kam Tin North
Zoning: Agriculture

Appendix 5

Project:
Open Storage of Construction Machinery and Materials For a Period of 3 Years and Filling of Land

Proposed Drainage Plan and Cross Section

Scale: 1:500 @A4

Drawing No.
5-01
For Identification Only
Date: 3 January 2025

+374

Flow Distance: About 1,420 m
(based on stream on basemap)

Catchment Area:
About 545,522 m²

+14

Application Site
(For Identification Only)

Captured from hkmapservices iB5000 2-SE-C and iB5000 6-NE-A on 6th July 2024
Calculation Please refer to Appendix - Capacity

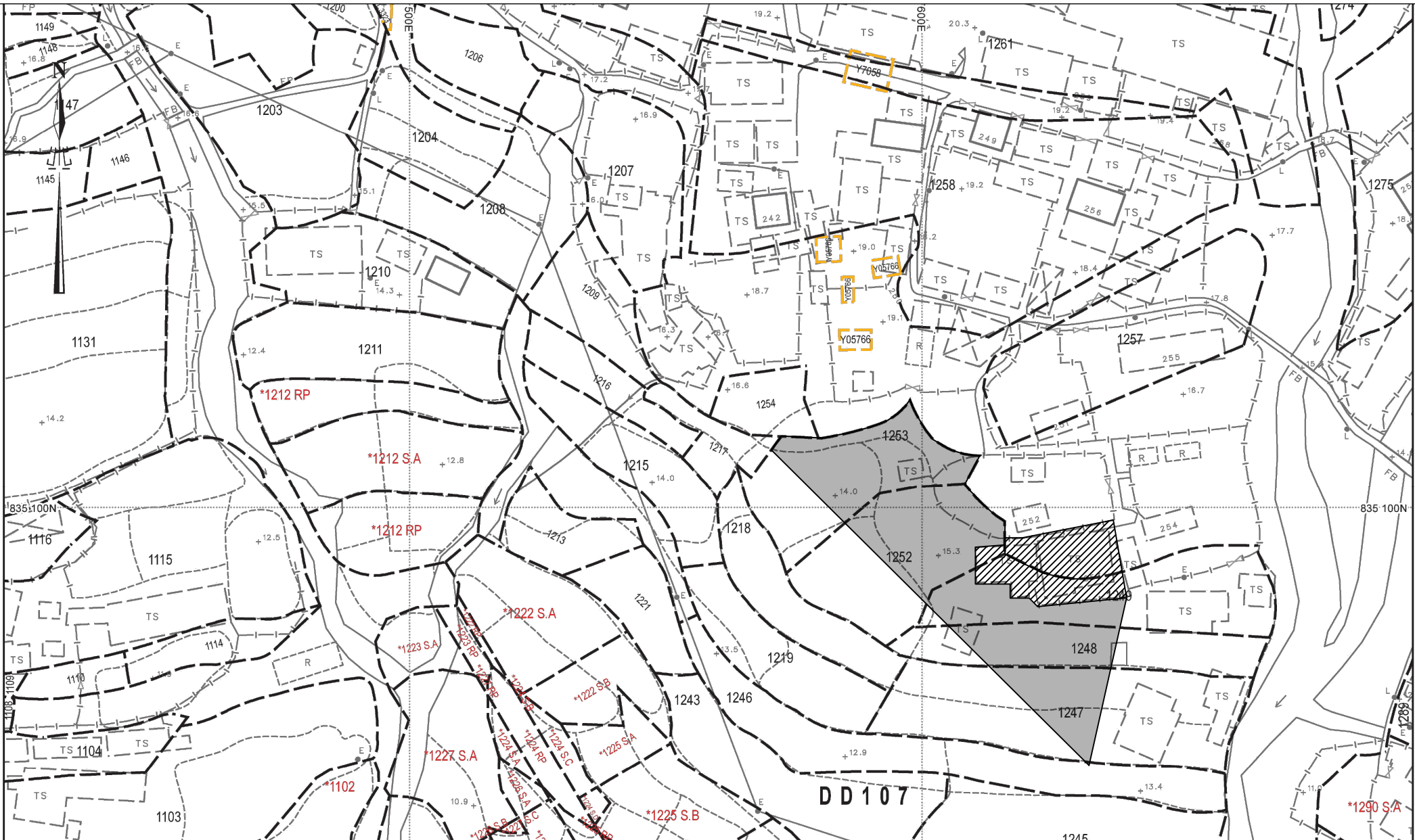Legend:

Catchment Area

Existing Channel

Application Site

Location: DD 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part) OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture	Project: Open Storage of Construction Machinery and Materials For a Period of 3 Years and Filling of Land	Catchment Area of Existing Channel	Scale: Undefined @A4	Drawing No.
				5.1-1
				For Identification Only
				Date: 10 July 2024

Appendix 5.1

Appendix 5.2	Location: D.D. 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part)		Around 1,915.1 m²	Drawing No.:
Catchment Area		Proposed Temporary Open Storage of Construction Machinery and Materials For a Period of 3 Years and Filling of Land		5.2-1
(Application Site Drainage)	OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture		Scale: 1:1000 @A4	For Identification Only
				Date: 03/01/2025

Legend:

Existing Channel (green)
Existing Channel (blue)
Application Site (red)

Existing 450mm Channel

Application Site
(For Identification Only)

Existing 300mm Channel

Existing 3m (W) x 2m (D) Channel

ung Kat Heung

14.2
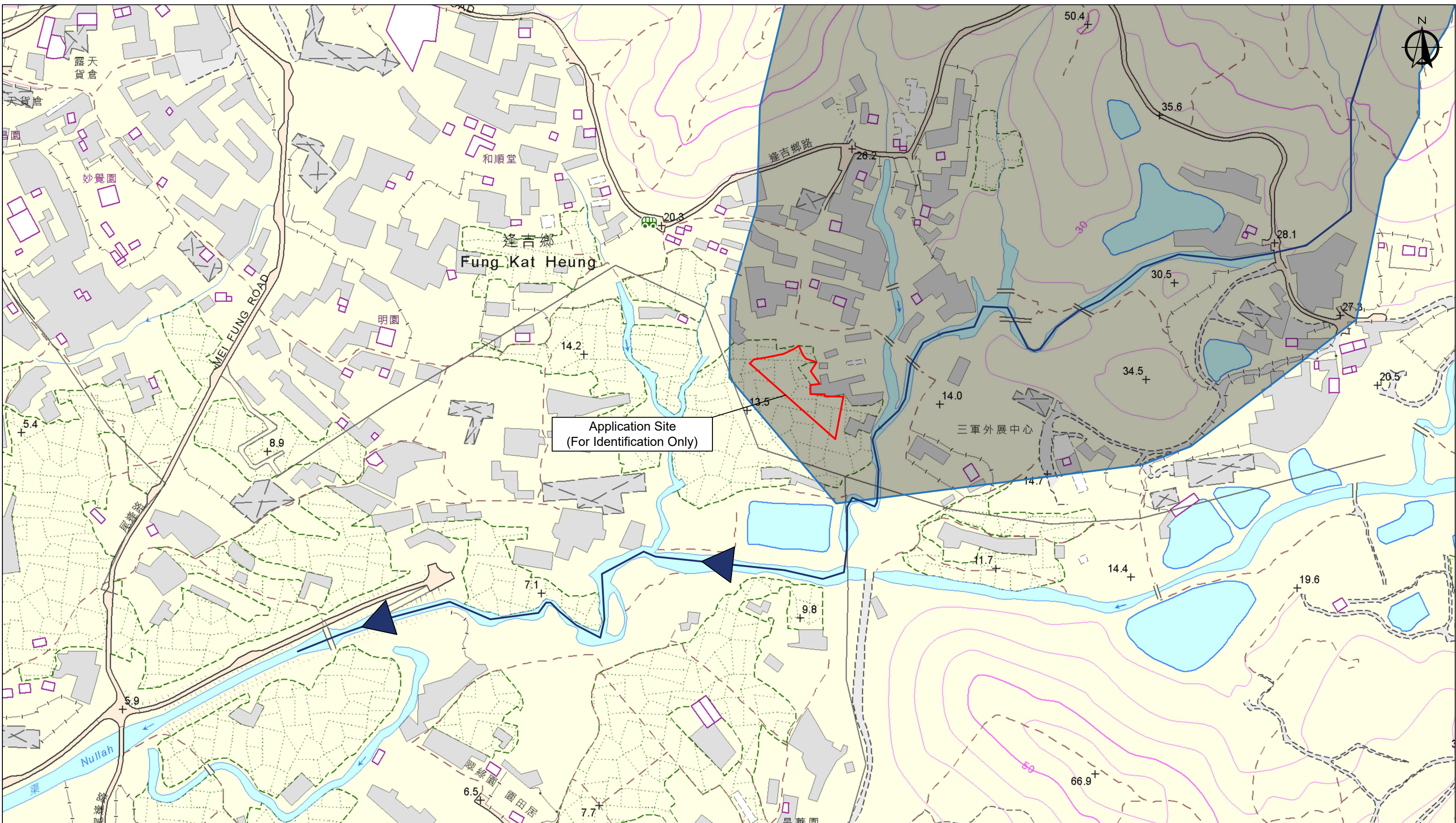
13.5

14.0

三軍外展中心

14.7

蓬吉鄉

| Appendix 5.3 | Location: DD 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part)
OZP: S/YL-KTN/11
District: Kam Tin North
Zoning: Agriculture | Project:
Open Storage of Construction Machinery and Materials
For a Period of 3 Years and Filling of Land | Existing Drainage Channel Plan | Scale: Undefined @A4 | Drawing No.
5.3-1
For Identification Only
Date: 3 January 2025 |

leung

14.2

13.5

14.0

三軍外展中心

14.7

Existing 450mm Channel

Application Site
(For Identification Only)

Existing 300mm Channel

Existing 3m (W) x 2m (D)
Channel

Legend:

— Existing Channel
— Existing Channel
— Application Site

Appendix 5.4

Location: DD 107 Lot 1247 (Part),
1248 (Part), 1249 (Part), 1252 (Part)
and 1253 (Part)
OZP: S/YL-KTN/11
District: Kam Tin North
Zoning: Agriculture

Project:
Open Storage of Construction Machinery and Materials
For a Period of 3 Years and Filling of Land

Photos Record of Surroundings and Viewing Point

Scale: Undefined @A4

Drawing No.

5.4-1

For Identification Only

Date: 19 July 2024

Application Site (For Identification Only)

Fung Kat Heung
逢吉鄉

和順堂

明園

三軍外展中心

MEI FUNG ROAD

Nullah
渠

Legend:

——	Existing Channel
——	Application Site

| Appendix 5.5 | Location: DD 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part) OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture | Project: Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years and Filling of Land | Ultimate Discharge Point (From Application Site to Nullah) | Scale: Undefined @A4 | Drawing No. 5.5-1 For Identification Only Date: 19 July 2024 |

Dec 10, 2024

Exterior Interior

N

Existing 450mm Channel

Application Site
(For Identification Only)

Existing 300mm Channel

Existing 3m (W) x 2m (D)
Channel

Legend:

——— Existing Channel

——— Application Site

Captured on 10th December 2024

Appendix 5.6

Location: DD 107 Lot 1247 (Part),
1248 (Part), 1249 (Part), 1252 (Part)
and 1253 (Part)
OZP: S/YL-KTN/11
District: Kam Tin North
Zoning: Agriculture

Project:
Open Storage of Construction Machinery and Materials
For a Period of 3 Years and Filling of Land

Existing Drainage Record (Drone)

Scale: Undefined @A4

Drawing No.

5.6-1

For Identification Only

Date: 3 January 2025

Map Analysis
- ☑ Map
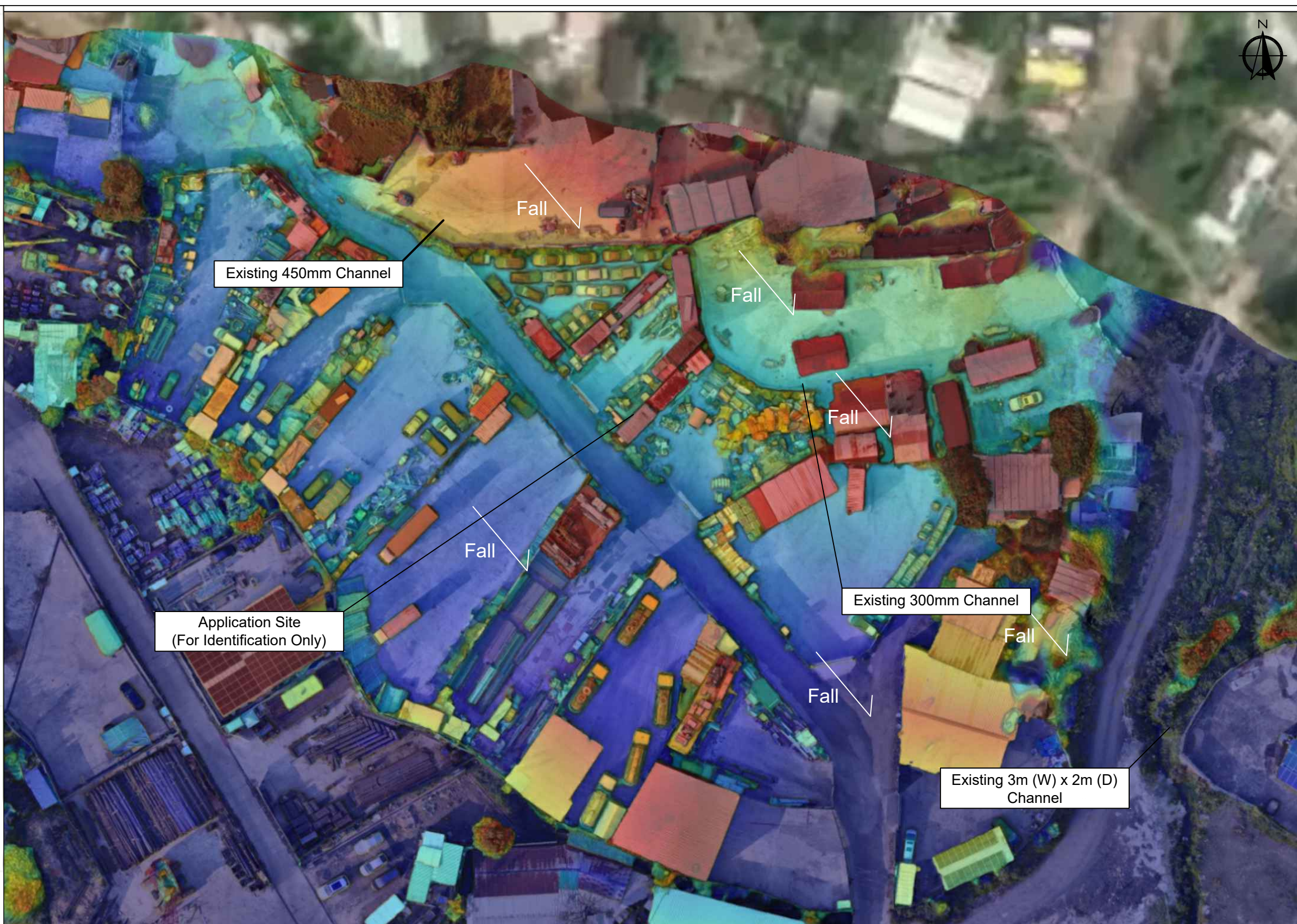- ☐ Plant Health
- ☑ Elevation

Terrain Only

2.4 ha   2.2 ha   0.2 ha

-5   -2   2   6

-0.14m   4.37m

How is the map quality? 👍 👎

Media ?   Upload
☐ Map Photos   0/177

Markup
☐ Annotations   0
☐ Issues   0

Apps + Integrations

Fall

Existing 450mm Channel

Fall

Fall

Fall

Fall

Application Site
(For Identification Only)

Existing 300mm Channel

Fall

Fall
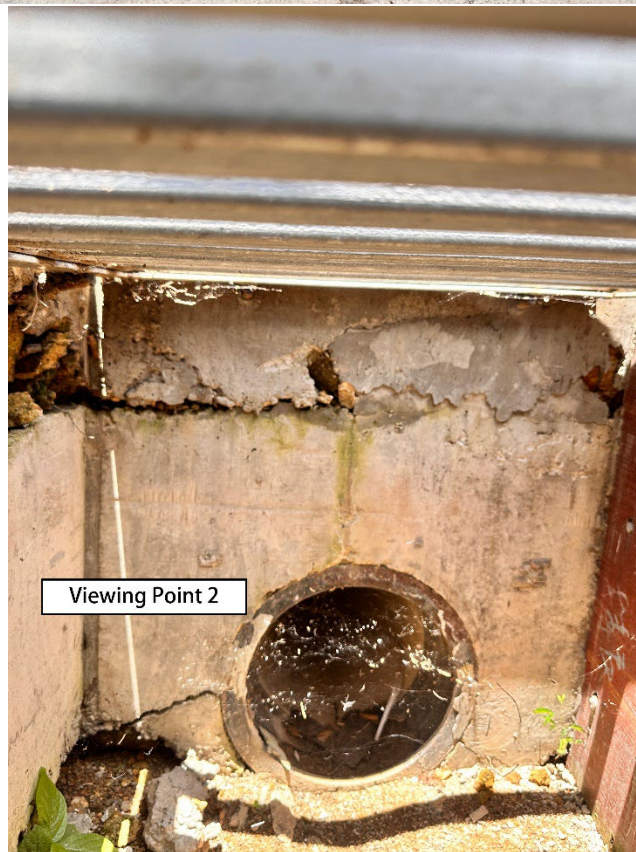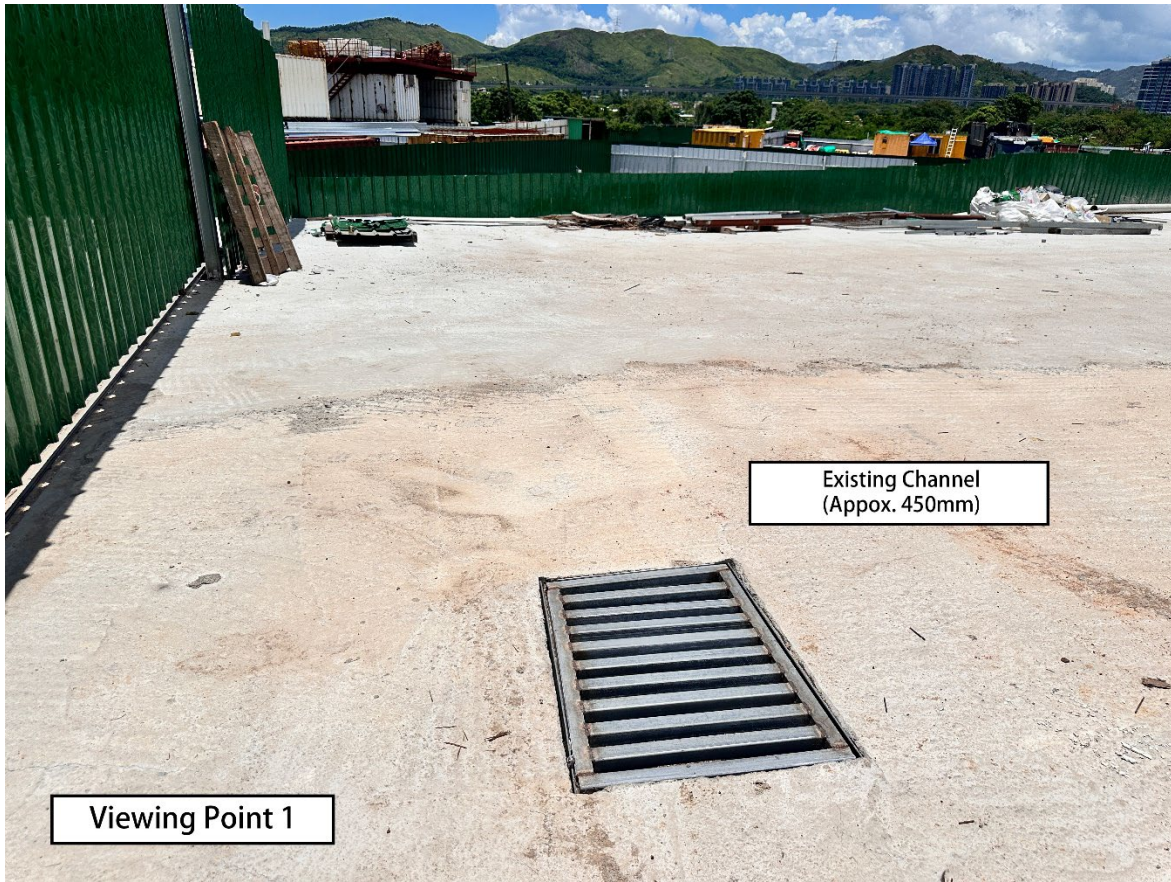
Existing 3m (W) x 2m (D)
Channel

Legend:

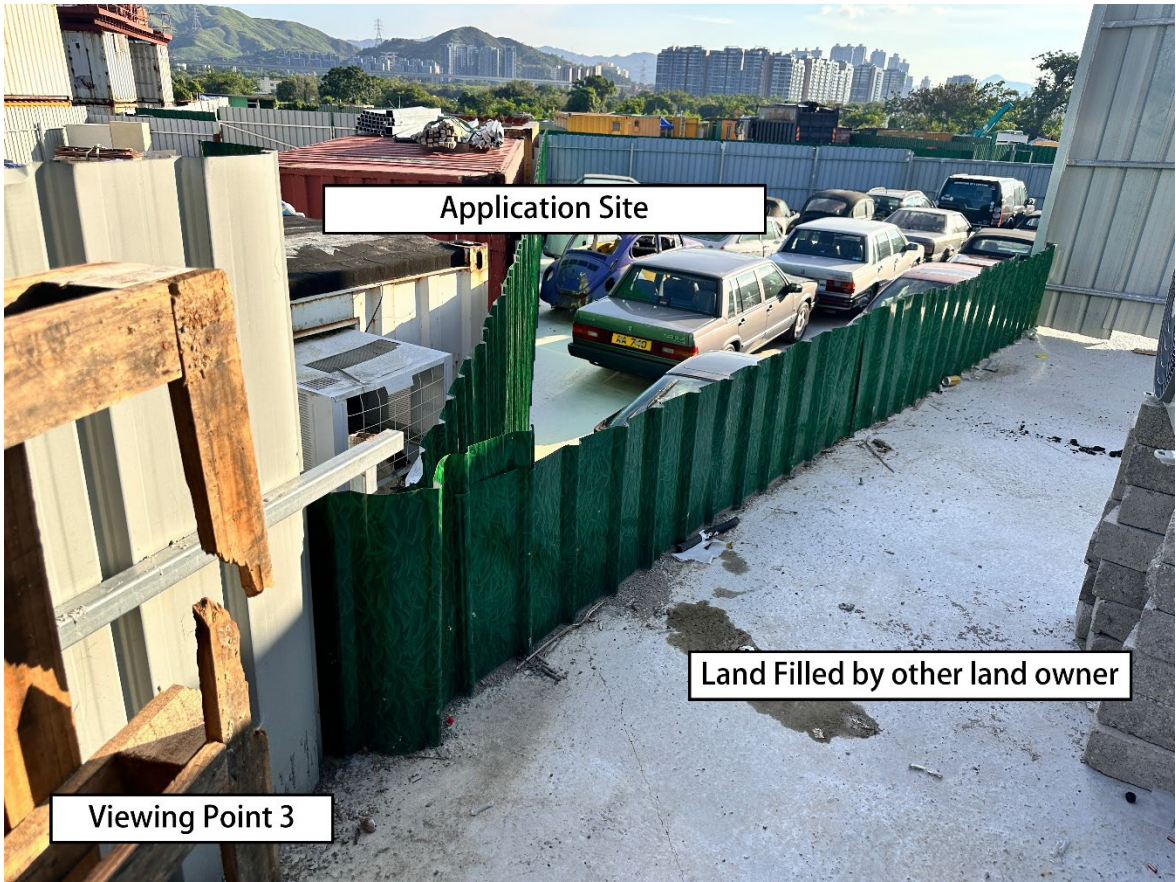| ——— | Existing Channel |
| ——— | Elevation (Higher Level) |
| ——— | Elevation (Lower Level) |

Captured on 10th December 2024

Appendix 5.7

Location: DD 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part)
OZP: S/YL-KTN/11
District: Kam Tin North
Zoning: Agriculture

Project:
Open Storage of Construction Machinery and Materials For a Period of 3 Years and Filling of Land

Existing Elevation Record (Drone)

Scale: Undefined @A4

Drawing No.

5.7-1

For Identification Only

Date: 3 January 2025

現場相片

Existing Channel
(Appox. 450mm)

Viewing Point 1

Viewing Point 2

Application Site

Land Filled by other land owner

Viewing Point 3

Application Site

Viewing Point 4

Application Site

Existing Channel
(Appox. 450mm)

Viewing Point 5

Existing Channel
(Appox. 450mm)

Land Filled by other land owner

Viewing Point 6

Land Filled by other land owner

Existing Channel
(Appox. 450mm)

Viewing Point 7
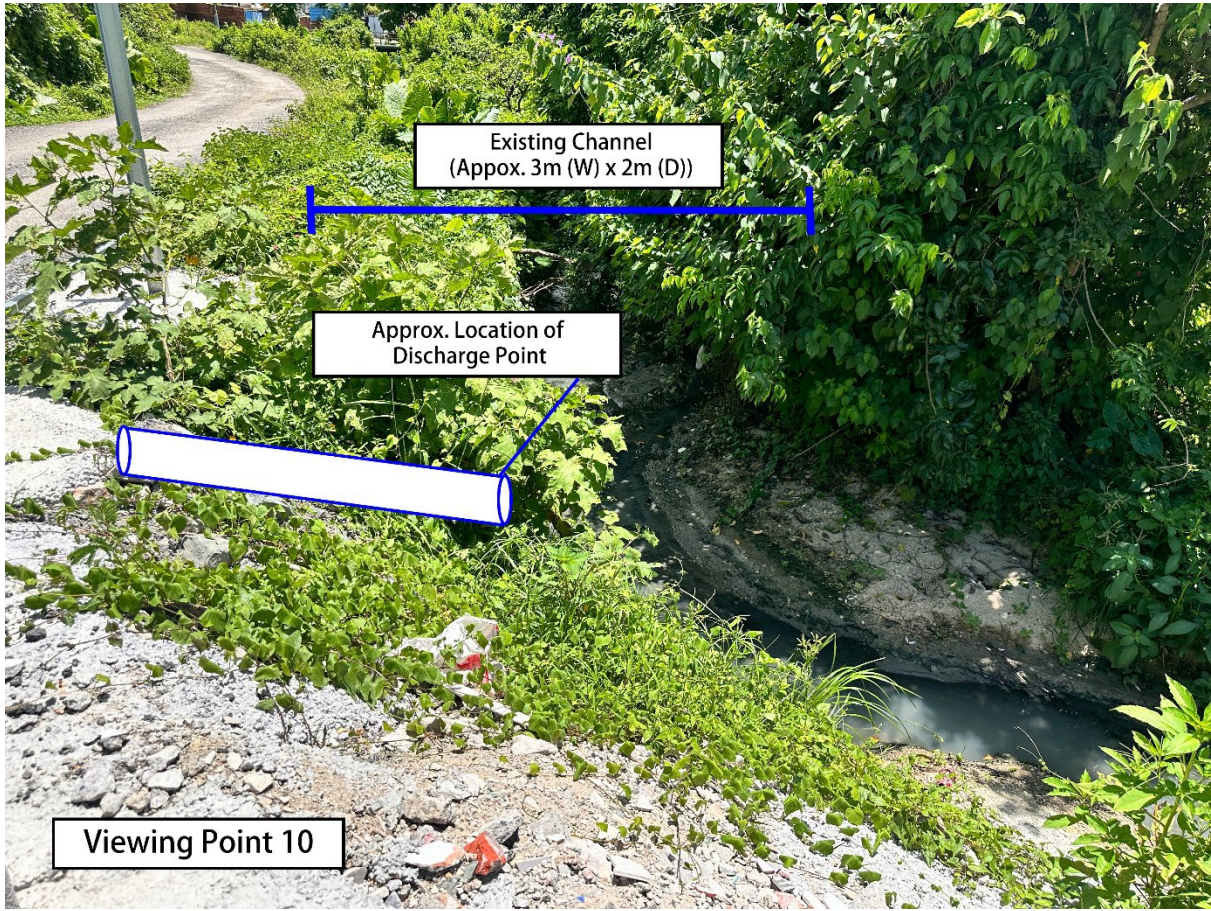

Existing Channel
(Appox. 300mm)

Viewing Point 8

Viewing Point 9

Existing Channel
(Appox. 300mm)

Existing Channel
(Appox. 3m (W) x 2m (D))

Approx. Location of
Discharge Point

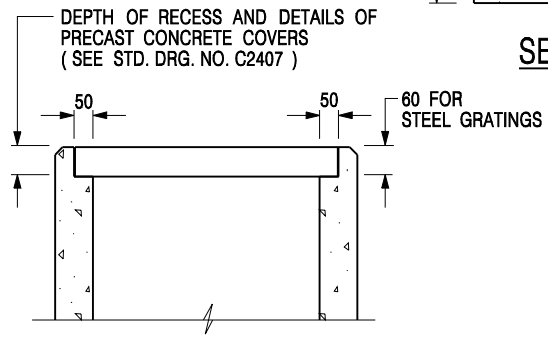Viewing Point 10

H3

FALL

U-CHANNEL

20 x 20 CHAMFER

STEPPED CHANNEL

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

A

FALL

FALL

FALL

FALL

FALL

H1

H2

A

500 + GREATER OF H1 OR H2

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

STEPPED OR U-CHANNEL
(OR PIPE)

U-CHANNEL

FALL

H4

500 + GREATER OF H3 OR H4

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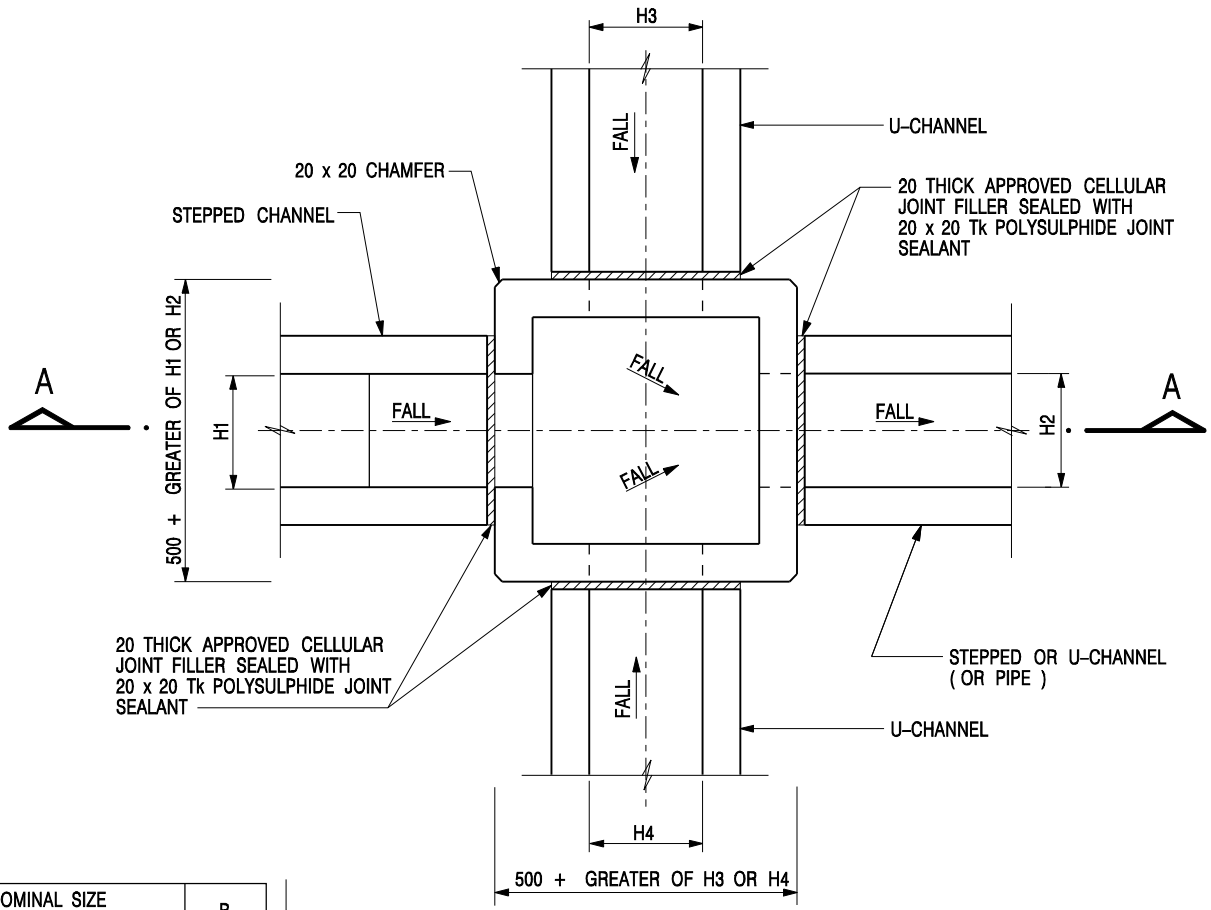
NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 – 600	150
675 – 900	175

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

100

100

20 x 20 CHAMFERS
ON ALL SIDES

A252 MESH OR
EQUIVALENT

350

(OR 650 FOR CATCHPIT
CONSTRUCTED ON OR
ADJACENT TO A FOOTPATH)

FALL

FALL

B

SECTION A – A

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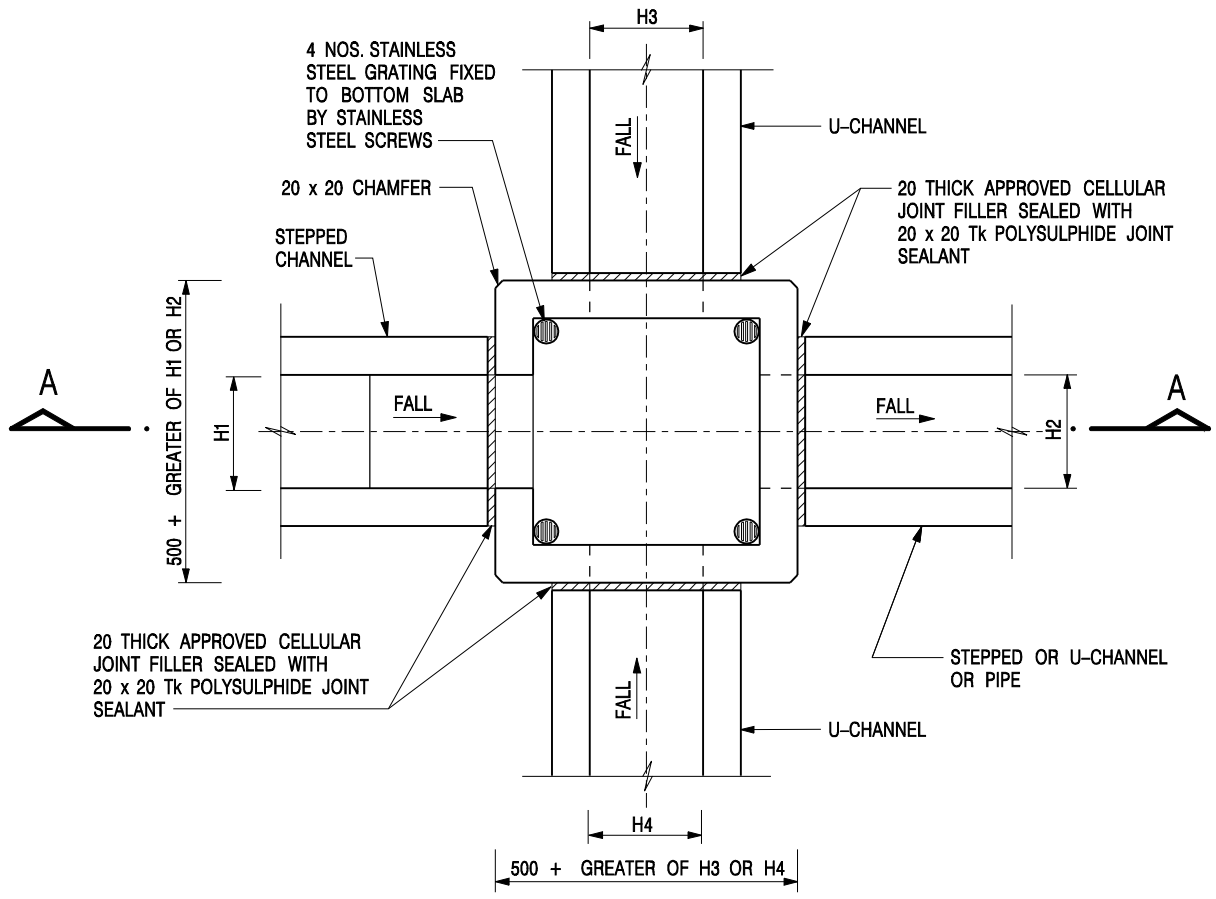(SEE STD. DRG. NO. C2407)

50

50

60 FOR
STEEL GRATINGS
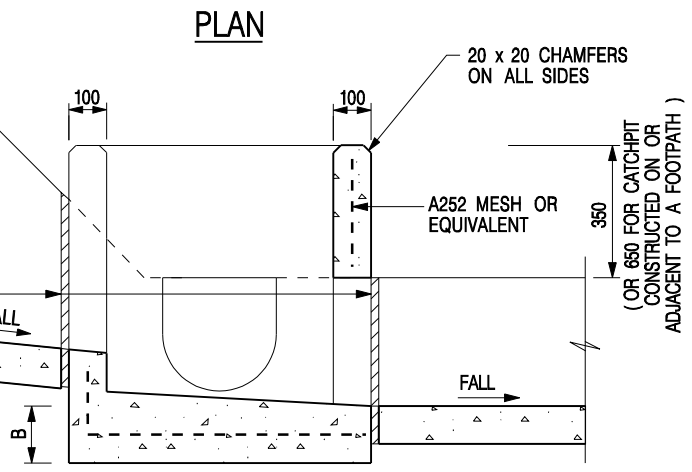
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.

2. REFER TO SHEET 5 FOR OTHER NOTES.

ALTERNATIVE TOP SECTION FOR
PRECAST CONCRETE COVERS / GRATINGS

PLAN

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

SECTION A – A

Labels in plan:
- 4 NOS. STAINLESS STEEL GRATING FIXED TO BOTTOM SLAB BY STAINLESS STEEL SCREWS
- 20 x 20 CHAMFER
- STEPPED CHANNEL
- U-CHANNEL
- 20 THICK APPROVED CELLULAR JOINT FILLER SEALED WITH 20 x 20 Tk POLYSULPHIDE JOINT SEALANT
- STEPPED OR U-CHANNEL OR PIPE
- U-CHANNEL
- 500 + GREATER OF H1 OR H2
- 500 + GREATER OF H3 OR H4
- FALL

Labels in section:
- 20 THICK APPROVED CELLULAR JOINT FILLER SEALED WITH 20 x 20 Tk POLYSULPHIDE JOINT SEALANT
- 20 x 20 CHAMFERS ON ALL SIDES
- A252 MESH OR EQUIVALENT
- 350 (OR 650 FOR CATCHPIT CONSTRUCTED ON OR ADJACENT TO A FOOTPATH)
- 100 MIN.
- 300 BELOW LOWEST INVERT
- 25 DIA. DRAIN PIPES
- FALL

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.

2. REFER TO SHEET 2 FOR OTHER NOTES.

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

50   50   60 FOR
                   STEEL GRATINGS

ALTERNATIVE TOP SECTION
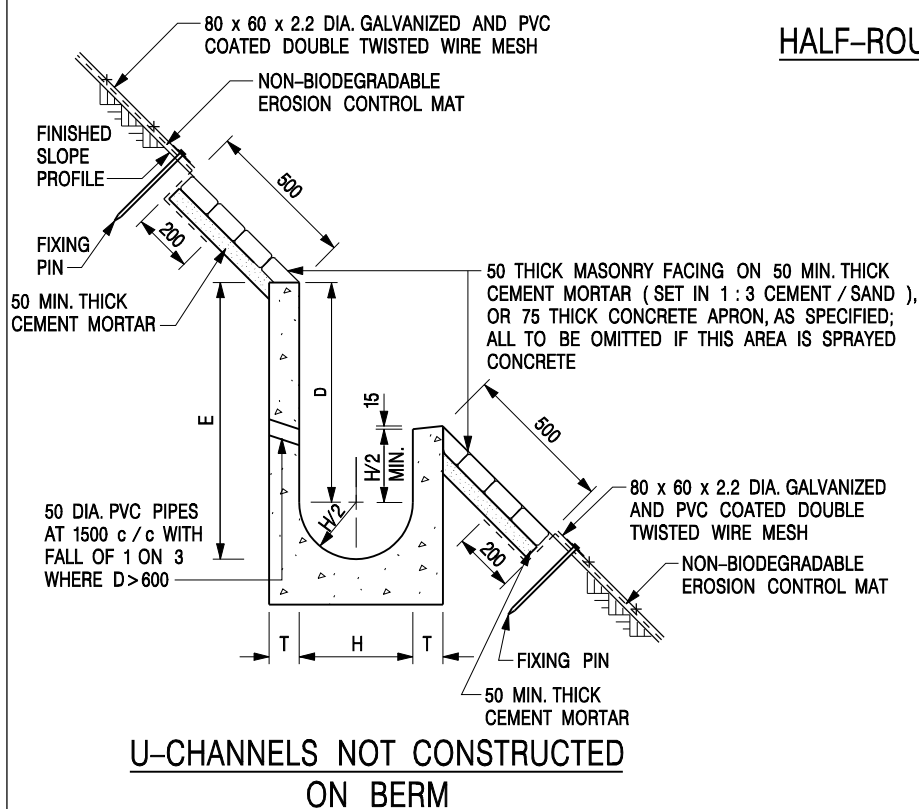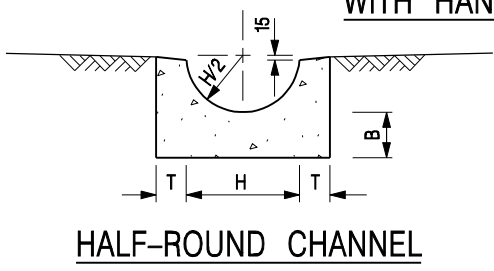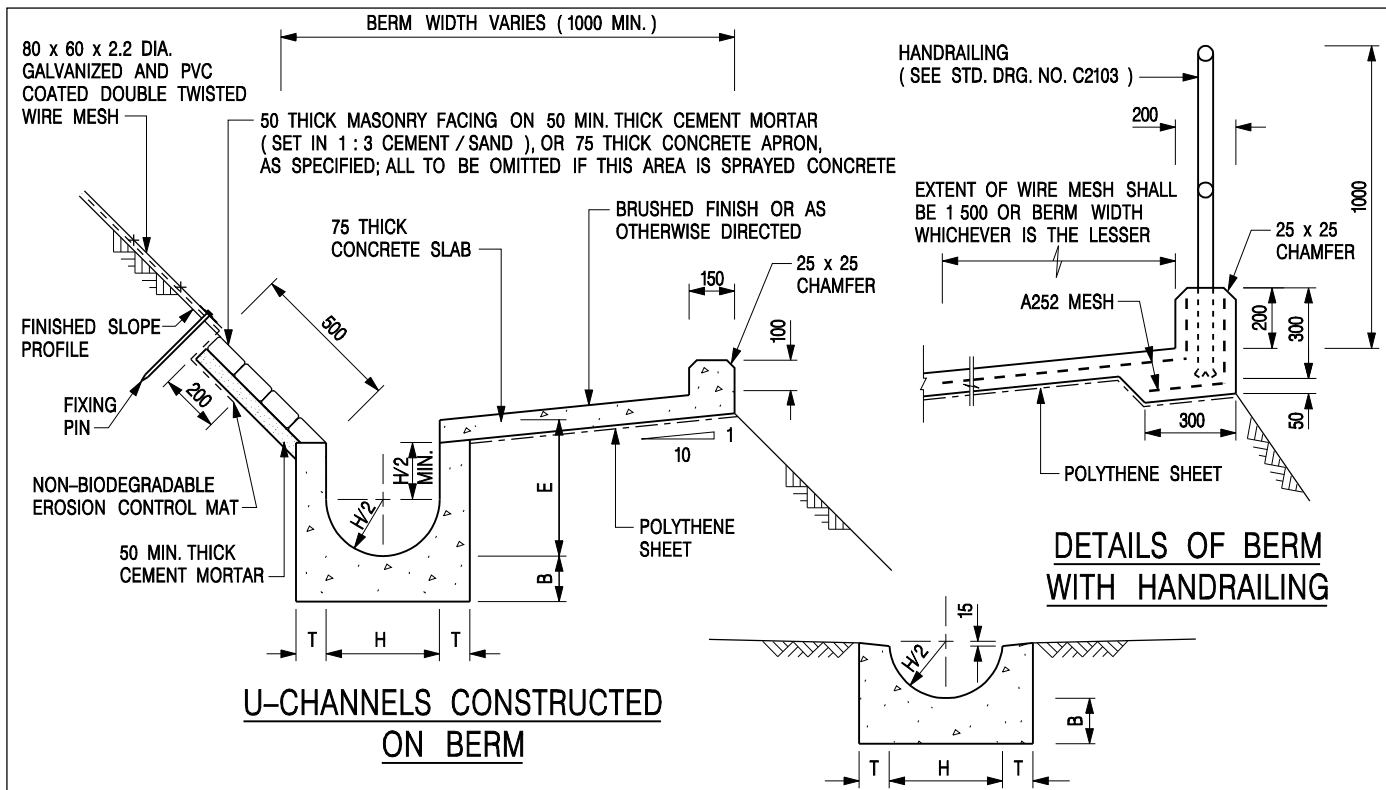## FOR PRECAST CONCRETE COVERS / GRATINGS

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.

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

CATCHPIT WITH TRAP
(SHEET 2 OF 2)

CEDD

CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DATE JAN 1991

DRAWING NO.
C2406 /2A

BERM WIDTH VARIES (1000 MIN.)

80 x 60 x 2.2 DIA. GALVANIZED AND PVC COATED DOUBLE TWISTED WIRE MESH

50 THICK MASONRY FACING ON 50 MIN. THICK CEMENT MORTAR (SET IN 1 : 3 CEMENT / SAND), OR 75 THICK CONCRETE APRON, AS SPECIFIED; ALL TO BE OMITTED IF THIS AREA IS SPRAYED CONCRETE

75 THICK CONCRETE SLAB

BRUSHED FINISH OR AS OTHERWISE DIRECTED

25 x 25 CHAMFER

150

100

FINISHED SLOPE PROFILE

FIXING PIN

200

H/2 MIN.

E

NON-BIODEGRADABLE EROSION CONTROL MAT

50 MIN. THICK CEMENT MORTAR

H/2

B

500

10 1

POLYTHENE SHEET

T H T

U–CHANNELS CONSTRUCTED ON BERM

HANDRAILING (SEE STD. DRG. NO. C2103)

200

1000

EXTENT OF WIRE MESH SHALL BE 1 500 OR BERM WIDTH WHICHEVER IS THE LESSER

25 x 25 CHAMFER

A252 MESH

200

300

300

50

POLYTHENE SHEET

DETAILS OF BERM WITH HANDRAILING

80 x 60 x 2.2 DIA. GALVANIZED AND PVC COATED DOUBLE TWISTED WIRE MESH

NON-BIODEGRADABLE EROSION CONTROL MAT

FINISHED SLOPE PROFILE

FIXING PIN

200

500

50 MIN. THICK CEMENT MORTAR

E

D

15

H/2 MIN.

H/2

50 DIA. PVC PIPES AT 1500 c / c WITH FALL OF 1 ON 3 WHERE D > 600

50 THICK MASONRY FACING ON 50 MIN. THICK CEMENT MORTAR (SET IN 1 : 3 CEMENT / SAND), OR 75 THICK CONCRETE APRON, AS SPECIFIED; ALL TO BE OMITTED IF THIS AREA IS SPRAYED CONCRETE

500

80 x 60 x 2.2 DIA. GALVANIZED AND PVC COATED DOUBLE TWISTED WIRE MESH

200

NON-BIODEGRADABLE EROSION CONTROL MAT

FIXING PIN

50 MIN. THICK CEMENT MORTAR

T H T

U–CHANNELS NOT CONSTRUCTED ON BERM

15

H/2

B

T H T

HALF–ROUND CHANNEL

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.

2. ALL CONCRETE TO BE GRADE 20 / 20.

3. CONCRETE SURFACE FINISH SHALL BE CLASS U2, F2 OR BRUSHED FINISH AS DIRECTED.

4. SPACING OF EXPANSION JOINT IN CHANNELS, BERM SLABS AND APRONS TO BE 10 METRES MAXIMUM, SEE STD. DRG. NO. C2413 FOR DETAILS.

5. JOINTS FOR CHANNELS, BERM SLABS, APRONS AND WALLS, ETC. TO BE ON THE SAME ALIGNMENT.

6. FOR DIMENSIONS T, H, & B, SEE TABLE BELOW.

7. BIODEGRADABLE EROSION CONTROL MAT IF REQUIRED, SEE STD. DRG. NO. C2511/1E.

8. CONCRETE TO BE COLOURED AS SPECIFIED.

9. CONCRETE U-CHANNEL CAN BE CAST IN-SITU OR PRECAST CONCRETE SUBJECT TO THE ENGINEER'S AGREEMENT ON THE DETAILS.

10. DETAILS OF EROSION CONTROL MAT AND WESH MESH ON BERM. (SEE STD DRG. NO. C2511/1E)

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

REF.	REVISION	SIGNATURE	DATE
I	MINOR AMENDMENT.	Original Signed	07.2018
H	THICKNESS OF MASONRY FACING AMENDED.	Original Signed	01.2005
G	MINOR AMENDMENT.	Original Signed	01.2004
F	GENERAL REVISION.	Original Signed	12.2002
E	DRAWING TITLE AMENDED.	Original Signed	11.2001
D	MINOR AMENDMENT.	Original Signed	08.2001
C	150 x 100 UPSTAND ADDED AT BERM.	Original Signed	6.99
B	MINOR AMENDMENTS.	Original Signed	3.94

DETAILS OF HALF–ROUND AND U–CHANNELS (TYPE A – WITH MASONRY APRON)
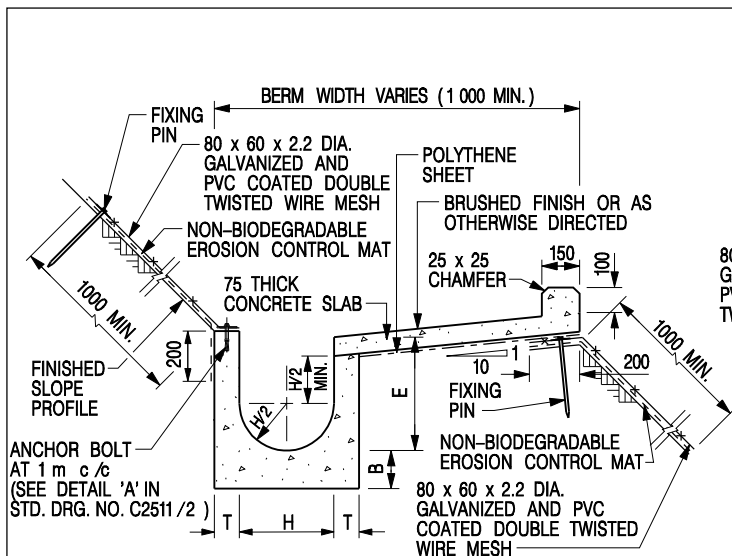
CEDD

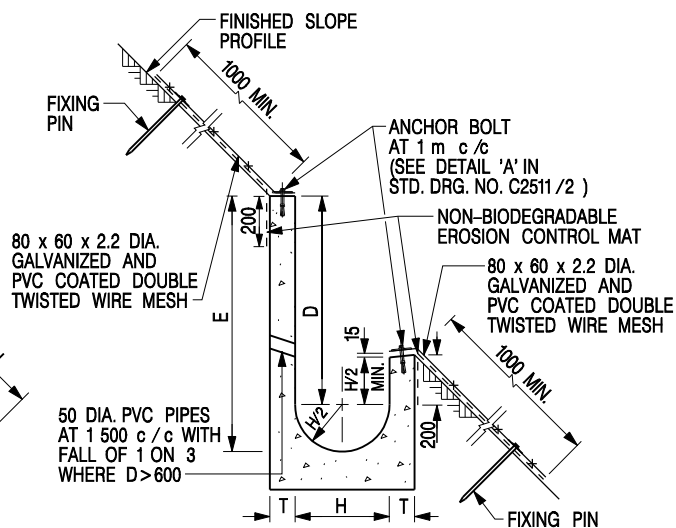**CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT**

SCALE 1 : 25

DATE JAN 1991

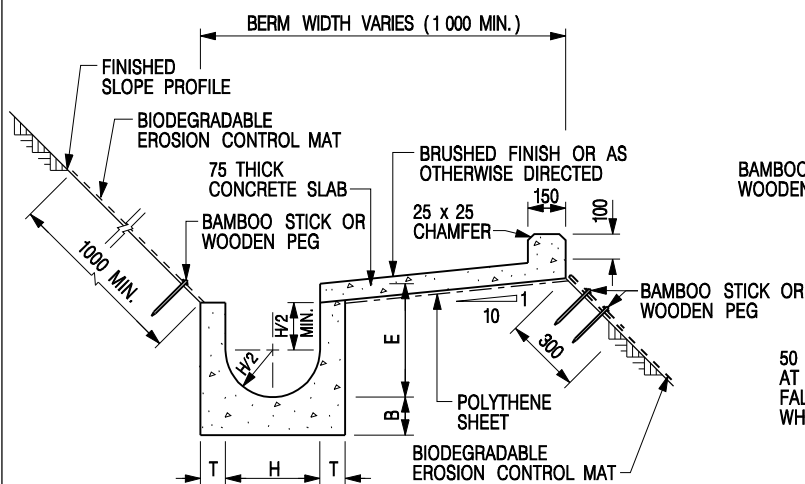DRAWING NO. C2409I
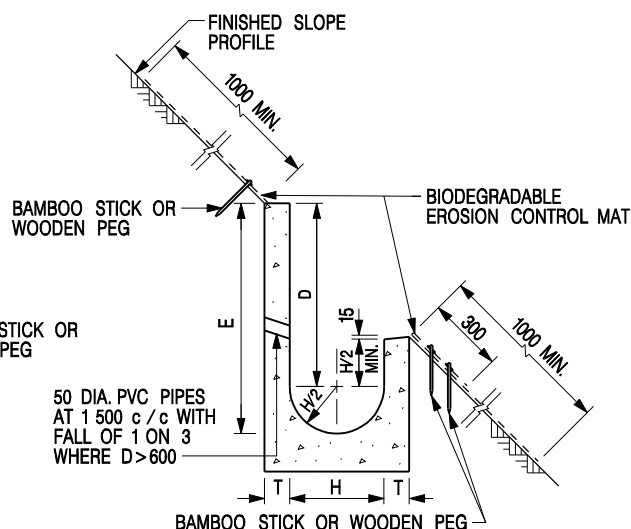
卓越工程 建設香港   We Engineer Hong Kong's Development

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:

1. ALL DIMENSIONS ARE IN MILLIMETRES.

2. ALL CONCRETE TO BE GRADE 20/20.

3. CONCRETE SURFACE FINISH SHALL BE CLASS U2, F2 OR BRUSHED FINISH AS DIRECTED.

4. SPACING OF EXPANSION JOINT IN CHANNELS, BERM SLABS AND APRONS TO BE 10 METRES MAXIMUM, SEE STD. DRG. NO. C2413 FOR DETAILS.

5. JOINTS FOR CHANNELS, BERM SLABS, APRONS AND WALLS, ETC. TO BE ON THE SAME ALIGNMENT.

6. FOR DIMENSIONS T, H, & B, SEE TABLE BELOW.

7. FOR TYPICAL FIXING PIN DETAILS, SEE STD. DRG. NO. C2511/2.

8. MINIMUM SIZE OF 25 x 50 x 300mm SHALL BE PROVIDED FOR WOODEN PEG.

9. MINIMUM SIZE OF 10mm DIAMETER WITH 200mm LONG SHALL BE PROVIDED FOR BAMBOO STICK.

10. 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

REF.	REVISION	SIGNATURE	DATE
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

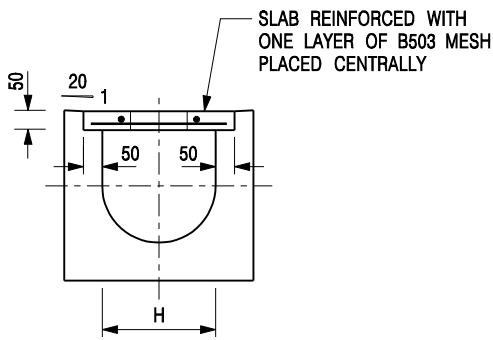# DETAILS OF HALF-ROUND AND U-CHANNELS (TYPE B – WITH EROSION CONTROL MAT APRON)

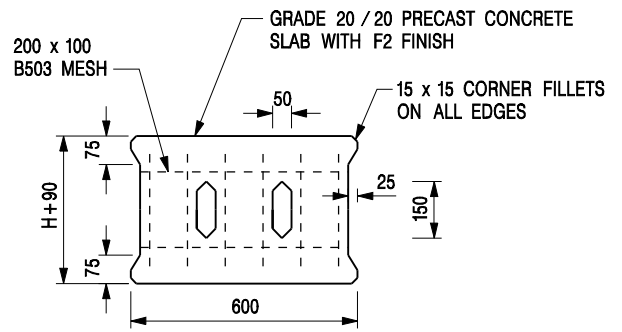**CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT**
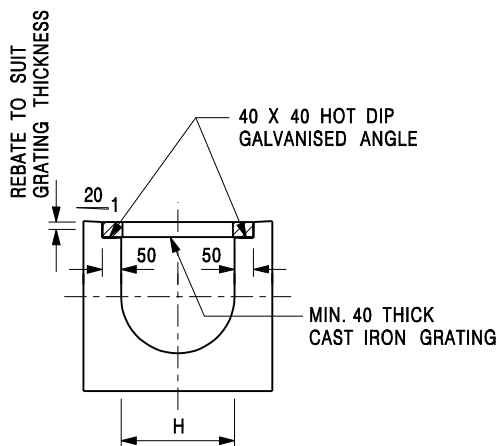
SCALE DIAGRAMMATIC

DATE JAN 1991

DRAWING NO. C2410I

SLAB REINFORCED WITH ONE LAYER OF B503 MESH PLACED CENTRALLY

TYPICAL SECTION

PLAN OF SLAB

200 x 100 B503 MESH

GRADE 20 / 20 PRECAST CONCRETE SLAB WITH F2 FINISH

15 x 15 CORNER FILLETS ON ALL EDGES

U–CHANNELS WITH PRECAST CONCRETE SLABS
(UP TO H OF 525)

REBATE TO SUIT GRATING THICKNESS

40 X 40 HOT DIP GALVANISED ANGLE

MIN. 40 THICK CAST IRON GRATING

TYPICAL SECTION

CAST IRON GRATING

WIDTH H+90

75 % WIDTH
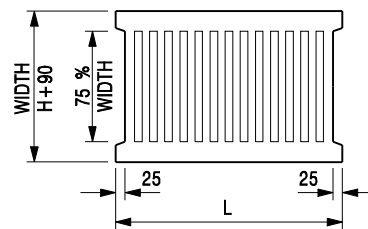
L = 600mm FOR H ≤ 375mm
L = 400mm FOR H > 375mm

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

U–CHANNEL WITH CAST IRON GRATING
(UP TO H OF 525)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.

2. H = NOMINAL CHANNEL SIZE.

3. ALL CAST IRON FOR GRATINGS SHALL BE GRADE EN–GJL–150 COMPLYING WITH BS EN 1561.

4. 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.

REF.	REVISION	SIGNATURE	DATE
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

COVER SLAB AND CAST IRON GRATING FOR CHANNELS

CEDD

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DATE JAN 1991

DRAWING NO. C2412E

卓越工程 建設香港

We Engineer Hong Kong's Development

Table 3a – Storm Constants for Different Return Periods of HKO Headquarters

Return Period T (years)	2	5	10	20	50	100	200	500	1000
a	446.1	470.5	485.0	496.0	505.5	508.6	508.8	504.6	498.7
b	3.38	3.11	3.11	3.17	3.29	3.38	3.46	3.53	3.55
c	0.463	0.419	0.397	0.377	0.355	0.338	0.322	0.302	0.286

Table 3d – Storm Constants for Different Return Periods of North District Area

Return Period T (years)	2	5	10	20	50	100	200
a	439.1	448.1	454.9	462.3	474.6	486.6	501.4
b	4.10	3.67	3.44	3.21	2.90	2.67	2.45
c	0.484	0.437	0.412	0.392	0.371	0.358	0.348

Table 13 - Values of n to be used with the Manning equation
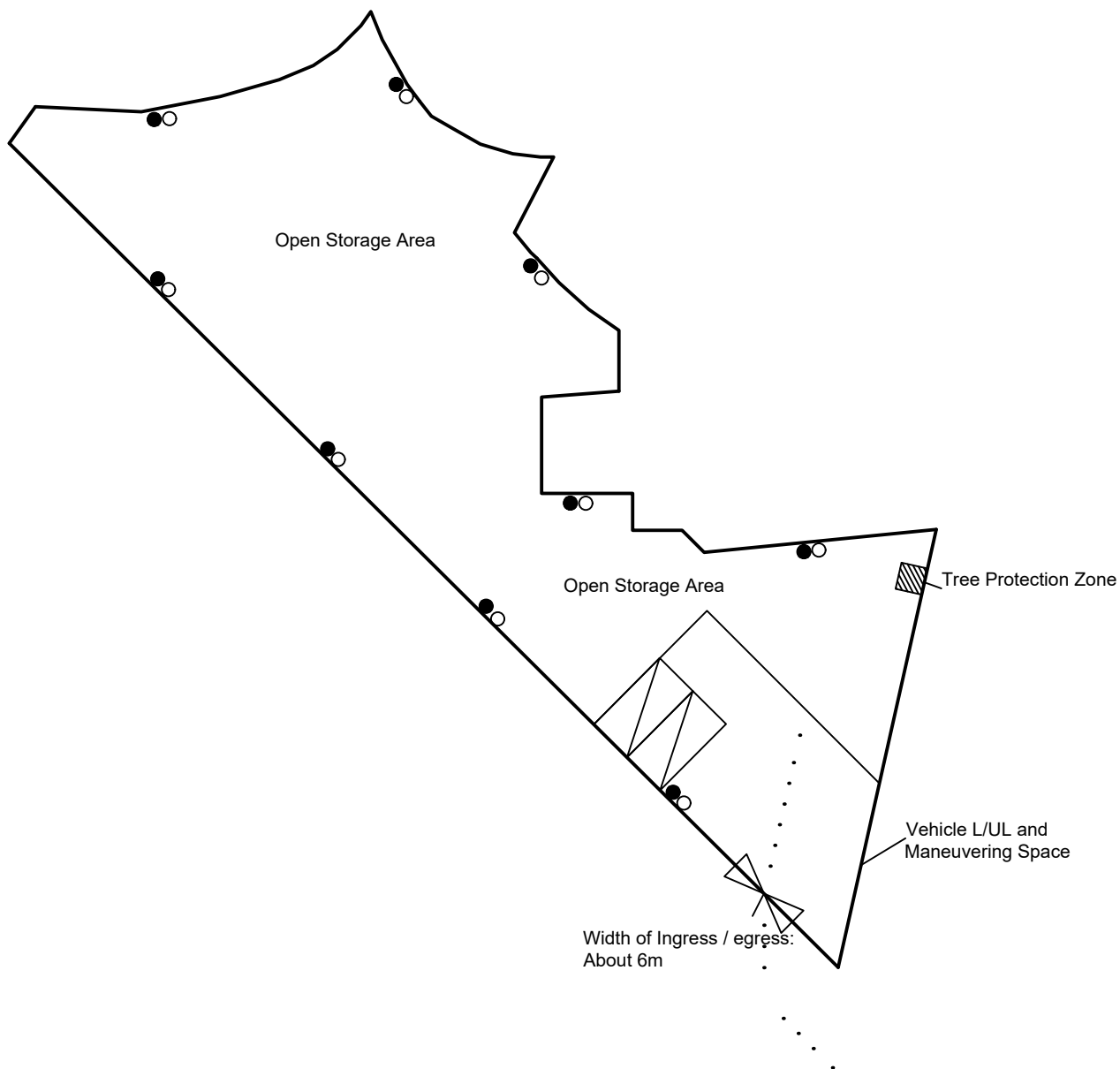
Source: Brater, E.F. & King, H.W. (1976)

Surface	Best	Good	Fair	Bad
Uncoated cast-iron pipe	0.012	0.013	0.014	0.015
Coated cast-iron pipe	0.011	0.012*	0.013*	
Commercial wrought-iron pipe, black	0.012	0.013	0.014	0.015
Commercial wrought-iron pipe, galvanized	0.013	0.014	0.015	0.017
Smooth brass and glass pipe	0.009	0.010	0.011	0.013
Smooth lockbar and welded "OD" pipe	0.010	0.011*	0.013*	
Riveted and spiral steel pipe	0.013	0.015*	0.017*	
Vitrified sewer pipe	0.010	0.013*	0.015	0.017
Common clay drainage tile	0.011	0.012*	0.014*	0.017
Glazed brickwork	0.011	0.012	0.013*	0.015
Brick in cement mortar; brick sewers	0.012	0.013	0.015*	0.017
Neat cement surfaces	0.010	0.011	0.012	0.013
Cement mortar surfaces	0.011	0.012	0.013*	0.015
Concrete pipe	0.012	0.013	0.015*	0.016
Wood stave pipe	0.010	0.011	0.012	0.013
Plank flumes - Planed	0.010	0.012*	0.013	0.014
- Unplaned	0.011	0.013*	0.014	0.015
- With battens	0.012	0.015*	0.016	
Concrete-lined channels	0.012	0.014*	0.016*	0.018
Cement-rubble surface	0.017	0.020	0.025	0.030
Dry-rubble surface	0.025	0.030	0.033	0.035
Dressed-ashlar surface	0.013	0.014	0.015	0.017
Semicircular metal flumes, smooth	0.011	0.012	0.013	0.015
Semicircular metal flumes, corrugated	0.0225	0.025	0.0275	0.030
Canals and ditches				
1. Earth, straight and uniform	0.017	0.020	0.0225*	0.025
2. Rock cuts, smooth and uniform	0.025	0.030	0.033*	0.035
3. Rock cuts, jagged and irregular	0.035	0.040	0.045	
4. Winding sluggish canals	0.0225	0.025*	0.0275	0.030
5. Dredged-earth channels	0.025	0.0275*	0.030	0.033
6. Canals with rough stony beds, weeds on earth banks	0.025	0.030	0.035*	0.040
7. Earth bottom, rubble sides	0.028	0.030*	0.033*	0.035
Natural-stream channels				
1. Clean, straight bank, full stage, no rifts or deep pools	0.025	0.0275	0.030	0.033
2. Same as (1) but some weeds and stones	0.030	0.033	0.035	0.040
3. Winding some pools and shoals, clean	0.033	0.035	0.040	0.045
4. Same as (3), lower stages, more ineffective slope and sections	0.040	0.045	0.050	0.055

Table 13 (Cont'd)

Surface	Best	Good	Fair	Bad
5. Same as (3) some weeds and stones	0.035	0.040	0.045	0.050
6. Same as (4) stony sections	0.045	0.050	0.055	0.060
7. Sluggish river reach, rather weedy or with very deep pools	0.050	0.060	0.070	0.080
8. Very weedy reaches	0.075	0.100	0.125	0.150

Notes: *Values commonly used for design.

LGV L/UL Space
Dimension: 7m x 3.5m
Unit(s): 2

N

Open Storage Area

Tree Protection Zone

Open Storage Area

Vehicle L/UL and
Maneuvering Space

Width of Ingress / egress:
About 6m

*All FSI (includes installation/maintenance/modification/repair work) will be completed by RFSIC.
 For Emergency Vehicular Access, Please see Appendix 6.1
* All Internal Access for Fire Appliances are within 4.5m
* There will be clear width with 2m between the storage and lot boundaries.

Legend:
○ 5 kg Portable Carbon Dioxide Type Fire Extinguisher (9 in Total)

● 9 kg Portable Water Type Fire Extinguisher (9 in Total)

· · · Emergency Vehicular Access

| Appendix 6	Proposed Fire Service Installation Plan	SCALE	
Location: DD 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part) App. No.: A/YL-KTN/1018 OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture Date: 11 September 2024	擬議消防設備安裝計劃圖 擬議臨時露天存放建築機械及物料 （為期3年）及填土 Proposed Temporary Open Storage of Construction Machinery and Materials For a Period of 3 Years and Filling of Land	1:500 @A4	
		For Identification Only	Drawing No.: 6-01
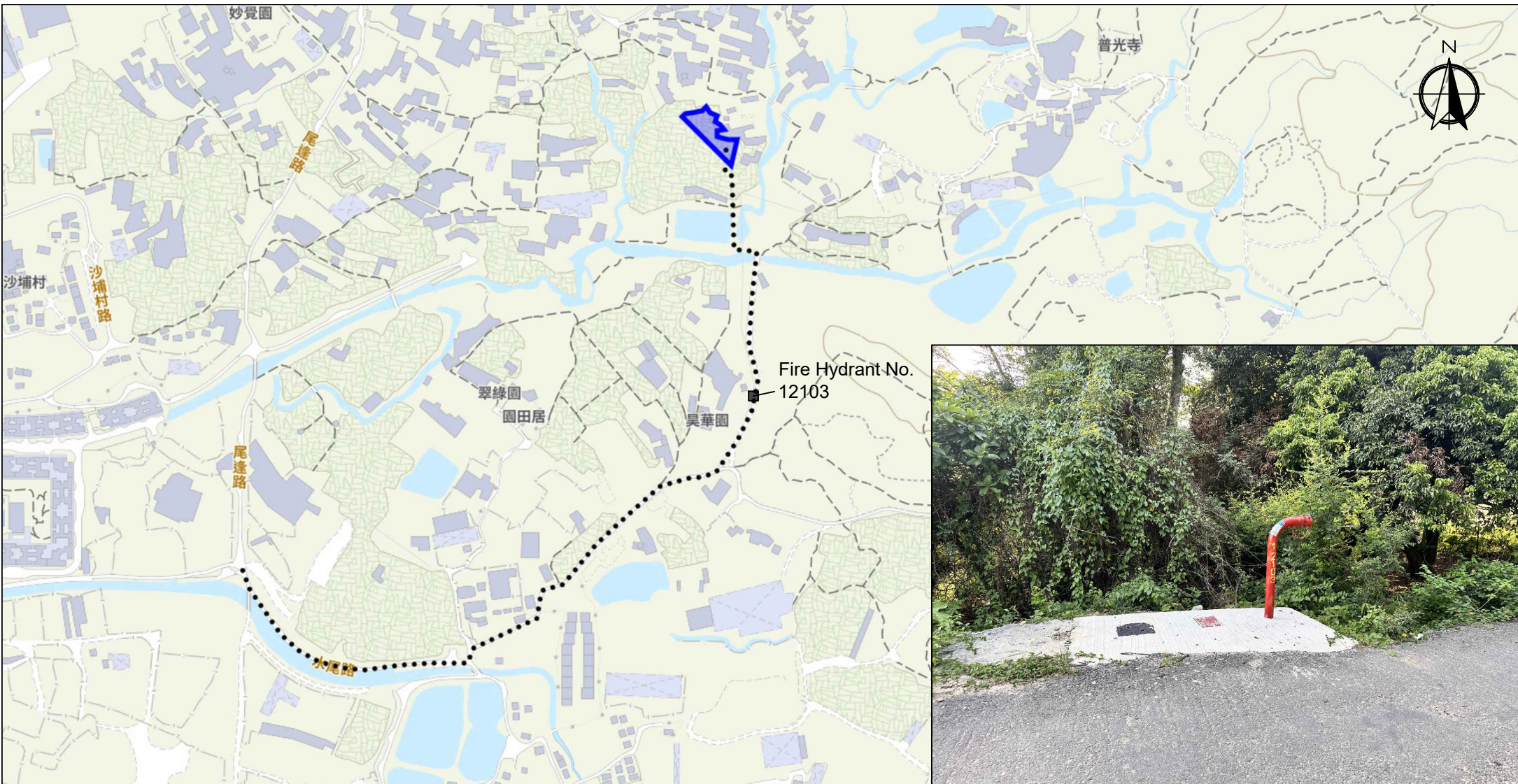
* The Fire Hydrant No. 12103 is within 500m of the application site.

Scale: Undefined @A4

Captured from map.gov.hk on 25th April 2024

Appendix 6.1	Location: D.D. 107 Lot 1247 (Part), 1248 (Part), 1249 (Part), 1252 (Part) and 1253 (Part)	Proposed Temporary Open Storage of Construction Machinery and Materials For a Period of 3 Years and Filling of Land	Width of Shui Mei Road: 3-6m (About) Map Legend: ••••• Road Path —— Site Boundary	Drawing No.: 6.1-1
Emergency Vehicular Access	OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture			For Identification Only Date: 11/09/2024

On map: 妙覺園, 普光寺, 尾逢路, 沙埔村, 沙埔村路, 翠綠園, 園田居, 昊華園, 尾逢路, 水尾路, Fire Hydrant No. 12103, N

FIRE SERVICE (INSTALLATIONS AND EQUIPMENT) REGULATIONS
消防（裝置及設備）規例
(Regulation 9(1))
（第九條 (1) 款）
CERTIFICATE OF FIRE SERVICE INSTALLATION AND EQUIPMENT
消防裝置及設備證書

A 9563832

FSD Ref.: _____
消防處檔號

Name of Client :　Tang Wai Ip
顧客姓名

Name of Building :　DD107 LOT 1247(Part), 1248(Part), 1249(Part), 1252(Part) and 1253(Part)
樓宇名稱

Street No./Town Lot :
門牌號數/市地段

Street/Road/Estate Name :
街道/屋苑名稱

Block :　　　　　District :　　Kam Tin, Yuen Long　　Area :　☐HK香港　☐K九龍　☐NT新界
座　　　　　　　分區　　　　　　　　　　　　　　　　地區

Type of Building 樓宇類型 : ☐Industrial工業　☐Commercial商業　☐Domestic住宅　☐Composite綜合　☐Licensed premises持牌處所　☐Institutional社團

Part 1 Annual Inspection ONLY
第一部 只適用於年檢事項

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

Code編碼 (1-35)	Type of FSI 裝置類型	Location(s) 位置	Comment on Condition 狀況評述	Completion Date 完成日期(DD/MM/YY)	Next Due Date 下次到期(DD/MM/YY)

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

Code編碼 (1-35)	Type of FSI 裝置類型	Location(s) 位置	Nature of Work Carried out 完成之工作內容	Comment on Condition 狀況評述	Completion Date 完成日期(DD/MM/YY)
24	5Kg Co2 F.E.		9nos.- New Supply	Good	30/12/2024
24	9L Water F.E.		9nos.- New Supply	Good	30/12/2024

Part 3 第三部 Defects 損壞事項

Code編碼 (1-35)	Type of FSI 裝置類型	Location(s) 位置	Outstanding Defects 未修缺點	Comment on Defects 缺點評述
			Nil	Good

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

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

如證書涉及年檢事項，應張貼於大廈或處所當眼處以供消防處人員查核
This certificate should be displayed at prominent location of the building or premises for FSD's inspection if any annual maintenance work is involved.

F.S. 251 (Rev. 1/2016)

Authorized Signature :
受權人簽署

Name :　Chow Kwok Wah
姓名

FSD/RC No. :　RC3/540
消防處註冊號碼

Company Name :　N/A
公司名稱

Telephone :　(852) 23321309
聯絡電話

Date :　30/12/2024
日期

For FSD use only:

Inspected

Key-in

Verified