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#### Michael Chi Kin SO/PLAND

寄件者:

**寄件日期:** 2025年06月11日星期三 23:12

收件者: tpbpd/PLAND

**副本:** Michael Chi Kin SO/PLAND **主旨:** A/YL-KTS/1071:回應部門意見

**附件:** A\_YL-KTS\_1071\_回應部門意見.pdf; 附件2: Temporary Drainage Proposal for A\_YL-

KTS\_1071 (Issue 2).pdf; 附件1: A\_YL-KTS\_1071\_Layout\_Plan..pdf

類別: Internet Email

城規會/規劃處:

有關規劃申請: A/YL-KTS/1071, 現附上回應部門的意見,請查收。

此電郵將取代2025年6月10日的電郵。

謝謝。

Ms Chong

## Planning Application No. A/YL-KTS/1071

Table A: Responses to Departmental Comments

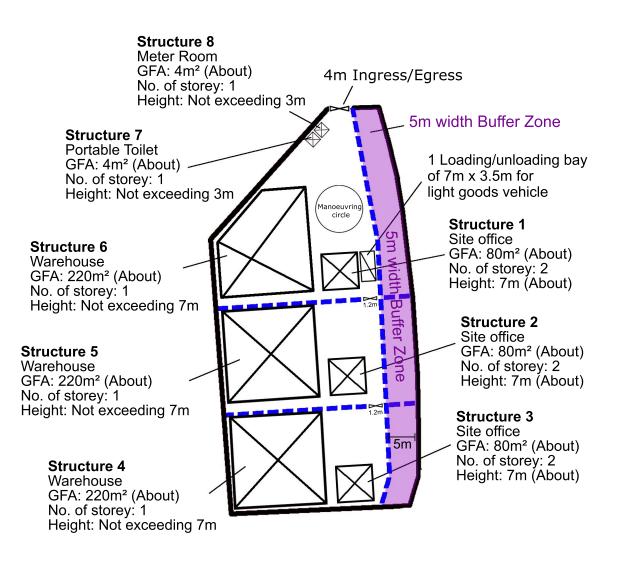
	Departmental Comments	Responses
	Agriculture, Fisheries and Conservation Department	
(a)	It is noted that current activities on the application site may have encroached on the abutting CA zone adjacent to the application site boundary. There is a concern that there will be a possible encroachment and disturbance on the nearby CA zone from the use.	請查閱附件 1 的 Layout Plan ,現時申請地點的活動並沒有在 CA 地區及緩衝區內進行,將來也不會擴展開去。申請人確保擬議申請的所有活動不會影響 CA 地區。  附件 1: Layout Plan
(b)	It is noted that there is a natural streamcourse to the	申請人已用坑板圍起申請地點,並已
	west of the subject site. The applicant shall clarify whether any measure will be implemented to avoid disturbance to the watercourse nearby during land filling and operation.	做好排水設施,擬議申請不會對西邊 的天然河流造成負面影響。

	Departmental Comments	Responses
	Planning Department	
(a)	Please confirm that "no dangerous goods will be stored at the Site. No open storage, assembling, dismantling, maintenance and other workshop activities will be conducted within the Site".	申請人確認擬議申請的臨時貨倉並不會存放 任何危險物品,也不會在現場進行露天存 放、修理、組裝、拆卸或工場活動。
	Please confirm that all activities would only be carried out within the application site.	申請人確認所有活動只會在申請範圍內進行。 (Layout Plan 上的黑色線範圍內)
	According to the site photos taken, it is noted that fences are erected along the boundary of the application site. Please advise that they should be clearly marked on the layout plan.	請查看附件 1。 黑色粗線就是申請範圍的圍板位置。

	Departmental Comments	Responses
	Drainage Services Department	
(a)	The applicant should include a drainage	申請人已做好排水建議書,請看附件2。
	proposal to support the application.	
		附件 2:Temporary Drainage Proposal
(b)	The applicant is reminded to refer to DSD's	申請人知悉。
	Stormwater Drainage Manual and its	
	corrigenda for preparation and submission	
	of drainage assessment/proposal.	

# 補充說明

- 1. 申請地點只設一個大門給貨車和職員進出,緩衝區內(Buffer Zone)不會有任何卸貨活動或職員進出,確保達到緩衝效果。
- 2. 申請地點內 3 個貨倉是可以互通的,職員可透過中間的小門用手推車送貨。
- 3. 擬議申請的申請地點早前已獲批准做動物寄養所,但由於元朗廈村 及洪水橋近期被政府徵收土地,大量貨倉被逼遷出和要找地方搬, 貨倉需求大大提升,因此申請人將擬議申請用途轉成臨時貨倉,以 應付貨倉需求急升和回應政府政策。





Project 項目名稱:

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years and Associated Filling of Land at Lot 1595 (Part) in D.D.113, Ma On Kong, Kam Tin, Yuen Long

Drawing Title 圖紙標題:	Remarks 備語	<b>挂</b> :
_ayout Plan	Light goods vehicle	
	$\boxtimes$	Structure
		Height 1 9m not foncing
Drawing No. 圖號:		Height 1.8m net fencing
20250604		Application Boundary with Fencing

#### **ISSUE 2**

### **TEMPORARY DRAINAGE PROPOSAL**

APPLICATION SITE OF THE PROPOSED
TEMPORARY WAREHOUSE (EXCLUDING
DANGEROUS GOODS GODOWN) WITH
ANCILLARY FACILITIES AND ASSOCIATED FILLING
OF LAND FOR A PERIOD OF 3 YEARS AT LOT
1595 (PART) IN D.D.113, MA ON KONG, KAM
TIN, YUEN LONG.

PROJECT NO. AGLA/TDM/026

**PREPARED FOR** 

**APPLICATION NO. A/YL-KTS/1071** 

9 JUNE 2025

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#### 1 Introduction

#### 1.1 Background

- 1.1.1 This report presents the Drainage Proposal for supporting the Proposed Temporary d Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Facilities and Associated Filling of Land for a Period of 3 Years at Lot 1595 (Part) in D.D.113, Ma On Kong, Kam Tin, Yuen Long.
- 1.1.2 For the site location plan, please refer to the **Appendix A.**

#### 1.2 Objectives of the Report

- 1.2.1 This report shall be prepared to include the following:
  - Identify the potential drainage impact assessment from the proposed Application Site
  - recommend and implement all necessary measures to mitigate adverse drainage impacts arising from the application site

#### 1.3 Report Structure

- 1.3.1 The report contains the following sections:
  - Section 1 on Introduction;
  - Section 2 on Development Proposal;
  - Section 3 on Assessment Criteria;
  - Section 4 on Potential Drainage Impact; and
  - Section 5 on Conclusion.

### 2 Development Proposal

#### 2.1 Location of the Application Site

- 2.1.1 The application Site is located within the Ma On Kong, Kam Tin, with an area of around 1,930m<sup>2</sup> and ground level varying between + 25.7mPD and + 23.7 mPD. The layout plan is provided in **Appendix B.**
- 2.1.2 This application site is "Agriculture" zoning, the type of application is the Temporary Use/Development in Rural Areas for a Period of 3 Years.

#### 3 Assessment Criteria

#### 3.1 Design Return Periods

3.1.1 The drainage system in the Application site is to collect surface flows and convey to downstream village drain. The recommended design return periods based on the flood levels for the various drainage systems depend on the drainage system, land use, hazard to public safety and community expectations. The recommended design return period is reproduced in Table 3-1 below:

Table 3-1 Recommended Design Return Periods based on Flood Levels

DESCRIPTION	DESIGN RETURN PERIODS
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 System	200 Years
Urban Drainage Branch System	50 Years

- 3.1.2 As per Storm Drainage Manuel (SDM) Section 6.6.2 Urban Drainage Branch and Urban Drainage Trunk Systems "An 'Urban Drainage Branch System' is defined as a group or network of connecting drains collecting runoff from the urban area and conveying stormwater to a trunk drain, river or sea. For a simple definition, the largest pipe size or the equivalent diameter in case of a box culvert in a branch system will normally be less than 1.8m.
- 3.1.3 An 'Urban Drainage Trunk System' collects stormwater from branch drains and/or river inlets, and conveys the flow to outfalls in river or sea. Pipes with size or diameter equal to or larger than 1.8m are normally considered as trunk drains."
- 3.1.4 As per SDM, since the proposed U-channels are sized smaller than 1.8m, the drainage system would be defined as an urban drainage branch with recommended design return period of 50 years.
- 3.1.5 The 50 years design return period will be considered to ensure adequacy of the stormwater drainage system.

#### 3.2 Calculation Methodology for Runoff

3.2.1 Peak instantaneous runoff values before and after the development were calculated based on the Rational Method and with recommended physical parameters including runoff coefficient (C) and storm constants for different return periods referred to the SDM, based on the following equation:

$$Q_p = 0.278 \text{ C i A}$$

where  $Q_p = Peak Runoff, m^3/s$  C = Runoff Coefficient i = Rainfall Intensity, mm/hr

 $A = Catchment Area, km^2$ 

- 3.2.2 The paved area of the site will account for 1,600 m<sup>2</sup>. For conservative, the runoff coefficient of 1.0 is assumed, such that the all the run-off would be collected from the catchment area without any infiltration as the critical scenario.
- 3.2.3 Based on the storm constants for 50-year return period recommended in the SDM, the appropriate rainfall intensities (i) are calculated as detailed in **Appendix D**

#### 3.3 Calculation Methodology for Pipe Capacity Checking

- 3.3.1 Because the catchment areas are less than 1ha, U-channels are recommended to be constructed to collect the stormwater runoff within the site. The collected stormwater should finally be diverted to the downstream via the proposed U-channel system.
- 3.3.2 For the worst-case scenario, bad condition of concrete pipe is assumed for the Manning's roughness coefficient (coefficient value is 0.016) for calculating capacities of concrete Uchannel using Manning's Equation.
- 3.3.3 Manning's Equation for calculating the channel and pipe capacities is adopted.

### 4 Potential Drainage Impact

#### 4.1 Existing Site Condition

4.1.1 The adjacent ground surface from southern direction are generally higher than the ground level of application site, external catchment m² shall be considered in the calculation, the application site with a projected area of 1,930 m² with external catchment of 320 m² and the adjacent hilly terrain with external catchment of 5,840 m² are considered as part of the catchment.

#### 4.2 Changes in Drainage Characteristics

- 4.2.1 The characteristics of the sub-catchment areas are remained unchanged due to the temporary development for the application site, which are paved area.
- 4.2.2 The application site is fully covered by concrete surface currently. This application does not propose adding any additional concrete area, the difference in surface runoff that can be attributed to this application is negligible. The change in sub-catchment is summarized in Table 4-2.

Table 4-1 Sub-catchment within the site

CATCHMENT	К	AREA (A)
Application Site Area	1.00	1930.0
External Catchment Area	0.30	5840.0
External Catchment Area	1.00	320.0
Total Catchment Area	1.00	4002.0

#### 4.3 Potential Drainage Impact

- 4.3.1 The details of the proposed drainage works are illustrated in **Appendix C**.
- 4.3.2 To effectively convey stormwater away from the application site and minimize the potential impact to the drainage infrastructure of the village area, drainage works consists of U-channels, are proposed to convey the flow to the terminate catchpit with trap (TCP).
- 4.3.3 The runoff from the Application site is collected by U-channels along the boundary and discharged to the terminate catchpit with trap (TCP), which is connected to the further downstream leading to the discharge point of the 300mm Pipe at the western direction of the application site, and eventually lead to the existing village Nullah.
- 4.3.4 The 500mm U-channel receives stormwater from the surface and the upstream catchment. For Conservative, the critical scenario is considered for collecting all the flow leading to the 500mm U-channel. The design calculation of the proposed drainage is provided in **Appendix D**. The design calculation is summarized in Table 4-2.

rable i = beoign calculation of the proposed dramage work	Table 4-2 Design ca	lculation of the	proposed	drainage work
---	---------------------	------------------	----------	---------------

DRAINAGE	ESTIMATED FLOW	CAPACITY	RESERVE CAPACITY
SYSTEM	(M³/S)	(M³/S)	
500mm UC	0.263	0.434	39%

#### Note:

- [1] Rainfall increase due to climate change at the end of 21st century is considered according to stormwater drainage manual Table 28.
- [2] The reserve capacity is calculated by assuming that the 400mm U-channel reach its full capacity for conservative.
- 4.3.5 The design runoff arise from the proposed Application Site is to be discharged into the proposed 500mm UC with the runoff anticipated to be 0.263m³/s, which is within the drainage capacity of the proposed 500mm u-channel of 0.434m³/s with gradient 1:100.
- 4.3.6 Since there are no changes in Drainage Characteristics, it is considered that the drainage discharge from the Application Site will not cause adverse impact to the entire downstream drainage system.
- 4.3.7 All u-channels & catch pits will be constructed according to the CEDD's standard drawings, please refer to the **Appendix E.**

### **5** Construction Stage

#### **5.1** Temporary Drainage Arrangements

- 5.1.1 Proper measures shall be taken to maintain the existing drainage characteristics of the catchment areas and to minimize drainage impacts associated with the construction works. The principal drainage impacts which are associated with construction of the works have been identified as follows:
  - (a) Erosion of ground materials;
  - (b) Sediment transportation to existing downstream drainage system; and
  - (c) Obstruction to drainage systems.
- 5.1.2 Regular inspections shall be carried out to ensure integrity of the works. These inspections shall cover works under construction as well as recently completed areas.

- 5.1.3 To ensure proper operation of the site drainage channels and desilting facilities, inspection of the perimeter drains shall be carried out on a weekly basis and the desilting facilities shall be cleaned on a daily basis.
- 5.1.4 If excavated materials are not possible to transport away the excavated material within the same day, the material should be covered by tarpaulin/impervious sheets. Stockpiles of construction materials (for examples aggregate, fill materials) of more than 50 m³ in an open area shall also be covered with tarpaulin or similar fabric during rainstorms.
- 5.1.5 All runoff discharged into the existing drainage system will be settled in a silt trap to ensure no sediment will be discharged into the channel. Silt traps will normally be provided along the site drainage immediately upstream of the proposed discharge point to the existing Site. The silt traps will be inspected daily and immediately after each rainstorm.
- 5.1.6 Liaison will be carried out with relevant parties regarding temporary drainage arrangements to ensure that the drainage system is functioning adequately.

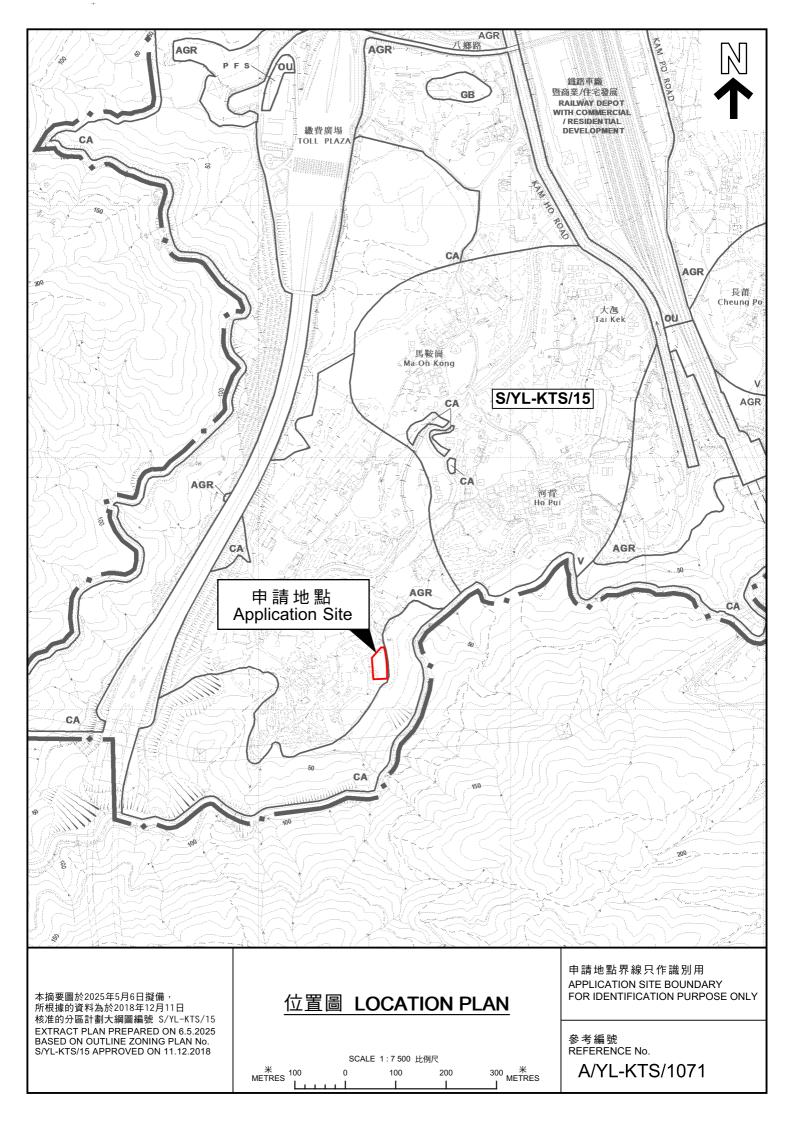
#### 6 Conclusions

#### 6.1 Conclusion

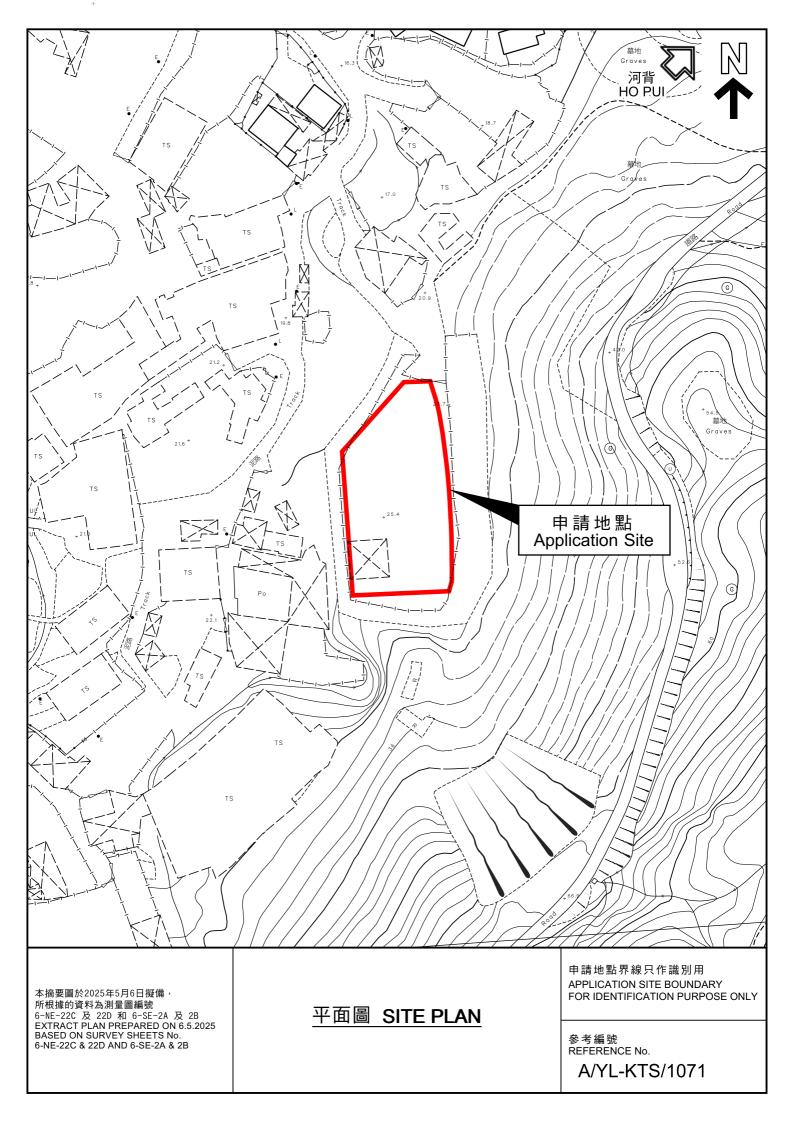
- 6.1.1 The analysed catchment area of 4,002 m<sup>2</sup> consists of the site area of the proposed Application Site and the adjacent catchment area.
- 6.1.2 U-channels are proposed to convey runoff from the application site for collection. The proposed U-channels are located along the site boundary which is subject to change to suit the building layout.
- 6.1.3 The assessment reviews the drainage pipe have the sufficient capacity to cater for the drainage flow from the Application Site.
- 6.1.4 Mitigation measures are proposed during the application site proposed Application Site and to ensure that the existing drainage system within the site will not be affected during the construction stage.

**END OF TEXT** 

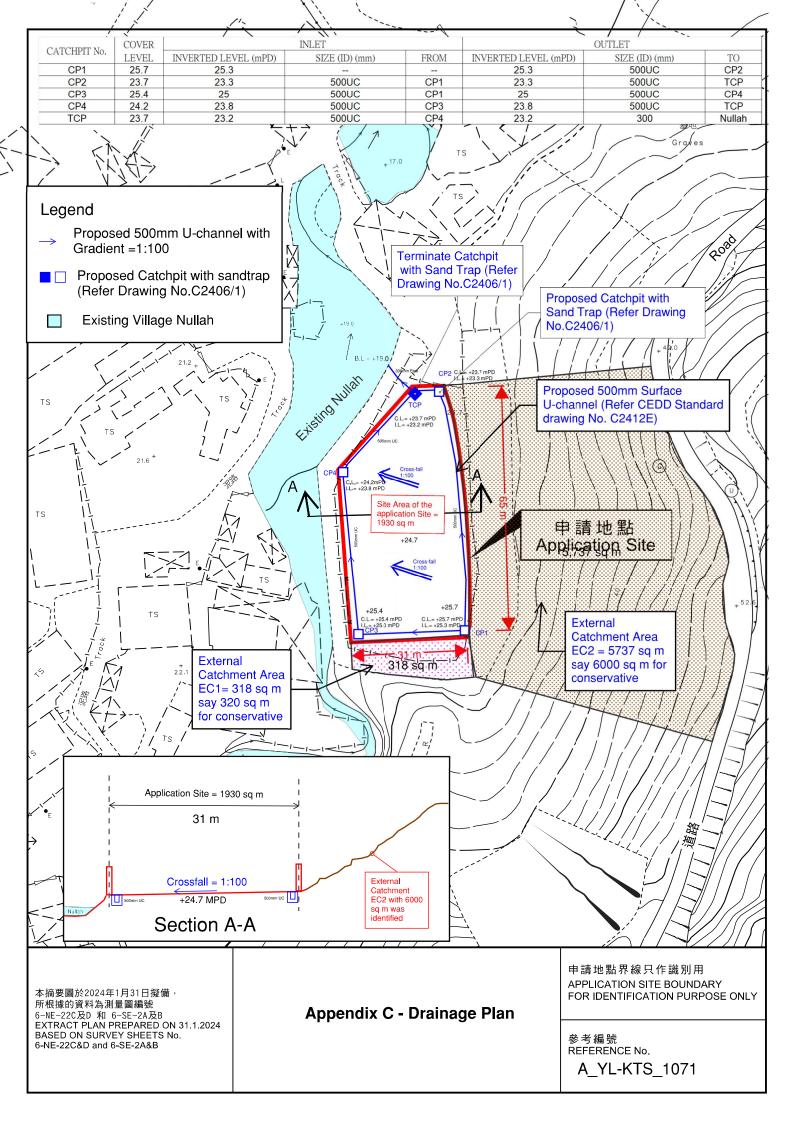
# APPENDIX A SITE LAYOUT PLAN



APPENDIX B
LAYOUT PLAN



APPENDIX C
PROPOSED DRAINAGE PLAN



**APPENDIX D** 

**DESIGN CALCULATION OF THE PROPOSED DRAINAGE** 

#### Design Data

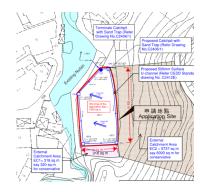
**Design Capacity** 

Reserve capacity

- 1. Design follows the Rational Method in accordance with Stormwater Drainage Manual 2018 (DSD)
- 2. For conservative, Runoff coefficient for paved / unpaved land is 1.
- 3. Design return period is 50 years.
- 4. For manning's equation coefficent n is 0.016.

#### **Check for Hydraulic Capacity:**

Catchment	K	Area (A)
Application Site Area	1.00	1930.0 m <sup>2</sup>
External Catchment Area	0.30	5840.0 m <sup>2</sup>
External Catchment Area	1.00	320.0 m <sup>2</sup>
Total Catchment Area	1.00	4002.0 m <sup>2</sup>



 $0.434 \text{ m}^3/\text{s}$  $0.263 \text{ m}^3/\text{s}$ 

39%

OK

	Runoff estimation			
	Average slope, H		=	1 /100m
	Catchment area, A		=	4002 m <sup>2</sup>
	Distance between summit and point under consideration, L		=	30 m
SDM 7.5.2	Time of concentration of natural catchment, t <sub>o</sub>		=	0.14465 x L / (H <sup>0.2</sup> x A <sup>0.1</sup> )
			=	1.89 min.
	Length of drain, L <sub>i</sub>		=	65 m
	Velocity, V <sub>j</sub>		=	1.945 m/s
SDM 7.5.2	Flow time, t <sub>f</sub>		=	$\Sigma (L_j / V_j)$
			=	0.55694265 min.
	Time of concentration, $t_c$		=	$t_o + t_f$
			=	2.45 min.
SDM Table 3	Storm constants for 50-year return period:	а	=	451.3
		b	=	2.10
		С	=	0.337
SDM 4.3.2	Extreme mean intensity, i50 <sub>yr</sub>		=	$a / (t_d + b)^c$
			=	236.502098 mm/hr
GMS Fig 8.2			<	405.000 mm/hr
SDM 7.5.2	Design flow, Q		=	0.278 i Σ K A
			=	0.263 m <sup>3</sup> /s
	500mm u-channel capacity			
	Diameter		=	500 mm
	Cross-sectional area of 500mm U-channel = (PI x R ^2 /2) + R x R/2	2 =	=	$0.2232 \text{ m}^2$
	Gradient		=	0.01
Manning's Eq.	flow velocity		=	1.945 m/s

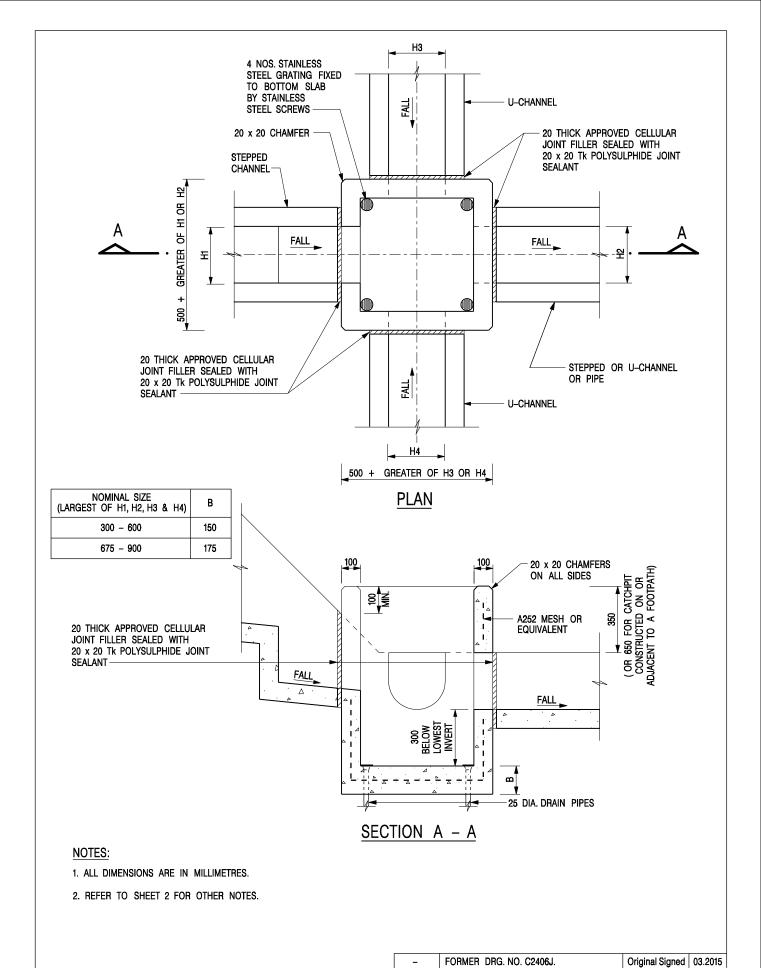
For conservative, all the U-channel along the site boundary shall be 500mm.

	300mm pipe capacity				
	Diameter		=	300 mm	
	Cross-sectional area of 300mm pipe	= (PI x R ^2 ) =	=	$0.0707 \text{ m}^2$	
	Gradient		=	0.10	
Manning's Eq.	flow velocity		=	4.376 m/s	<6 OK
	Design Capacity		=	$0.309 \text{ m}^3/\text{s}$	
			>	0.263 m <sup>3</sup> /s	OK
	Reserve capacity		=	15%	

APPENDIX E

TYPICAL STANDARD DRAWINGS OF U-CHANNEL AND CATCHPIT

(EXTRACTED FROM CEDD, FOR REFERNCE ONLY)



CATCHPIT WITH TRAP
(SHEET 1 OF 2)

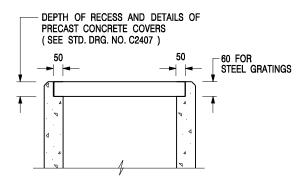
CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

 SCALE 1:20
 DRAWING NO.

 DATE JAN 1991
 C2406 /1

卓越工程 建設香港

We Engineer Hong Kong's Development



# 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.
- 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.
- 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 ⋄ to 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.
- SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

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

CATCHPIT WITH TRAP (SHEET 2 OF 2)

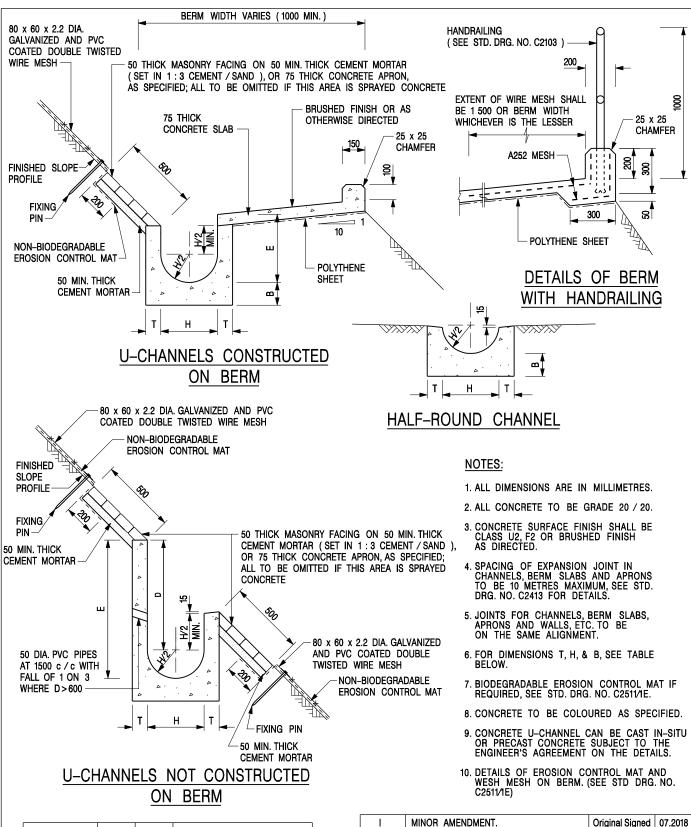
卓越工程 建設香港



# CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

**SCALE** 1:20 **DRAWING NO.** C2406 /2A

We Engineer Hong Kong's Development



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

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

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

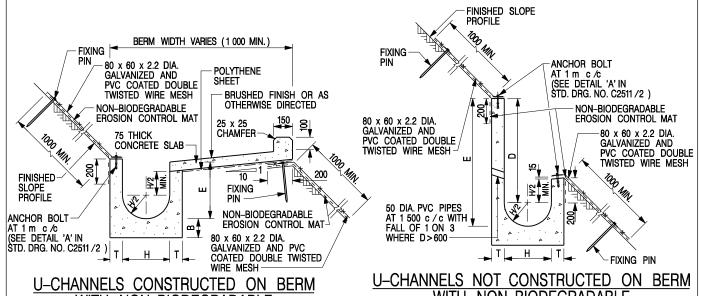
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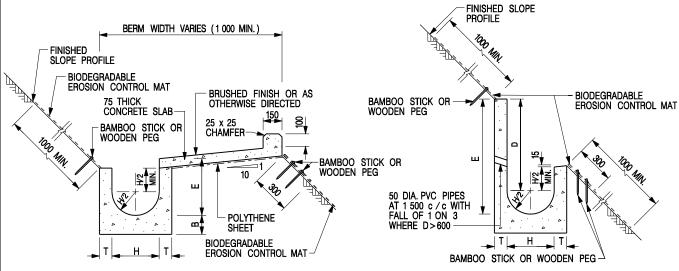
# CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

DATE JAN 1991 DRAWING NO. C24091

We Engineer Hong Kong's Development



U-CHANNELS CONSTRUCTED ON BERM WITH NON-BIODEGRADABLE EROSION CONTROL MAT <u>J-CHANNELS NOT CONSTRUCTED ON BERM</u>
<u>WITH NON-BIODEGRADABLE</u>
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.
- 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.
- 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	Т	В	REINFORCEMENT
300	80	100	A252 MESH PLACED CENTRALLY AND T=100
375 - 600	100	150	WHEN E>650
675 - 900	125	175	A252 MESH PLACED CENTRALLY

DETAILS OF HALF-ROUND	AND
U-CHANNELS (TYPE B - V	VITH
EROSION CONTROL MAT AP	RON)

1	MINOR AMENDMENT.	Original Signed	07.2018
Н	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
С	150 x 100 UPSTAND ADDED AT BERM.	Original Signed	6.99
В	MINOR AMENDMENT.	Original Signed	3.94
Α	MINOR AMENDMENT.	Original Signed	10.92
REF.	REVISION	SIGNATURE	DATE

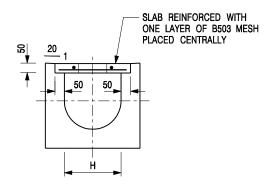


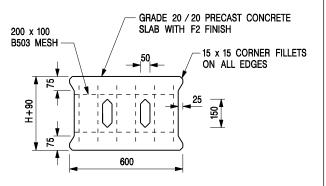
# CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE DIAGRAMMATIC
DATE JAN 1991

C2410l

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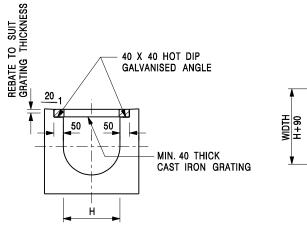


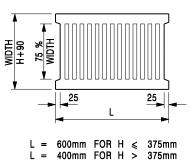
TYPICAL SECTION

PLAN OF SLAB

#### U-CHANNELS WITH PRECAST CONCRETE SLABS

(UP TO H OF 525)





#### TYPICAL SECTION

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:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. H=NOMINAL CHANNEL SIZE.
- 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
Α	CAST IRON GRATING AMENDED.	Original Signed	12.2002
В	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
С	MINOR AMENDMENT. NOTE 3 ADDED.	Original Signed	12.2005
D	NOTE 4 ADDED.	Original Signed	06.2008
Ε	NOTES 3 & 4 AMENDED.	Original Signed	12.2014

# COVER SLAB AND CAST IRON GRATING FOR CHANNELS



# CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

 SCALE 1:20
 DRAWING NO.

 DATE JAN 1991
 C2412E

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APPENDIX F
RESPONSE TO COMMENTS

ъ .		TT.	<b>D</b> .	D 1	(1 4)
Response to	<b>Comments on</b>	Temporary	Drainage	Proposal	Hssue II

1. Comments from DSD/YL ......2

### 1. Comments from DSD/MN

No.	Comments	Response
1.	Please include the connection details, including the C.L., I.L. and B.L., at discharge point in the submission.	Please refer to the revised Appendix C – Drainage Plan.
2.	For ease of reference, please include a drainage schedule in the submission	Please refer to the revised Appendix C – Drainage Plan.
3.	Cross sections at longitude direction showing the existing and proposed ground levels of the captioned site with respect to the adjacent areas should be given.	Noted and provided. Please refer to the revised Appendix C – Drainage Plan.
4.	Please revise the catchment area and take into account the overland flow from the adjacent hilly terrain in the drainage proposal assessment.	The overland flow from the adjacent hilly terrain is incorporated as the external catchment. Please refer to the revised Appendix C – Drainage Plan.
5.	Storm constants for different return period of HKO Headquarters should be adopted for the design calculations.	Noted and revised.
6.	Cross section A-A revealed that the proposed channel cannot intercept the overland flow from the adjacent lands, please review the C.L. of the proposed channels.	Cross section A-A is provided. Please refer to the revised Appendix C – Drainage Plan.
7.	400mm peripheral u-channel is proposed for the application site. However, the size of the proposed downpipe is 200mm. Please review and include the design calculation of the proposed downpipe in the submission. The velocity of proposed downpipe should be checked.	Noted and revised. Please refer to the revised Appendix C – Drainage Plan and the Appendix D- Design Calculation.

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