

[REDACTED]

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寄件者: Chong Hermose <[REDACTED]>  
寄件日期: 2026年02月04日星期三 17:02  
收件者: tpbpd/PLAND  
副本: Jason Sek Hei WONG/PLAND  
主旨: A/YL-SK/437\_Further Information  
附件: A\_YL-SK\_437\_Temporary Drainage Proposal\_20260204.pdf  
  
類別: Internet Email

城規會/規劃處：

大家好。

有關規劃申請：A/YL-SK/437，現附上補充資料，請查收。

這電郵將取代 2026 年 2 月 2 日的電郵。

謝謝。

如有什麼問題，就隨時聯絡我。

Ms Chong  
([REDACTED])

[REDACTED]

[REDACTED]

寄件者: Chong Hermose <[REDACTED]>  
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郵件標幟: 待處理  
標幟狀態: 已標幟

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大家好。

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謝謝。

如有什麼問題，就隨時聯絡我。

Ms Chong  
( [REDACTED] )

## **TEMPORARY DRAINAGE PROPOSAL (Final)**

APPLICATION SITE OF THE PROPOSED  
TEMPORARY PLACE OF RECREATION, SPORTS OR  
CULTURE (HOBBY FARM) FOR A PERIOD OF 3  
YEARS AND FILLING OF LAND AT LOT 1639 S.A  
(PART) IN D.D. 114, SHEK KONG, YUEN LONG,  
NEW TERRITORIES

s16 No. A/YL-SK/437

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# 1 Introduction

## 1.1 Background

- 1.1.1 This report presents the Drainage Proposal for supporting the Proposed Temporary Place of Recreation, Sports or Culture (Hobby Farm) for a Period of 3 Years and Filling of Land at Lot 1639 S.A (Part) in D.D. 114, Shek Kong, Yuen Long, New Territories. 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 Shek Kong, Yuen Long, with an area of around 1,080m<sup>2</sup> and ground level varying between + 46.2 mPD and + 46.9 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 Manual (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:

$$Q_p = 0.278 C i A$$

where	$Q_p$	=	Peak Runoff, m <sup>3</sup> /s
	C	=	Runoff Coefficient
	i	=	Rainfall Intensity, mm/hr
	A	=	Catchment Area, km <sup>2</sup>

- 3.2.2 The paved area and the grassland of the site will account for 1,080m<sup>2</sup>. For conservative, both 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 U-channel 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 application Site is located within the Shek Kong, Yuen Long with an area of around 1,080m<sup>2</sup> and ground level varying between + 46.9mPD and + 46.2mPD.
- 4.1.2 The application site with a projected area of 1,080 m<sup>2</sup> is considered as part of the catchment. In addition, external catchment of 78 m<sup>2</sup> were identified from the east-south direction of the application site as the application site is generally lower the adjacent land from the east-south direction.

### **4.2 Drainage Characteristics**

- 4.2.1 The characteristics of the sub-catchment areas are unchanged. This application does not propose adding any additional concrete area, the difference in surface runoff that can be attributed to this application is negligible.
- 4.2.2 For conservative, Runoff coefficient for paved / unpaved land is 1.

### 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 catchpit with trap (TCP), which is connected to the further downstream leading to the discharge point of the existing village drainage with 350mm U-Channel at the north direction of the application site, and eventually lead to the well-established village drainage.
- 4.3.4 The 350mm 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 village drainage. The design calculation of the proposed drainage is provided in **Appendix D**. The design calculation is summarized in Table 4-1.

**Table 4-1 Design calculation of the proposed drainage work**

DRAINAGE SYSTEM	ESTIMATED FLOW (M <sup>3</sup> /S)	CAPACITY (M <sup>3</sup> /S)	RESERVE CAPACITY
350mm UC	0.069	0.168	59%

Note:

[1] Rainfall increase due to climate change at the end of 21<sup>st</sup> century is considered according to stormwater drainage manual Table 28.

[2] The reserve capacity is calculated by assuming that the 350mm 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 350mm UC with the runoff anticipated to be 0.069m<sup>3</sup>/s, which is within the drainage capacity of the proposed 350mm u-channel of 0.168m<sup>3</sup>/s with gradient 1:100. Eventually lead to the well-established village drainage of 500mm UC with 23% reserve capacity.
- 4.3.6 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 m<sup>3</sup> 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

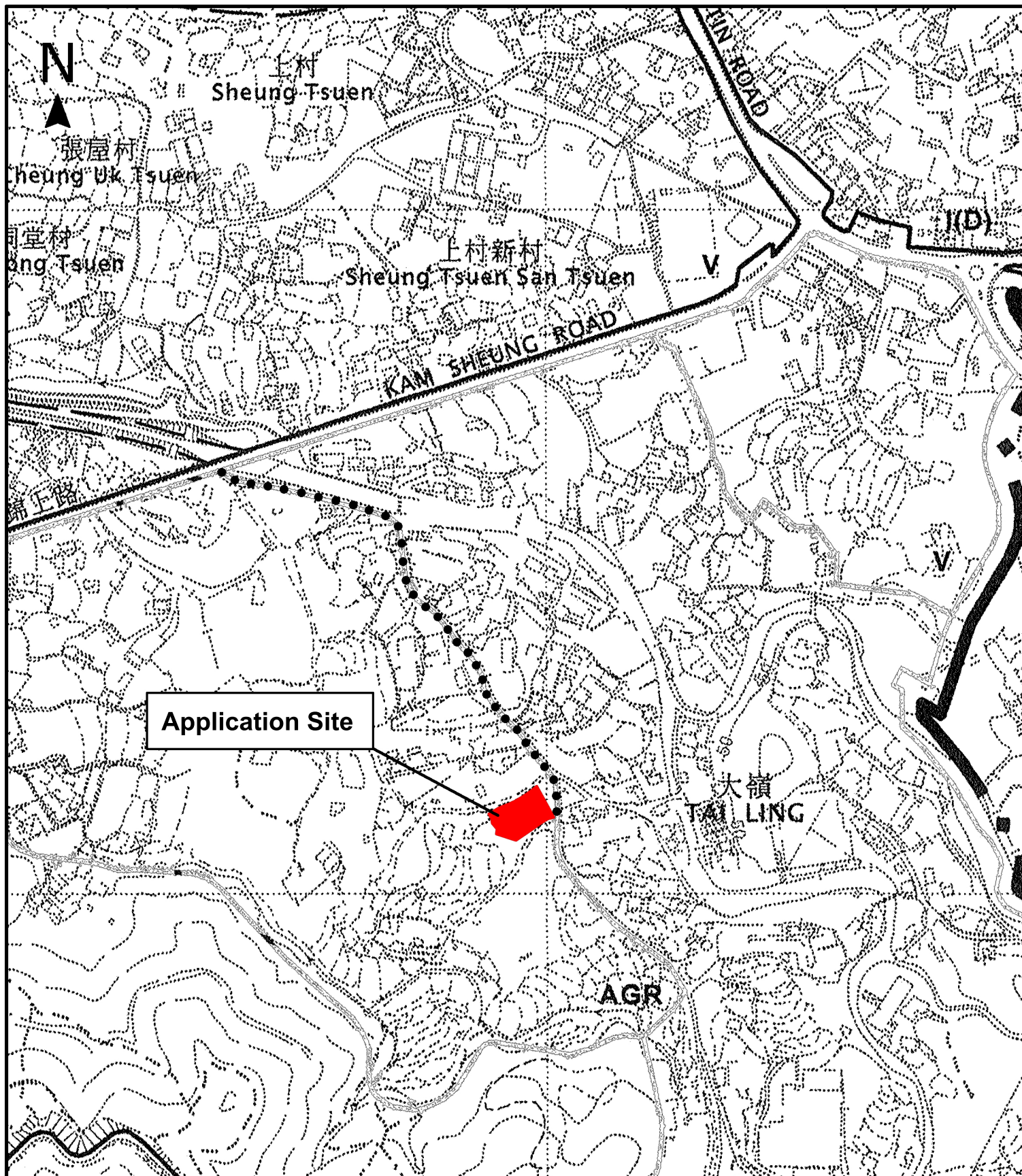
### 6.1 Conclusion

- 6.1.1 The analysed catchment area of 1158 m<sup>2</sup> consists of the site area of the proposed Application Site of 1080 m<sup>2</sup> and the adjacent external catchment area of 78 m<sup>2</sup>.
- 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**





Project 項目名稱:

Proposed Temporary Place of Recreation, Sports or Culture (Hobby Farm) and Land Filling for a Period of 3 Years at Lot 1639 S.A.(part) in D.D. 114, Shek Kong, Yuen Long

Drawing Title 圖紙標題:

Location Plan



Drawing No. 圖號:

20240111

Remarks 備註:

... Vehicular access leading from Kam Sheung Road

Scale 比例:

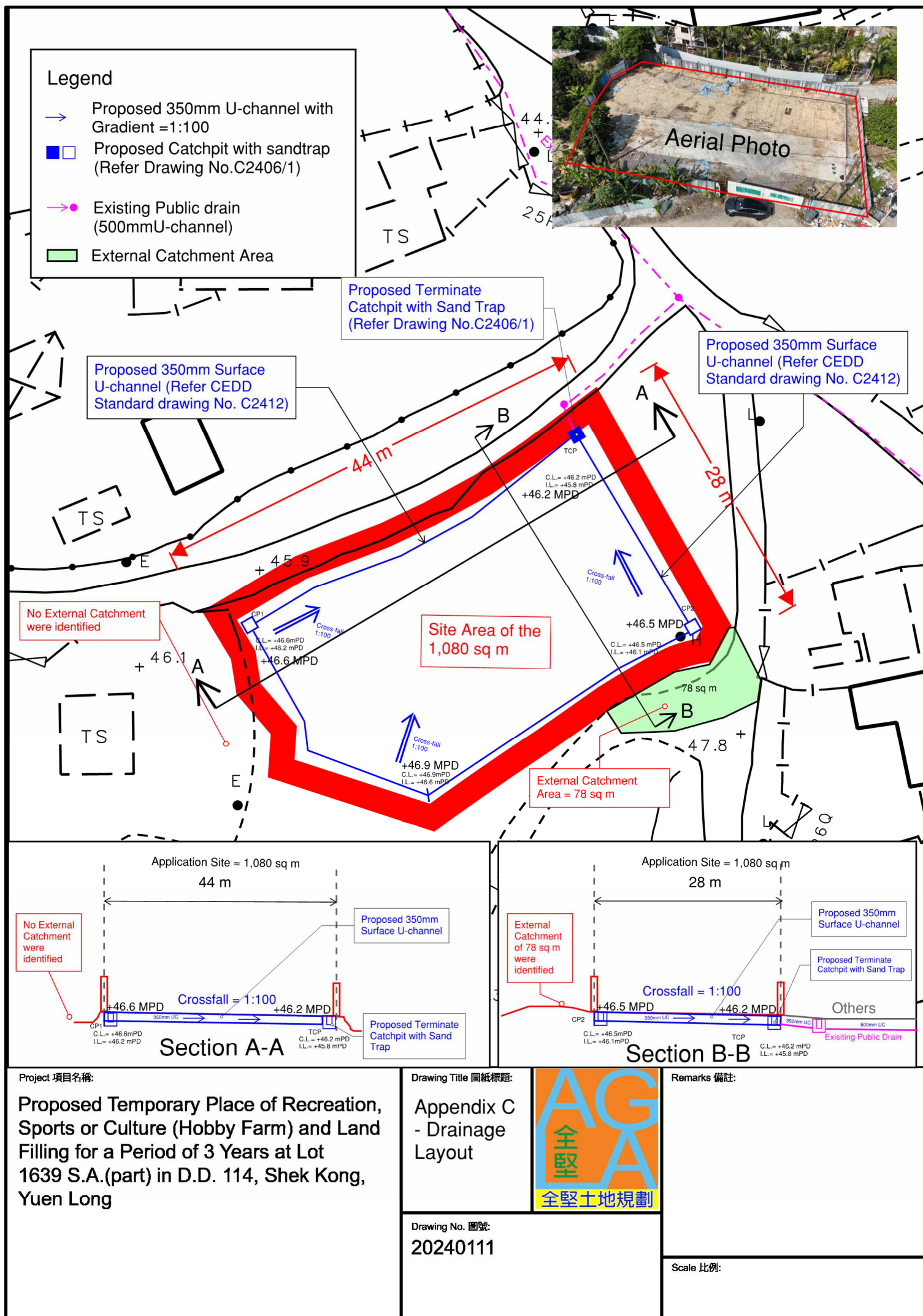
**APPENDIX B**  
**LAYOUT PLAN**





**APPENDIX C**  
**PROPOSED DRAINAGE PLAN**





































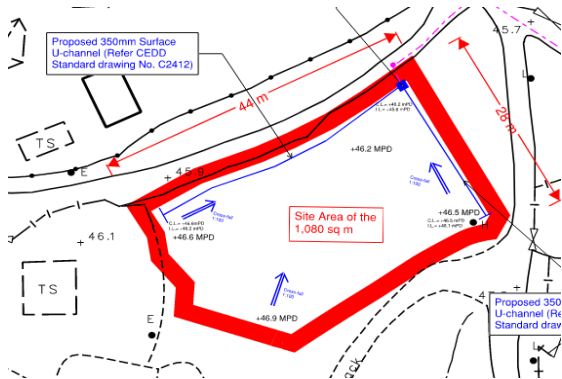
**APPENDIX D**  
**DESIGN CALCULATION OF THE PROPOSED DRAINAGE**

Design Data

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 coefficient n is 0.016.

Check for Hydraulic Capacity:

Catchment	K	Area (A)
Application Site Area	1.00	1080.0
External Catchment Area	1.00	78.0 m <sup>2</sup>
Total Catchment Area	1.00	1158.0 m <sup>2</sup>



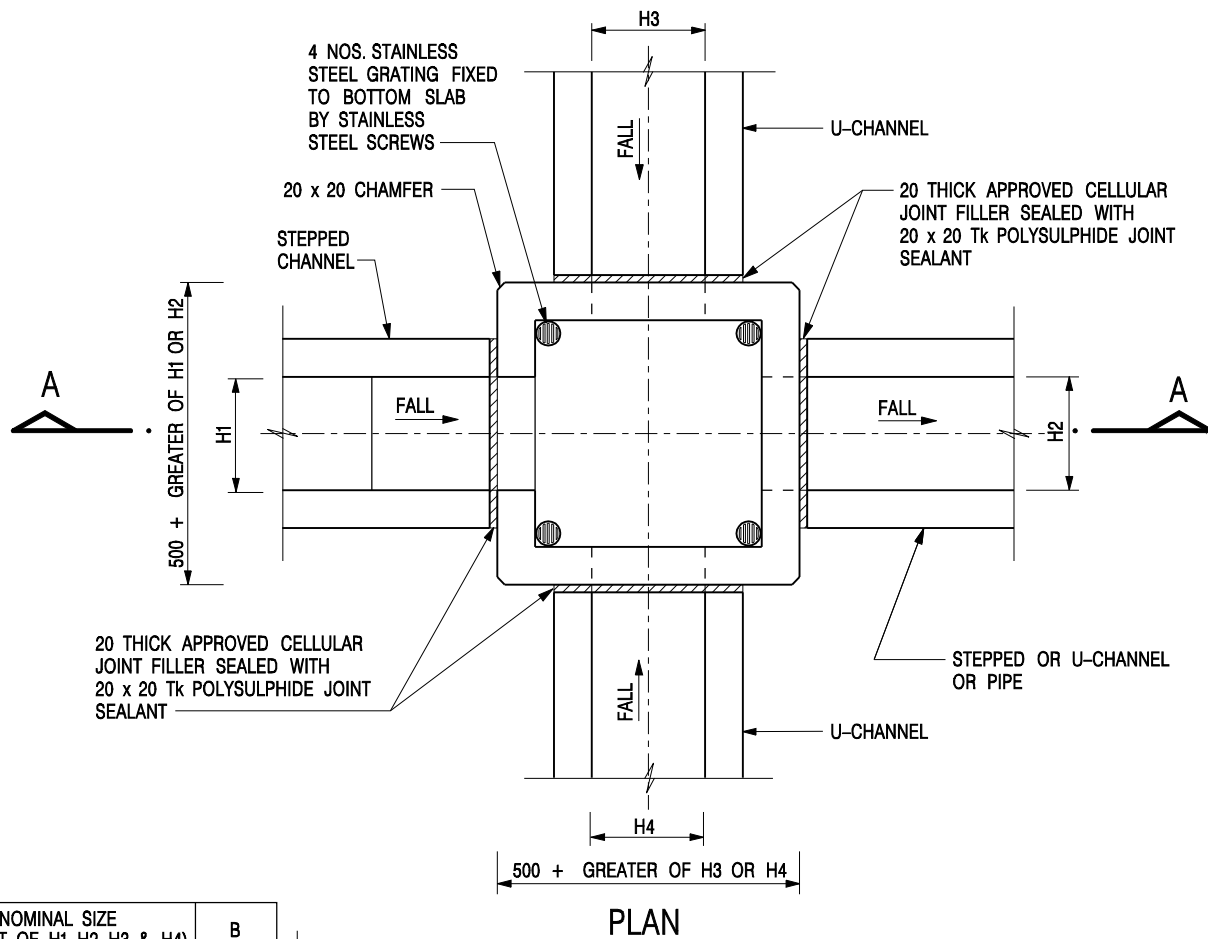
SDM 7.5.2	Runoff estimation	
	Average slope, H	= 1 /100m
	Catchment area, A	= 1158 m <sup>2</sup>
	Distance between summit and point under consideration, L	= 44 m
SDM 7.5.2	Time of concentration of natural catchment, t <sub>o</sub>	= 0.14465 x L / (H <sup>0.2</sup> x A <sup>0.1</sup> )
		= 3.14 min.
	Length of drain, L <sub>j</sub>	= 44 m
	Velocity, V <sub>j</sub>	= 1.533 m/s
SDM 7.5.2	Flow time, t <sub>f</sub>	= Σ (L <sub>j</sub> / V <sub>j</sub> )
		= 0.478209 min.
	Time of concentration, t <sub>c</sub>	= t <sub>o</sub> + t <sub>f</sub>
		= 3.62 min.
SDM Table 3	Storm constants for 50-year return period:	a = 451.3
		b = 2.46
		c = 0.337
		= a / (t <sub>d</sub> + b) <sup>c</sup>
SDM 4.3.2	Extreme mean intensity, i <sub>50yr</sub>	= 213.43782 mm/hr
		< 405.000 mm/hr
	GMS Fig 8.2	
	SDM 7.5.2	
SDM 7.5.2	Design flow, Q	= 0.278 i Σ K A
		= 0.069 m <sup>3</sup> /s
	350mm u-channel capacity	
	Diameter	= 350 mm
Manning's Eq.	Cross-sectional area of 350mm U-channel	= 0.1094 m <sup>2</sup>
	Gradient	= 0.01
	flow velocity	= 1.533 m/s
	Design Capacity	= 0.168 m <sup>3</sup> /s
		> 0.069 m <sup>3</sup> /s      OK
	Reserve capacity	= 59%
	For conservative, all the U-channel shall be 350mm.	

Catchment	K	Area (A)
Total Upstream Catchment Area	1.00	4870.0 m <sup>2</sup>

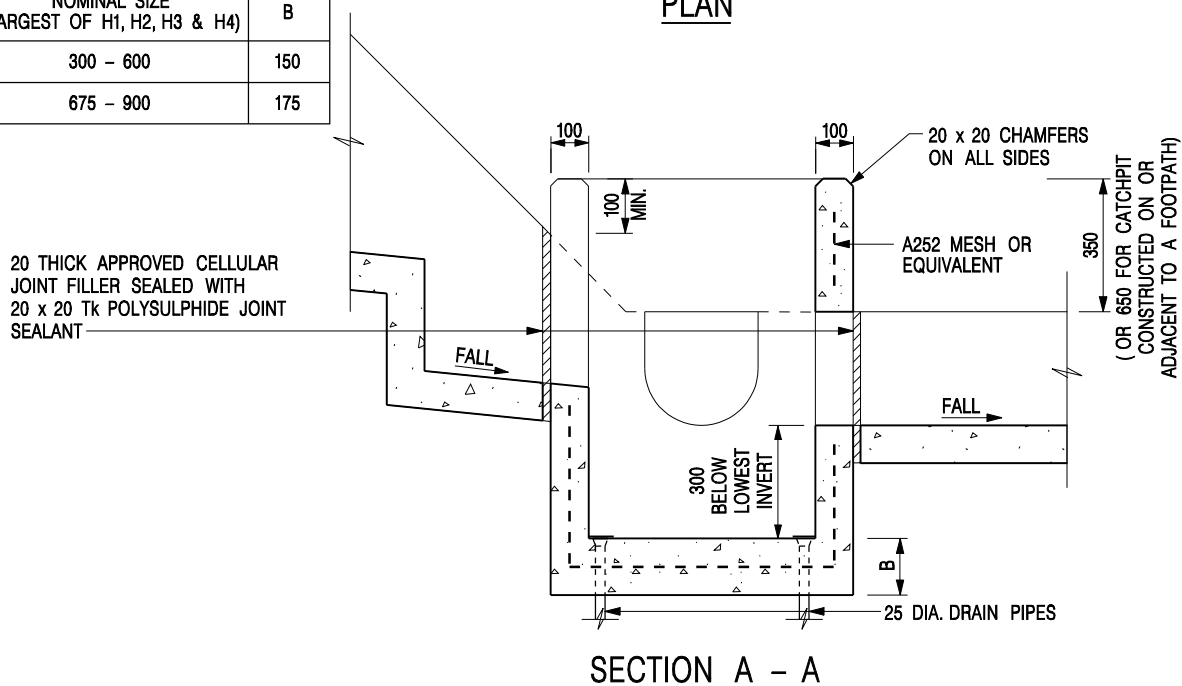
Manning's Eq.	500mm u-channel capacity (Pubic drain)	
	Diameter	= 500 mm
	Cross-sectional area of pipe	= 0.2232
	Gradient	= 0.010
	Restricted flow velocity under sedimentation	= 2.075 m/s
	Design Capacity	= 0.463 m <sup>3</sup> /s
	Flow from the upstream, Q	> 0.289
	Flow from the application Site, Q	> 0.069 m <sup>3</sup> /s
	Reserve Capacity	= 23%      OK

**APPENDIX E**

**TYPICAL STANDARD DRAWINGS OF U-CHANNEL AND CATCHPIT  
(EXTRACTED FROM CEDD, FOR REFERENCE ONLY)**



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**

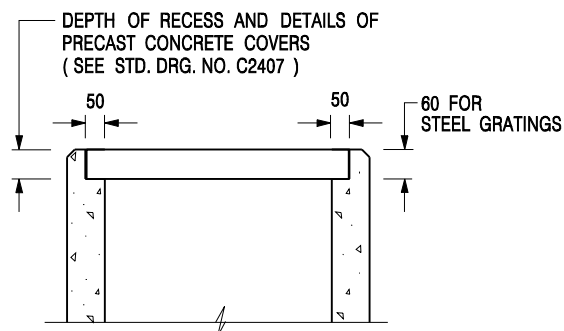
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**DATE** JAN 1991

**DRAWING NO.**

**C2406 /1**





### 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
<b>REF.</b>	<b>REVISION</b>	<b>SIGNATURE</b>	<b>DATE</b>

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



**CIVIL ENGINEERING AND  
DEVELOPMENT DEPARTMENT**

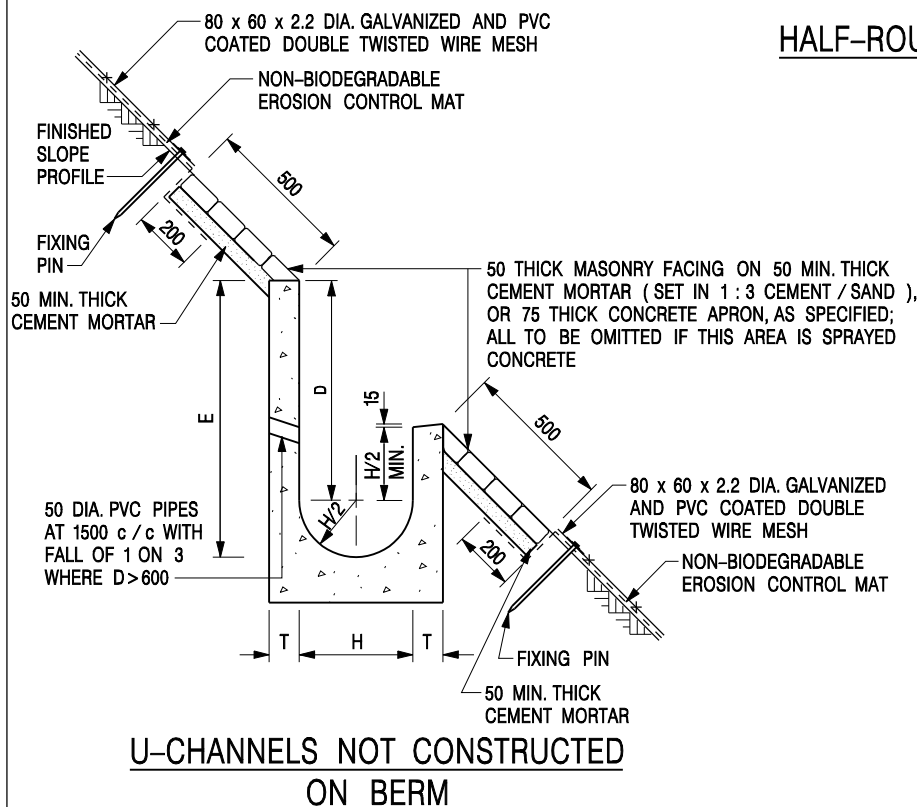
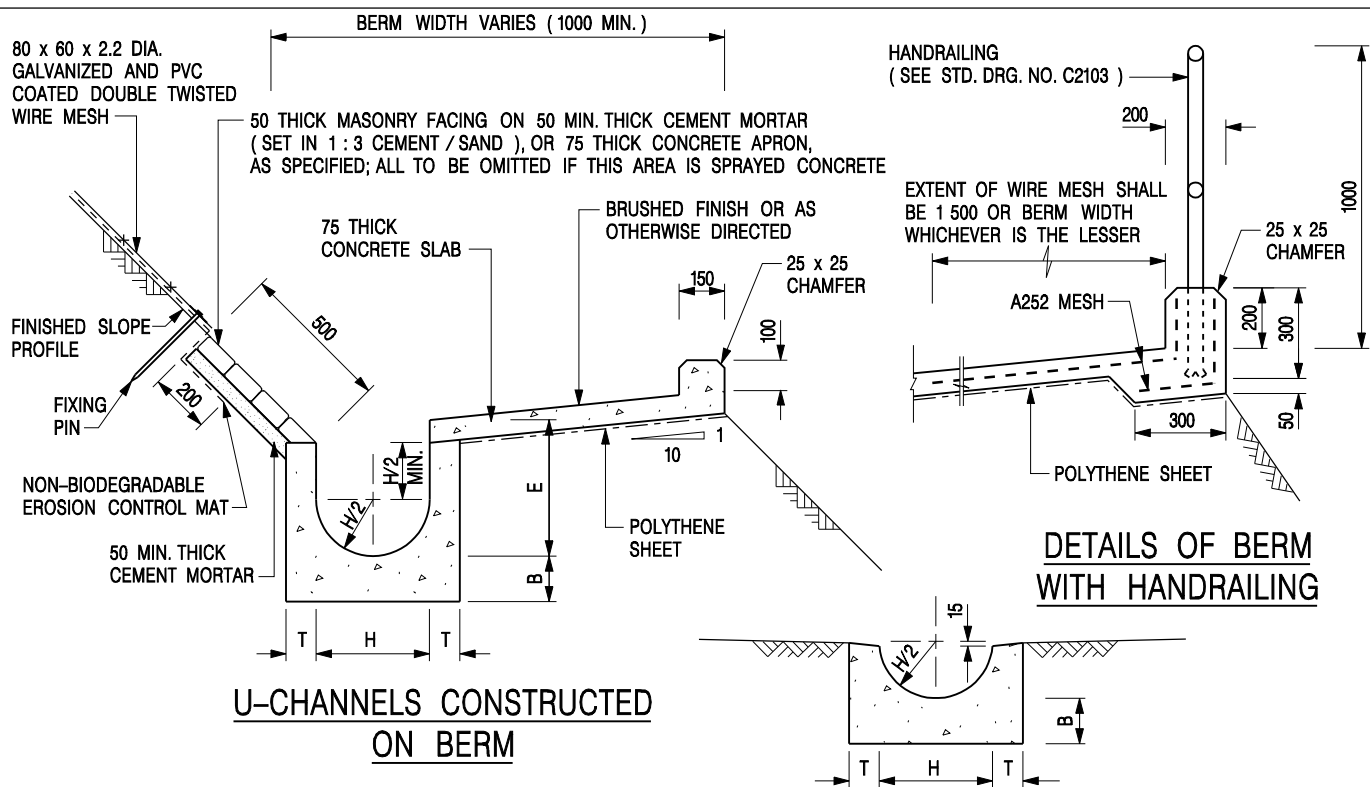
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**DATE** JAN 1991

**DRAWING NO.**

**C2406 /2A**





#### 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/E.
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/E)

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	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
REF.	REVISION	SIGNATURE	DATE

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

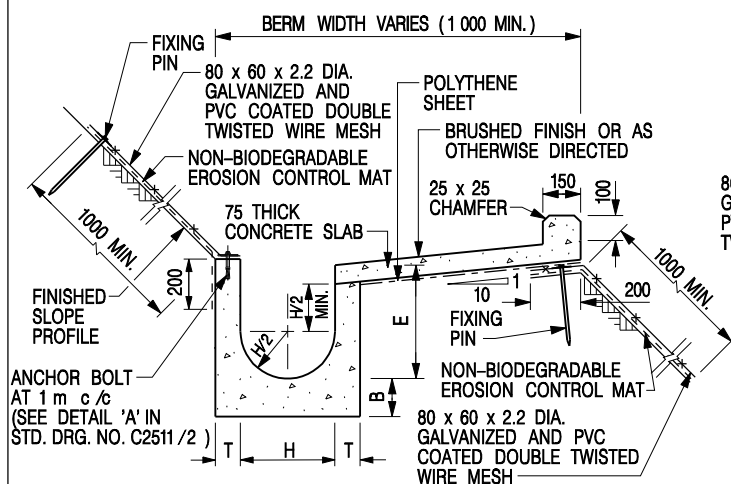


CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

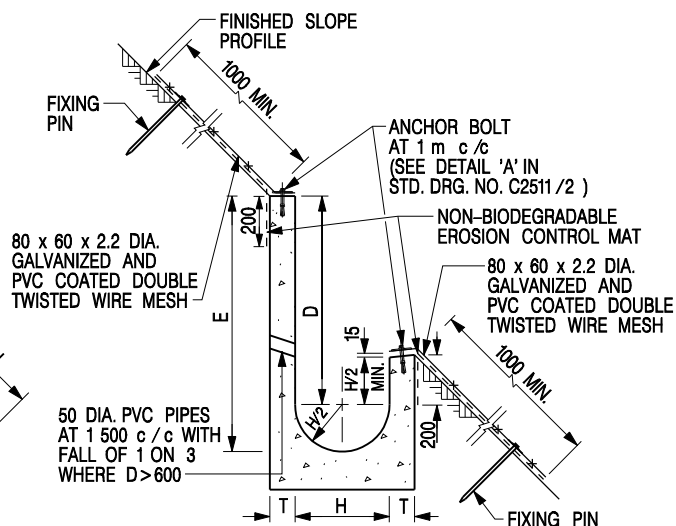
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DATE JAN 1991

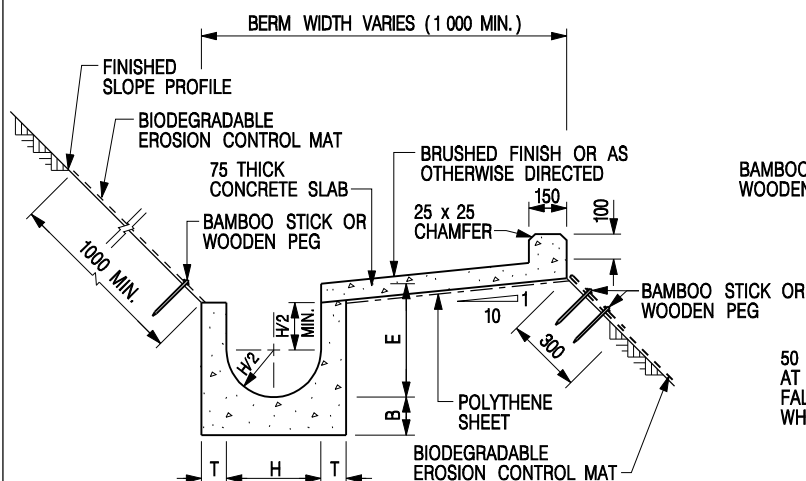
DRAWING NO. C2409I



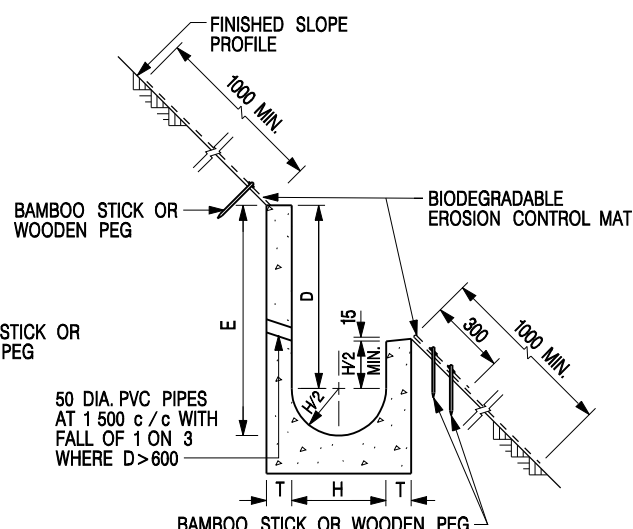
**U-CHANNELS CONSTRUCTED ON BERM  
WITH NON-BIODEGRADABLE  
EROSION CONTROL MAT**



**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)**



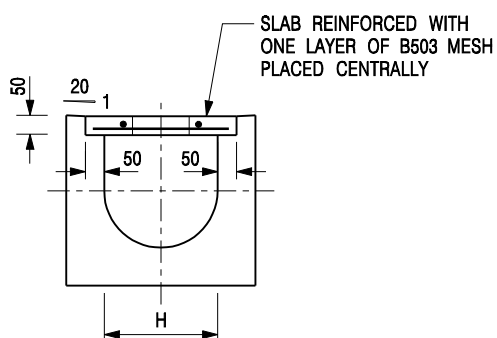
**CIVIL ENGINEERING AND  
DEVELOPMENT DEPARTMENT**

**SCALE** DIAGRAMMATIC

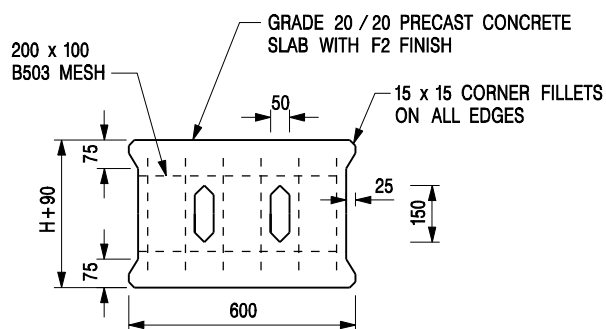
**DRAWING NO.**

**DATE** JAN 1991

**C24101**



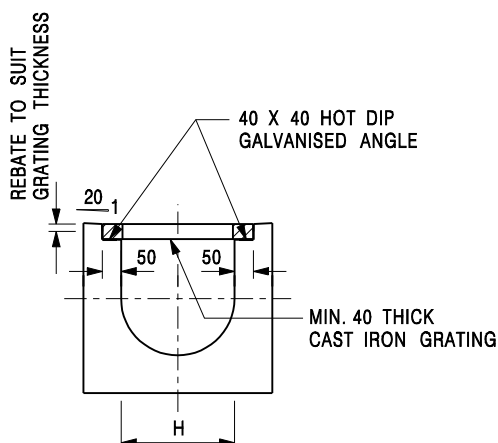
TYPICAL SECTION



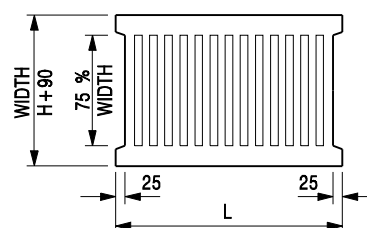
PLAN OF SLAB

### 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

**DRAWING NO.**  
**C2412E**