TEMPORARY DRAINAGE PROPOSAL

APPLICATION SITE OF PROPOSED TEMPORARY PLACE FOR RECREATION, SPORTS OR CULTURE (HOBY FARM) FOR A PERIOD OF 3 YEARS AT LOTS 914, 915, 916 (PART) AND 917 (PART) in D.D. 122, PING SHAN, YUEN LONG, NEW TERRITORIES

Application No.: A/YL-PS/765

10 November 2025

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2 Introduction

2.1 Background

This report presents the drainage proposal for supporting the proposed temporary place for recreation, sports or culture (hobby farm) for a period of 3 years at Lots 914, 915, 916 (part), 917 (part) in D.D. 122, Ping Shan, Yuen Long, New Territories.

2.2 Objectives of the Report

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

2.3 Report Structure

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.

3 Development Proposal

3.1 Location of the Application Site

The application Site is located within the Ping Shan, Yuen Long, with an area of around 2780m² and ground level varying between + 14.0mPD and + 12.0mPD. The layout plan is provided in **Appendix B**.

This application site is "Green Belt" zoning, the type of application is the Temporary Use/Development in Rural Areas for a Period of 3 Years.

There is a existing catchpit within the application site, the location and site photos of the existing catchpit are provided in **Appendix C**.

4 Assessment Criteria

4.1 Design Return Periods

The drainage system in the Application site is to collect surface flows and convey to the existing catchpit

TEMPORARY DRAINAGE PROPOSAL

and finally 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 4-1 below:

DESCRIPTION	DESIGN RETURN PERIODS
Intensively Used Agricultural Land	2 – 5 Years
Village Drainage including internal Drainage	10 Years
System under a polder Scheme	
Main Rural Catchment Drainage Channels	50 Years
Urban Drainage Trunk System	200 Years
Urban Drainage Branch System	50 Years

Table 4-1 Recommended Design Return Periods based on Flood Levels

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.

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."

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.

The 50 years design return period will be considered to ensure adequacy of the stormwater drainage system.

4.2 Calculation Methodology for Runoff

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 $Q_p = Peak Runoff, m^3/s$

C = Runoff Coefficient

i = Rainfall Intensity, mm/hr

A = Catchment Area, km²

The paved area of the site will account for 5240m2. For conservative, the runoff coefficient of 0.9 is assumed, such that the all the run-off would be collected from the catchment area without any infiltration as the critical scenario.

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

4.3 Calculation Methodology for Pipe Capacity Checking

Due to the catchment areas are less than 1ha, U-channels are recommended to be constructed to collect the stormwater runoff of the open area within the site. For the catchment area within the roofing of the one-story warehouse, stormwater would be collected by the gutter, and then be diverted to U-channel system at ground level via downpipe. The collected stormwater should finally be diverted to the downstream via the proposed U-channel system.

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.

Manning's Equation for calculating the channel and pipe capacities is adopted.

5 Potential Drainage Impact

5.1 Existing Site Condition

The application Site is located within the Ping Shan, Yuen Long with an area of around 2780m² and ground level varying between + 14.0mPD and + 12.0mPD.

5.2 Changes in Drainage Characteristics

Since the existing ground level of application site is generally higher than the adjacent ground surface. No external catchment shall be considered in the calculation. And the hoarding of adjacent site control the runoff within application site won't convey to adjacent site, prevent extra runoff affecting adjacent site.

The change in sub-catchment is summarized in Table 5-1.	The change in	sub-catchment is	summarized in	Table 5-1.
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	Before	After
Grassland (m²)	0	0
Paved Area (m²)	2780	2780
External Catchment Area(m²)	0	0
Total Catchment Area (m²)	2780	2780

Table 5-1 Change in sub-catchment within the site

5.3 Potential Drainage Impact

The details of the proposed drainage works are illustrated in Appendix C.

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 stormwater runoff to the terminate catchpit with sand trap (TCP) within the site.

The runoff within application site separated to three catchment area, catchment area CA1 approximate 330m², collected by a 225mm U-channel, runoff would then be conveyed to 375mm U-channel of catchment area CA2. Catchment area CA2 approximate 2460m² is collected by one 375mm U-channel along the lower-level boundary, runoff would then be conveyed to 450mm U-channel of catchment area CA3. Catchment area CA3 approximate 1210m² is collected by one 450mm U-channel along the lower-level boundary, runoff would then be conveyed to the existing terminate catchpit with sand trap (TCP)within the application site, before discharging to the existing village Nullah at the East-South direction of the application site, and eventually discharge to the further downstream as indicated in the **Appendix C**.

The U-channels receive stormwater from the surface. For Conservative, the critical scenario is considered for collecting all the flow leading to the 450mm U-channel. The design calculation of the proposed drainage is provided in **Appendix D**. The design calculation is summarized in Table 4-2.

Drainage System	Estimated Flow	Capacity	Reserve Capacity
	(L/min)	(L/min)	
225mm u-channel	1796	4200	57%
375 mm u-channel	8392	18000	53%

450mm u-channel	14856	20000	25%
-----------------	-------	-------	-----

Table 4-2 Design calculation of the proposed drainage work

- 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 U-channel reach its full capacity.

The design runoff arise from the proposed Application Site is to be discharged into the proposed existing terminate catchpit with the runoff anticipated to be 14856L/min, which is within the drainage capacity of the proposed 450mm u-channel of 20000L/min, the reserve capacity is 25%.

It is considered that the drainage discharge from the Application Site will not cause adverse impact to the entire downstream drainage system.

All u-channels & catch pits will be constructed according to the CEDD's standard drawings, please refer to the **Appendix E**.

6 Construction Stage

6.1 Temporary Drainage Arrangements

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:

- (i) Erosion of ground materials;
- (ii) Sediment transportation to existing downstream drainage system; and
- (iii) Obstruction to drainage systems.

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.

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.

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.

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.

Liaison will be carried out with relevant parties regarding temporary drainage arrangements to ensure that the drainage system is functioning adequately.

7 Conclusions

7.1 Conclusions

The analyzed catchment area of 2780m² consists of the site area of the proposed Application Site only and no external catchment area had been identified.

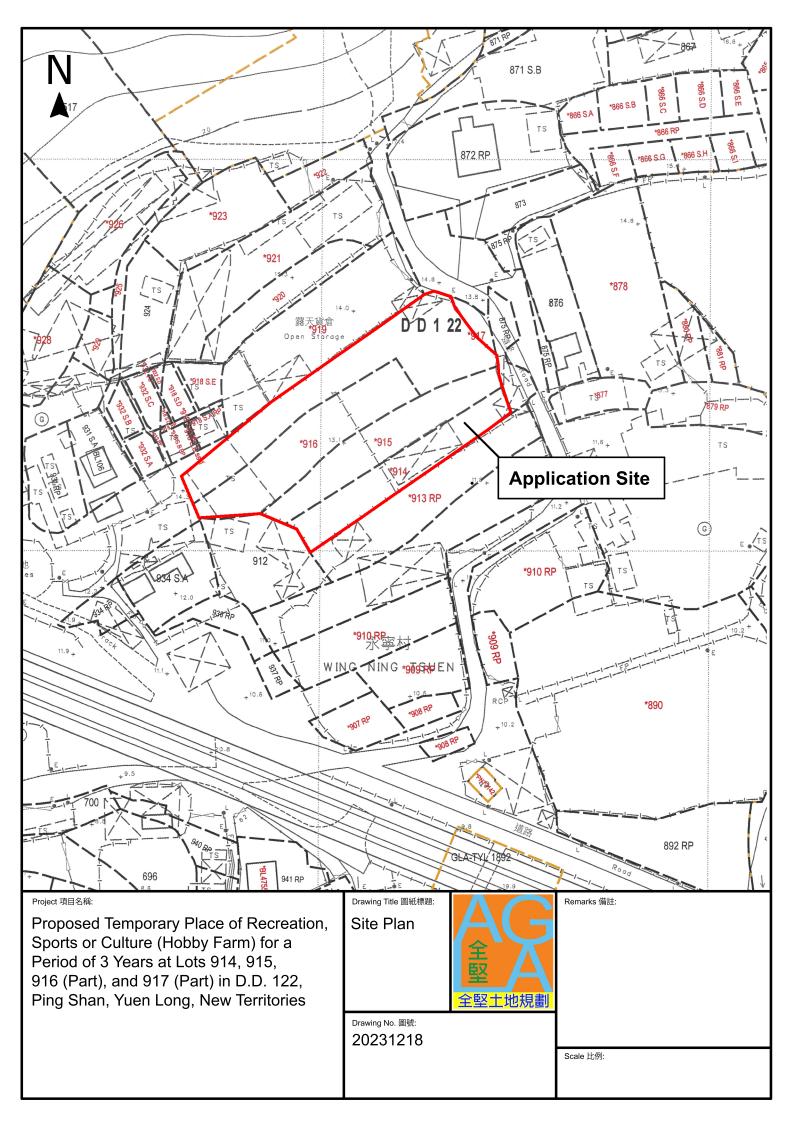
U-channels are proposed to convey runoff from the application site for collection. The proposed U-channels are located along the lower-level boundary which is subject to change to suit the building layout.

The assessment reviews the drainage pipe have the sufficient capacity to cater for the drainage flow from the Application Site.

Mitigation measures are proposed during the construction period and to ensure that the existing drainage system within the site will not be affected during the construction stage.

APPENDIX A

SITE LAYOUT PLAN



APPENDIX B

LAYOUT PLAN



Storage

Structure 6 (Existing)

Site office

GFA: 35m (About) No. of storey: 1

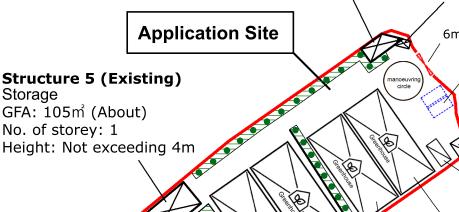
Height: Not exceeding 3m

Structure 7 (Existing)

Security and surveillance

camera room GFA: 10m (About) No. of storey: 1

Height: Not exceeding 3m



armland

6m Ingress/Egress

2 private car parking spaces

Structure 8 (Existing)

Meter room

GFA: 10m (About) No. of storey: 1

Height: Not exceeding 3m

1 Loading/unloading bay

of 7m x 3.5m for light goods vehicle

Structure 1

Greenhouse

GFA: About 300m²

Height: Not exceeding 5m

Structure 2 No. of storey: 1

Greenhouse

GFA: About 300m²

Height: Not exceeding 5m

No. of storey: 1

Structure 3 Greenhouse

GFA: About 400m²

Height: Not exceeding 5m

No. of storey: 1

Project 項目名稱:

Proposed Temporary Place of Recreation, Sports or Culture (Hobby Farm) for a Period of 3 Years at Lots 914, 915, 916 (Part), and 917 (Part) in D.D. 122, Ping Shan, Yuen Long, New Territories

Structure 4

Greenhouse

GFA: About 400m²

No. of storey: 1

Height: Not exceeding 5m

Drawing Title 圖紙標題:

Layout Plan



Remarks 備註:

Light goods vehicle

Structure

Private Car Parking

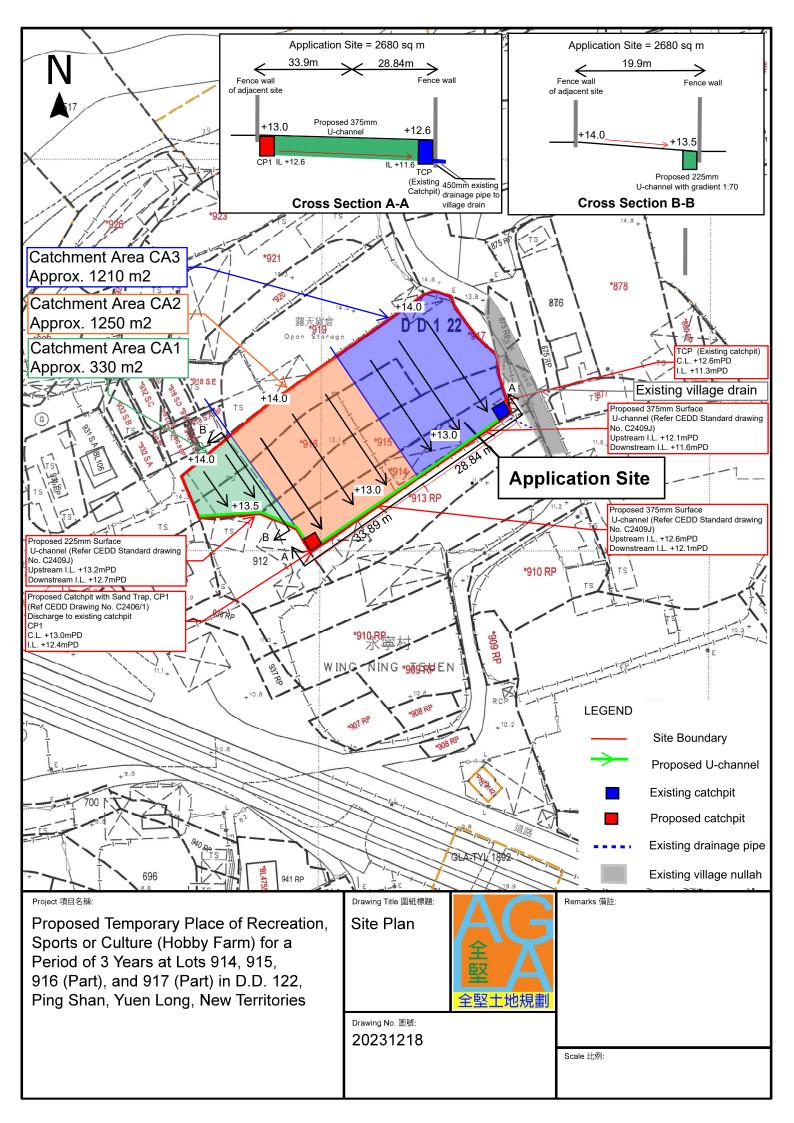
Existing Tree

Farmland Area

Drawing No. 圖號: 20231218

APPENDIX C

PROPOSED DRAINAGE PLAN



TEMPORARY	DRAINAGE	PROPOSAL

APPENDIX D

DESIGN CALCULATION OF THE PROPOSED DRAINAGE SYSTEM

Check of Surface Drainage System

PROJECT: APPLICATION SITE OF PROPOSED TEMPORARY SHOP AND SERVICES

FOR A PERIOD OF 3 YEARS AT TAI CHUNG HAU RAOD TRACK, SAI KUNG

JOB NO: ALPL/TDM/004

TITLE: Temporary Drainage Design Calculation

Revision: 0
Date: 24-Feb-25

Prepare Bv: JW

DETERMINE THE CATCHMENT OF AREA

CA1 = 328 (m²) CA2 = 1248 (m²) CA3 = 1214 (m²)

DETERMINE THE INLET TIME

Section	$A = \text{Catchment of Area} \atop (m^2) \qquad \begin{array}{c} \text{Level of} \\ \text{remote point} \\ (mPD) \end{array} \qquad \begin{array}{c} \text{Level of} \\ \text{inlet point} \\ (mPD) \end{array}$		L (m)	H (m/100m)	t _e = Time of Natural flow (min)		
1	CA1	328	14	13.5	19.9	2.51	1.34
2	CA2	1248	14	13	37.5	2.67	2.19
3	CA3	1214	14	13	37.5	2.67	2.19

Ref.: Brandsby Williams Equation

Note: $t_e = \frac{0.14465.L}{H^{0.2}.A^{0.1}}$

H = average slope (m per 100m), measured along the line of natural flow, from the summit of the catchment

to the point under consideration

L = distance (on plan) measured on the line of natural flow between the summit and the point under consideration (m).

DETERMINE THE SIZE OF STEPPED / U-CHANNEL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Section No.	Ldr (m)	Lh (m)	L(m)	Gradient (1 in)	Site area	others area (m ²)	Total area (m ²)	A (m ²)	channel size	Capacity (l/min)	Assumed Flow	t _f (min)	t _e (min)	t _c (min)	I (mm/hr)	Runoff (l/min)	Remark	
1	0.50	32.50	32.50	65.00	328.00	0.00	328.00	328.00	225	4200	1.90	0.29	1.34	1.63	365.00	1795.8	0.K.	CAPACITY > RUNOFF
2	0.50	33.90	33.90	67.80	1248.00	328.00	1576.00	1576.00	375	18000	2.75	0.21	2.19	2.39	355.00	8392.2	0.K.	CAPACITY > RUNOFF
3	0.50	28.84	28.84	57.68	1214 00	1576.00	2790.00	2790.00	375	20000	3.00	0.16	2.19	2.35	355.00	14856.8	O.K.	CAPACITY > RUNOFF

 APACITY > RUNOFF
 [Use new PACITY > RUNOFF
 225 U. so it is O.K.]

 APACITY > RUNOFF
 [Use new PACITY > RUNOFF
 375 U. so it is O.K.]

Note: Ldr = Different level between U-channel section

Gradient = 1 in (Lh/Ldr)
Total area = Site area + others area
A=Cumulative area = Total area + others section area

Capacity = Refer to the extracted Figure 8.7 - Chart for the Rapid Design of Channels (Geotechnical Manual for Slopes P.253)
Assumed flow velocity = Assumed velocity of runoff

Actual Flow velocity = Refer to the extracted Figure 8.7 - Chart for the Rapid Design of Channels (Geotechnical Manual for Slopes P.253) $t_t = L$ Sourced flow velocity

t_e = inlet time (time taken for flow from the remotest point to reach

the most upstream point of the urban drainage system)

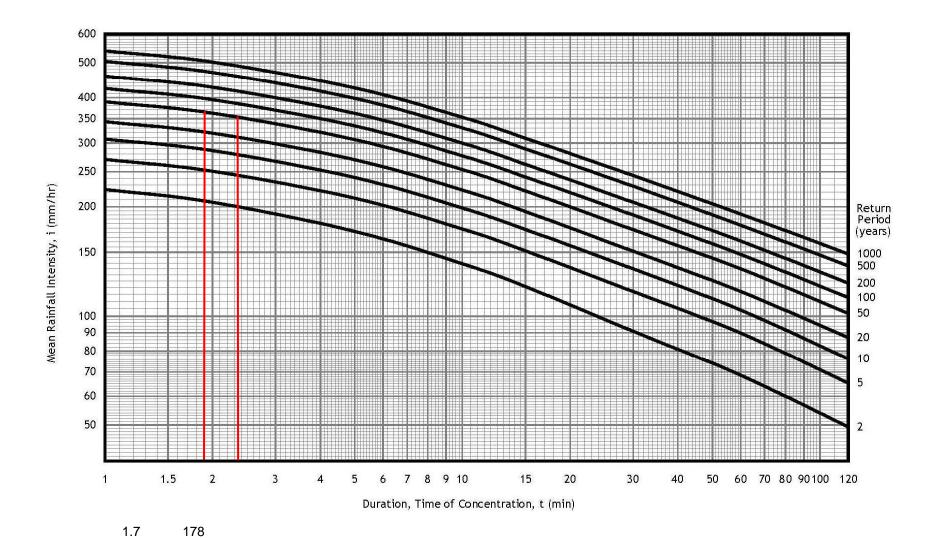
for Various Return Periods (Geotechnical Manual for Slopes P.248)

K = Runoff coefficient = 0.9 refer to Character of Surface (refer DSD(2013))

Runoff = K.I.A./3600 (1/s) = K.I.A./60 (1/mi UC U-channel

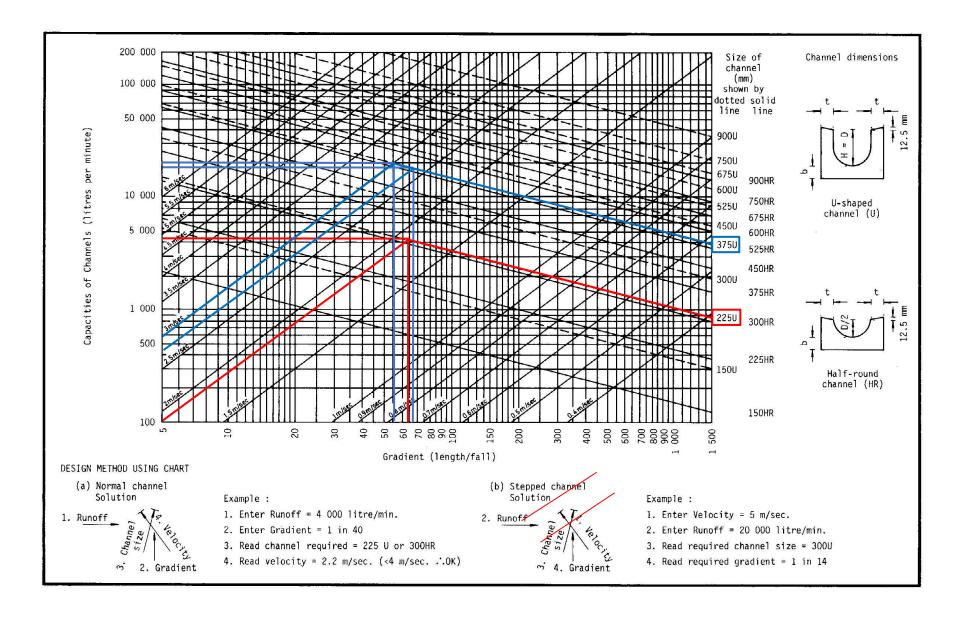
SC Stepped channel

For section no. 1.00 , Actual Flow Velocity = 1.70 m/s < 4m/s, O.K.
For section no. 2.00 , Actual Flow Velocity = 2.75 m/s < 4m/s, O.K.
Actual Flow Velocity = 2.75 m/s < 4m/s, O.K.



1.5

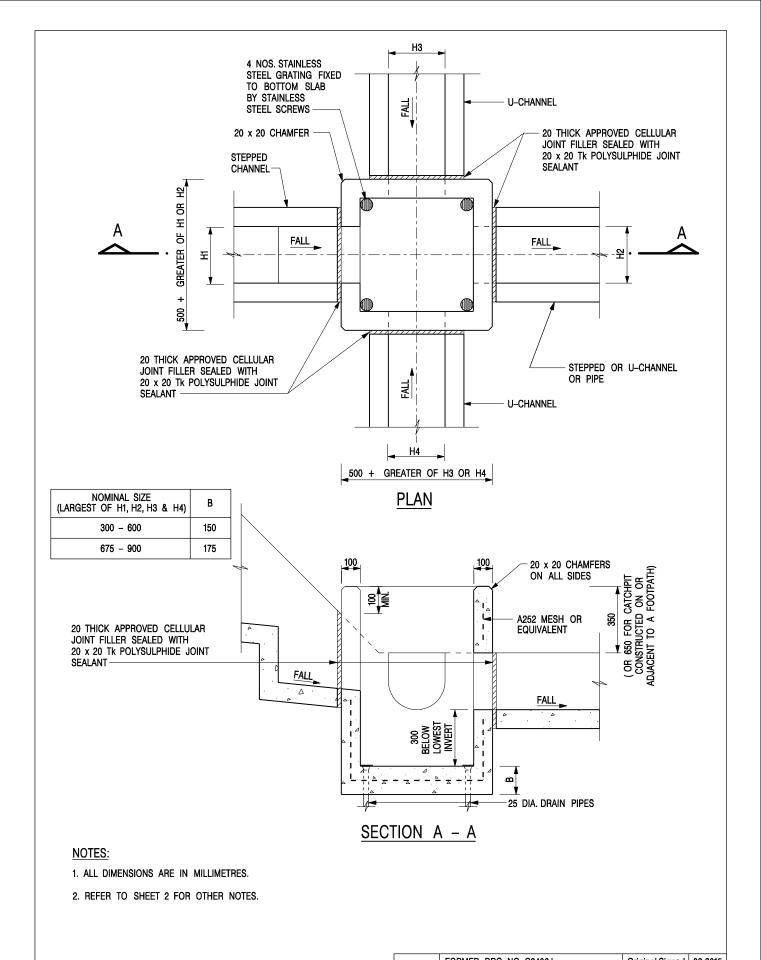
163

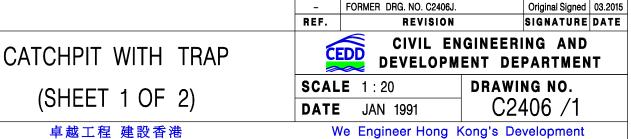


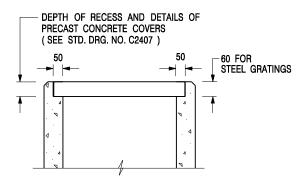
		OPOSAL

APPENDIX E

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







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

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

CATCHPIT WITH TRAP (SHEET 2 OF 2)

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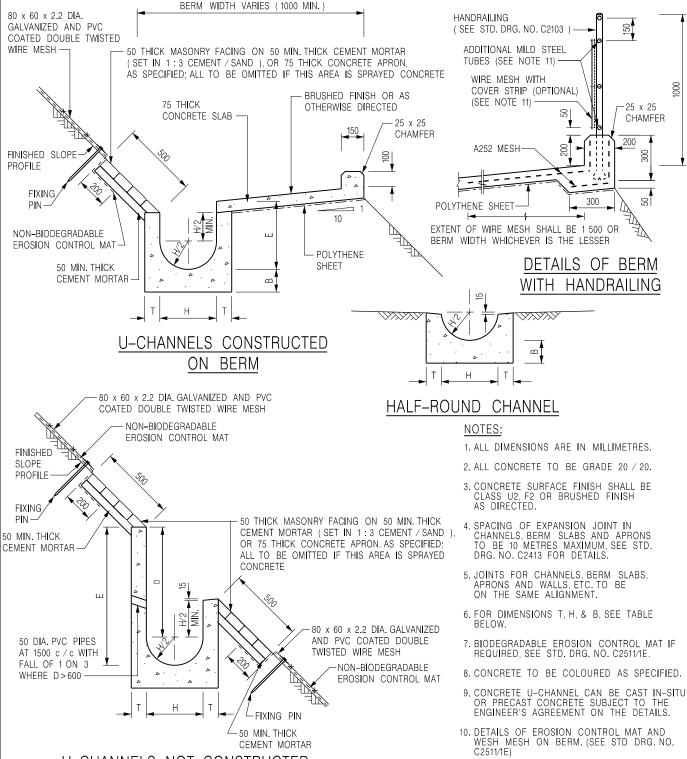


CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1:20 **DATE** JAN 1991

DRAWING NO. C2406 /2A

We Engineer Hong Kong's Development



U-CHANNELS NOT CONSTRUCTED ON BERM

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 HANDRAILING AMENDED. Original Signed | 08.2024 MINOR AMENDMENT Original Signed | 07.2018 THICKNESS OF MASONRY Н Original Signed 01.2005 FACING AMENDED MINOR AMENDMENT Original Signed 01.2004 G GENERAL REVISION. Original Signed | 12.2002 F REVISION SIGNATURE DATE REF

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

卓越工程 建設香港



CIVIL ENGINEERING AND **DEVELOPMENT DEPARTMENT**

11. THE WIRE MESH ON HANDRAILING IS OPTIONAL THE COVER STRIP AND ADDITIONAL MILD STEEL TUBES ARE NEEDED ONLY IF WIRE MESH IS PROVIDED. (SEE STD. DRG. NO.

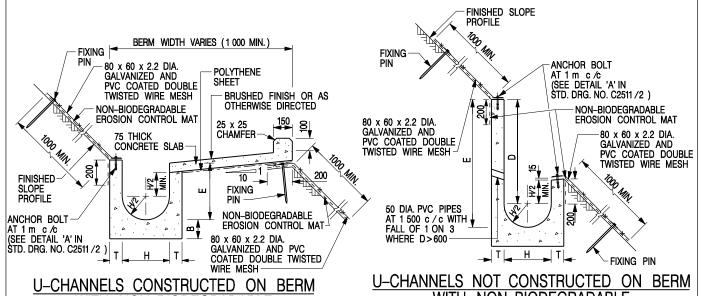
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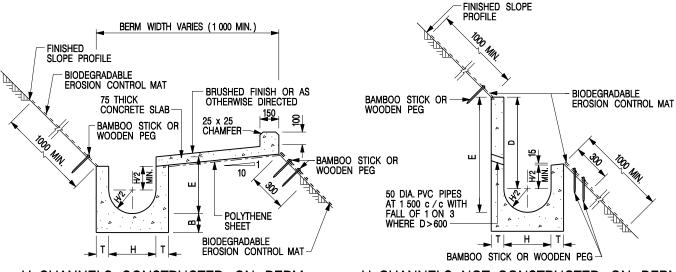
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DRAWING NO. SCALE 1:25 C2409J DATE JAN 1991

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U-CHANNELS CONSTRUCTED ON BERM WITH NON-BIODEGRADABLE EROSION CONTROL MAT <u>U-CHANNELS NOT CONSTRUCTED ON BERM WITH NON-BIODEGRADABLE EROSION CONTROL MAT</u>



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 H	IALF-I	ROUN	D.	AND
U-CHAN	NELS	(TYP	ЕВ-	- W	/ITH
EROSION	CON	TROL	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

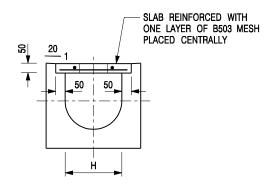
SCALE DIAGRAMMATIC

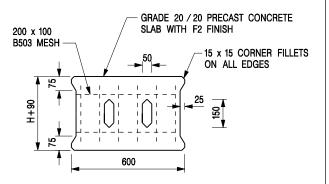
DATE JAN 1991

DRAWING NO. C24101

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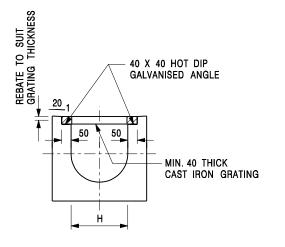


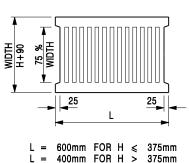
TYPICAL SECTION

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

CEDD
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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

 SCALE 1:20
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 DATE JAN 1991
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