寄件者: Louis Tse <[redacted]>
寄件日期: 2026年06月29日星期一 11:01
收件者: tpbpd/PLAND
副本: Andrea Wing Yin YAN/PLAND; Ivan Sze Yuet FUNG/PLAND; Bon Tang; Matthew Ng; Christian Chim; Danny Ng; Grace Wong
主旨: [SI] S.16 Application No. A/YL-KTN/1247 - Supplementary Information
附件: SI for A_YL-KTN_1247 (20260629).pdf

類別: Internet Email

Dear Sir,

Attached herewith the supplementary information to support the subject application.

Should you require more information, please do not hesitate to contact me. Thank you for your kind attention.

Kind Regards,

Louis TSE | Town Planner
R-riches Group (HK) Limited

R-riches Property Consultants Limited | R-riches Planning Limited | R-riches Construction Limited
[redacted]

R-RICHES PLANNING LIMITED

盈卓規劃有限公司

Our Ref. : DD104 Lot 4122 & VL
Your Ref. : TPB/A/YL-KTN/1247

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

By Email

29 June 2026

Dear Sir,

Supplementary Information

Temporary Shop and Services and Eating Place with Ancillary Facilities for a Period of 3 Years in "Other Specified Uses" annotated "Railway Reserve" Zone, Various Lots in D.D. 104 and Adjoining Government Land, San Tam Road, Yuen Long

(S.16 Planning Application No. A/YL-KTN/1247)

We are writing to submit supplementary information for the subject application, details are as follows:

- The applicant provides a drainage proposal and the as-built drainage plan to support the current application. (**Annex I**).

- Structures B1, B2 & B4 are provided for operating the shop and services (including but not limited to fast food shops, etc.). The proposed fast food shop would only provide ready-to-eat food for off-site consumption; no dining area will be provided within the fast food shop.

[redacted]

Should you require more information regarding the application, please contact our Mr. Danny NG at [redacted] or the undersigned at your convenience. Thank you for your kind attention.

Yours faithfully,

For and on behalf of
R-riches Planning Limited

Louis TSE
Town Planner

cc DPO/FSYLE, PlanD (Attn.: Ms. Andrea YAN email: awyyan@pland.gov.hk)
(Attn.: Mr. Ivan FUNG email: isyfung@pland.gov.hk)

Annex I

TEMPORARY SHOP AND SERVICES AND EATING PLACE WITH ANCILLARY FACILITIES FOR A PERIOD OF 3 YEARS, VARIOUS LOTS IN D.D. 104 AND ADJOINING GOVERNMENT LAND, SAN TAM ROAD, KAM TIN, YUEN LONG, NEW TERRITORIES

Drainage Proposal

Feb 2026

MARVELLOUS
CONSTRUCTION & DESIGN COMPANY LIMITED

Table of Contents

List of Table

List of Figure

List of Appendix

1 Introduction

1.1 Background

1.1.1 The applicant seeks planning permission from the Town Planning Board (the Board) to use Various Lots in D.D. 104 and Adjoining Government Land (GL), San Tam Road, Kam Tin, Yuen Long (the Site) for 'Temporary Shop and Services (Financial Institution) and Eating Place with Ancillary Facilities for a Period of 3 Years'.

1.1.2 This report aims to support the development in drainage aspect.

1.2 Application Site

1.2.1 The application site is situated beside of San Tin Highway. It has an area of approx. 1,483 m^2. The site location is shown in **Figure 1**.

1.2.2 The existing site was already fully paved. The applicant would like to continue operating the shop and services (financial institution) and eating place business to serve nearby residents and workers.

1.2.3 The site is currently served by existing UC 225 channels 1 in 100 gradient.

1.2.4 The existing site levels are various from +7.5 mPD to + 8.8 mPD. There is no major site formation for the development is anticipated.

1.2.5 There is an 4m existing channel beside the site in the north-west. The existing channel would ultimately discharge to Kam Tin River. **Figure 2** indicates the existing drainage system of the area.

2 Development Proposal

2.1 The Proposed Development

2.1.1 The total site area is approximately 1,483 m^2. The development was already fully paved. The catchment plan is shown in **Figure 4**.

Proposed Development	
Total Site Area (m^2)	1,483
Paved Area after Development (m^2)	1,483

Table 1 – Site Development Area

3 Assessment Criteria

3.1.1 The Recommended Design Return Period based on Flood Level from SDM (Table 10) is adopted for this report. The recommendation is summarized in **Table 2** below.

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

Table 2– Design Return Periods under SDM

3.1.2 The proposed drainage system intended to collect runoff from internal site and external catchment. 1 in 50 years return period is adopted for the drainage design.

3.1.3 Stormwater drainage design will be carried out in accordance with the criteria set out in the Stormwater Drainage Manual published by DSD. The proposed design criteria to be adopted for design of this stormwater drainage system and factors which have been considered are summarised below.

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.

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

The site is located within the HKO Zone. Therefore, for 50 years return period, the following values are adopted.

a	=	505.5
b	=	3.29
c	=	0.355

(Corrigendum No.1/2024)

The development is proposed for temporary use for a period of 3 years. 11.1% rainfall increase due to climate change is considered.

2. The peak runoff is calculated by the Rational Method
i.e. $Q_p = 0.278CiA$

where	Q_p	=	peak runoff in m^3/s
	C	=	runoff coefficient (dimensionless)
	i	=	rainfall intensity in mm/hr
	A	=	catchment area in km^2

3. The run-off coefficient (C) of surface runoff are taken as follows:

1.	Paved Area:	C = 0.95
2.	Unpaved Area:	C = 0.35

4. Manning's Equation is used for calculation of velocity of flow inside the channels:

Manning's Equation: $v = \frac{R^{\frac{1}{6}}}{n} R^{\frac{1}{2}} S_f^{\frac{1}{2}}$

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:

Colebrook-White Equation: $\underline{v} = -\sqrt{32gRS}\ log\ log\ (\frac{k_s}{14.8R} + \frac{1.255v}{R\sqrt{32gRS_f}})$

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)

4 Proposed Drainage System

4.1. Proposed Channels

4.2. Proposed Channels are designed for collection of runoff for internal and external catchment. They are proposed to connect to existing stream at the west. The utilization of the 4m existing channel due to the site is about 3.2% according to checking in **Appendix A**. As the site is already fully paved, there is no adverse drainage impact to the system.

4.1.2 The design calculations of proposed UChannel are shown in **Appendix A**.

4.1.3 The alignment, size, gradient and details of the proposed drains are shown in **Figure 3**. The catchment plan is shown in **Figure 4**.

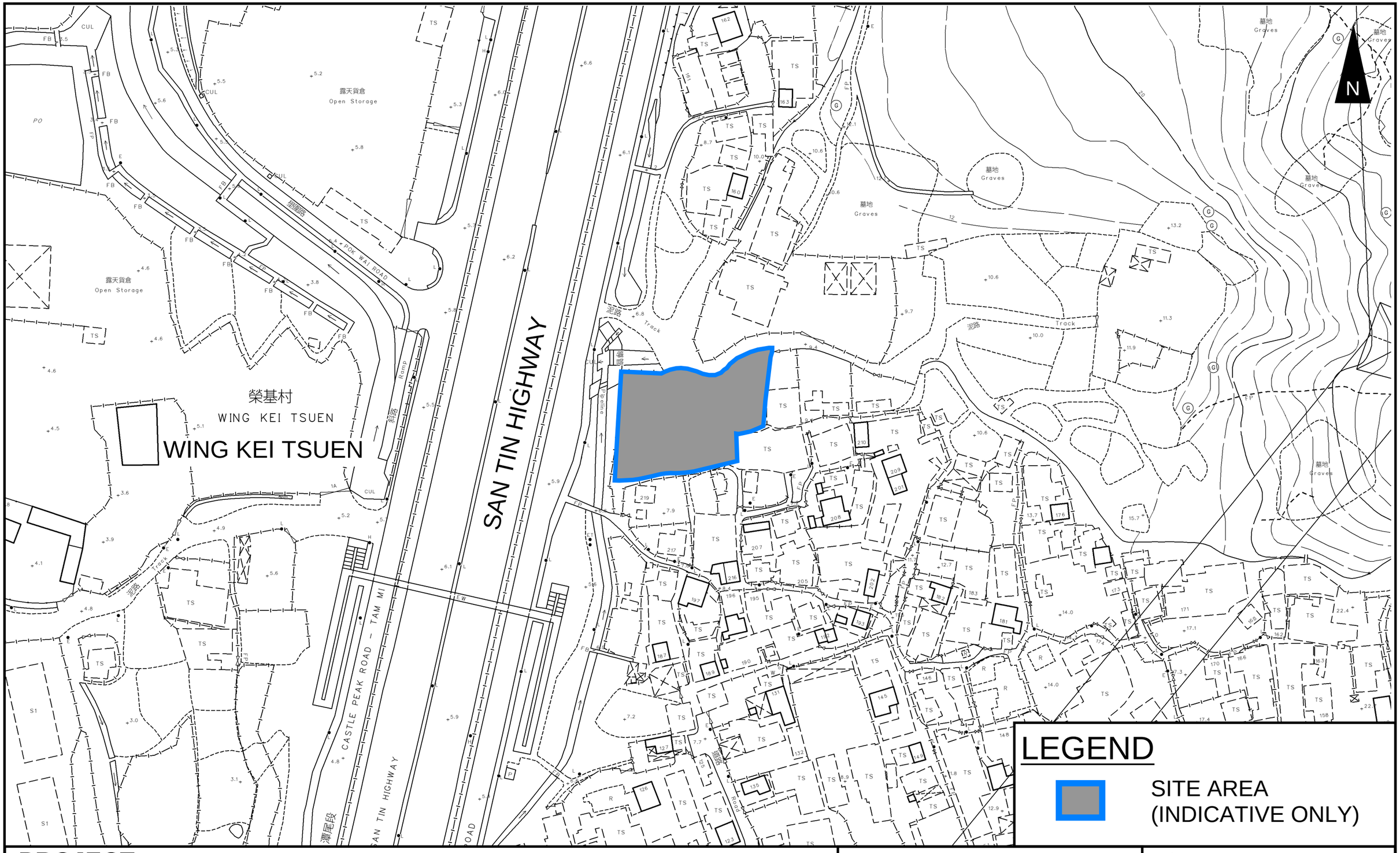
4.1.5 Reference Drawings are shown in **Appendix C** for reference.

5 Conclusion

4.1.1 Drainage review has been conducted for the Proposed Development. The surface runoff will be collected by the proposed drains and discharged to existing drainage system. With implementation of the above drainage system, no unacceptable drainage impact is anticipated.

- End of Text -

FIGURES



PROJECT:

TEMPORARY SHOP AND SERVICES AND EATING PLACE FOR A PERIOD OF 3 YEARS

TITLE

SITE LOCATION PLAN

FIGURE NUMBER

FIGURE 1

LOCATION:

LOTS 4122, 4123, 4124 AND 4125 (PART) IN D.D. 104 AND ADJOINING GOVERNMENT LAND, SAN TAM ROAD, KAM TIN, YUEN LONG, NEW TERRITORIES

VER	DESCRIPTION	DATE

LEGEND

SITE AREA
(INDICATIVE ONLY)

N

元朗露天貨倉
錦堦路
堦圍南路
錦堦路
堦圍西路
堦圍
悅富豪苑
青山公路潭尾段
新潭路
高峰
雅麗花園
金翠軒
堦圍公立學校
露天貨倉
玄虹苑

ULIMATELY DISCHARGE
TO KAM TIN RIVER

APPLICATION SITE

EXISING APPROX.
4m CHANNEL

EXISTING APPROX.
4.8m RECTANGULAR
CHANNEL

EXISTING APPROX.
2.2m WIDTH CHANNEL

LEGEND:

Combined Manhole	Tapping Point (Sewer)	Tapping Point (Storm)
Overflow (Combined)	Sewer Terminal Manhole	Storm Water Terminal Manhole
Pipe (Combined)	Catchpit	Tunnel Protection Zone (100m / 200m)
Interface Valve Chamber	Inlet	Tunnel Protection Zone (General Range)
Sewer Manhole	Storm Water Manhole	Tunnel / Box Culvert (Sewer)
Oil / Petrol Interceptor	Outlet	Tunnel / Box Culvert (Storm)
Overflow (Sewer)	Pipe (Storm)	
Pipe (Sewer)	Sand Trap	

PROJECT:
TEMPORARY SHOP AND SERVICES AND EATING PLACE FOR A PERIOD OF 3 YEARS

TITLE
EXISTING DRAINAGE PLAN

FIGURE NUMBER
FIGURE 2

LOCATION:
LOTS 4122, 4123, 4124 AND 4125 (PART) IN D.D. 104 AND ADJOINING GOVERNMENT LAND, SAN TAM ROAD, KAM TIN, YUEN LONG, NEW TERRITORIES

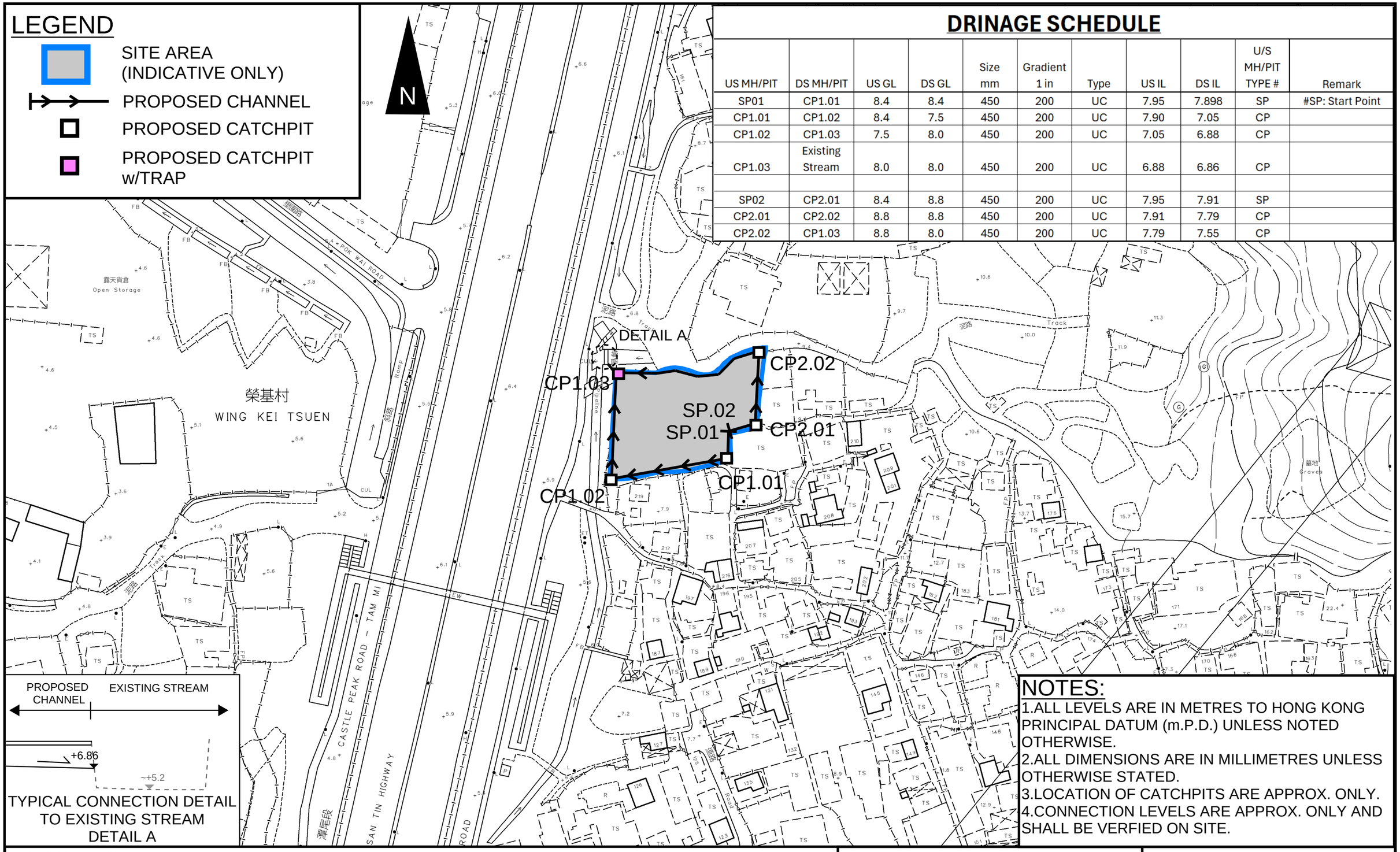
VER	DESCRIPTION	DATE

LEGEND

- SITE AREA (INDICATIVE ONLY)
- PROPOSED CHANNEL
- PROPOSED CATCHPIT
- PROPOSED CATCHPIT w/TRAP

DRINAGE SCHEDULE

US MH/PIT	DS MH/PIT	US GL	DS GL	Size mm	Gradient 1 in	Type	US IL	DS IL	U/S MH/PIT TYPE #	Remark
SP01	CP1.01	8.4	8.4	450	200	UC	7.95	7.898	SP	#SP: Start Point
CP1.01	CP1.02	8.4	7.5	450	200	UC	7.90	7.05	CP	
CP1.02	CP1.03	7.5	8.0	450	200	UC	7.05	6.88	CP	
CP1.03	Existing Stream	8.0	8.0	450	200	UC	6.88	6.86	CP	
SP02	CP2.01	8.4	8.8	450	200	UC	7.95	7.91	SP	
CP2.01	CP2.02	8.8	8.8	450	200	UC	7.91	7.79	CP	
CP2.02	CP1.03	8.8	8.0	450	200	UC	7.79	7.55	CP	



PROPOSED CHANNEL — EXISTING STREAM

+6.86 — ~+5.2

TYPICAL CONNECTION DETAIL TO EXISTING STREAM DETAIL A

NOTES:

1. ALL LEVELS ARE IN METRES TO HONG KONG PRINCIPAL DATUM (m.P.D.) UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
3. LOCATION OF CATCHPITS ARE APPROX. ONLY.
4. CONNECTION LEVELS ARE APPROX. ONLY AND SHALL BE VERFIED ON SITE.

PROJECT:
TEMPORARY SHOP AND SERVICES AND EATING PLACE FOR A PERIOD OF 3 YEARS

TITLE
PROPOSED DRAINAGE SYSTEM

FIGURE NUMBER
FIGURE 3

LOCATION:
LOTS 4122, 4123, 4124 AND 4125 (PART) IN D.D. 104 AND ADJOINING GOVERNMENT LAND, SAN TAM ROAD, KAM TIN, YUEN LONG, NEW TERRITORIES

VER	DESCRIPTION	DATE

LEGEND:

FALL

B1: Paved 270 m²

A1: Paved 1,483 m²

B2: Paved 542 m²

N

榮基村
WING KEI TSUEN

露天貨倉
Open Storage

墓地
Graves

CASTLE PEAK ROAD – TAM MI

KAM TIN HIGHWAY

KAM POK WAI ROAD

Ramp

泥路
Track

PROJECT:
TEMPORARY SHOP AND SERVICES AND EATING PLACE FOR A PERIOD OF 3 YEARS

TITLE
CATCHMENT PLAN

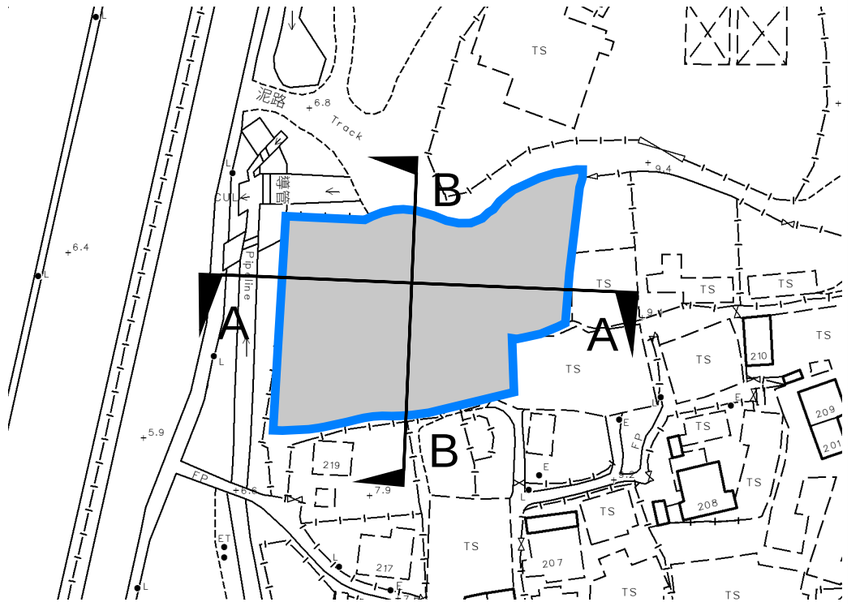
FIGURE NUMBER
FIGURE 4

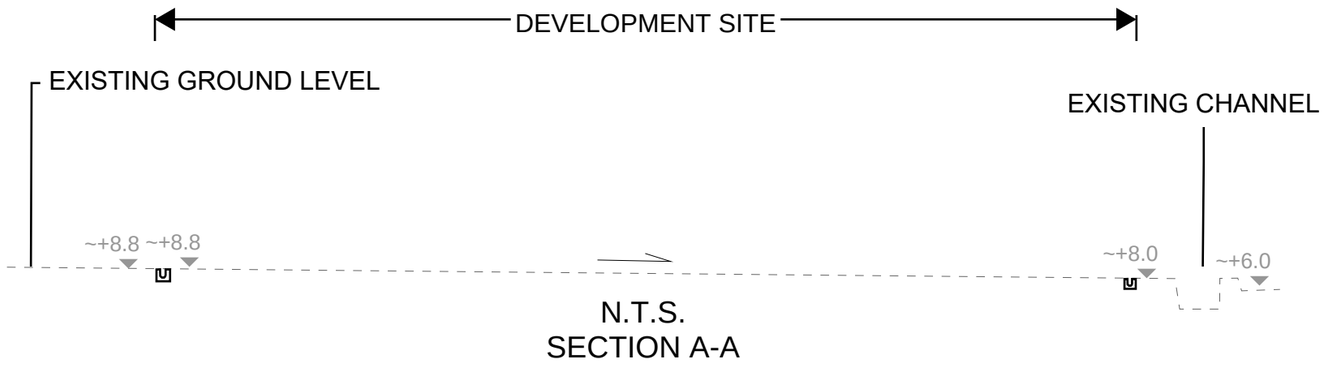
LOCATION:
LOTS 4122, 4123, 4124 AND 4125 (PART) IN D.D. 104 AND ADJOINING GOVERNMENT LAND, SAN TAM ROAD, KAM TIN, YUEN LONG, NEW TERRITORIES

VER	DESCRIPTION	DATE

LEGEND

SITE AREA
(INDICATIVE ONLY)





N.T.S.
SECTION A-A

N.T.S.
SECTION B-B

PROJECT: TEMPORARY SHOP AND SERVICES AND EATING PLACE FOR A PERIOD OF 3 YEARS	TITLE SECTIONS	FIGURE NUMBER FIGURE 5
LOCATION: LOTS 4122, 4123, 4124 AND 4125 (PART) IN D.D. 104 AND ADJOINING GOVERNMENT LAND, SAN TAM ROAD, KAM TIN, YUEN LONG, NEW TERRITORIES		

VER	DESCRIPTION	DATE

APPENDIX

Appendix A: Design Calculation

Zone

HKO

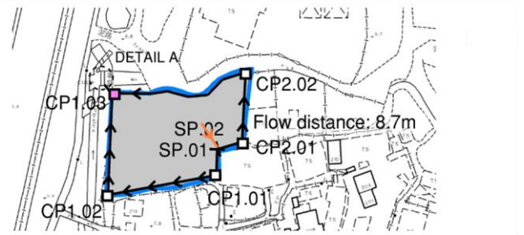
Return Period	1 in	50	years

n	0.014
Ks	0.15
Viscosity	0.000001

Storm Constant		
	HKO a	505.5
	HKO b	3.29
	HKO c	0.355

Time of Concentration Checking

Catchment	Flow Distance	Highest Level	Lowest Level	Gradient (per 100m) = (H1-H2)/L x 100	to (min) = 0.14465L/ ($H^{0.2}A^{0.1}$)	tc = to + tf
A	L	H1	H2			
(m2)	(m)	(mPD)	(mPD)		(min)	(min)
1483	8.7	8.5	8.4	1.149	0.6	0.6



Catchment Area Table (Area in m^2)

Catchment	A1	B1	B2															
Total Area	1483	270	542															
Hard Paved Area	1483	270	542															
Unpaved Area	0	0	0															
Equival. Area	1408.85	256.5	514.9															

Pavement Type	Hard Paved	Unpaved
Runoff Coefficient	0.95	0.35

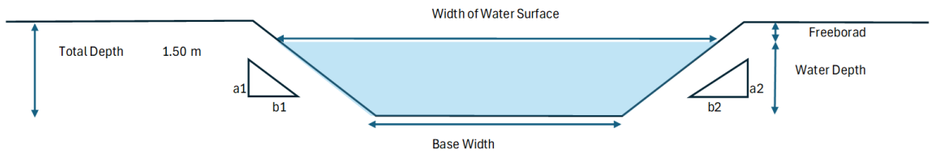
Calculation Table of Drainage System

US MH/PIT	DS MH/PIT	US GL	DS GL	Size mm	Gradient 1 in	Type	US IL	DS IL	U/S MH/PIT TYPE #	Length m	V m/s ##	Capacity m^3/s	Catchment ID1	Catchment ID2	Catchment ID3	Catchment ID4	Catchment ID5	Catchment ID6	Catchment ID7	Catchment ID8	Catchment ID9	Total Equivalent Area m^2	ToC min	Intensity mm/hr ##	Total Discharge m^3/s	Utilitization
SP01	CP1.01	8.40	8.40	450	200	UC	7.95	7.90	SP	10.4	1.47	0.26	A1	B2								1923.75	0.60	347	0.19	70.0%
CP1.01	CP1.02	8.40	7.50	450	200	UC	7.90	7.05	CP	34.8	1.47	0.26	A1	B2								1923.75	0.72	343	0.18	69.3%
CP1.02	CP1.03	7.50	8.00	450	200	UC	7.05	6.88	CP	33.9	1.47	0.26	A1	B2								1923.75	1.11	332	0.18	67.0%
CP1.03	Existing Stream	8.00	8.00	450	200	UC	6.88	6.86	CP	4	1.47	0.26	A1	B1	B2							2180.25	1.50	322	0.20	73.7%
SP02	CP2.01	8.40	8.80	450	200	UC	7.95	7.91	SP	8.6	1.47	0.26	A1	B2								1923.75	0.60	347	0.19	70.0%
CP2.01	CP2.02	8.80	8.80	450	200	UC	7.91	7.79	CP	23.3	1.47	0.26	A1	B2								1923.75	0.70	344	0.18	69.4%
CP2.02	CP1.03	8.80	8.00	450	200	UC	7.79	7.55	CP	47	1.47	0.26	A1	B2								1923.75	0.96	336	0.18	67.8%

#SP: Start Point

: With 11.1% rainfall increase as per Table 28 of SDM Corrigendum No. 1/2022.

Capacity Checking of 4m width Existing Channel



a1	1	
b1	0.0	
a2	1	
b2	0.0	
Total Depth	1.50	m
Base Width	4.00	m
Assumed Water Depth	1.00	m
Freeboard	0.30	m

Assumed Water Depth	Freeboard	Base Width*	Width of Water Surface	Flow Area	Wetted Perimeter	Hydralic Radius	Manning's Roughness	Gradient	Velocity	Capacity
m	m	m	m	m^2	m	m		1 in	m/s	m^3/s
1.00	0.50	4.00	4.00	4.00	6.00	0.67	0.035	200	1.54	6.17

Total Flow from The Application Site = 0.20 m^3/s

Utilization Rate = 3.2%

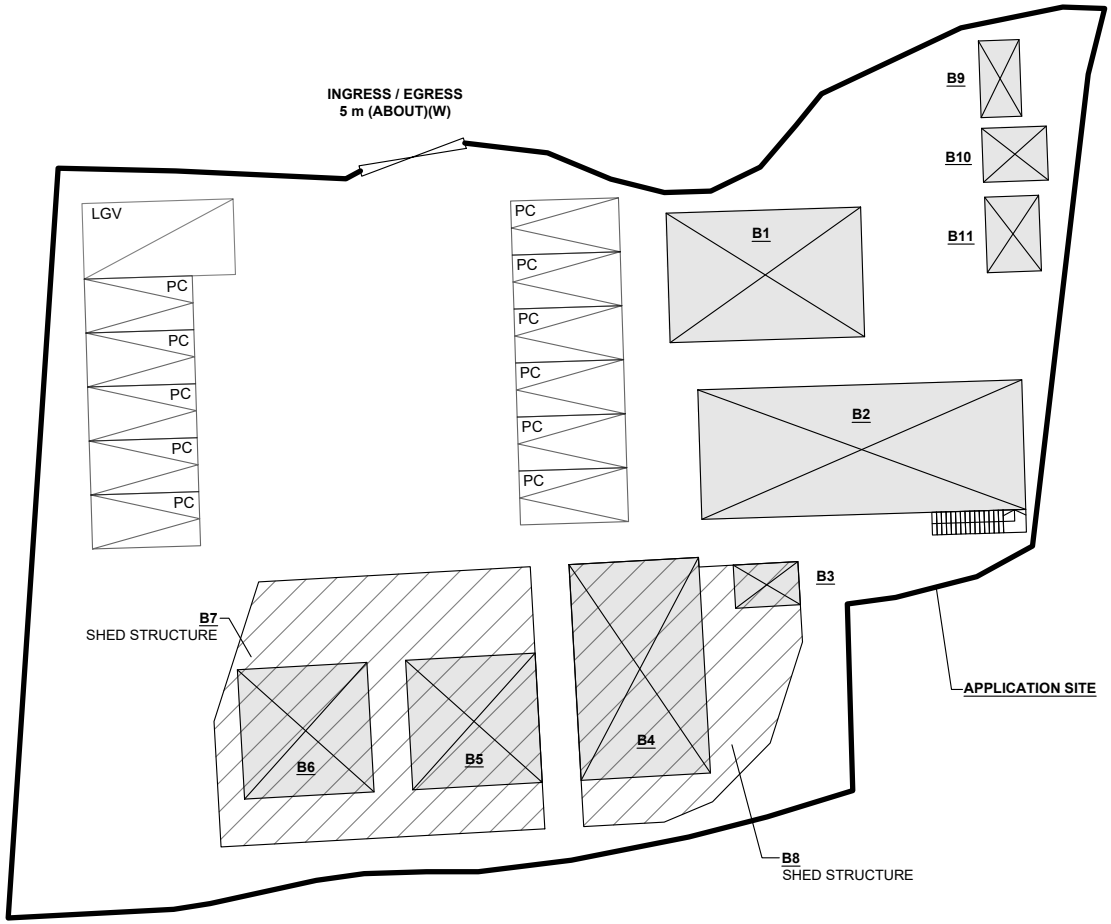
Total flow from Application Site only occupy 3.2% of the existing Nullah.

Please kindly note the Existing Application Site is already fully paved. NO additional runoff generated from the proposed development

DEVELOPMENT PARAMETERS OF THE APPLICATION SITE

APPLICATION SITE AREA	: 1,483 m^2	(ABOUT)
COVERED AREA	: 463 m^2	(ABOUT)
UNCOVERED AREA	: 1,020 m^2	(ABOUT)
PLOT RATIO	: 0.38	(ABOUT)
SITE COVERAGE	: 31%	(ABOUT)
NO. OF STRUCTURE	: 11	
DOMESTIC GFA	: NOT APPLICABLE	
NON-DOMESTIC GFA	: 558 m^2	(ABOUT)
TOTAL GFA	: 558 m^2	(ABOUT)
BUILDING HEIGHT	: 3 m - 7 m	(ABOUT)
NO. OF STOREY	: 1 - 2	

STRUCTURE	USE	COVERED AREA	GROSS FLOOR AREA	BUILDING HEIGHT
B1	SHOP AND SERVICES, SITE OFFICE	59 m^2 (ABOUT)	59 m^2 (ABOUT)	4 m (ABOUT)(1-STOREY)
B2	SHOP AND SERVICES, SITE OFFICE	95 m^2 (ABOUT)	190 m^2 (ABOUT)	7 m (ABOUT)(2-STOREY)
B3	WASHROOM	COVERED BY B8	COVERED BY B8	3.5 m (ABOUT)(1-STOREY)
B4	SHOP AND SERVICES	COVERED BY B8	COVERED BY B8	3.5 m (ABOUT)(1-STOREY)
B5	EATING PLACE	COVERED BY B7	COVERED BY B7	3.5 m (ABOUT)(1-STOREY)
B6	EATING PLACE	COVERED BY B7	COVERED BY B7	3.5 m (ABOUT)(1-STOREY)
B7	RAIN SHELTER (SHED STRUCTURE)	175 m^2 (ABOUT)	175 m^2 (ABOUT)	4 m (ABOUT)(1-STOREY)
B8	RAIN SHELTER (SHED STRUCTURE)	110 m^2 (ABOUT)	110 m^2 (ABOUT)	4 m (ABOUT)(1-STOREY)
B9	STORAGE OF GOODS	7 m^2 (ABOUT)	7 m^2 (ABOUT)	3m (ABOUT)(1-STOREY)
B10	WASHROOM	8 m^2 (ABOUT)	8 m^2 (ABOUT)	3m (ABOUT)(1-STOREY)
B11	STORAGE OF GOODS	9 m^2 (ABOUT)	9 m^2 (ABOUT)	3m (ABOUT)(1-STOREY)
	TOTAL	**463 m^2 (ABOUT)**	**558 m^2 (ABOUT)**	



PARKING AND LOADING/UNLOADING PROVISIONS

NO. OF PRIVATE CAR PARKING SPACE	: 11
DIMENSION OF PARKING SPACE	: 2.5m (W) X 5m (L)
NO. OF L/UL SPACE FOR LIGHT GOODS VEHICLE	: 1
DIMENSION OF L/UL SPACE	: 3.5m (W) X 7m (L)

SITE BOUNDARY FOR IDENTIFICATION PURPOSE ONLY.

LEGEND

- APPLICATION SITE
- STRUCTURE (ENCLOSED
- STRUCTURE (4-SIDE OPENED)
- PARKING SPACE
- LOADING / UNLOADING SPACE
- INGRESS / EGRESS

NORTH

W E

S

PLANNING CONSULTANT

R-RICHES PLANNING LIMITED

PROJECT

TEMPORARY SHOP AND SERVICES AND EATING PLACE WITH ANCILLARY FACILITIES FOR A PERIOD OF 3 YEARS

SITE LOCATION

VARIOUS LOTS IN D.D. 104 AND ADJOINING GOVERNMENT LAND, SAN TAM ROAD, KAM TIN, YUEN LONG, NEW TERRITORIES

SCALE

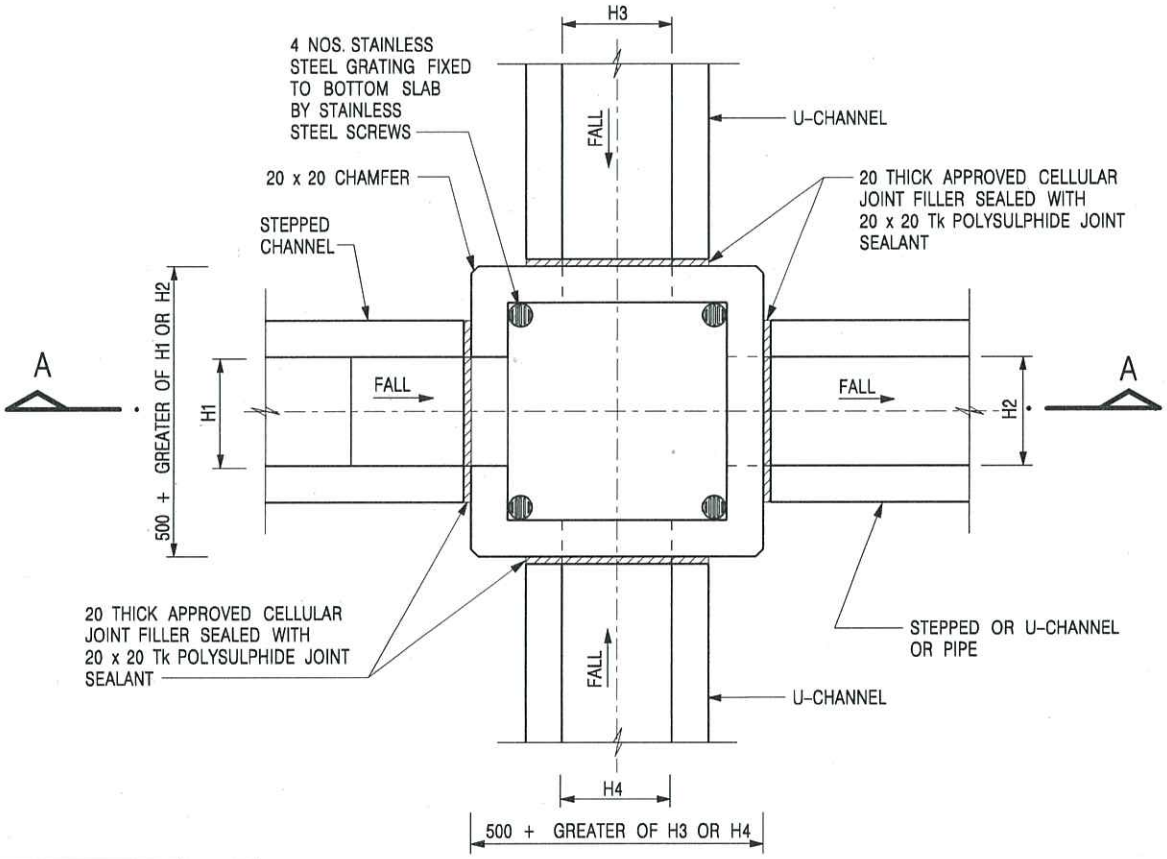
1 : 350 @ A4

DRAWN BY	DATE
MN	29.4.2026
REVISED BY	DATE
APPROVED BY	DATE

DWG. TITLE

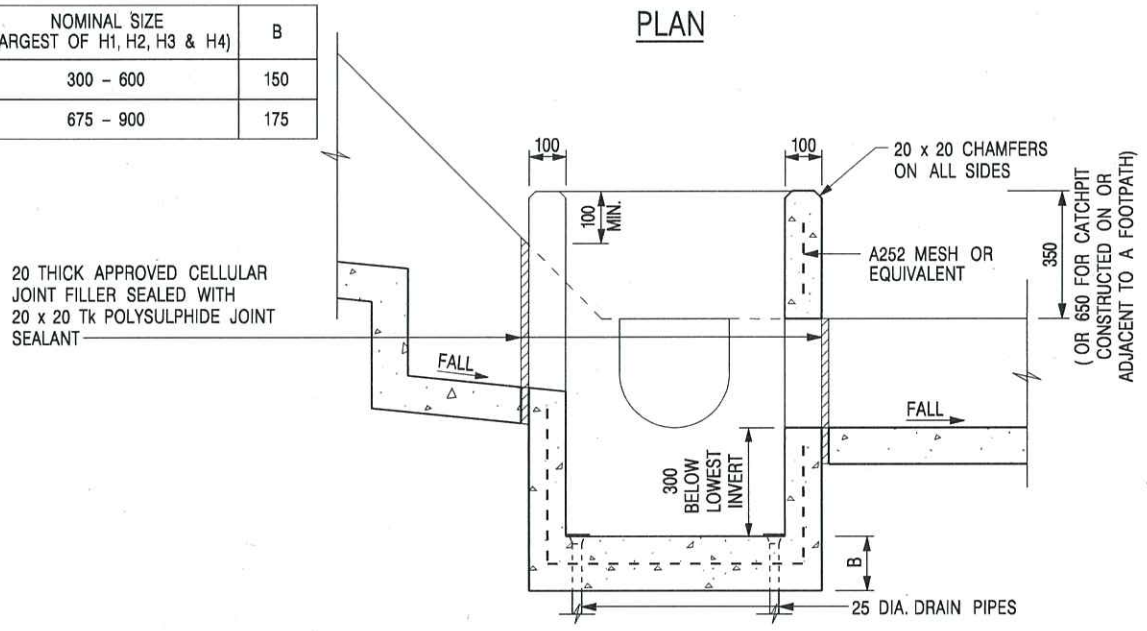
LAYOUT PLAN

DWG NO.	VER.
PLAN 4	001



PLAN

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



SECTION A – A

NOTES:

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

REF.	REVISION	SIGNATURE	DATE
–	FORMER DRG. NO. C2406J.	Original Signed	03.2015

CATCHPIT WITH TRAP

(SHEET 1 OF 2)

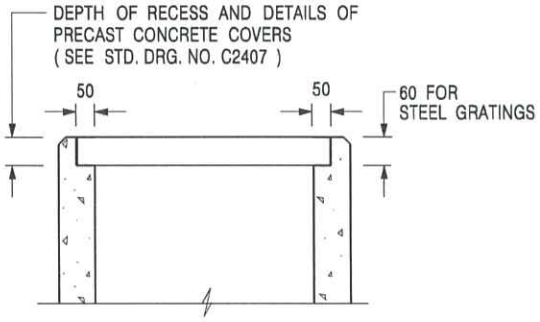
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DATE JAN 1991

DRAWING NO. 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.
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

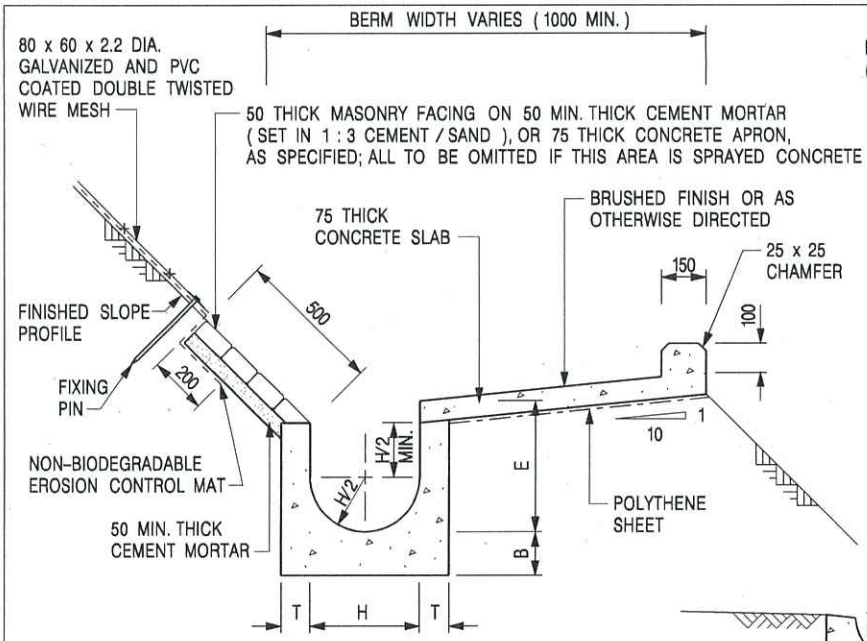
CATCHPIT WITH TRAP
(SHEET 2 OF 2)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

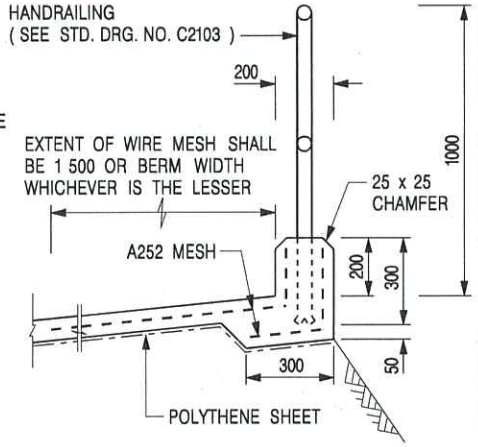
SCALE 1 : 20

DATE JAN 1991

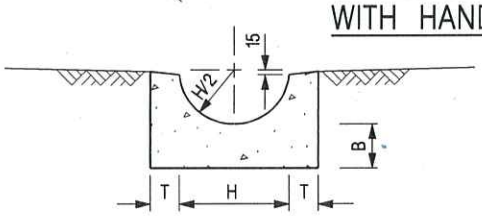
DRAWING NO. C2406 /2A



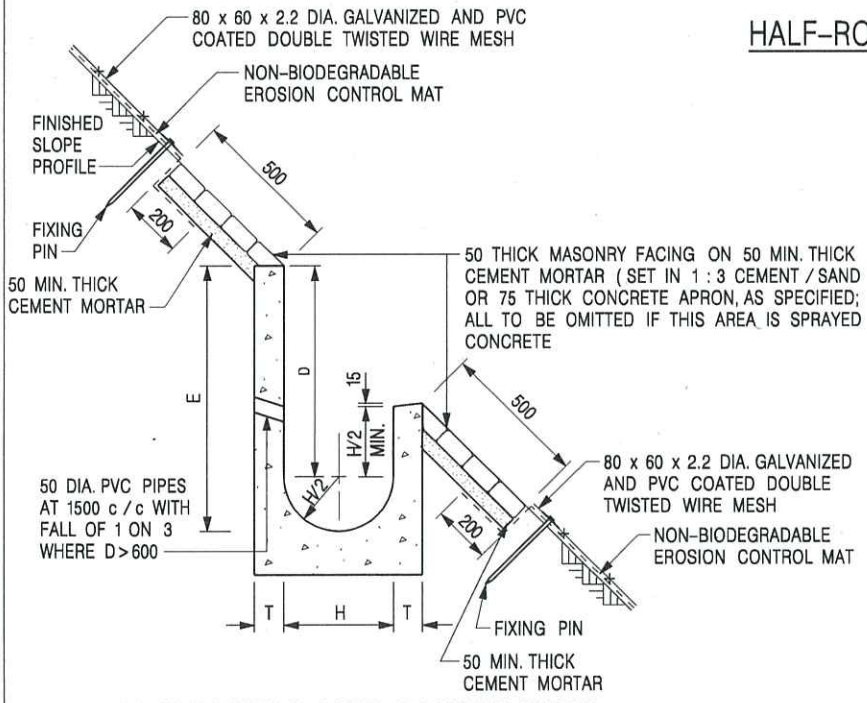
U-CHANNELS CONSTRUCTED ON BERM



DETAILS OF BERM WITH HANDRAILING



HALF-ROUND CHANNEL



U-CHANNELS NOT CONSTRUCTED ON BERM

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

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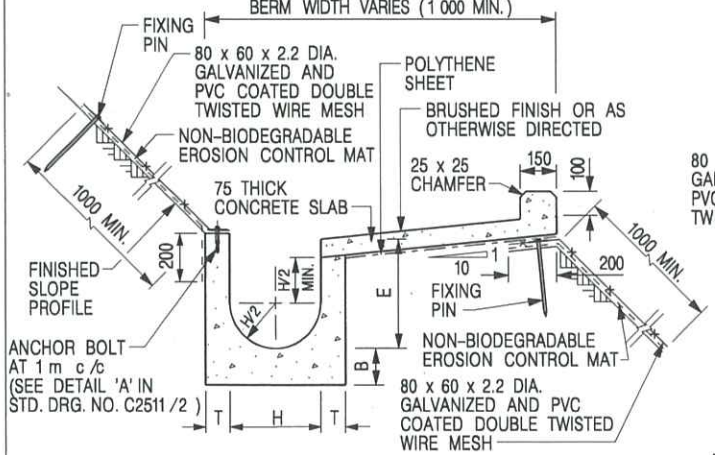
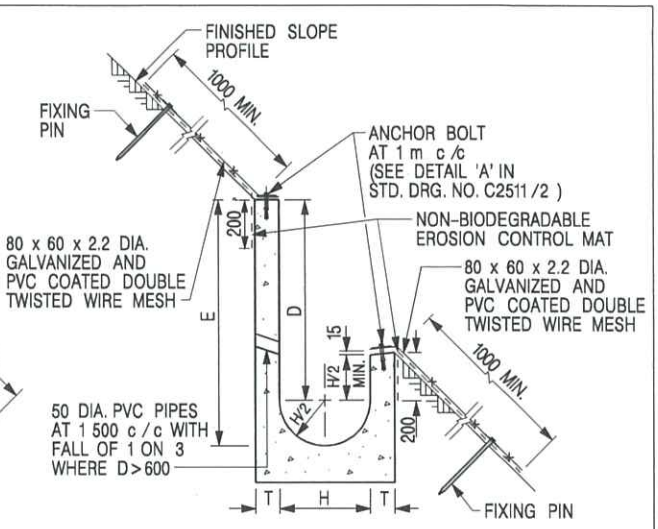
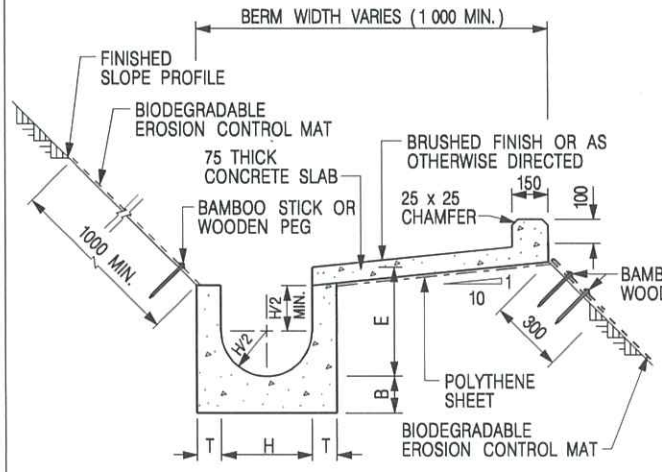


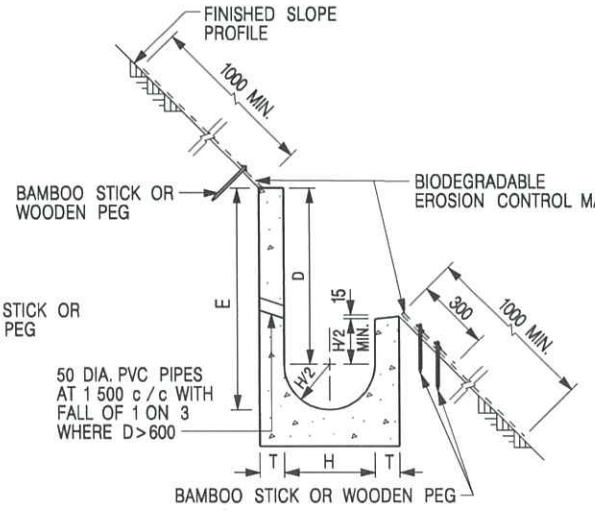
U-CHANNELS CONSTRUCTED ON BERM WITH NON-BIODEGRADABLE EROSION CONTROL MAT



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)

CEDD **CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT**

SCALE DIAGRAMMATIC

DATE JAN 1991

DRAWING NO. C2410I

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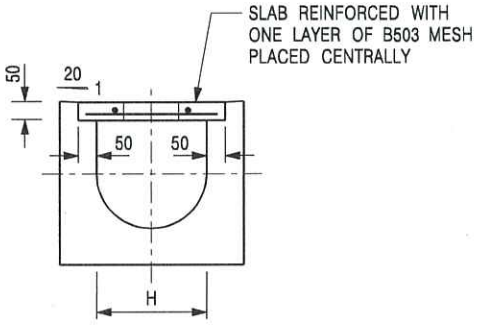
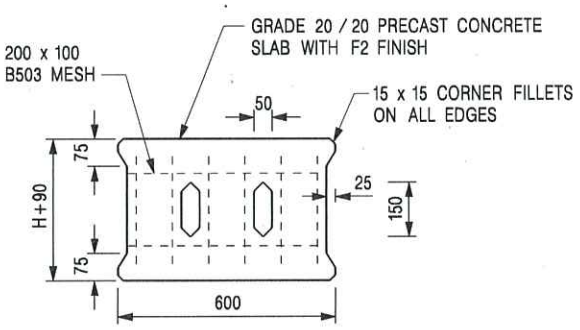


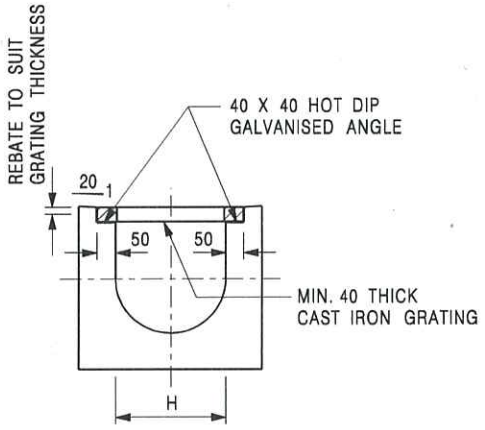
TYPICAL SECTION



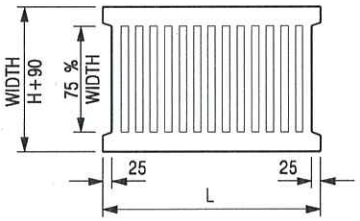
PLAN OF SLAB

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:

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

PHOTO 1

PHOTO 5

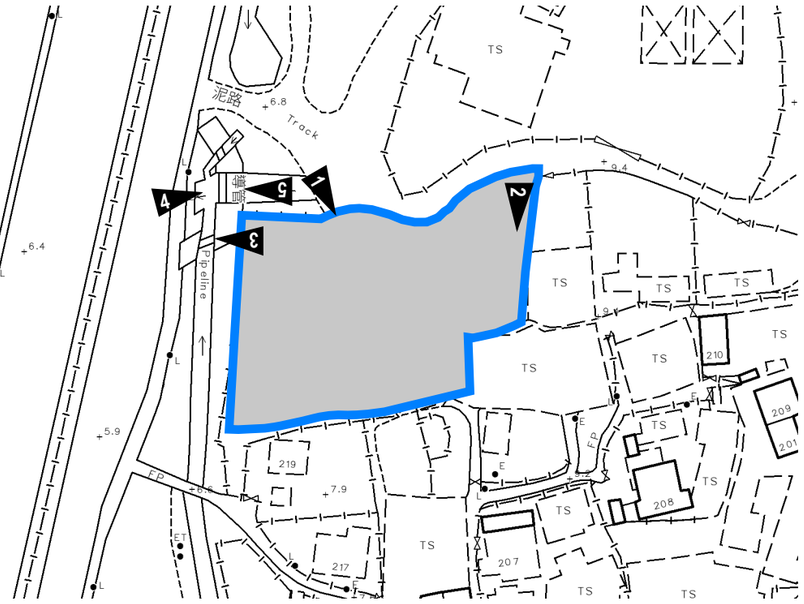


PHOTO 2

PHOTO 3

PHOTO 4

PROJECT:
TEMPORARY SHOP AND SERVICES AND EATING PLACE FOR A PERIOD OF 3 YEARS

SITE PHOTOS

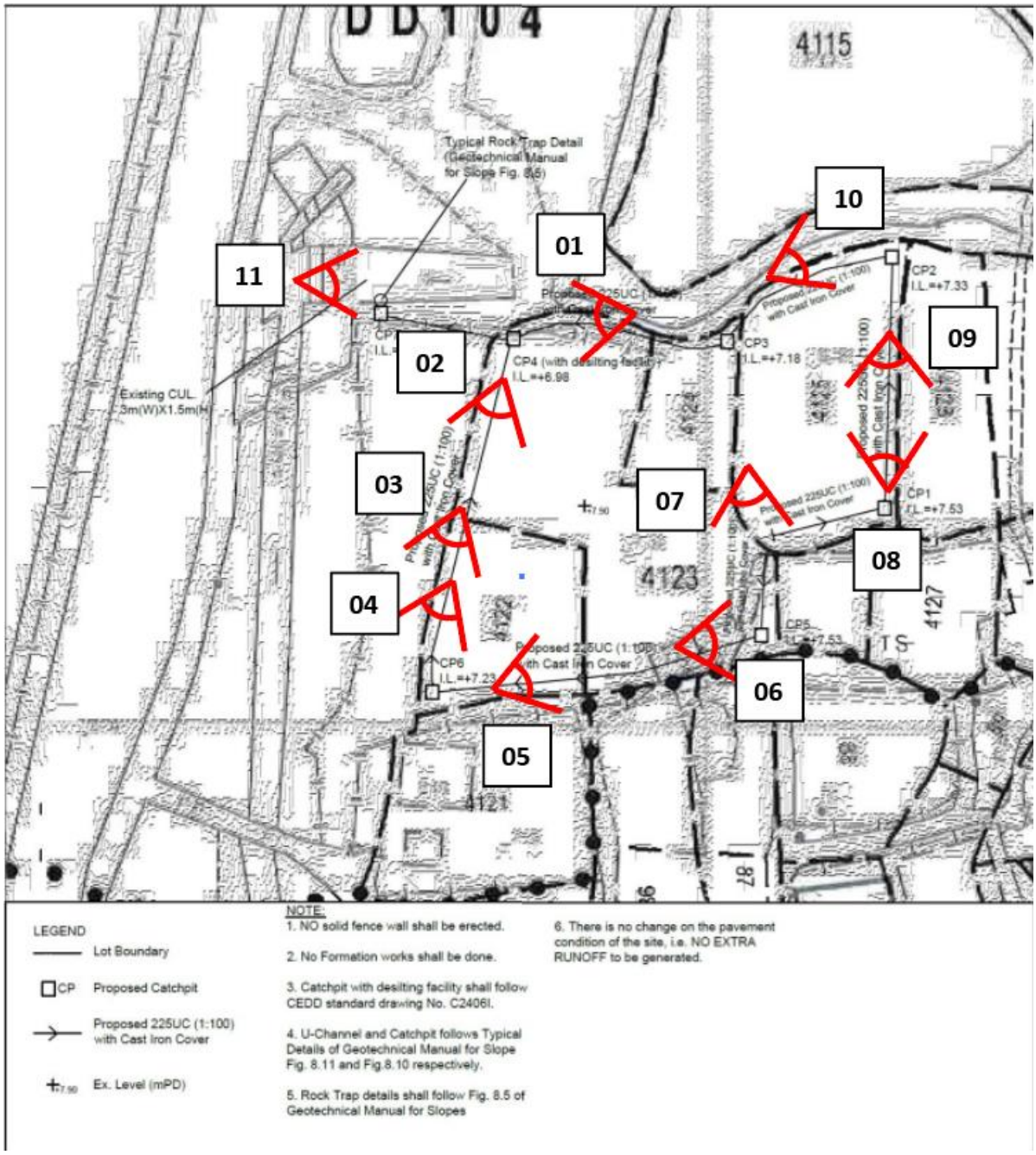
APPENDIX D

LOCATION:
LOTS 4122, 4123, 4124 AND 4125 (PART) IN D.D. 104 AND ADJOINING GOVERNMENT LAND, SAN TAM ROAD, KAM TIN, YUEN LONG, NEW TERRITORIES

VER	DESCRIPTION	DATE

As built drainage plan with existing drainage records

(i) The application site (the Site) is involved in 6 previous applications, which the drainage facilities have already been implemented at the Site. The as-built drainage plan and photographic records of the existing drainage facilities (taken on 28/4/2026) are provided for your consideration:



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