APPENDICES

Appendix I	The Accepted Drainage Proposal of the Previous Application No. A/HSK/424
Appendix II	Revised Drainage Proposal
Appendix III	The Accepted Fire Service Installations Proposal of the Previous Application No. A/HSK/424
Appendix IV	Revised Fire Service Installations Proposal

Appendix I

The Accepted Drainage Proposal of the Previous Application No. A/HSK/424

規劃署

屯門及元朗西規劃處
香港新界沙田上禾輋路 1 號
沙田政府合署 14 樓

By Fax (2323 3662) and Post

Planning Department

Tuen Mun and Yuen Long West
District Planning Office
14/F., Sha Tin Government Offices,
1 Sheung Wo Che Road, Sha Tin,
N.T. Hong Kong

29 May 2024

來函檔號	Your Reference	
本署檔號	Our Reference	( ) in TPB/A/HSK/424
電話號碼	Tel. No.:	2158 6294
傳真機號碼	Fax No.:	2489 9711

[redacted]

Dear Sir/ Madam,

Compliance with Approval Condition (a)
Planning Application No. A/HSK/424

I refer to your submission dated 3.5.2024 regarding the submission of a drainage proposal for compliance with captioned approval condition. The relevant department has been consulted on your submission. Your submission is considered:

☑ Acceptable. The captioned condition has been complied with.

☐ Acceptable. Since the captioned condition requires both the submission and implementation of the proposal, it has not been fully complied with. Please proceed to implement the accepted proposal for full compliance with the approval condition.

☐ Not acceptable. The captioned condition has not been complied with.

Should you have any queries, please contact Ms. Vicky SY (Tel: 2300 1347) of the Drainage Services Department direct.

Yours faithfully,

(Ms. Charlotte LAM)
for District Planning Officer/
Tuen Mun and Yuen Long West
Planning Department

c.c
CE/MN, DSD (Attn: Ms. Vicky SY)

Internal
CTP/TPB2

R-Riches
Property Consultants Ltd.

盈卓物業
顧問有限公司

Our Ref. : DD124 Lot 25 & VL
Your Ref. : TPB/A/HSK/424

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

By Email

3 May 2024

Dear Sir,

Compliance with Approval Condition (a)

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years in "Village Type Development" and "Open Space" Zones, Various Lots in D.D. 124 and Adjoining Government Land, Ha Tsuen, Yuen Long, New Territories

(S.16 Planning Application No. A/HSK/424)

`

We are writing to submit a response-to-comments table and a revised drainage proposal for compliance with approval condition (a) of the subject application, i.e. *the submission of a drainage proposal* (**Appendices I** and **II**).

Should you require more information regarding the application, please contact our Mr. Louis TSE at (852)[redacted] or the undersigned at your convenience. Thank you for your kind attention.

Yours faithfully,

For and on behalf of
R-riches Property Consultants Limited

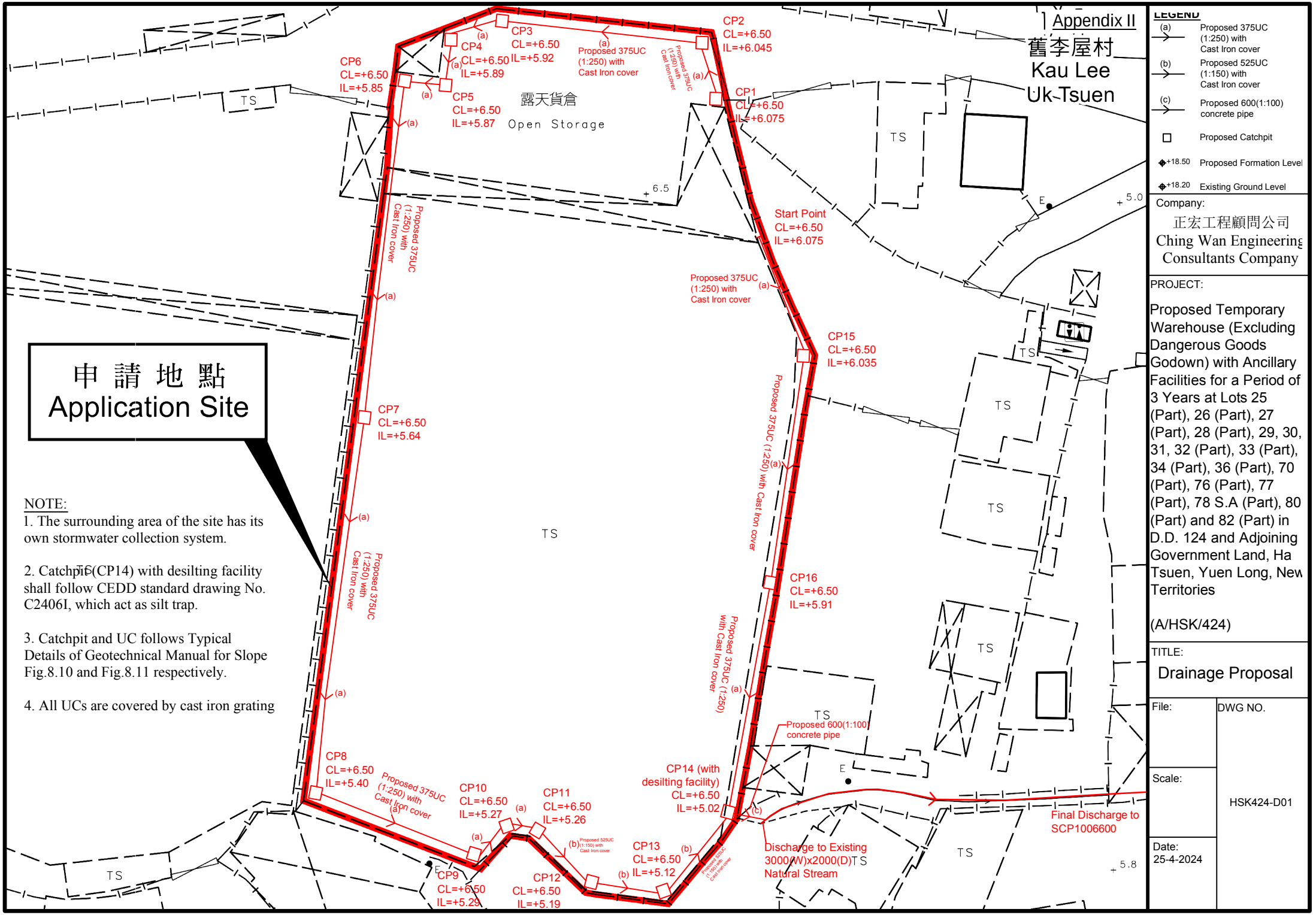
Matthew NG
Planning and Development Manager

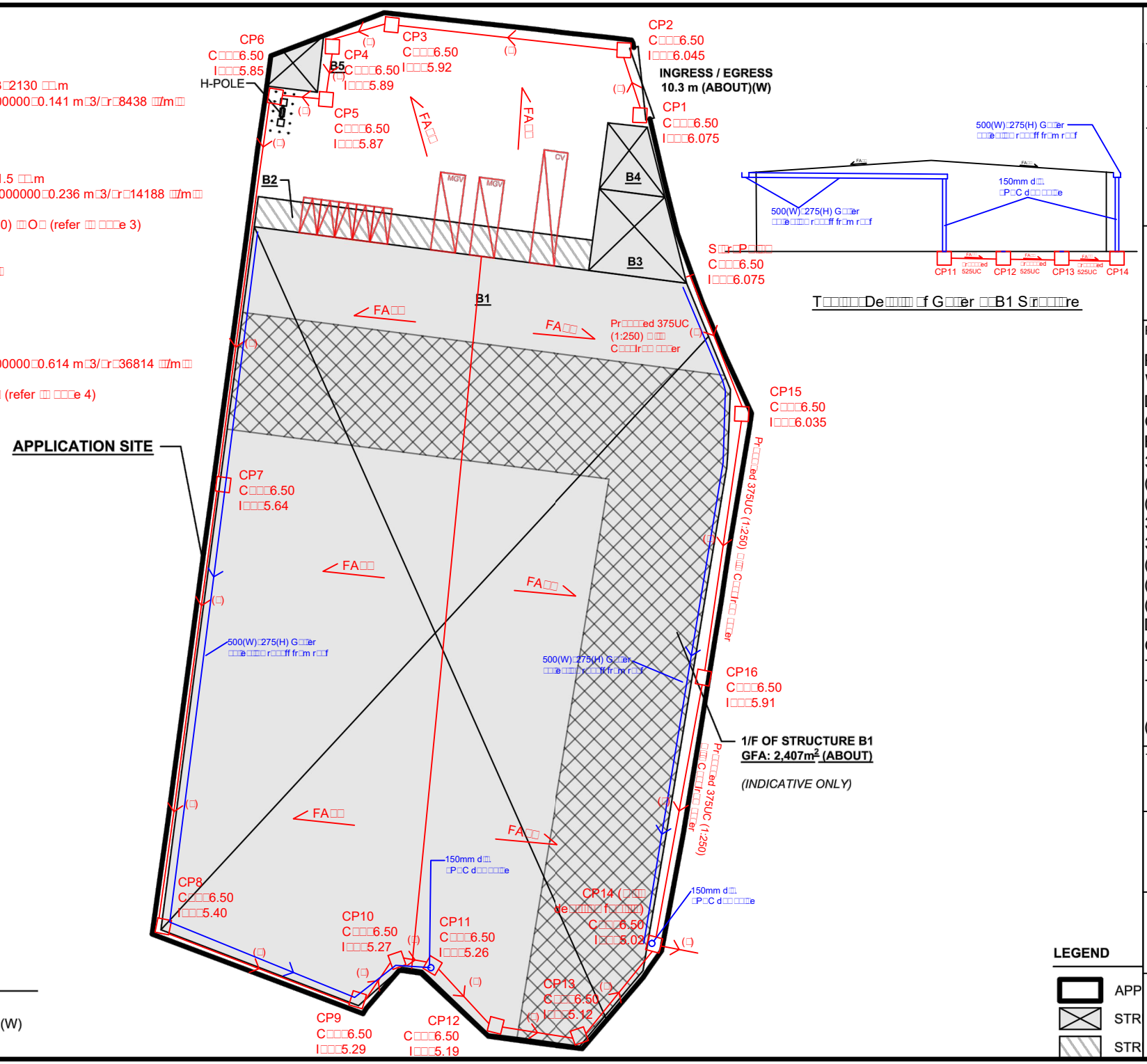
cc DPO/TMYLW, PlanD (Attn.: Ms. Moon KOK email: mlkok@pland.gov.hk)

[redacted]

Appendix I – Response to comments of the Chief Engineer/Mainland North, Drainage Services Department (CE/MN,DSD)

Comments of the CE/MN, DSD (Contact Person: Ms. Vicky SY; Tel: 2300 1347)		
(i)	The U channel at the eastern side of the application site proposed on the submission dated 28.2.2024 is deleted in this submission. Please clarify on the reason for this change. Please note that peripheral surface channels shall be provided along the site boundary to collect the surface runoff accrued on the application site and to intercept the overland flow from the adjacent lands.	Peripheral channel is provided (i.e. UC is provided at the eastern side of the application site) as shown at the revised drainage proposal (**Appendix II**).


Appendix II
舊李屋村
Kau Lee Uk Tsuen
申 請 地 點
Application Site
露天貨倉
Open Storage
CP1 CL=+6.50 IL=+6.075
CP2 CL=+6.50 IL=+6.045
CP3 CL=+6.50 IL=+5.92
CP4 CL=+6.50 IL=+5.89
CP5 CL=+6.50 IL=+5.87
CP6 CL=+6.50 IL=+5.85
CP7 CL=+6.50 IL=+5.64
CP8 CL=+6.50 IL=+5.40
CP9 CL=+6.50 IL=+5.29
CP10 CL=+6.50 IL=+5.27
CP11 CL=+6.50 IL=+5.26
CP12 CL=+6.50 IL=+5.19
CP13 CL=+6.50 IL=+5.12
CP14 (with desilting facility) CL=+6.50 IL=+5.02
CP15 CL=+6.50 IL=+6.035
CP16 CL=+6.50 IL=+5.91
Start Point CL=+6.50 IL=+6.075
Proposed 375UC (1:250) with Cast Iron cover
Proposed 525UC (1:150) with Cast Iron cover
Proposed 600(1:100) concrete pipe
Discharge to Existing 3000(W)x2000(D) Natural Stream
Final Discharge to SCP1006600
TS
+6.5
+5.0
+5.8
E
NOTE:
1. The surrounding area of the site has its own stormwater collection system.
2. Catchpit(CP14) with desilting facility shall follow CEDD standard drawing No. C2406I, which act as silt trap.
3. Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.
4. All UCs are covered by cast iron grating
LEGEND
(a) Proposed 375UC (1:250) with Cast Iron cover
(b) Proposed 525UC (1:150) with Cast Iron cover
(c) Proposed 600(1:100) concrete pipe
Proposed Catchpit
+18.50 Proposed Formation Level
+18.20 Existing Ground Level
Company:
正宏工程顧問公司
Ching Wan Engineering Consultants Company
PROJECT:
Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years at Lots 25 (Part), 26 (Part), 27 (Part), 28 (Part), 29, 30, 31, 32 (Part), 33 (Part), 34 (Part), 36 (Part), 70 (Part), 76 (Part), 77 (Part), 78 S.A (Part), 80 (Part) and 82 (Part) in D.D. 124 and Adjoining Government Land, Ha Tsuen, Yuen Long, New Territories
(A/HSK/424)
TITLE:
Drainage Proposal
File:
DWG NO.
Scale:
HSK424-D01
Date:
25-4-2024



Site Area 9293 m
B1 Area 7163 m

CP1 CP11
Cumulative Area 9293 7163 2130 m
0.278 0.95 250 2130/1000000 0.141 m3/r 8438 l/m

Provide 375UC(1:200) O

Gutter
Cumulative Area B1/2 3581.5 m
0.278 0.95 250 3581.5/1000000 0.236 m3/r 14188 l/m

Provide 500(W) 275(D) (1:150) O (refer to note 3)

CP11 CP14
8438 14188 22626 l/m

Provide 525UC(1:150) O

Future Drainage Reserve after CP14
Cumulative Area 9293 m
0.278 0.95 250 9293/1000000 0.614 m3/r 36814 l/m

Provide 600 Channel(1:100) O (refer to note 4)

Typical Detail of Gutter at B1 Structure

500(W) 275(H) Gutter with removable cover
150mm dia PVC drainage pipe
CP11 525UC CP12 525UC CP13 525UC CP14

LEGEND

- Proposed 375UC (1:250) Channel Cover
- Proposed 525UC (1:150) Channel Cover
- Proposed 600(1:100) Channel
- Proposed Catchpit
- 18.50 Proposed Form Level
- 18.20 Existing Ground Level

Comm:

正宏工程顧問公司
Ching Wan Engineering Consultants Company

PROJECT:

Proposed Temporary Warehouse (Existing Domestic Garage and Garden) at Agricultural Lot for a Period of 3 Years (Phase 25 (Phase) 26 (Phase) 27 (Phase) 28 (Phase) 29 30 31 32 (Phase) 33 (Phase) 34 (Phase) 36 (Phase) 70 (Phase) 76 (Phase) 77 (Phase) 78 S.A (Phase) 80 (Phase) and 82 (Phase) in D.D. 124 and Adjoining Government Land, Ha Tsuen, Yuen Long, New Territories

(A/HS /424)

TITLE:

Cumulative Plan

File:

DWG NO.

Scale:

HS 424 D02

Date:
25 4 2024

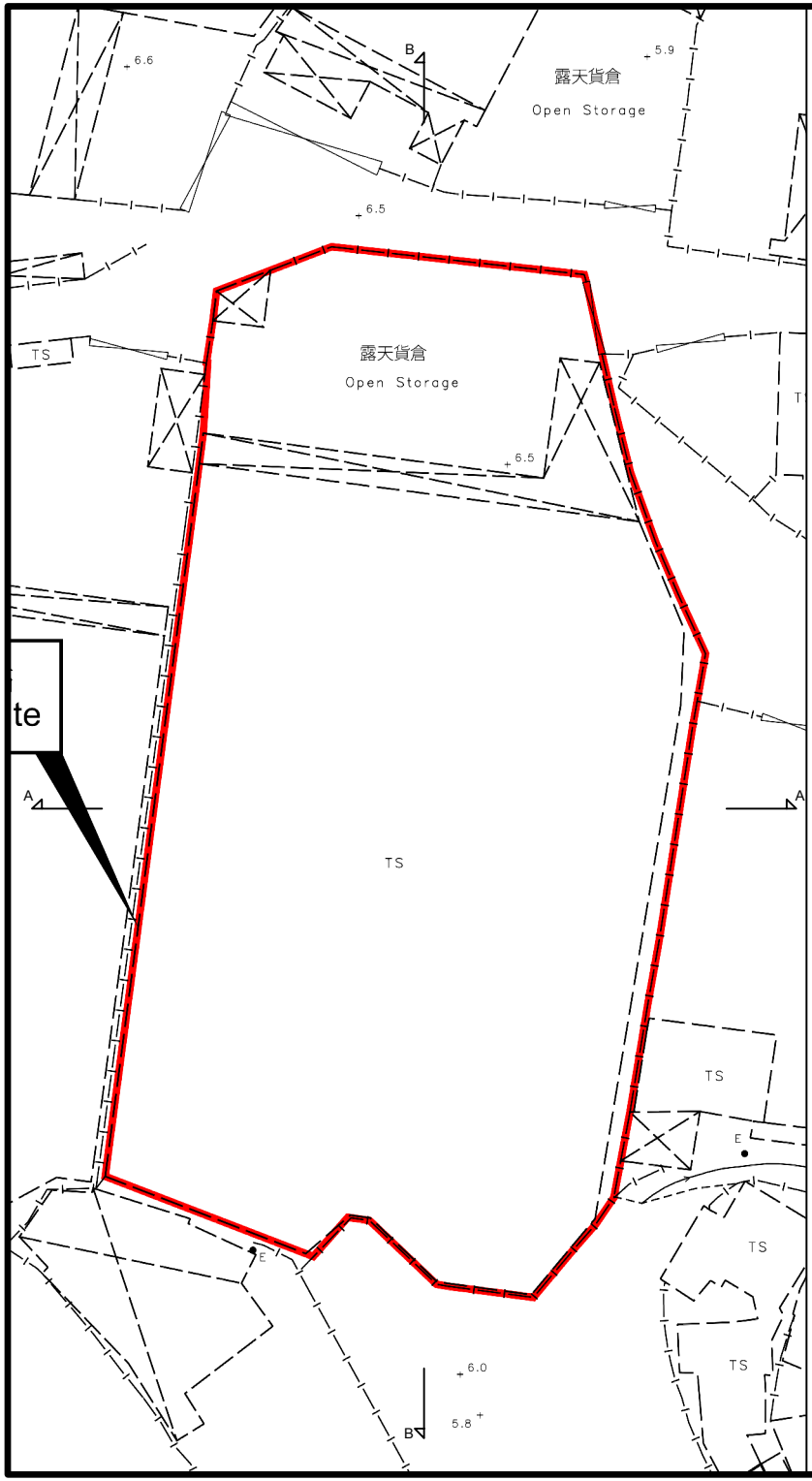
LEGEND

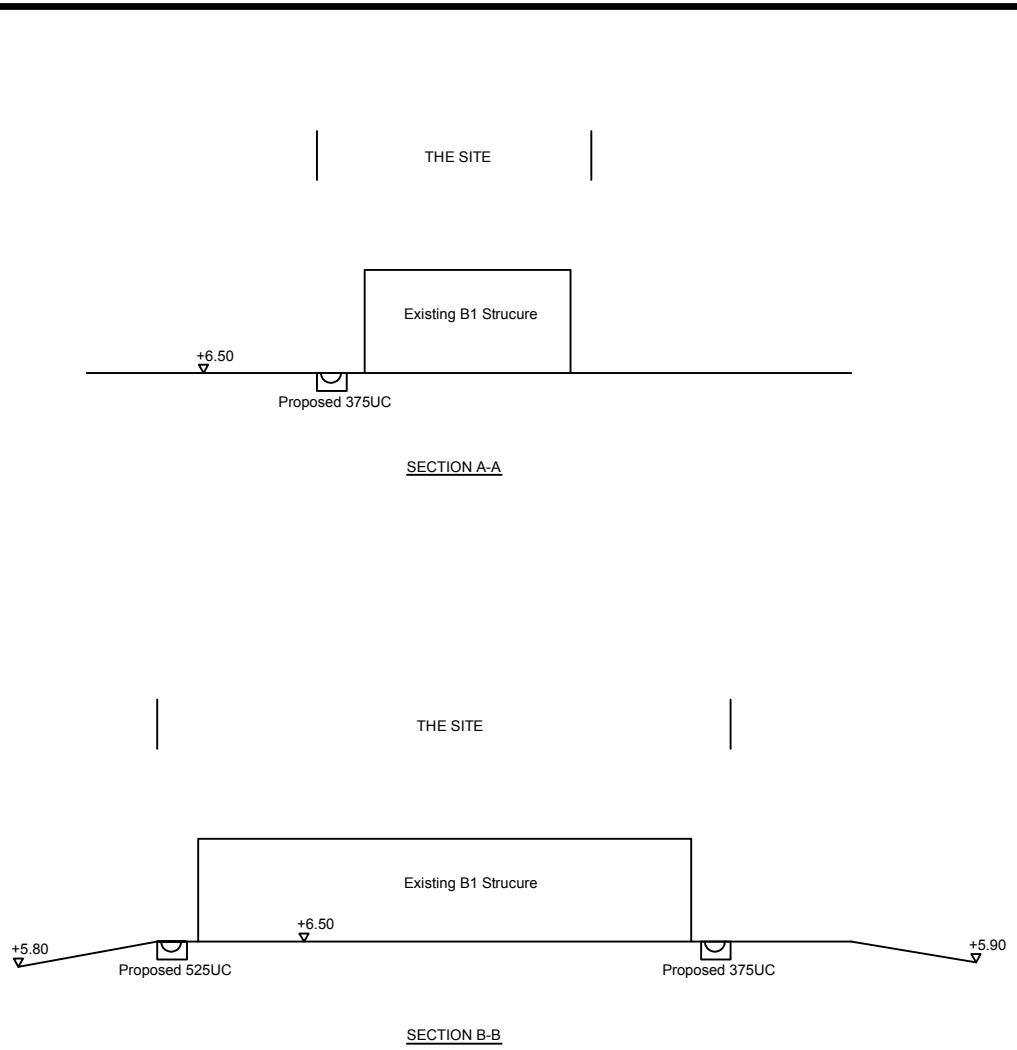
- APP
- STR
- STR

PROVISIONS

: 5
: 5 m (L) X 2.5 m (W)

VEHICLE : 2





LEGEND

(a) Proposed 375UC (1:250) with Cast Iron cover

(b) Proposed 525UC (1:150) with Cast Iron cover

(c) Proposed 600(1:100) concrete pipe

Proposed Catchpit

+18.50 Proposed Formation Level

+18.20 Existing Ground Level

Company:

正宏工程顧問公司
Ching Wan Engineering Consultants Company

PROJECT:

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years at Lots 25 (Part), 26 (Part), 27 (Part), 28 (Part), 29, 30, 31, 32 (Part), 33 (Part), 34 (Part), 36 (Part), 70 (Part), 76 (Part), 77 (Part), 78 S.A (Part), 80 (Part) and 82 (Part) in D.D. 124 and Adjoining Government Land, Ha Tsuen, Yuen Long, New Territories

(A/HSK/424)

TITLE:

SECTIONS

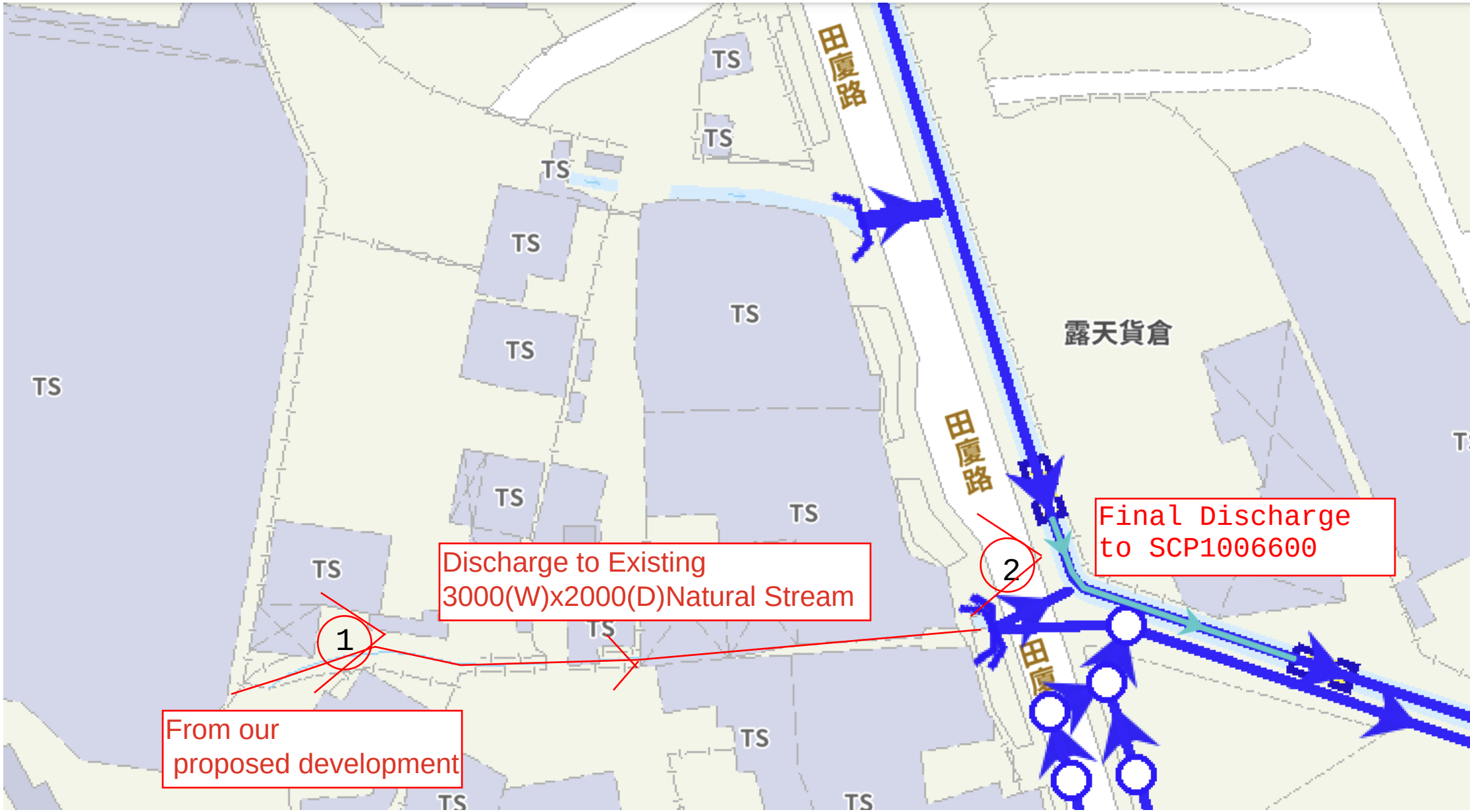
File:

DWG NO.

HSK424-D03

Scale:

Date:
15-3-2024


田慶路
田慶路
露天貨倉
TS
Final Discharge
to SCP1006600
2
Discharge to Existing
3000(W)x2000(D)Natural Stream
1
From our
proposed development

VIEW 1: Existing 3000(W)x2000(D)Natural Stream

VIEW 2: FINAL DISCHARGE POINT SCP1006600

Site Area = 3581.5 m2

Calculation of Runoff from the Proposed Development,

$Q = 0.278\ C\ i\ A$

C = 0.95 (P.42 of Stormwater Drainage Manual)

A = 3581.5 m^2

= 0.0035815 km^2

take i = 250 mm/hr

Therefore, Q = 0.278*0.95*250*0.0035815

= 0.236 m^3/sec

= 14188 lit/min

Calculation Maximum Capacity of Proposed 500(W)x275(D) Gutter

Manning Equation $V = R^{2/3}*S_f^{0.5}/n$

W= 0.5 mm

where $R = (WxD)/(2D+W)$ D= 0.275 m

= 0.131 m

n = 0.012 $s/m^{1/3}$ (Table 13 of Stormwater Drainage Manual)

1/ 150 S_f = 0.0067

Therefore, $V = 0.131^{2/3}*0.0067^{0.5}/0.012$

= 1.755 m/sec

Maximum Capacity (Q_{max}) = V*A

= 1.755*0.5*0.275

= 0.241 m^3/sec

1 nos of Gutter = 0.241 m^3/sec

= 14476 lit/min

> 14188 lit/min

Provide 500(W)x275(D) Gutter (1:150) is OK

Site Area = 9293 m2

Calculation of Runoff from the Proposed Development,

$Q = 0.278\ C\ i\ A$

	C	= 0.95		(P.42 of Stormwater Drainage Manual)
	A	= 9293	m^2	
		= 0.009293	km^2	
take	i	= 250	mm/hr	
Therefore,	Q	= 0.278*0.95*250*0.009293		
		= 0.614	m^3/sec	
		= 36814	lit/min	

Calculation Maximum Capacity of Proposed 600mm dia. Underground pipe.

Manning Equation	V	= $R^{2/3}*S_f^{0.5}/n$		
			dia	600 mm
where	R	= $\pi r^2/2\pi r$	r=	0.3 m
		= r/2		
		= 0.15	m	
	n	= 0.012	$s/m^{1/3}$	(Table 13 of Stormwater Drainage Manual)
1/ 100	S_f	= 0.01		
Therefore,	V	= $0.15^{2/3}*0.01^{0.5}/0.012$		
		= 2.353	m/sec	
Maximum Capacity (Q_{max})		= V*A		
		= $2.353*\pi r^2$		
		= 0.665	m^3/sec	
1 nos of pipe		= 0.665	m^3/sec	
		= 39911	lit/min	
		> 36814	lit/min	

Provide 600mm dia underground pipe (1:100) is OK

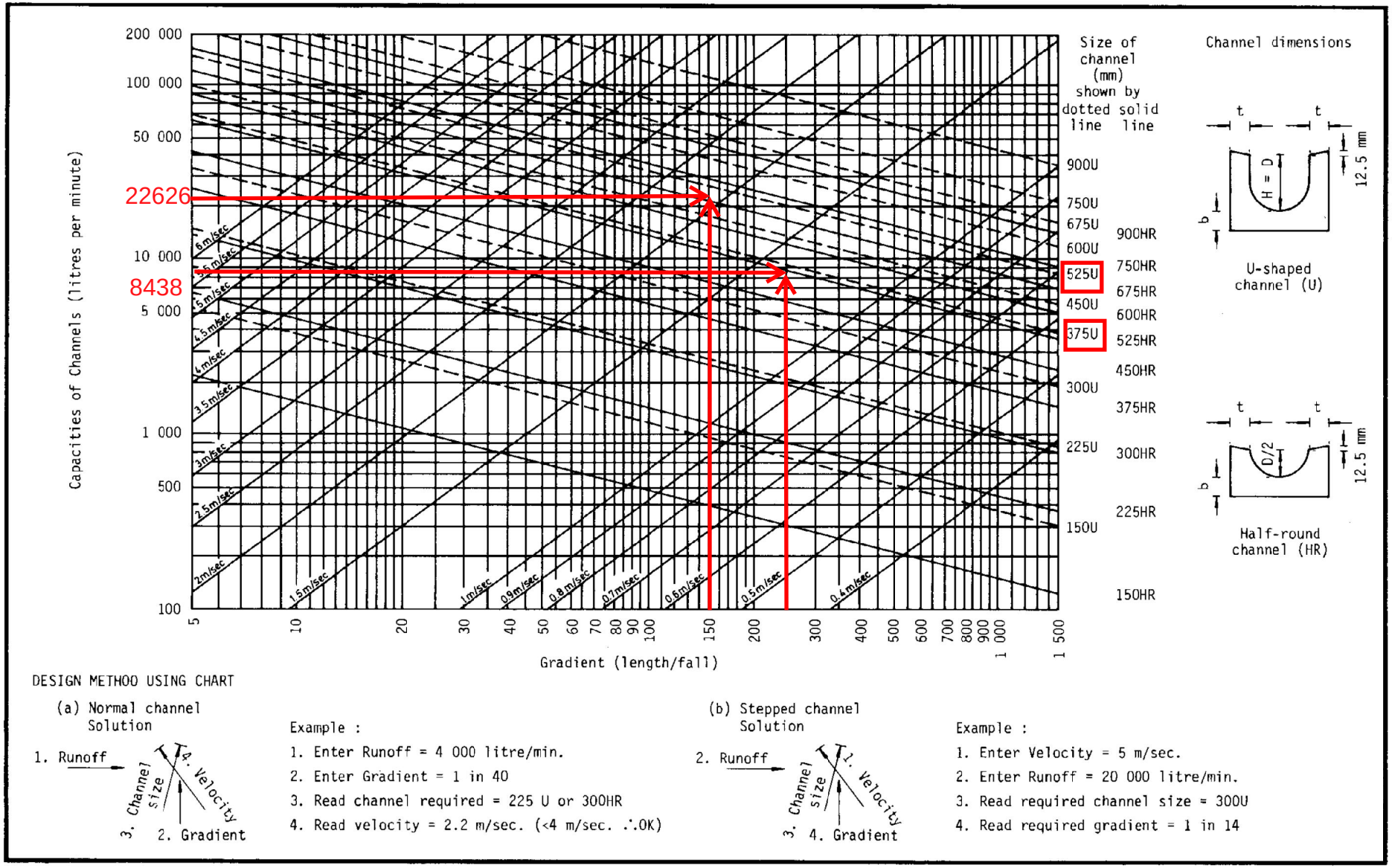
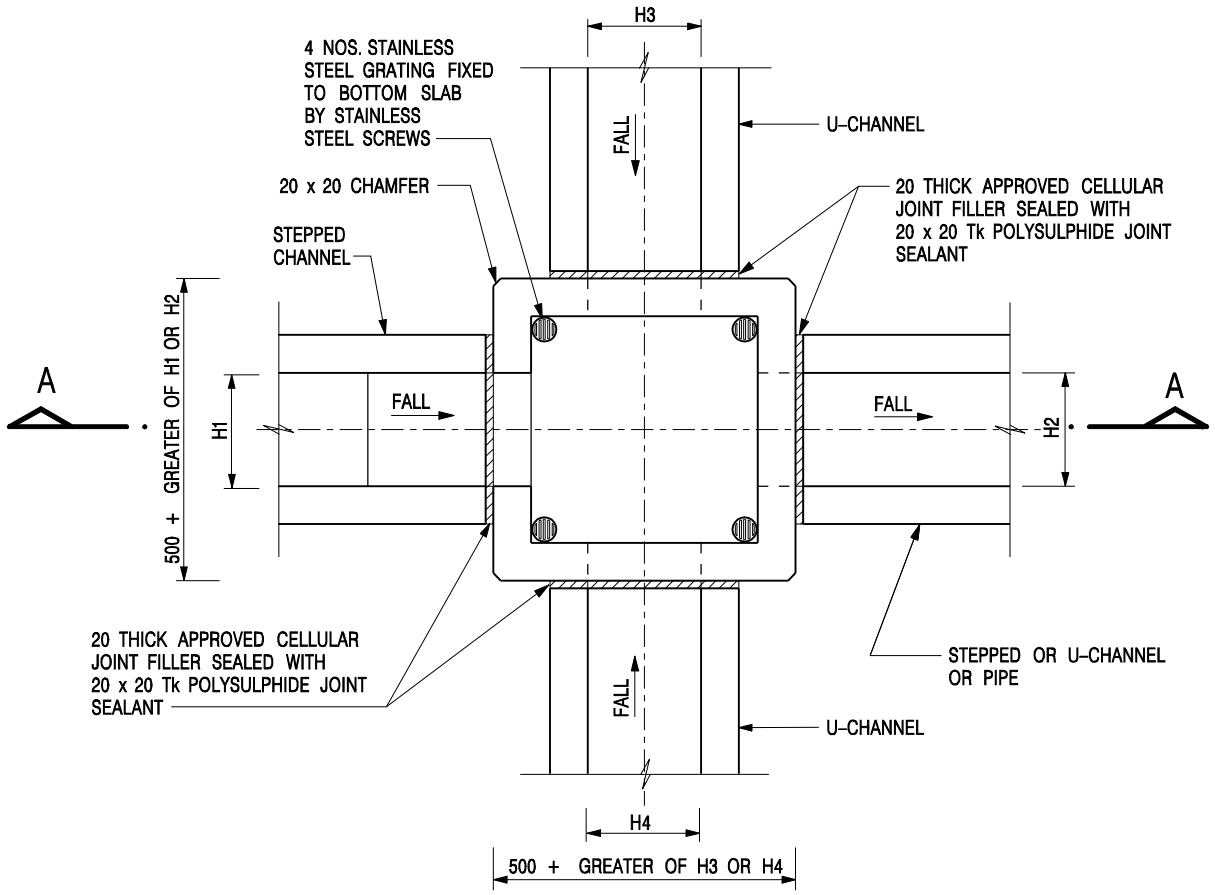
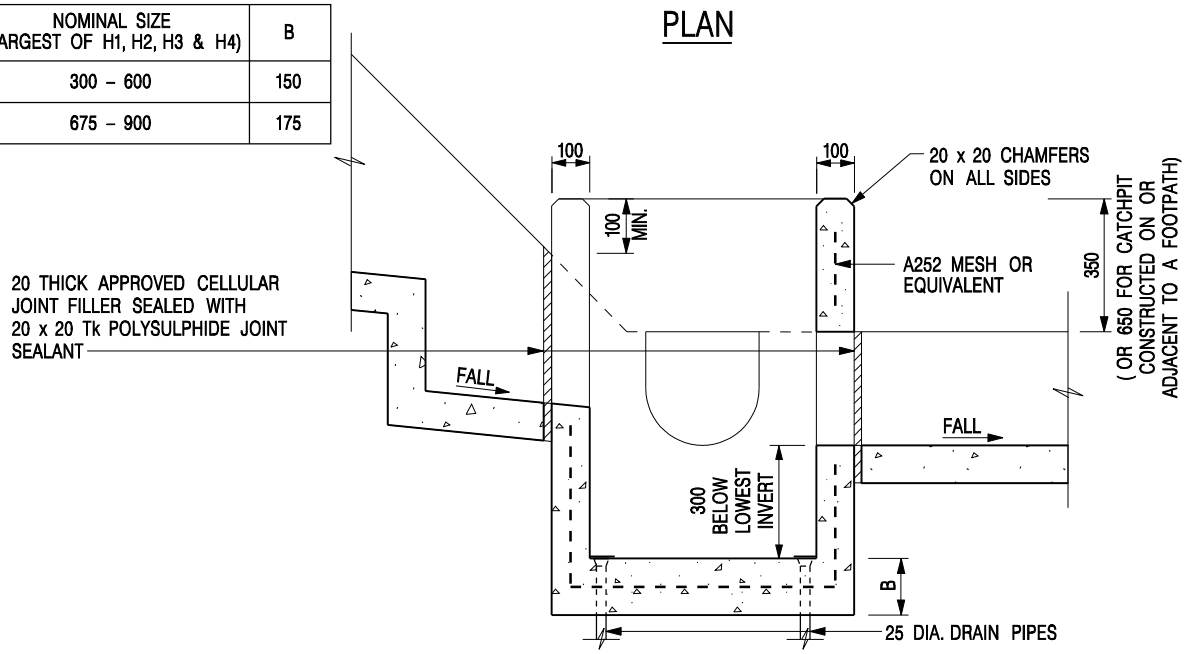


Figure 8.7 - Chart for the Rapid Design of Channels



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

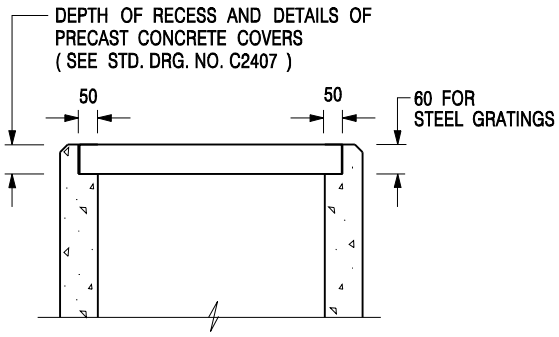
(SHEET 1 OF 2)

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DATE JAN 1991

DRAWING NO. C2406 /1



ALTERNATIVE TOP SECTION
FOR PRECAST CONCRETE COVERS / GRATINGS

NOTES:

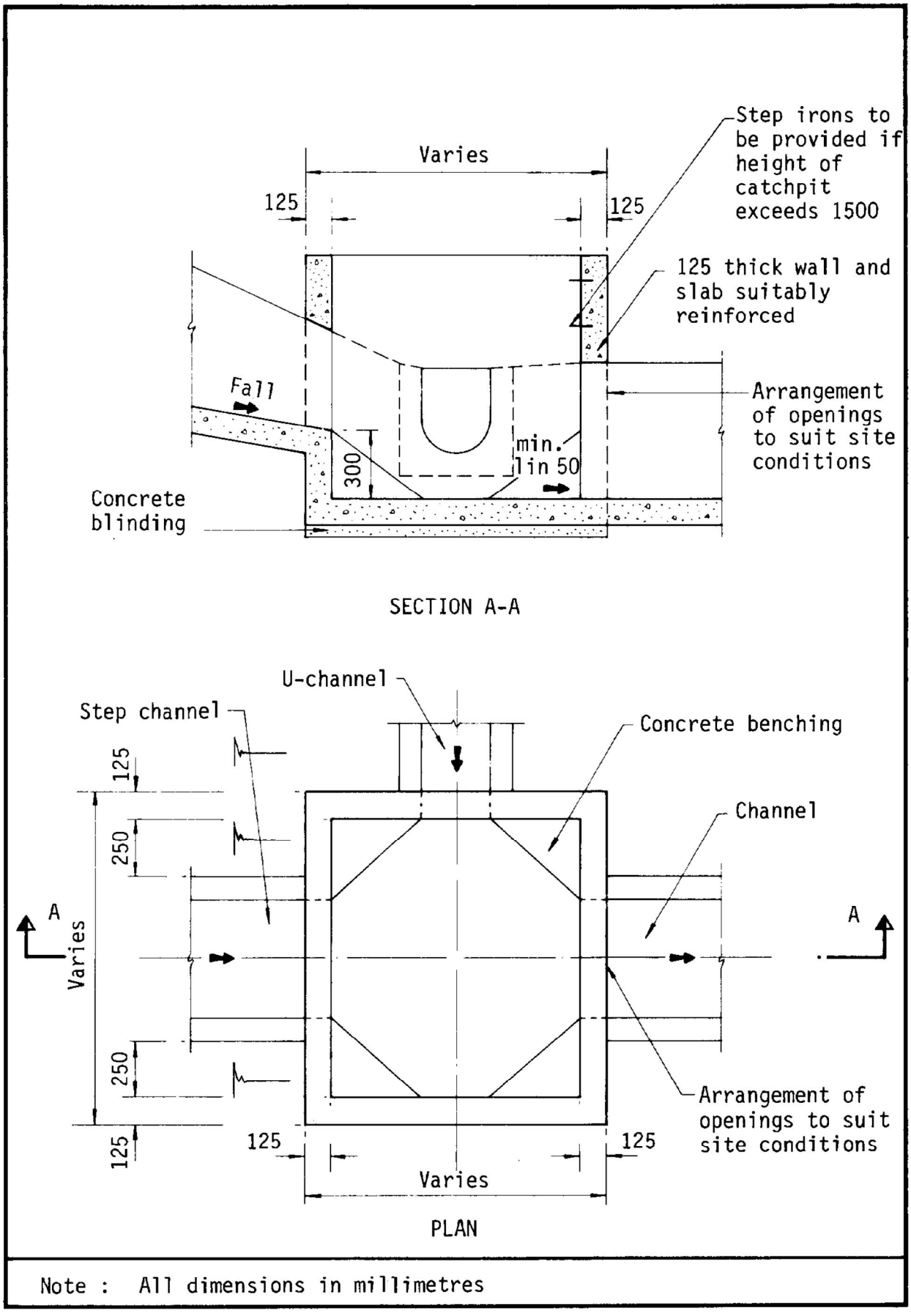
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL CONCRETE SHALL BE GRADE 20 /20.
3. CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
4. FOR DETAILS OF JOINT, REFER TO STD. DRG. NO. C2413.
5. CONCRETE TO BE COLOURED AS SPECIFIED.
6. UNLESS REQUESTED BY THE MAINTENANCE PARTY AND AS DIRECTED 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) 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 'G' ON STD. DRG. NO. C2405; 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 'F' ON STD. DRG. NO. C2405.
12. SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

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

CATCHPIT WITH TRAP
(SHEET 2 OF 2)

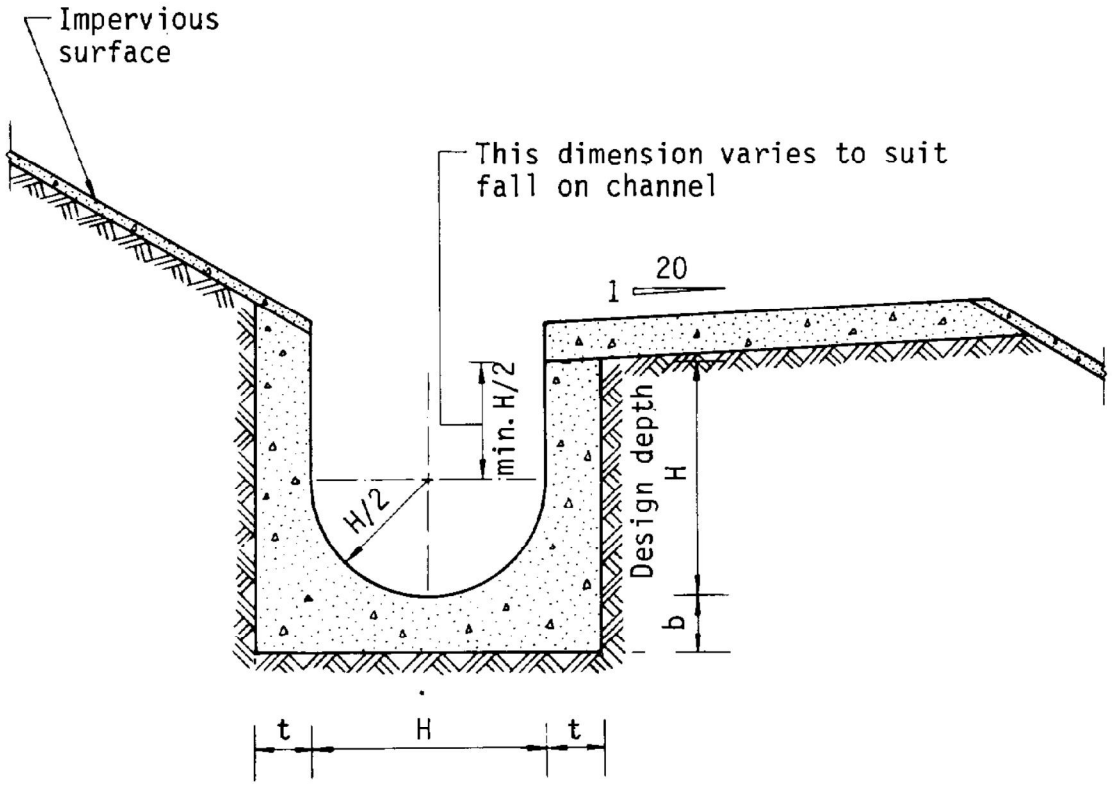
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20	DRAWING NO. C2406 /2
DATE JAN 1991	



Note : All dimensions in millimetres

Figure 8.10 - Typical Details of Catchpits

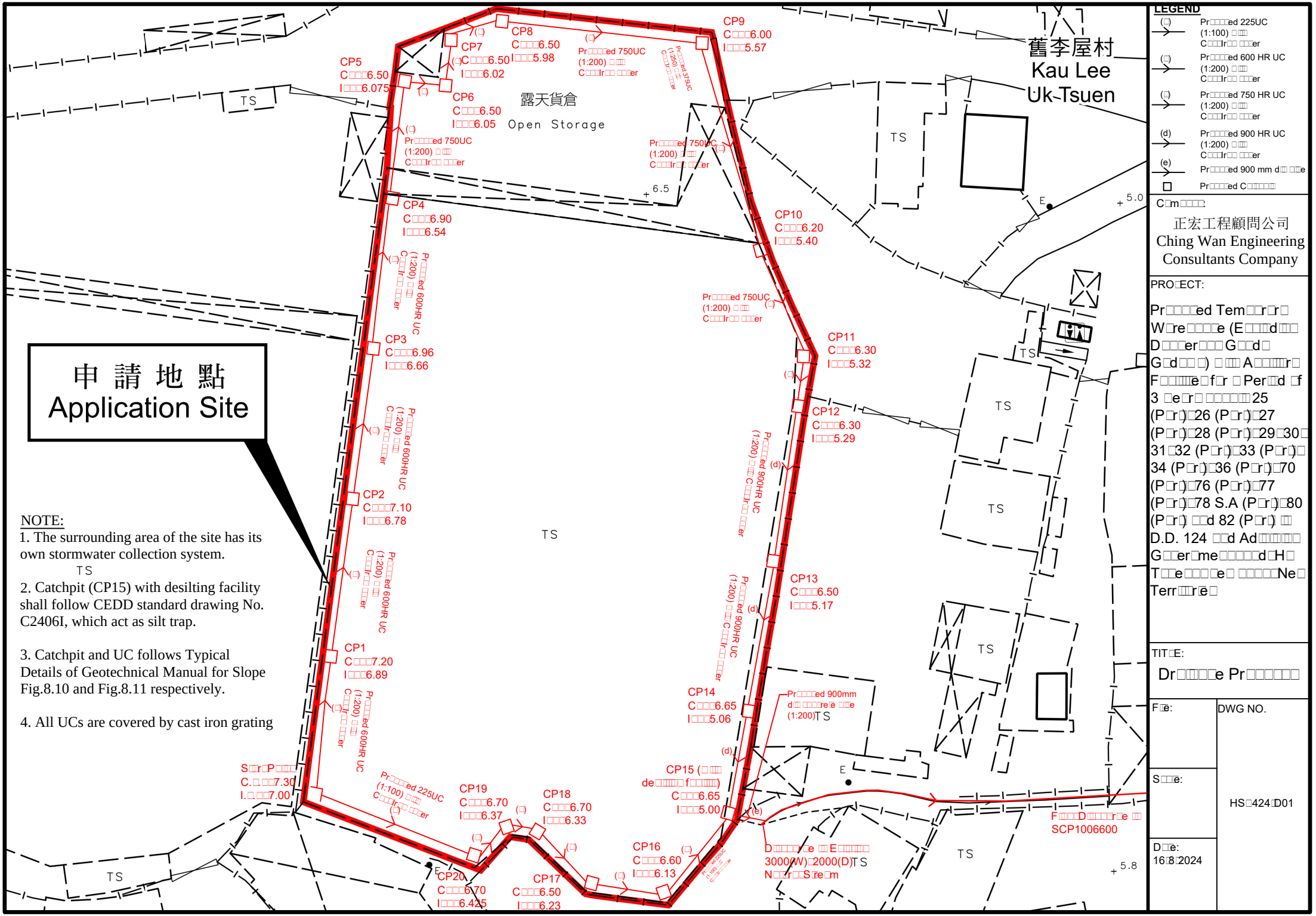


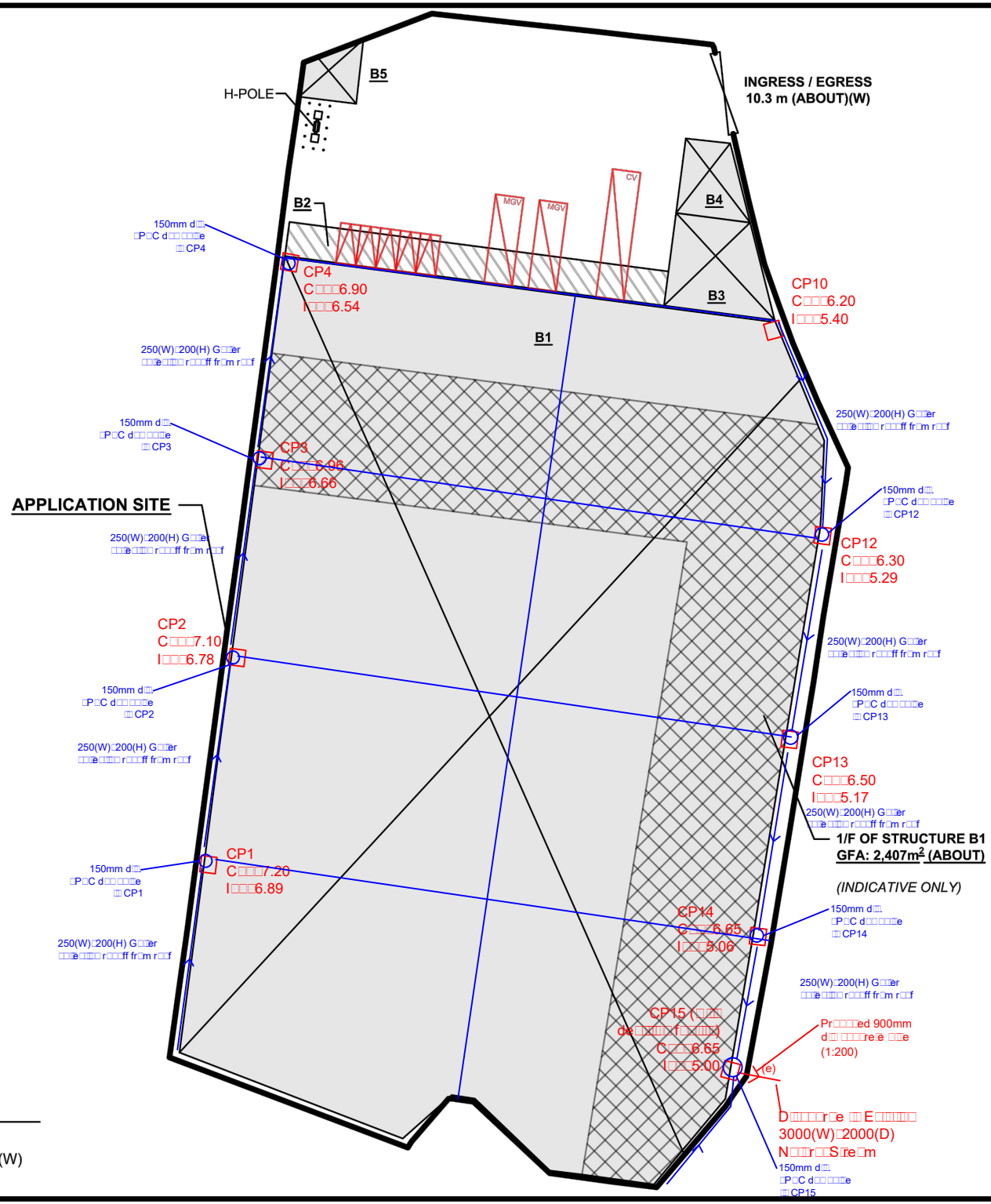
Dimensions of U - channel		
Nominal size of channel H (mm)	Thickness t (mm)	Thickness b (mm)
225 to 600	150	150
675 to 1200	175	225

Figure 8.11 - Typical U-channel Details

Appendix II

Revised Drainage Proposal


申 請 地 點
Application Site
舊李屋村
Kau Lee
Uk Tsuen
露天貨倉
Open Storage
CP1
C 7.20
I 6.89
CP2
C 7.10
I 6.78
CP3
C 6.96
I 6.66
CP4
C 6.90
I 6.54
CP5
C 6.50
I 6.075
CP6
C 6.50
I 6.05
CP7
C 6.50
I 6.02
CP8
C 6.50
I 5.98
CP9
C 6.00
I 5.57
CP10
C 6.20
I 5.40
CP11
C 6.30
I 5.32
CP12
C 6.30
I 5.29
CP13
C 6.50
I 5.17
CP14
C 6.65
I 5.06
CP15 (
C 6.65
I 5.00
CP16
C 6.60
I 6.13
CP17
C 6.50
I 6.23
CP18
C 6.70
I 6.33
CP19
C 6.70
I 6.37
CP20
C 6.70
I 6.425
S P
C. 7.30
I. 7.00
Pr ed 750UC
(1:200)
Pr ed 600HR UC
Pr ed 900HR UC
Pr ed 225UC
(1:100)
Pr ed 900mm
(1:200)TS
D E
3000(W) 2000(D)TS
F D SCP1006600
TS
E
+6.5
+5.0
+5.8
NOTE:
1. The surrounding area of the site has its own stormwater collection system.
2. Catchpit (CP15) with desilting facility shall follow CEDD standard drawing No. C2406I, which act as silt trap.
3. Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.
4. All UCs are covered by cast iron grating
LEGEND
(a) Pr ed 225UC (1:100)
(b) Pr ed 600 HR UC (1:200)
(c) Pr ed 750 HR UC (1:200)
(d) Pr ed 900 HR UC (1:200)
(e) Pr ed 900 mm d e
Pr ed C
C m:
正宏工程顧問公司
Ching Wan Engineering Consultants Company
PRO ECT:
Pr ed Tem r r W re e (E d D er G d G d) A r F e f r Per d f 3 e r 25 (P r) 26 (P r) 27 (P r) 28 (P r) 29 30 31 32 (P r) 33 (P r) 34 (P r) 36 (P r) 70 (P r) 76 (P r) 77 (P r) 78 S.A (P r) 80 (P r) d 82 (P r) D.D. 124 d Ad G er me d H T e e e Ne Terr r e
TIT E:
Dr e Pr
F e:
S e:
D e: 16 8 2024
DWG NO.
HS 424 D01



ROVISIONS

: 5
: 5 m (L) X 2.5 m (W)

S VEHICLE : 2

LEGEND

APP
STR
STR

C□m□□□□:
正宏工程顧問公司
Ching Wan Engineering Consultants Company

PRO□ECT:
Pr□□□□ed Tem□□r□r□ W□re□□□□e (E□□□□d□□□ D□□□er□□□ G□□d□ G□d□□ □) □ □□□ A□□□□□r□ F□□□□□e□f□r □Per□□d □f 3 □e□r□ □□□□□□□ 25 (P□r□)□26 (P□r□)□27 (P□r□)□28 (P□r□)□29□30□ 31□32 (P□r□)□33 (P□r□)□ 34 (P□r□)□36 (P□r□)□70 (P□r□)□76 (P□r□)□77 (P□r□)□78 S.A (P□r□)□80 (P□r□) □□d 82 (P□r□) □□ D.D. 124 □□d Ad□□□□□□□ G□□er□me□□□□□d□H□ T□□e□□□□e□ □□□□□Ne□ Terr□□r□e□

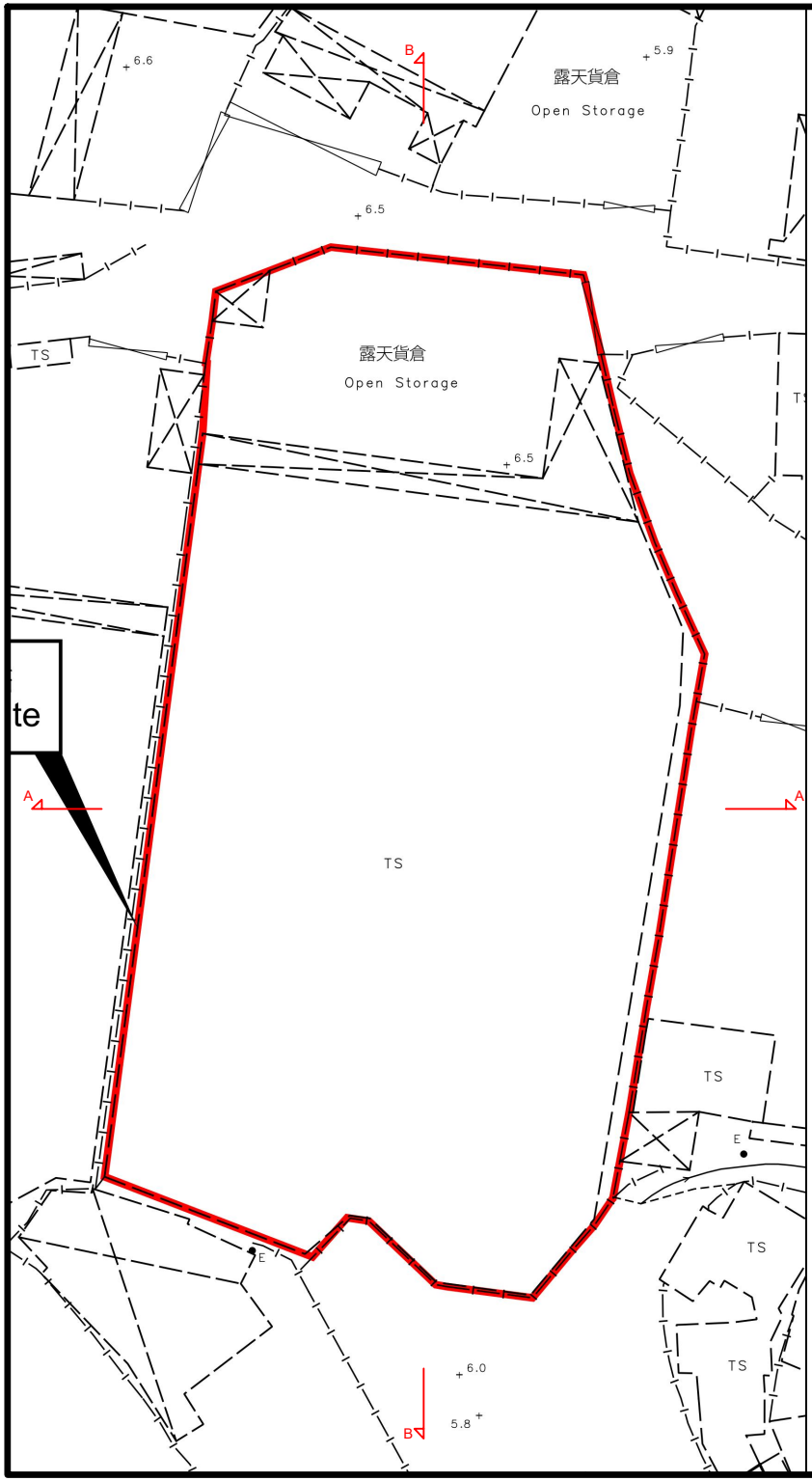
TIT□E:
C□□□□me□□P□□□

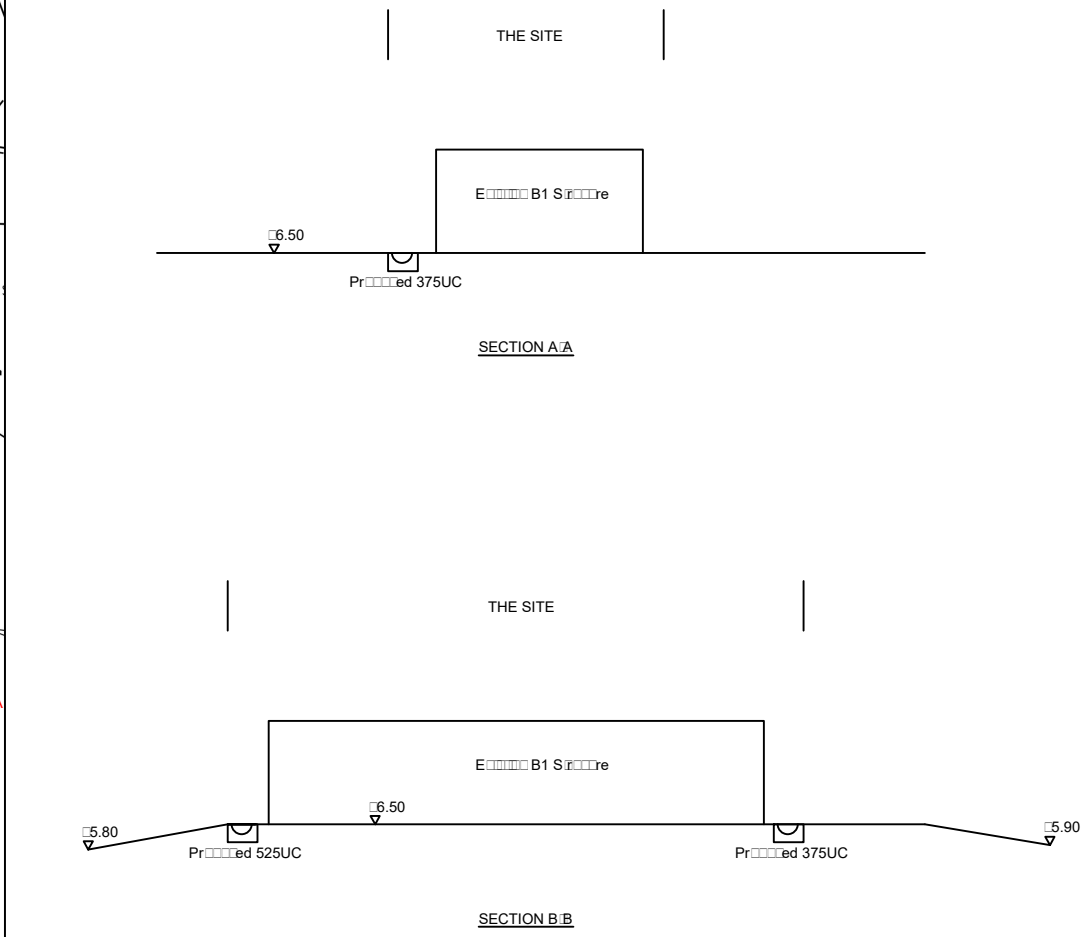
F□□e:

DWG NO.
HS□424□D02

S□□□e:

D□□e:
16□8□2024





C□m□□□□:

正宏工程顧問公司
Ching Wan Engineering Consultants Company

PRO□ECT:

Pr□□□□ed Tem□□r□r□ W□re□□□□e (E□□□d□□□ D□□□er□□□ G□□d□ G□d□□ □) □ □□ A□□□□r□ F□□□□e□f□r □Per□d □f 3 □e□r□ □□□□□□25 (P□r)□26 (P□r)□27 (P□r)□28 (P□r)□29□30□ 31□32 (P□r)□33 (P□r)□ 34 (P□r)□36 (P□r)□70 (P□r)□76 (P□r)□77 (P□r)□78 S.A (P□r)□80 (P□r) □□d 82 (P□r) □□ D.D. 124 □□d Ad□□□□□□ G□□er□me□□□□□d□H□ T□□e□□□□e□ □□□□□Ne□ Terr□□r□e□

TIT□E:

SECTIONS

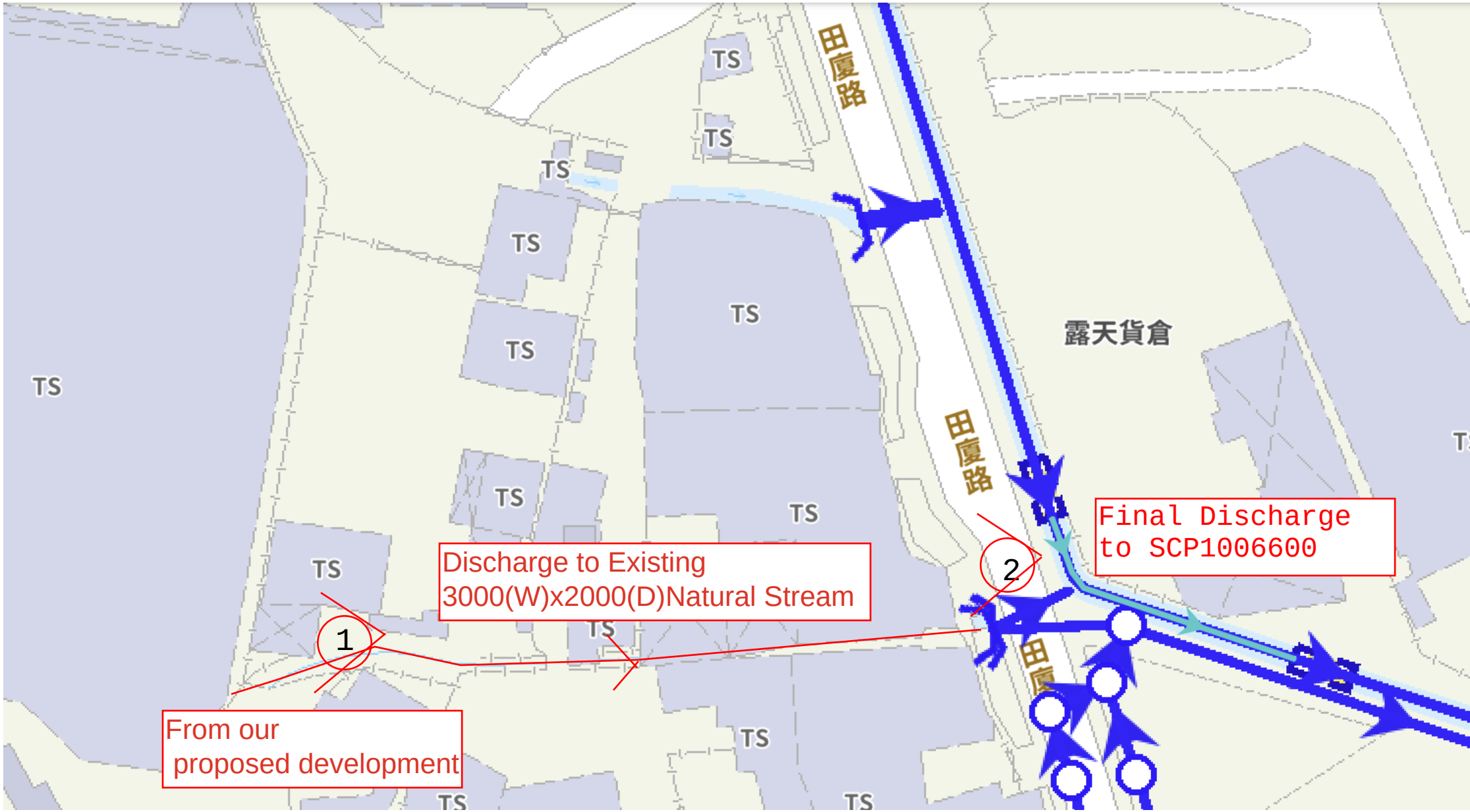
F□e:

S□□e:

D□□e:
16□8□2024

DWG NO.

HS□424□D03


田慶路
田慶路
露天貨倉
TS
Final Discharge
to SCP1006600
2
Discharge to Existing
3000(W)x2000(D)Natural Stream
1
From our
proposed development

VIEW 1: Existing 3000(W)x2000(D)Natural Stream

VIEW 2: FINAL DISCHARGE POINT SCP1006600

Site Area = 9293 m2
Warehouse Area = 7163 m2

From Start Point to CP15

Provide nominal 225UC (1:100) is Ok

From Start Point to CP4
Collect 3/8 warehouse catchment area
Calculation of Runoff from the Proposed Development

Q = 0.278 C i A

C = 0.95 (P.42 of Stormwater Drainage Manual)

A = 2686.125 m^2
= 0.0026861 km^2

take i = 250 mm/hr

Therefore, **Q** = 0.278*0.95*250*0.0026861
= 0.177 m^3/sec
= 10641 lit/min

Provide 600HR UC (1:200) is Ok

From CP4 to CP12
Collect 4/8 warehouse catchment area + vacant area (9293-7163)
Calculation of Runoff from the Proposed Development

Q = 0.278 C i A

C = 0.95 (P.42 of Stormwater Drainage Manual)

A = 5711.5 m^2
= 0.0057115 km^2

take i = 250 mm/hr

Therefore, **Q** = 0.278*0.95*250*0.0057115
= 0.377 m^3/sec
= 22626 lit/min

Provide 750 HRUC (1:200) is Ok

From CP12 to CP15
Collect 7/8 warehouse catchment area + vacant area (9293-7163)
Calculation of Runoff from the Proposed Development

Q = 0.278 C i A

C = 0.95 (P.42 of Stormwater Drainage Manual)

A = 8397.625 m^2
= 0.0083976 km^2

take i = 250 mm/hr

Therefore, **Q** = 0.278*0.95*250*0.0083976
= 0.554 m^3/sec
= 33267 lit/min

Provide 900 HR UC (1:100) is Ok

Outfall

Catchment Area = Site Area

Calculation of Runoff from the Proposed Development

	Q	=	0.278 C i A		
	C	=	0.95		(P.42 of Stormwater Drainage Manual)
	A	=	9293	m^2	
		=	0.009293	km^2	
take	i	=	250	mm/hr	
Therefore,	Q	=	0.278*0.95*250*0.009293		
		=	0.614	m^3/sec	
		=	**36814**	lit/min	

Calculation Maximum Capacity of Proposed 900mm dia. Underground pipe.

Manning Equation	V	=	$R^{2/3}*S_f^{0.5}/n$		
				dia	900 mm
where	R	=	$\pi r^2/2\pi r$	r=	0.45 m
		=	r/2		
		=	0.225	m	
	n	=	0.012	$s/m^{1/3}$	(Table 13 of Stormwater Drainage Manual)
1/ 200	S_f	=	0.005		
Therefore,	V	=	$0.225^{2/3}*0.005^{0.5}/0.012$		
		=	2.180	m/sec	
Maximum Capacity (Q_{max})		=	V*A		
		=	$2.18*\pi r^2$		
		=	1.387	m^3/sec	
1 nos of pipe		=	1.387	m^3/sec	
		=	83205	lit/min	
		>	36814	lit/min	

Provide 900mm dia underground pipe (1:100) is OK

Calculation Maximum Capacity of Proposed 250(W)x200(D) Gutter

Manning Equation	V	=	$R^{2/3}*S_f^{0.5}/n$		
				W=	0.25 mm
where	R	=	(WxD)/(2D+W)	D=	0.2 m
		=	0.077	m	
	n	=	0.012	$s/m^{1/3}$	(Table 13 of Stormwater Drainage Manual)
1/ 100	S_f	=	0.0100		
Therefore,	V	=	$0.077^{2/3}*0.01^{0.5}/0.012$		
		=	1.507	m/sec	
Maximum Capacity (Q_{max})		=	V*A		
		=	1.507*0.25*0.2		
		=	0.075	m^3/sec	
1 nos of Gutter		=	0.075	m^3/sec	
		=	4522	lit/min	
		>	#REF!	lit/min	

Provide 250(W)x200(D) Gutter (1:100) is OK

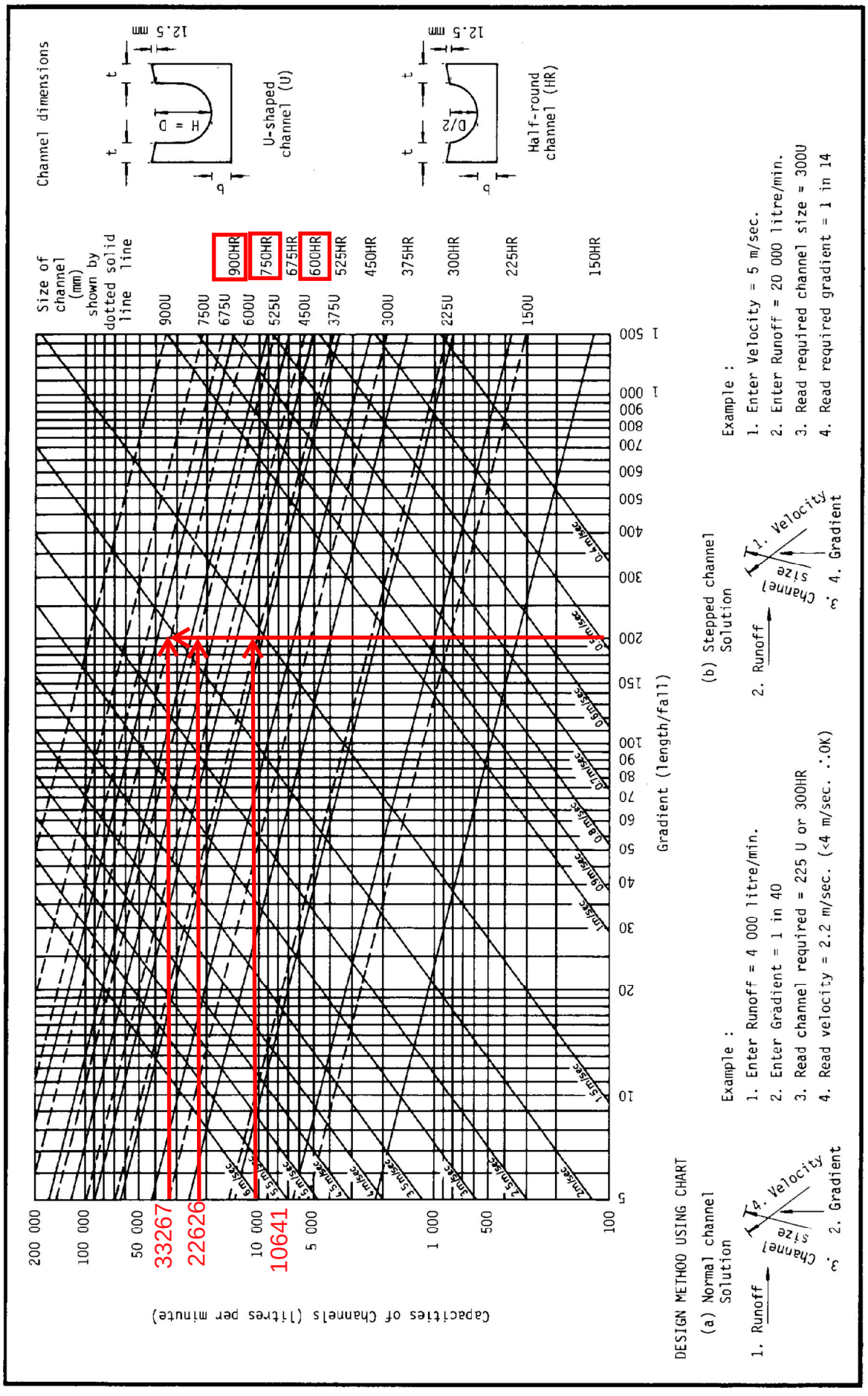
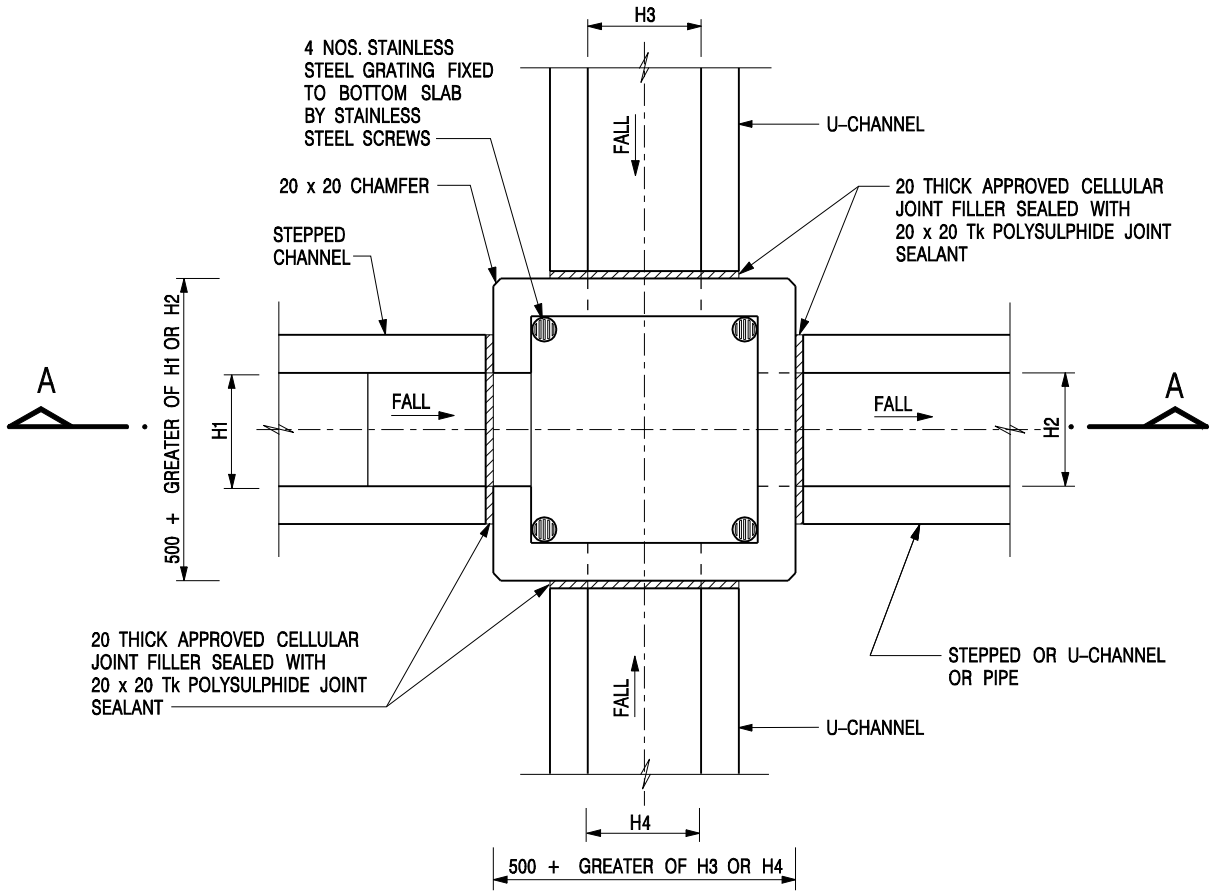
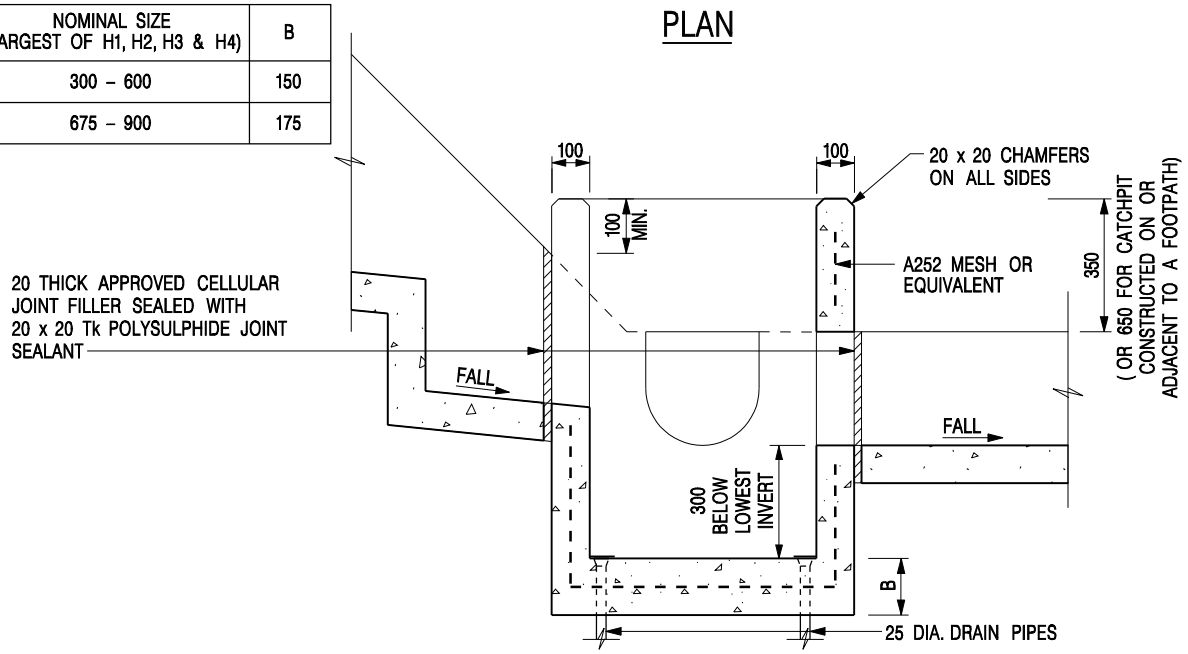


Figure 8.7 - Chart for the Rapid Design of Channels



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

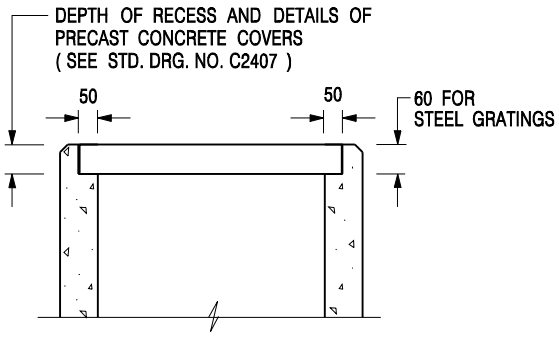
(SHEET 1 OF 2)

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DATE JAN 1991

DRAWING NO. C2406 /1



ALTERNATIVE TOP SECTION
FOR PRECAST CONCRETE COVERS / GRATINGS

NOTES:

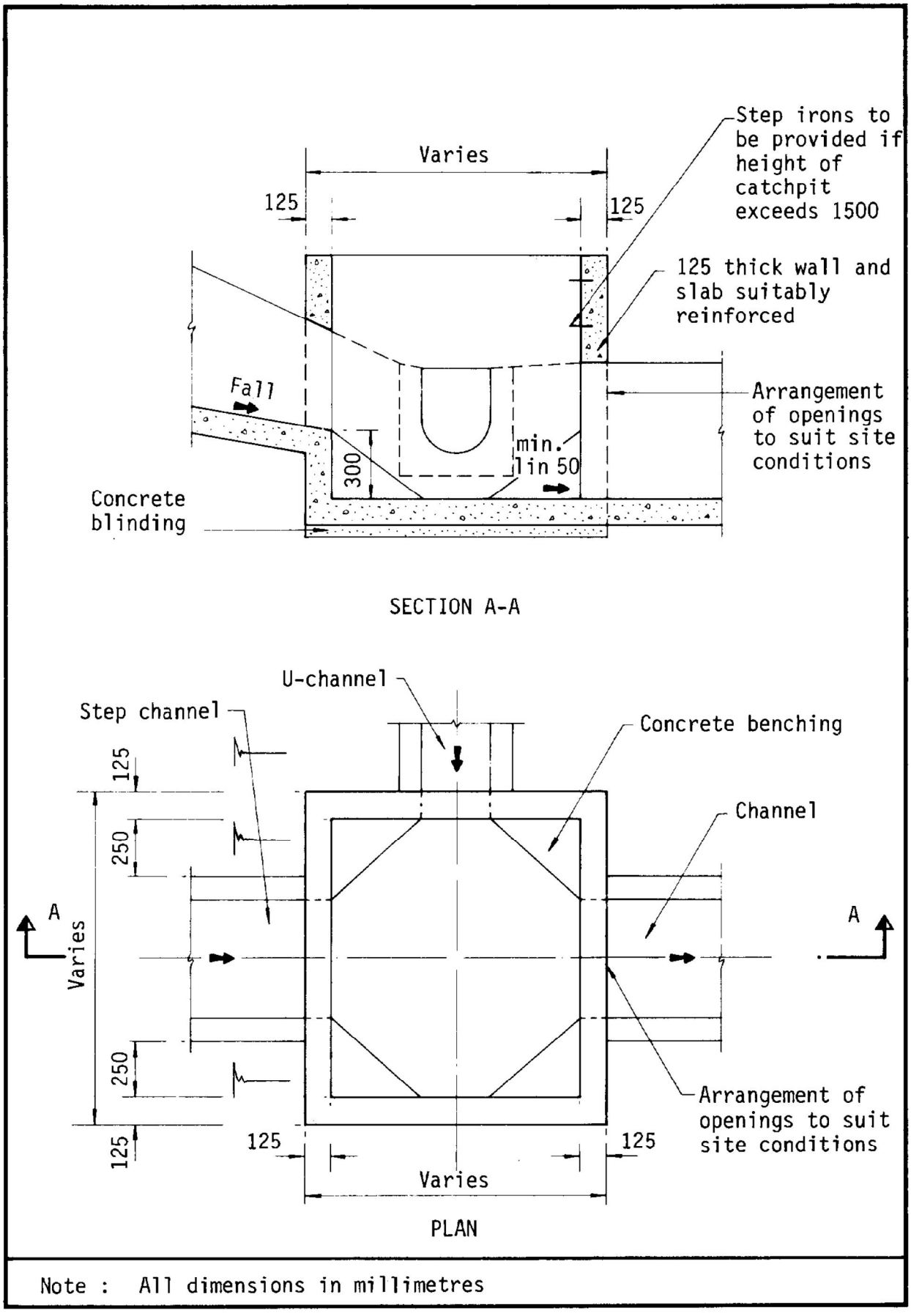
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL CONCRETE SHALL BE GRADE 20 /20.
3. CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
4. FOR DETAILS OF JOINT, REFER TO STD. DRG. NO. C2413.
5. CONCRETE TO BE COLOURED AS SPECIFIED.
6. UNLESS REQUESTED BY THE MAINTENANCE PARTY AND AS DIRECTED 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) 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 'G' ON STD. DRG. NO. C2405; 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 'F' ON STD. DRG. NO. C2405.
12. SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

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

CATCHPIT WITH TRAP
(SHEET 2 OF 2)

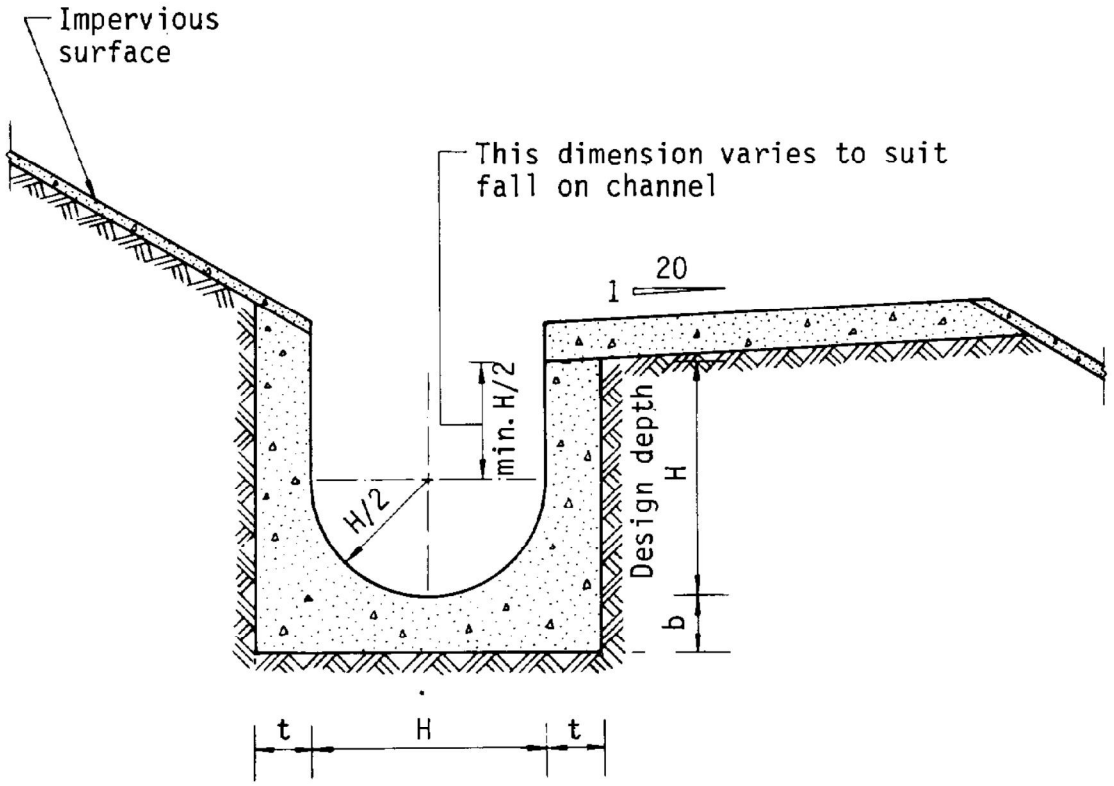
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20	DRAWING NO. C2406 /2
DATE JAN 1991	



Note : All dimensions in millimetres

Figure 8.10 - Typical Details of Catchpits



Dimensions of U - channel		
Nominal size of channel H (mm)	Thickness t (mm)	Thickness b (mm)
225 to 600	150	150
675 to 1200	175	225

Figure 8.11 - Typical U-channel Details

Appendix III

The Accepted Fire Service Installations Proposal of the Previous Application No. A/HSK/424

By Fax (2323 3662) and Post

規劃署

屯門及元朗西規劃處
香港新界沙田上禾輋路1號
沙田政府合署14樓

Planning Department

Tuen Mun and Yuen Long West
District Planning Office
14/F., Sha Tin Government Offices,
1 Sheung Wo Che Road, Sha Tin,
N.T. Hong Kong

26 April 2024

來函檔號 Your Reference
本署檔號 Our Reference ( ) in TPB/A/HSK/424
電話號碼 Tel. No.: 2158 6294
傳真機號碼 Fax No.: 2489 9711

[redacted]

Dear Sir/ Madam,

Compliance with Approval Condition (d)
Planning Application No. A/HSK/424

I refer to your submission dated 15.4.2024 regarding the submission of a fire service installations proposal for compliance with captioned approval condition. The relevant department has been consulted on your submission. Your submission is considered:

☑ Acceptable. The captioned condition has been complied with. Detailed departmental comments are at **Appendix I**.

☐ Acceptable. Since the captioned condition requires both the submission and implementation of the proposal, it has not been fully complied with. Please proceed to implement the accepted proposal for full compliance with the approval condition.

☐ Not acceptable. The captioned condition has not been complied with.

Should you have any queries on the departmental comments, please contact Mr. YUEN Tsz-fung (Tel: 2733 7781) of the Fire Services Department direct.

Yours faithfully,

(Ms. Charlotte LAM)
for District Planning Officer/
Tuen Mun and Yuen Long West
Planning Department

c.c.
D of FS (Attn: Mr. CHEUNG Wing Hei)

Internal
CTP/TPB2

Appendix I

A/HSK/424 – Compliance with Approval Condition (d)

Comments from the Fire Services Department:

(i) Please be advised that the installation/maintenance/modification/repair work of Fire Service Installations shall be undertaken by a Registered Fire Service Installation Contractor (RFSIC). The RFSIC shall after completion of the installation/maintenance/modification/repair work issue to the person on whose instruction the work was undertaken a certificate (F.S. 251) and forward a copy of the certificate to the Director of Fire Services.

R-Riches
Property Consultants Ltd.

盈卓物業
顧問有限公司

Our Ref. : DD124 Lot 25 & VL
Your Ref. : TPB/A/HSK/424

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

By Email

15 April 2024

Dear Sir,

Compliance with Approval Condition (d)

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years in "Village Type Development" and "Open Space" Zone, Various Lots in D.D. 124 and Adjoining Government Land, Ha Tsuen, Yuen Long, New Territories

(S.16 Planning Application No. A/HSK/424)

`

We are writing to submit a revised fire service installations (FSIs) proposal for compliance with approval condition (d) of the subject application, i.e. *the submission of a FSIs proposal* (**Appendix I**).

Should you require more information regarding the application, please contact our Ms. Ron LEUNG at (852) [redacted] or the undersigned at your convenience. Thank you for your kind attention.

Yours faithfully,

For and on behalf of
R-riches Property Consultants Limited

Matthew NG
Planning and Development Manager

cc DPO/TMYLW, PlanD (Attn.: Ms. Moon KOK email: mlkok@pland.gov.hk)

[redacted]

F.S.NOTES:

1. GENERAL

1.1 FIRE SERVICE INSTALLATIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE CODES OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT AND INSPECTION, TESTING AND MAINTENANCE OF INSTALLATIONS AND EQUIPMENT 2022 (COP 2022), FSD CIRCULAR LETTERS AND THE HONG KONG WATERWORKS STANDARD REQUIREMENTS.

1.2 ALL TUBES AND FITTINGS SHALL BE G.M.S. TO BS1387 MEDIUM GRADE WHERE PIPEWORK UP TO ø150mm.

1.3 ALL TUBES AND FITTINGS SHALL BE DUCTILE IRON TO BS EN545 K12 WHERE PIPEWORK ABOVE ø150mm.

1.4 ALL DRAIN PIPES SHALL BE DISCHARGED TO A CONSPICUOUS POSITION WITHOUT THE POSSIBILITY OF BEING SUBMERGED.

1.5 ALL PUDDLE FLANGES SHALL BE MADE OF DUCTILE IRON

1.6 THE AGGREGATE AREA OF OPENABLE WINDOWS NOT LESS THAN 6.25% OF THE FLOOR AREA OF THE STRUCTURE

1.7 VENTILATION/AIR CONDITIONING SYSTEM NOT TO BE PROVIDED.

2. HOSE REEL SYSTEM

2.1 NEW FIRE HOSE REEL SHALL BE PROVIDED AS INDICATED ON PLAN TO ENSURE THAT EVERY PART OF THE BUILDING CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30m HOSE REEL TUBING.

2.2 THE WATER SUPPLY FOR HOSE REEL SYSTEM WILL BE FED FROM A NEW $2m^3$ F.S. FIBREGLASS WATER TANK VIA TWO HOSE REEL PUMPS (DUTY/STANDBY) LOCATED INSIDE FS PUMP ROOM AT EXTERNAL AREA.

2.3 HOSE REEL PUMPS SHALL BE STARTED BY ACTUATION OF ANY BREAKGLASS UNIT FITTED ASIDE EACH HOSE REEL SETS

2.4 ALL FIRE HOSE REEL OUTLETS SHOULD BE HOUSED IN GLASS FRONTED CABINET SECURED UNDER LOCK & KEY.

2.5 ALL FIRE HOSE REEL SHOULD BE PROVIDED WITH FSD APPROVED TYPE INSTRUCTION PLATE & WSD WARNING PLATE

2.6 SECONDARY ELECTRICITY SUPPLY DIRECTLY TEE OFF BEFORE CLP'S INCOMING MAIN SWITCH SHALL BE PROVIDED FOR THE FS PUMPS.

3. AUTOMATIC SPRINKLER SYSTEM

3.1 NEW AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LPC RULES FOR AUTOMATIC SPRINKLER INSTALLATIONS INCORPORATING BS EN 12845: 2015 (INCLUDING TECHNICAL BULLETINS, NOTES, COMMENTARY AND RECOMMENDATIONS) AND FSD CIRCULAR LETTER NO. 5/2020. THE CLASSIFICATION OF THE OCCUPANCIES WILL BE ORDINARY HAZARD GROUP III.

3.2 ONE NEW $135m^3$ SPRINKLER WATER TANK WILL BE PROVIDED AS INDICATED ON PLAN. THE TOWN MAIN WATER SUPPLY WILL BE FED FROM SINGLE END.

3.3 TWO NEW SPRINKLER PUMPS (DUTY/STANDBY) AND ONE JOCKEY PUMP SHALL BE PROVIDED IN FS PUMP ROOM LOCATED AT EXTERNAL AREA.

3.4 NEW SPRINKLER CONTROL VALVE SET AND SPRINKLER INLET SHALL BE PROVIDED AS INDICATED ON PLAN.

3.5 A TEST VALVE SHALL BE PROVIDED FOR EACH ZONE OF SPRINKLER PIPE. THIS VALVE SHALL BE AT A CONSPICUOUS POSITION THAT WATER CAN BE DRAINED AWAY EASILY.

3.6 ALL SUBSIDIARY STOP VALVES TO BE ELECTRIC MONITORING TYPE.

3.7 ALL ELECTRIC TYPE VALVES SHOULD GIVE VISUAL SIGNALS TO FIRE SERVICE MAIN SUPERVISORY CONTROL PANEL TO INDICATE THE STATUS (OPEN/CLOSE) OF THE VALVES.

3.8 SECONDARY ELECTRICITY SUPPLY DIRECTLY TEE OFF BEFORE CLP'S INCOMING MAIN SWITCH SHALL BE PROVIDED FOR THE SPRINKLER PUMPS.

3.9 THE SPRINKLER SYSTEM DESIGN IS BASED ON THE FOLLOWINGS:
HAZARD CLASS : ORDINARY HAZARD GROUP III
TYPE OF STORAGE : POST-PALLET (ST2)
STORAGE CATEGORY : CATEGORY I
MAXIMUM STORAGE HIEGHT : 3.5m
SPRINKLER PROTECTION : CEILING PROTECTION ONLY
MAXIMUM STORAGE AREA : $50m^2$
MINIMUM CLEARANCE AROUND : 2.4m

4. FIRE ALARM SYSTEM

4.1 NEW FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH BS 5839-1:2017 +A2:2008 AND FSD CIRCULAR LETTERS NO. 6/2021.

4.2 NEW BREAKGLASS UNITS AND FIRE ALARM BELLS SHALL BE PROVIDED AT ALL NEW FIRE HOSE REEL POINTS. THE FIRE ALARM INTALLATION WILL BE INTEGRATED WITH THE HOSE REEL SYSTEM.

5. EMERGENCY LIGHTING

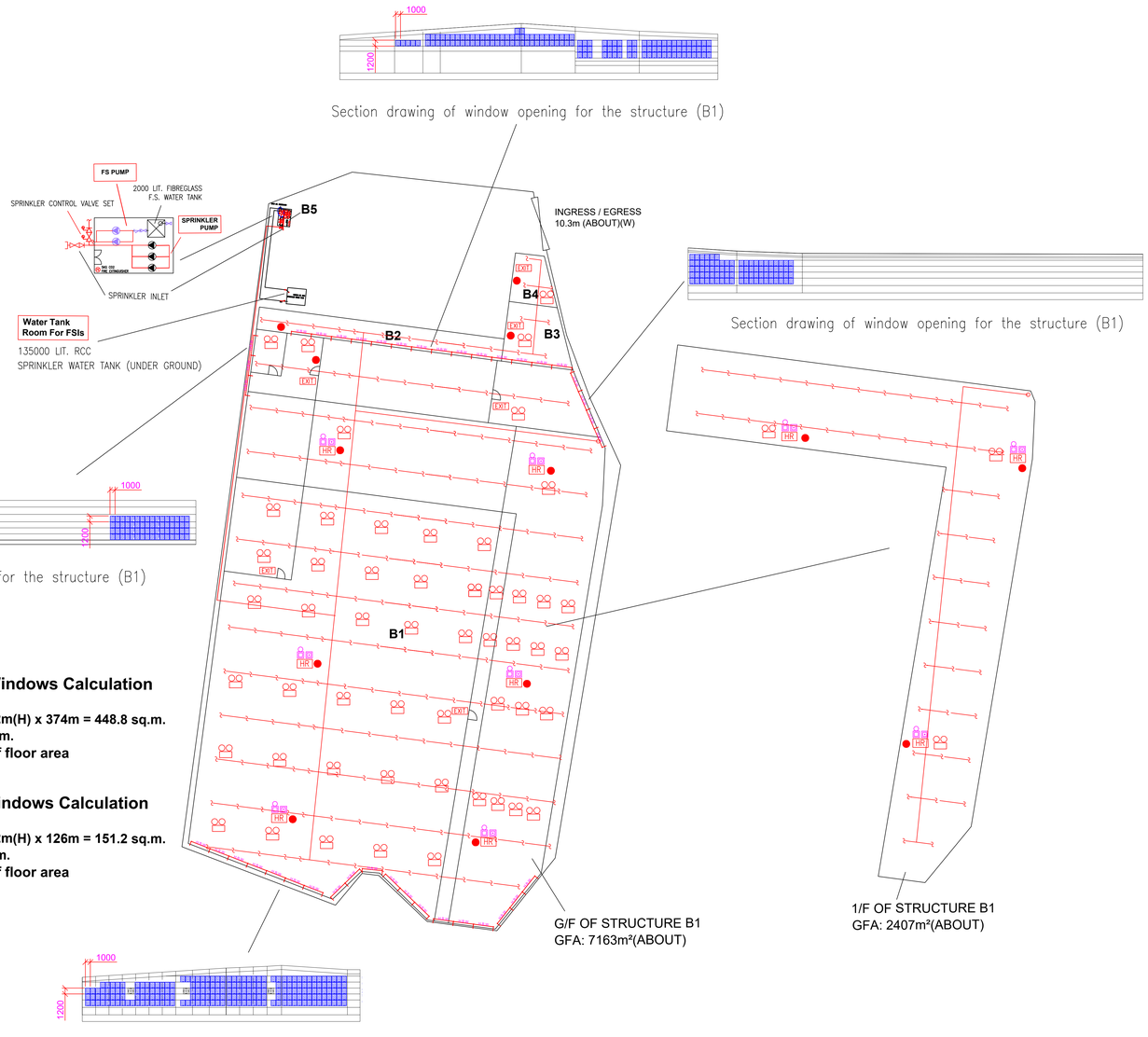
5.1 EMERGENCY LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH "BS 5266-1 :2016 AND BS EN 1838 :2013", AND FSD CIRCULAR LETTERS NO. 4/2021. COVERING ALL AREA. EMERGENCY LIGHTINGS SHALL BE BACKED UP BY BUILT-IN BATTERY AND CAPABLE OF MAINTAINING FUNCTION OF NOT LESS THAN 2 HOURS IN CASE OF POWER FAILURE

6. EXIT SIGN

6.1 ALL EXIT SIGNS/DIRECTIONAL EXIT SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH "BS 5266-1 :2016 AND FSD CIRCULAR LETTER NO. 5/2008, FOR THE BUILDING. EXIT SIGNS/DIRECTIONAL EXIT SIGNS SHALL BE BACKED UP BY BUILT-IN BATTERY AND CAPABLE OF MAINTAINING FUNCTION OF NOT LESS THAN 2 HOURS IN CASE OF POWER FAILURE.

7. PORTABLE APPLIANCES

7.1 PORTABLE HAND OPERATED APPLIANCES SHALL BE PROVIDED AS INDICATED ON PLAN.



GF of Structure B1 Openable Windows Calculation
Area of GF Structure B1 = 7163 sq.m.
Area of High Bay Window (H.B.W.) = 1.2m(H) x 374m = 448.8 sq.m.
Total openable window area = 448.8 sq.m.
= 6.26% of floor area

1F of Structure B1 Openable Windows Calculation
Area of 1F Structure B1 = 2407 sq.m.
Area of High Bay Window (H.B.W.) = 1.2m(H) x 126m = 151.2 sq.m.
Total openable window area = 151.2sq.m.
= 6.28% of floor area

LEGEND

HR HOSE REEL
BREAK GLASS UNIT
FIRE ALARM BELL
EMERGENCY LIGHT
EXIT EXIT SIGN
SUBSIDIARY VALVE / FLOW SWITCH
FE 5KG CO2 FIRE EXTINGUISHER
SPRINKLER CONTROL VALVE SET
SPRINKLER INLET
5KG DRY POWDER FIRE EXTINGUISHER
SPRINKLER HEAD (ON PLAN)
PUMP SET

STRUCTURE	Uses	Covered Area	GFA	Building Height
B1	WAREHOUSE (EXCL. D.G.G.*)	7163m²	9570m²	11 m (ABOUT)(2-STOREY)
B2	RAIN SHELTER FOR L/UL	203m²	203m²	7 m (ABOUT)(1-STOREY)
B3	SITE OFFICE	134m²	268m²	8 m (ABOUT)(2-STOREY)
B4	CARETAKER OFFICE AND WASHROOM	71m²	71m²	5 m (ABOUT)(1-STOREY)
B5	PUMP ROOM	44m²	44m²	7 m (ABOUT)(1-STOREY)
	Total:	7615m²	10156m²	

*D.G.G.-DANGEROUS GOODS GODOWN

PROJECT :
TEMPORARY WAREHOUSE (EXCLUDING DANGEROUS GOODS GODOWN) WITH ANCILLARY FACILITIES FOR A PERIOD OF 3 YEARS LOTS 25 (PART), 26 (PART), 27 (PART), 28 (PART), 29, 30, 31, 32 (PART), 33 (PART), 34 (PART),36 (PART), 70 (PART), 76 (PART), 77 (PART), 78 S.A (PART), 80 (PART) AND 82 (PART) IN D.D.124 AND ADJOINING GOVERNMENT LAND, HA TSUEN, YUEN LONG, NEW TERRITORIES

DRAWING TITLE :
F.S. Notes, Legend, Fire Service Installation Layout Plan

REV	DESCRIPTION	DATE

ARCHITECT :

CONSULTANT :

FIRE SERVICE CONTRACTOR :
Century Fire Service Engineering Co., Ltd.

	NAME	DATE
DRAWN BY	C.K.NG	13 Apr 2024
CHECKED BY		
APPROVED BY		

DRAWING NO : **FS-01**
REV. **0**
SCALE : 1 : 400 (A0)
SOURCE : B.O.O. Ref. BD
F.S.D. Ref. FP

Appendix IV

Revised Fire Service Installations Proposal

F.S.NOTES:

1. GENERAL

1.1 FIRE SERVICE INSTALLATIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE CODES OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT AND INSPECTION, TESTING AND MAINTENANCE OF INSTALLATIONS AND EQUIPMENT 2022 (COP 2022), FSD CIRCULAR LETTERS AND THE HONG KONG WATERWORKS STANDARD REQUIREMENTS.

1.2 ALL TUBES AND FITTINGS SHALL BE G.M.S. TO BS1387 MEDIUM GRADE WHERE PIPEWORK UP TO ø150mm.

1.3 ALL TUBES AND FITTINGS SHALL BE DUCTILE IRON TO BS EN545 K12 WHERE PIPEWORK ABOVE ø150mm.

1.4 ALL DRAIN PIPES SHALL BE DISCHARGED TO A CONSPICUOUS POSITION WITHOUT THE POSSIBILITY OF BEING SUBMERGED.

1.5 ALL PUDDLE FLANGES SHALL BE MADE OF DUCTILE IRON

1.6 THE AGGREGATE AREA OF OPENABLE WINDOWS NOT LESS THAN 6.25% OF THE FLOOR AREA OF THE STRUCTURE

1.7 VENTILATION/AIR CONDITIONING SYSTEM NOT TO BE PROVIDED.

2. HOSE REEL SYSTEM

2.1 NEW FIRE HOSE REEL SHALL BE PROVIDED AS INDICATED ON PLAN TO ENSURE THAT EVERY PART OF THE BUILDING CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30m HOSE REEL TUBING.

2.2 THE WATER SUPPLY FOR HOSE REEL SYSTEM WILL BE FED FROM A NEW $2m^3$ F.S. FIBREGLASS WATER TANK VIA TWO HOSE REEL PUMPS (DUTY/STANDBY) LOCATED INSIDE FS PUMP ROOM AT EXTERNAL AREA.

2.3 HOSE REEL PUMPS SHALL BE STARTED BY ACTUATION OF ANY BREAKGLASS UNIT FITTED ASIDE EACH HOSE REEL SETS

2.4 ALL FIRE HOSE REEL OUTLETS SHOULD BE HOUSED IN GLASS FRONTED CABINET SECURED UNDER LOCK & KEY.

2.5 ALL FIRE HOSE REEL SHOULD BE PROVIDED WITH FSD APPROVED TYPE INSTRUCTION PLATE & WSD WARNING PLATE

2.6 SECONDARY ELECTRICITY SUPPLY DIRECTLY TEE OFF BEFORE CLP'S INCOMING MAIN SWITCH SHALL BE PROVIDED FOR THE FS PUMPS.

3. AUTOMATIC SPRINKLER SYSTEM

3.1 NEW AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LPC RULES FOR AUTOMATIC SPRINKLER INSTALLATIONS INCORPORATING BS EN 12845: 2015 (INCLUDING TECHNICAL BULLETINS, NOTES, COMMENTARY AND RECOMMENDATIONS) AND FSD CIRCULAR LETTER NO. 5/2020. THE CLASSIFICATION OF THE OCCUPANCIES WILL BE ORDINARY HAZARD GROUP III.

3.2 ONE NEW $135m^3$ SPRINKLER WATER TANK WILL BE PROVIDED AS INDICATED ON PLAN. THE TOWN MAIN WATER SUPPLY WILL BE FED FROM SINGLE END.

3.3 TWO NEW SPRINKLER PUMPS (DUTY/STANDBY) AND ONE JOCKEY PUMP SHALL BE PROVIDED IN FS PUMP ROOM LOCATED AT EXTERNAL AREA.

3.4 NEW SPRINKLER CONTROL VALVE SET AND SPRINKLER INLET SHALL BE PROVIDED AS INDICATED ON PLAN.

3.5 A TEST VALVE SHALL BE PROVIDED FOR EACH ZONE OF SPRINKLER PIPE. THIS VALVE SHALL BE AT A CONSPICUOUS POSITION THAT WATER CAN BE DRAINED AWAY EASILY.

3.6 ALL SUBSIDIARY STOP VALVES TO BE ELECTRIC MONITORING TYPE.

3.7 ALL ELECTRIC TYPE VALVES SHOULD GIVE VISUAL SIGNALS TO FIRE SERVICE MAIN SUPERVISORY CONTROL PANEL TO INDICATE THE STATUS (OPEN/CLOSE) OF THE VALVES.

3.8 SECONDARY ELECTRICITY SUPPLY DIRECTLY TEE OFF BEFORE CLP'S INCOMING MAIN SWITCH SHALL BE PROVIDED FOR THE SPRINKLER PUMPS.

3.9 THE SPRINKLER SYSTEM DESIGN IS BASED ON THE FOLLOWINGS:
HAZARD CLASS : ORDINARY HAZARD GROUP III
TYPE OF STORAGE : POST-PALLET (ST2)
STORAGE CATEGORY : CATEGORY I
MAXIMUM STORAGE HIEGHT : 3.5m
SPRINKLER PROTECTION : CEILING PROTECTION ONLY
MAXIMUM STORAGE AREA : $50m^2$
MINIMUM CLEARANCE AROUND : 2.4m

4. FIRE ALARM SYSTEM

4.1 NEW FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH BS 5839-1:2017 +A2:2008 AND FSD CIRCULAR LETTERS NO. 6/2021.

4.2 NEW BREAKGLASS UNITS AND FIRE ALARM BELLS SHALL BE PROVIDED AT ALL NEW FIRE HOSE REEL POINTS. THE FIRE ALARM INTALLATION WILL BE INTEGRATED WITH THE HOSE REEL SYSTEM.

5. EMERGENCY LIGHTING

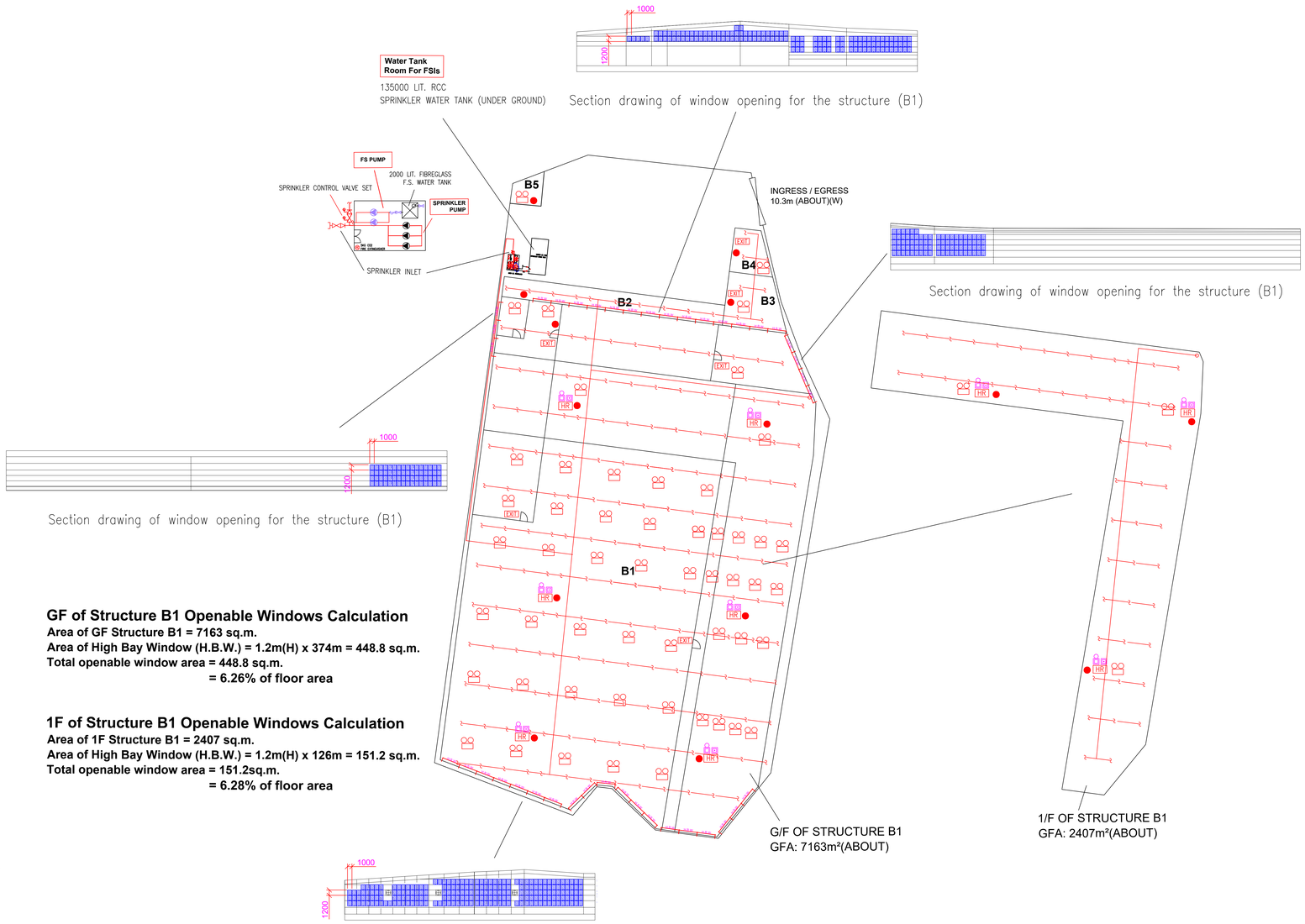
5.1 EMERGENCY LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH "BS 5266-1 :2016 AND BS EN 1838 :2013", AND FSD CIRCULAR LETTERS NO. 4/2021. COVERING ALL AREA. EMERGENCY LIGHTINGS SHALL BE BACKED UP BY BUILT-IN BATTERY AND CAPABLE OF MAINTAINING FUNCTION OF NOT LESS THAN 2 HOURS IN CASE OF POWER FAILURE

6. EXIT SIGN

6.1 ALL EXIT SIGNS/DIRECTIONAL EXIT SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH "BS 5266-1 :2016 AND FSD CIRCULAR LETTER NO. 5/2008, FOR THE BUILDING. EXIT SIGNS/DIRECTIONAL EXIT SIGNS SHALL BE BACKED UP BY BUILT-IN BATTERY AND CAPABLE OF MAINTAINING FUNCTION OF NOT LESS THAN 2 HOURS IN CASE OF POWER FAILURE.

7. PORTABLE APPLIANCES

7.1 PORTABLE HAND OPERATED APPLIANCES SHALL BE PROVIDED AS INDICATED ON PLAN.



GF of Structure B1 Openable Windows Calculation
Area of GF Structure B1 = 7163 sq.m.
Area of High Bay Window (H.B.W.) = 1.2m(H) x 374m = 448.8 sq.m.
Total openable window area = 448.8 sq.m.
= 6.26% of floor area

1F of Structure B1 Openable Windows Calculation
Area of 1F Structure B1 = 2407 sq.m.
Area of High Bay Window (H.B.W.) = 1.2m(H) x 126m = 151.2 sq.m.
Total openable window area = 151.2sq.m.
= 6.28% of floor area

LEGEND

- HR — HOSE REEL
- BREAK GLASS UNIT
- FIRE ALARM BELL
- EMERGENCY LIGHT
- EXIT — EXIT SIGN
- SUBSIDIARY VALVE / FLOW SWITCH
- FE — 5KG CO2 FIRE EXTINGUISHER
- SPRINKLER CONTROL VALVE SET
- SPRINKLER INLET
- 5KG DRY POWDER FIRE EXTINGUISHER
- SPRINKLER HEAD (ON PLAN)
- PUMP SET

STRUCTURE	Uses	Covered Area	GFA	Building Height
B1	WAREHOUSE (EXCL. D.G.G.*)	7163m²	9570m²	11 m (ABOUT)(2-STOREY)
B2	RAIN SHELTER FOR L/UL	203m²	203m²	7 m (ABOUT)(1-STOREY)
B3	SITE OFFICE	134m²	268m²	8 m (ABOUT)(2-STOREY)
B4	CARETAKER OFFICE AND WASHROOM	71m²	71m²	5 m (ABOUT)(1-STOREY)
B5	METER ROOM	44m²	44m²	7 m (ABOUT)(1-STOREY)
	Total:	7615m²	10156m²	

*D.G.G.-DANGEROUS GOODS GODOWN

PROJECT :
TEMPORARY WAREHOUSE (EXCLUDING DANGEROUS GOODS GODOWN) WITH ANCILLARY FACILITIES FOR A PERIOD OF 3 YEARS LOTS 25 (PART), 26 (PART), 27 (PART), 28 (PART), 29, 30, 31, 32 (PART), 33 (PART), 34 (PART),36 (PART), 70 (PART), 76 (PART), 77 (PART), 78 S.A (PART), 80 (PART) AND 82 (PART) IN D.D.124 AND ADJOINING GOVERNMENT LAND, HA TSUEN, YUEN LONG, NEW TERRITORIES

DRAWING TITLE :
F.S. Notes, Legend, Fire Service Installation Layout Plan

REV	DESCRIPTION	DATE

ARCHITECT :

CONSULTANT :

FIRE SERVICE CONTRACTOR :
Century Fire Service Engineering Co., Ltd.

	NAME	DATE
DRAWN BY	C.K.NG	11 SEP 2024
CHECKED BY		
APPROVED BY		

DRAWING NO : **FS-01**
REV. **0**
SCALE : 1 : 400 (A0)
SOURCE : B.O.O. Ref. BD
F.S.D. Ref. FP