MAJOR DEVELOPMENT PARAMETERS : 1,837 m² : 363 m² : 1,474 m² (ABOUT) (ABOUT) (ABOUT) APPLICATION SITE AREA COVERED AREA UNCOVERED AREA PLOT RATIO SITE COVERAGE (ABOUT) : 20% NO. OF STRUCTURE DOMESTIC GFA NON-DOMESTIC GFA TOTAL GFA : 9 : N/A : 393 m² : 393 m² (ABOUT) BUILDING HEIGHT NO. OF STOREY : 2.8 m - 6 m (ABOUT) : 1 - 2

STRUCTURE	USE	COVERED AREA	GFA	BUILDING HEIGHT
B1	COVERED STORAGE SPACE	24m ² (ABOUT)	24m ² (ABOUT)	3m (ABOUT)(1-STOREY)
B2	COVERED STORAGE SPACE	24m ² (ABOUT)	24m ² (ABOUT)	3m (ABOUT)(1-STOREY)
B3	STORAGE OF TOOLS	30m ² (ABOUT)	30m ² (ABOUT)	2.8m (ABOUT)(1-STOREY)
B4	COVERED STORAGE SPACE	40m ² (ABOUT)	40m ² (ABOUT)	3m (ABOUT)(1-STOREY)
B5	COVERED STORAGE SPACE	34m ² (ABOUT)	34m ² (ABOUT)	3m (ABOUT)(1-STOREY)
B6	STORAGE OF TOOLS	15m ² (ABOUT)	15m ² (ABOUT)	2.8m (ABOUT)(1-STOREY)
B7	PORTABLE TOILET	15m ² (ABOUT)	15m ² (ABOUT)	2.8m (ABOUT)(1-STOREY)
B8	COVERED PARKING SPACE	181m ² (ABOUT)	181m ² (ABOUT)	6m (ABOUT)(1-STOREY)
B9	SITE OFFICE	COVERED BY B8	30m² (ÀBOUT)	5.6m (ABOÚŤ)(2-STOREÝ)
	TOTAL	363m² (ABOUT)	393m² (ABOUT)	

INGRESS / EGRESS 6.5m (ABOUT)(W) APPLICATION SITE <u>B6</u> FIRE SERVICE INSTALLATIONS <u>B7</u> 5 KG CO2 FIRE EXTINGUISHER <u>B8</u> SUFFICIENT EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDING IN ACCORDANCE WITH BS5266: PART1 AND BS EN1838 SUFFICIENT DIRECTIONAL AND EXIT SIGN SHALL BE PROVIDED IN ACCORDANCE WITH BS5266: PART 1 AND FSD CIRCULAR LETTER 5/2008. PORTABLE HAND-OPERATED APPROVED APPLIANCE SHALL BE PROVIDED AS REQUIRED BY LEGEND APPLICATION SITE ACCESS IS PROVIDED FOR EMERGENCY VEHICLE TO REACH 30m OF ALL PART OF STRUCTURES. STRUCTURE (ENCLOSED)



OCCUPANCY.

EXIT

FE

FS NOTES:

EXIT SIGN

EMERGENCY LIGHT

PROPOSED TEMPORARY OPEN STORAGE OF VEHICLES FOR SALE (INCLUDING NEW/USED VEHICLES) FOR A PERIOD OF 3 YEARS

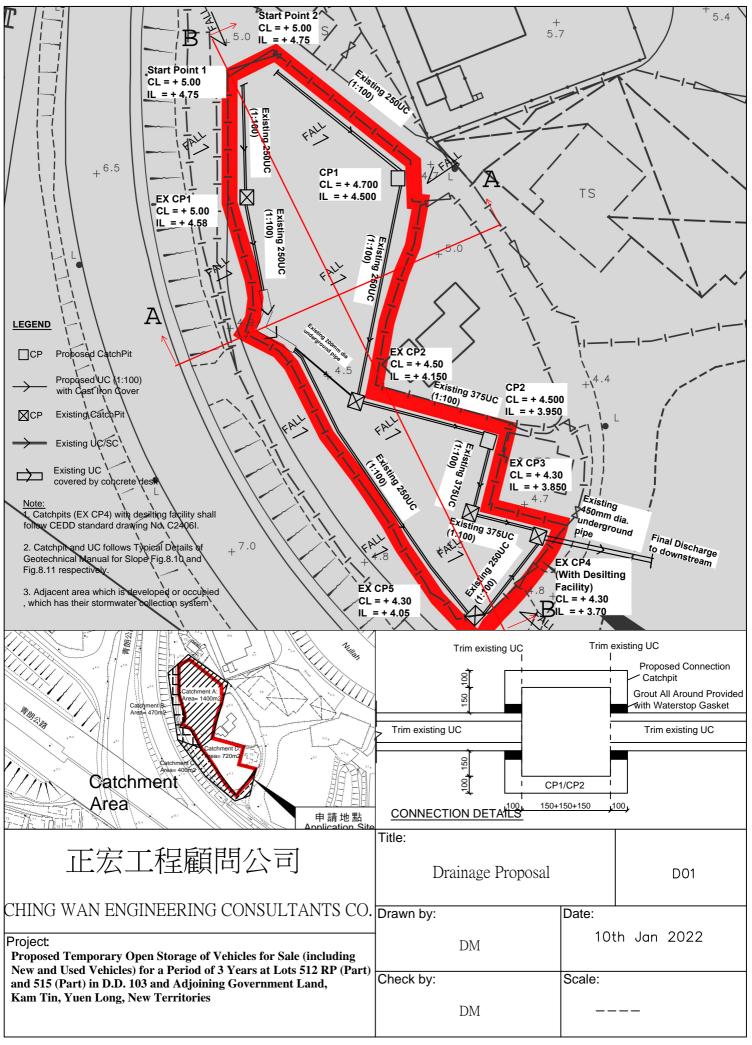
LOTS 512 RP (PART) AND 515 (PART) IN D.D. 103 AND ADJOINING GOVERNMENT LAND, KAM TIN, YUEN LONG, NEW TERRITORIES

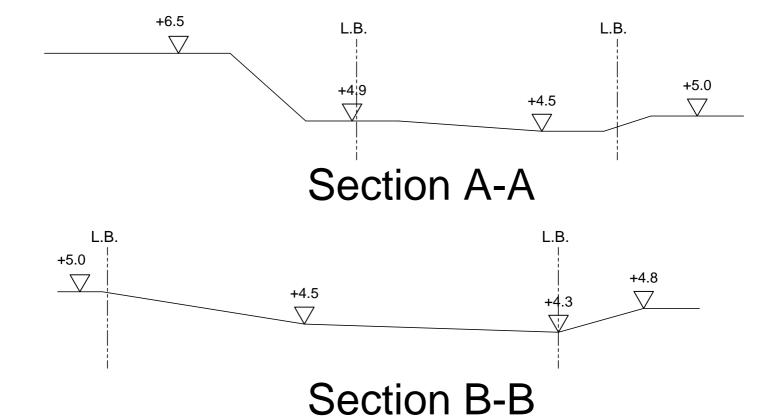
1:500 @ A4		FSIs PROPOSAL		
DRAWN BY	18.10.2023			
REVISED BY	21.2.2024	DWG NO. APPENDIX I	VER. 002	



STRUCTURE (CANOPY) INGRESS / EGRESS

Appendix II





Company: Project:

Date: 9/1/2022

Calculation for channels:

Catchment Area of site

Catchment Area A 1100 m^2 0.0011 km^2 =

Peak runoff in m³/s 0.278 mm/hr x 0.0011 0.95 X 250 km^2 0.072628 m^3/s = 4358 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels), For gradient 1:100, existing 250UC will be suitable.

Catchment Area B+C m^2 470 + 400 m^2 0.00087 km^2 =

3447

Peak runoff in m^3/s 0.95 mm/hr x 0.00087 km^2 0.278 250 Χ X 0.057442 m^3/s liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels), For gradient 1:100, existing 250UC will be suitable.

=

Catchment Area A+B+C+D 1100 m^2 470 m^2 400 $m^2 +$ 720 m^2 + 0.00269 km^2 = Peak runoff in m³/s 0.278 0.95 250 mm/hr x 0.00269 km^2 Χ X 0.177607 m^3/s = 10656 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels), For gradient 1:100, existing 375UC will be suitable.

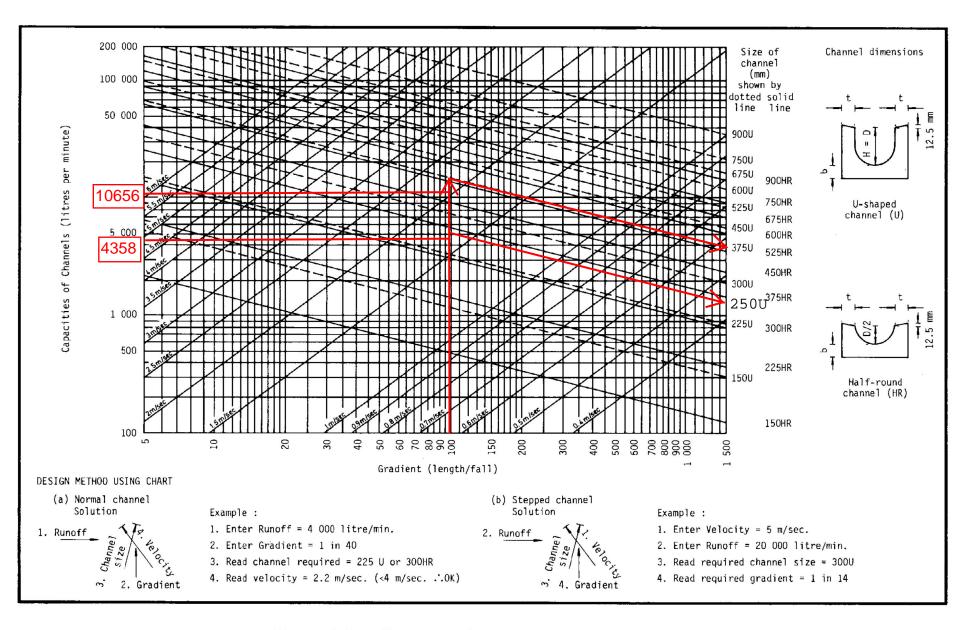


Figure 8.7 - Chart for the Rapid Design of Channels

Check existing 450mm dia. Pipes (1:100) by Colebrook-White Equation

$$V = -\sqrt{(8gDs)} \log(\frac{ks}{3.7D} + \frac{2.51v}{D\sqrt{(2gDs)}})$$

where:										
V	=			mean ve	locity (m/s)					
g	=	9.81	m/s2	gravitatio	onal acceleration (m/s2)					
D	=	0.45	m	internal j	pipe diameter (m)					
ks	=	0.00015	m	hydraulio	c pipeline roughness (m)			(Table	e 5, from DSD S	Sewerage Manual, concrete pipe)
V	=	1.14E-06	m2/s	kinemati	ic viscosity of fluid (m2/s	s)				
S	=	0.005		hydraulio	c gradient					
Area A	=	0.159043	m2							
Therefore, design V of pipe	=	1.6470	m/s	>	Design velocity from	=	0.1776	m3/s	/	0.159043128
					catchment area	=	1.116724	m/s		===>O.K.

Therefore, 450mm dia. pipe (1:100) will be adopted for connection bewteen site and final discharge

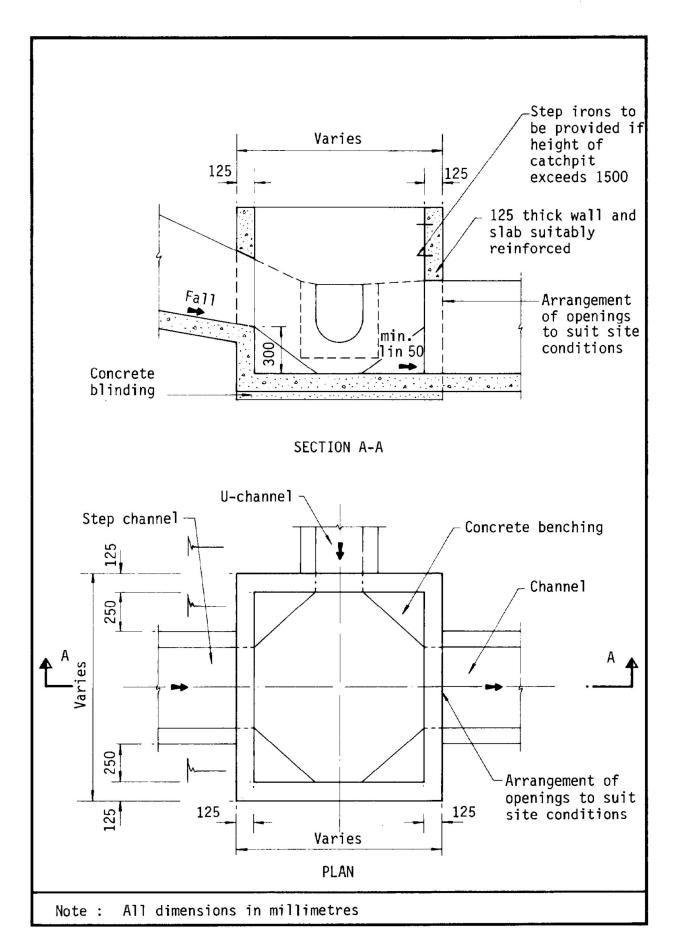


Figure 8.10 - Typical Details of Catchpits

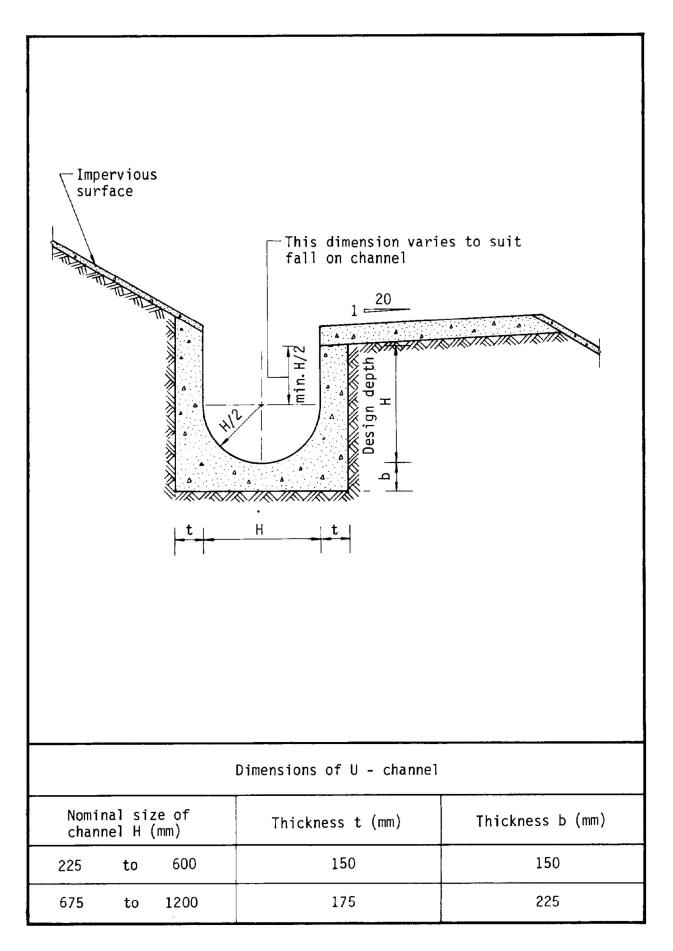
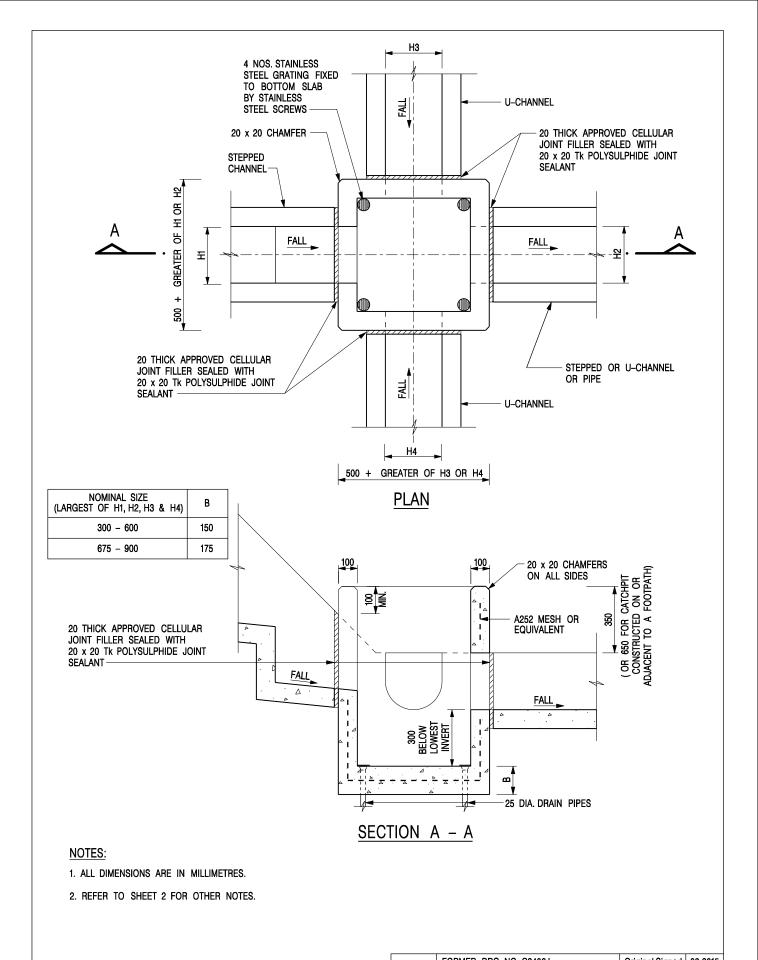
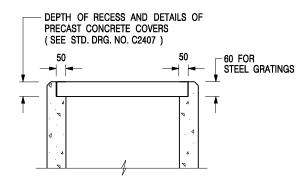


Figure 8.11 - Typical U-channel Details



	-	FORMER DRG. NO. C2406J.	Original Signed	03.2015			
	REF.	REVISION		SIGNATURE	DATE		
CATCHPIT WITH TRAP	CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT						
(CHEET 1 OF 0)	SCAL	.E 1 : 20	DRAWII				
(SHEET 1 OF 2)	DATE	JAN 1991	C24	106 /1			
卓越工程 建設香港	V	Ve Engineer Hong I	(ong's De	velopment			



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) 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 ℃ STAGGERED SHALL BE PROVIDED. THICKNESS OF CATCHPIT WALL FOR INSTALLATION OF STEP IRONS SHALL BE INCREASED TO 150 mm.
- FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'F' ON STD. DRG. NO. C2405.
- SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

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

CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

CATCHPIT WITH TRAP (SHEET 2 OF 2)

 SCALE 1:20
 DRAWING NO.

 DATE JAN 1991
 C2406 /2

卓越工程 建設香港 We Engineer Hong Kong's Development