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寄件者: [REDACTED]
寄件日期: 2026年08月25日星期二 9:59
收件者: [REDACTED]
主旨: a/yl-ph.1118
附件: A-YL-PH-1118 Drainage Proposal

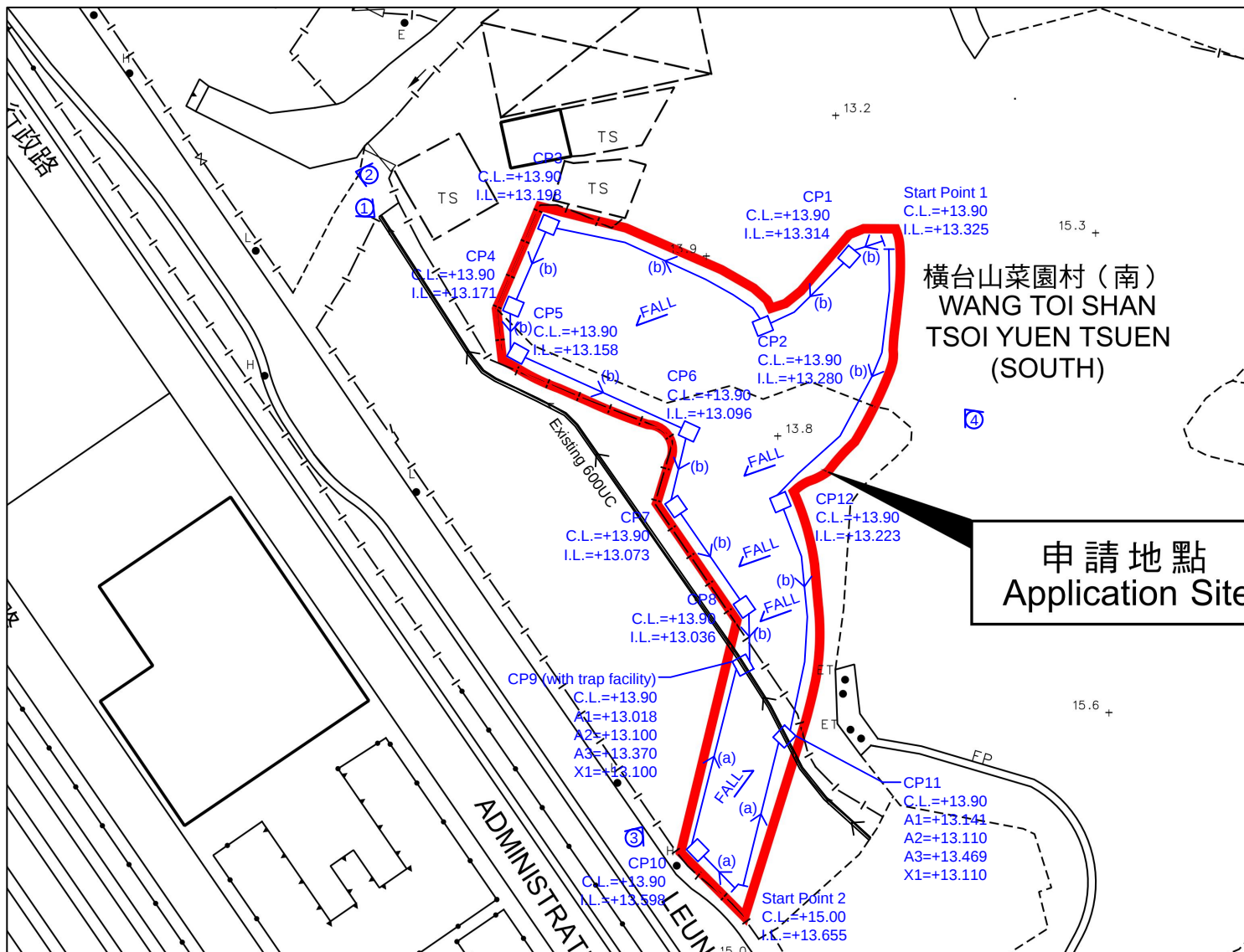
致規劃署

規劃範圍不會包括北環線工程範圍，不會影響北環線工程運作，亦會盡量配合未來政府各個部門的要求。

回應公眾資訊，從未展開未獲批的商業營運，本申請為臨時性質（僅 3 年），營運時間與交通流量極低，不會對周邊造成滋擾，申請通過後亦會減少對鄰近樹木，草的破壞。

另外附上渠務報告

best regards
consense development limited



Note:
1. Catchpits (CP9) with trap facility shall follow CEDD standard drawing No. C2406I.

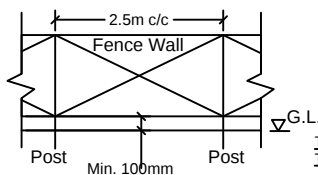
2. Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.

3. Fence Wall to be erected (if any) shall be Open-bottom type.

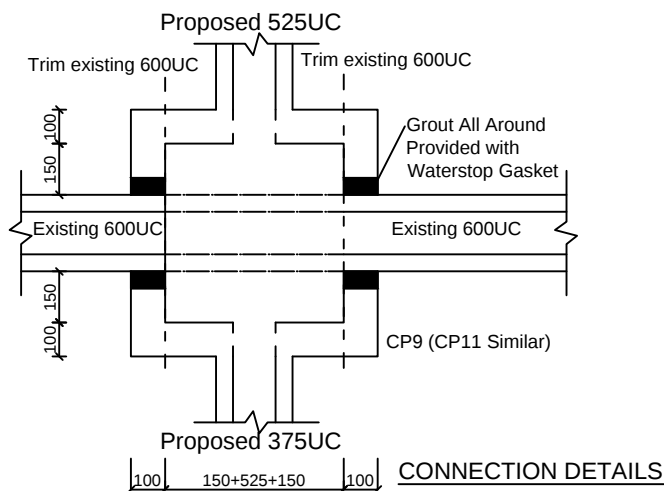
4. Maximum 30mm filling for levelling the site to be carried out.

LEGEND

- Existing 600UC
- Proposed CatchPit
- Proposed 375UC (1:100) with Cast Iron Cover
- Proposed 525UC (1:350) with Cast Iron Cover
- Photo Viewspot



TYPICAL DETAIL OF OPEN-BOTTOM TYPE FENCE WALL



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CHING WAN ENGINEERING CONSULTANT COMPANY

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Title:

Drainage Proposal - LAYOUT

D01

Drawn by:

DM

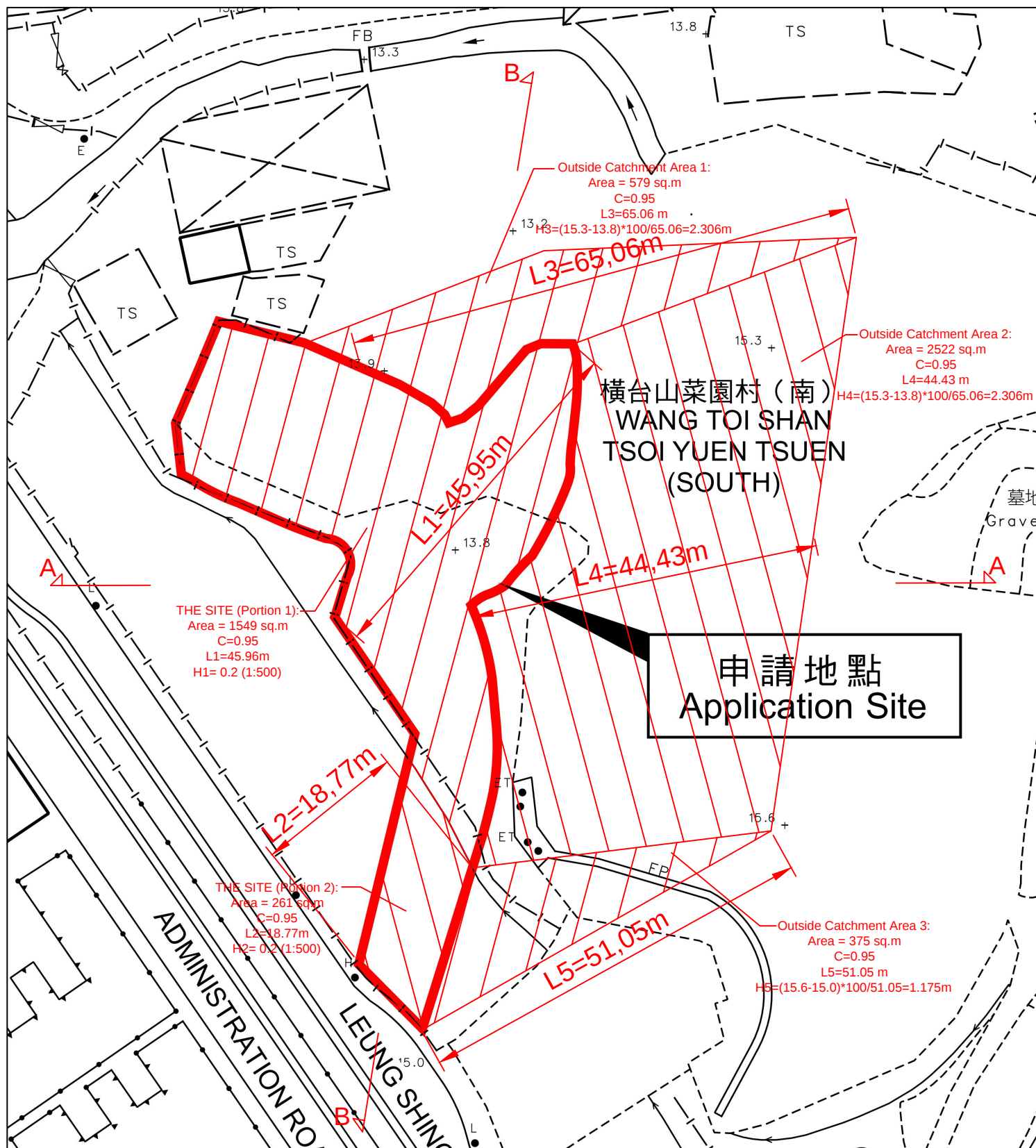
Date:

20-7-2026

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Title:

Drainage Proposal -
 CATCHMENT AREA PLAN

D02

Drawn by:

DM

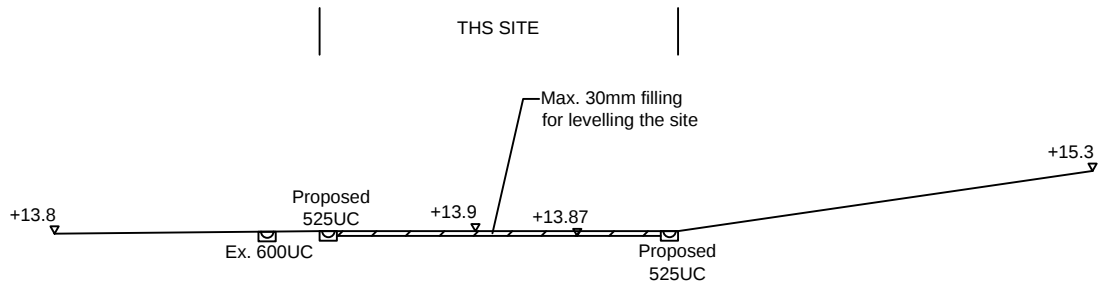
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20-7-2026

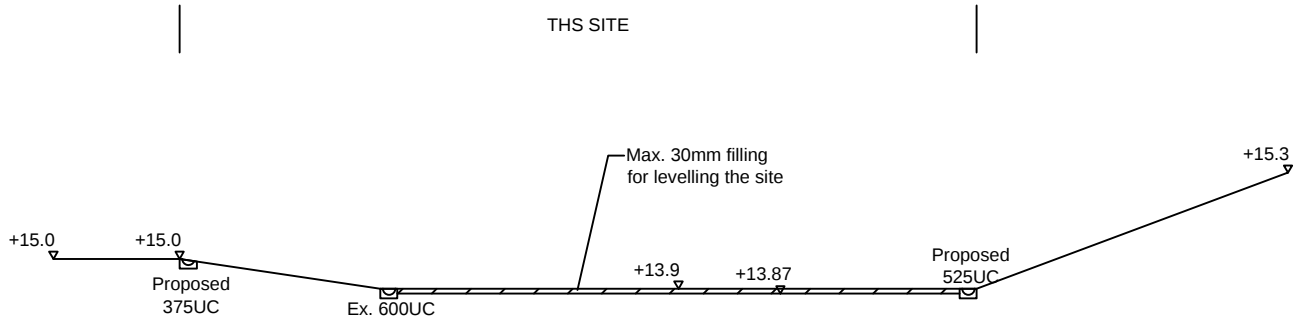
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SECTION A-A



SECTION B-B

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 (Application Number:A/YL-PH/1118)

Title:

Drainage Proposal -
 SECTIONS

D03

Drawn by:

DM

Date:

20-7-2026

Check by:

DM

Scale:

Photo 1



Photo 1a



Photo 1b



Photo 2



Photo 3



Photo 4



Runoff Calculation

After Development

Catchment ID	Area (A) km ²	Average Slope (H), m/100	Flow Path (L), m	Inlet time (t ₀), min	Storm constants			Runoff intensity (i), mm/hr	Runoff Coefficient (C)	Q=1.16*0.278CiA, (m ³ /s)
					a	b	c			
The Site (Portion 1)	0.001549	0.2	45.96	5.540	505.5	3.29	0.355	233.298	0.95	0.111
The Site (Portion 2)	0.000261	0.2	18.77	2.703	505.5	3.29	0.355	267.699	0.95	0.021
Outside Catchment Area 1	0.000579	2.306	65.06	5.307	505.5	3.29	0.355	235.525	0.95	0.042
Outside Catchment Area 2	0.002522	2.306	44.43	3.128	505.5	3.29	0.355	261.273	0.95	0.202
Outside Catchment Area 3	0.000375	1.175	51.05	4.976	505.5	3.29	0.355	238.826	0.95	0.027

Design Q from Start Point 1 to CP2, consider Outside Catchment Area 1

$$Q = 0.042 \text{ m}^3/\text{s}$$

Manning Equation

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

where

$$R = \left(\pi r^2 / (2 + 2r^2) \right) / (\pi r + 2t)$$

$$= 0.1823 \text{ m}$$

$$n = 0.014 \text{ s/m}^{1/3} \text{ (Talbe 13 of Stormwater Drainage Manual)}$$

$$S_f = 0.00286 \text{ (1:100)}$$

Therefore,

$$V = 0.1823^{2/3} * 0.000286^{0.5} / 0.014 = 1.228 \text{ m/sec}$$

Maximum Capacity (Q_{max})

$$= V * A = 0.302 \text{ m}^3/\text{sec}$$

$$> 0.042 \text{ m}^3/\text{sec}$$

% Utilization = 14% < 90% OK

Provide 525UC (1:350) is OK

Design Q from CP2 to CP9, consider Outside Catchment Area 1 + The Site (Portion 1)

$$Q = 0.152 \text{ m}^3/\text{s}$$

Manning Equation

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

where

$$R = \left(\pi r^2 / (2 + 2r^2) \right) / (\pi r + 2t)$$

$$= 0.1823 \text{ m}$$

$$n = 0.014 \text{ s/m}^{1/3} \text{ (Talbe 13 of Stormwater Drainage Manual)}$$

$$S_f = 0.00286 \text{ (1:100)}$$

Therefore,

$$V = 0.1823^{2/3} * 0.000286^{0.5} / 0.014 = 1.228 \text{ m/sec}$$

Maximum Capacity (Q_{max})

$$= V * A = 0.302 \text{ m}^3/\text{sec}$$

$$> 0.152 \text{ m}^3/\text{sec}$$

% Utilization = 50% < 90% OK

Provide 525UC (1:350) is OK

Design Q from Start Point 1 to CP11, consider Outside Catchment Area 2

$$Q = 0.202 \text{ m}^3/\text{s}$$

Manning Equation

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

where

$$R = \left(\pi r^2 / (2 + 2r^2) \right) / (\pi r + 2t)$$

$$= 0.1823 \text{ m}$$

$$n = 0.014 \text{ s/m}^{1/3} \text{ (Talbe 13 of Stormwater Drainage Manual)}$$

$$S_f = 0.00286 \text{ (1:100)}$$

Therefore,

$$V = 0.1823^{2/3} * 0.000286^{0.5} / 0.014 = 1.228 \text{ m/sec}$$

Maximum Capacity (Q_{max})

$$= V * A = 0.302 \text{ m}^3/\text{sec}$$

$$> 0.202 \text{ m}^3/\text{sec}$$

% Utilization = 67% < 90% OK

Provide 525UC (1:350) is OK

Design Q from Start Point 2 to CP11 & Start Point 2 to CP9, consider The Site (Portion 2) + Outside Catchment Area 3

$$Q = 0.049 \text{ m}^3/\text{s}$$

Manning Equation

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

where

$$R = \left(\pi r^2 / (2 + 2r^2) \right) / (\pi r + 2t)$$

$$= 0.1302 \text{ m}$$

$$n = 0.014 \text{ s/m}^{1/3} \text{ (Talbe 13 of Stormwater Drainage Manual)}$$

$$S_f = 0.01 \text{ (1:100)}$$

Therefore,

$$V = 0.1302^{2/3} * 0.01^{0.5} / 0.014 = 1.835 \text{ m/sec}$$

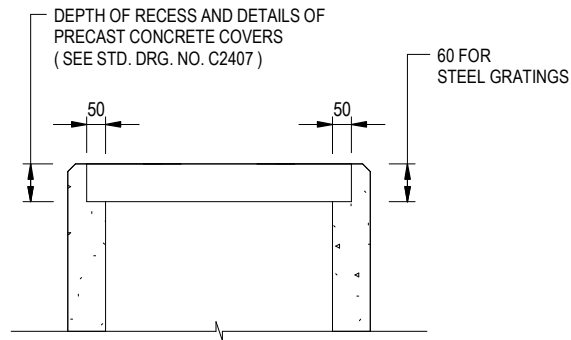
Maximum Capacity (Q_{max})

$$= V * A = 0.230 \text{ m}^3/\text{sec}$$

$$> 0.049 \text{ m}^3/\text{sec}$$

% Utilization = 21% < 90% OK

Provide 375UC (1:100) is OK



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 1000 mm MIN. MEASURED FROM THE ADJACENT GROUND LEVEL.
10. MINIMUM INTERNAL CATCHPIT WIDTH SHALL BE 1000 mm FOR CATCHPITS WITH A HEIGHT EXCEEDING 1000 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.

B	BIM OBJECT REVISION.	Original Signed	12.2025
A	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)**



**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE 1 : 20

DATE JAN 1991

DRAWING NO.

C2406 /2B

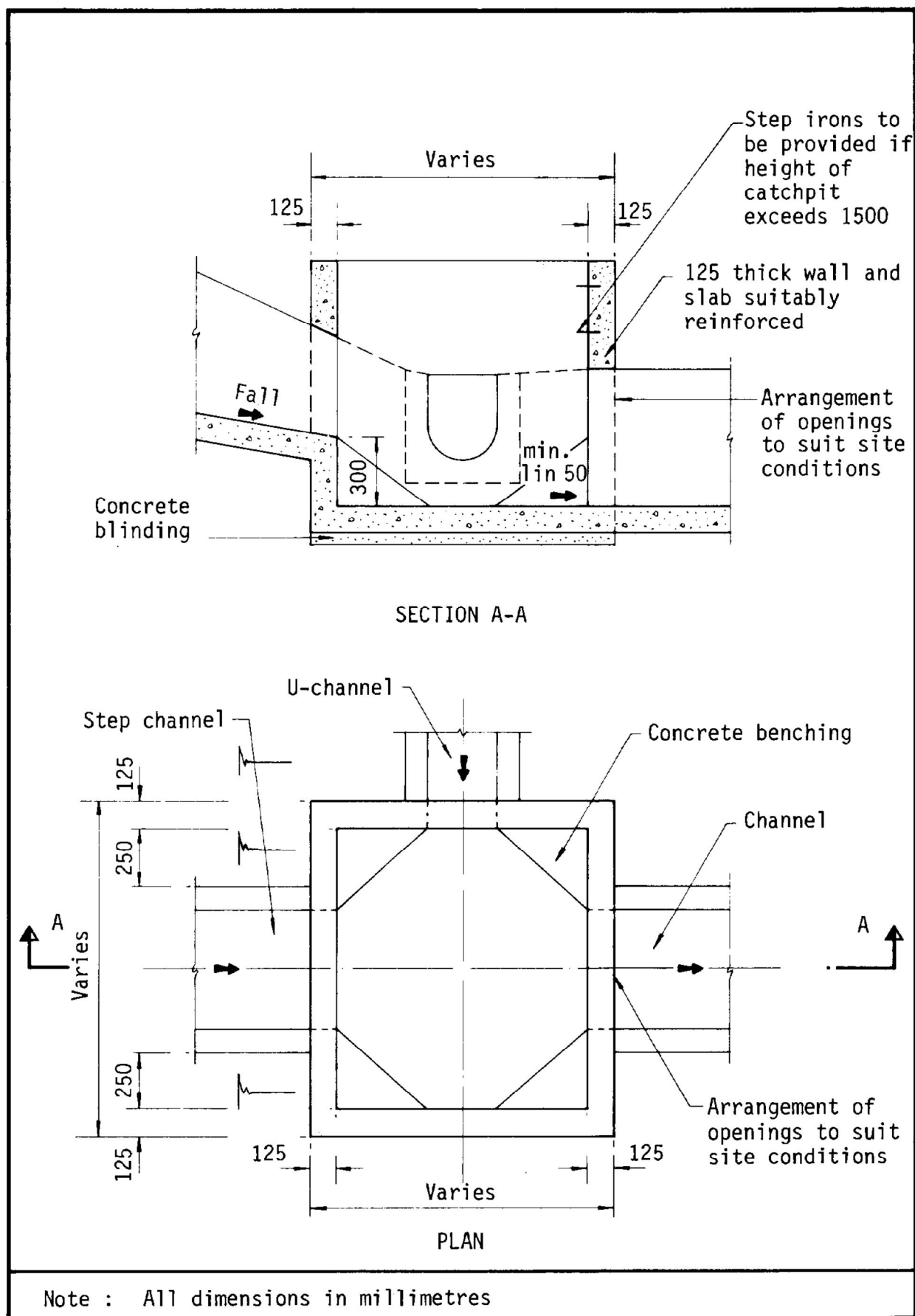
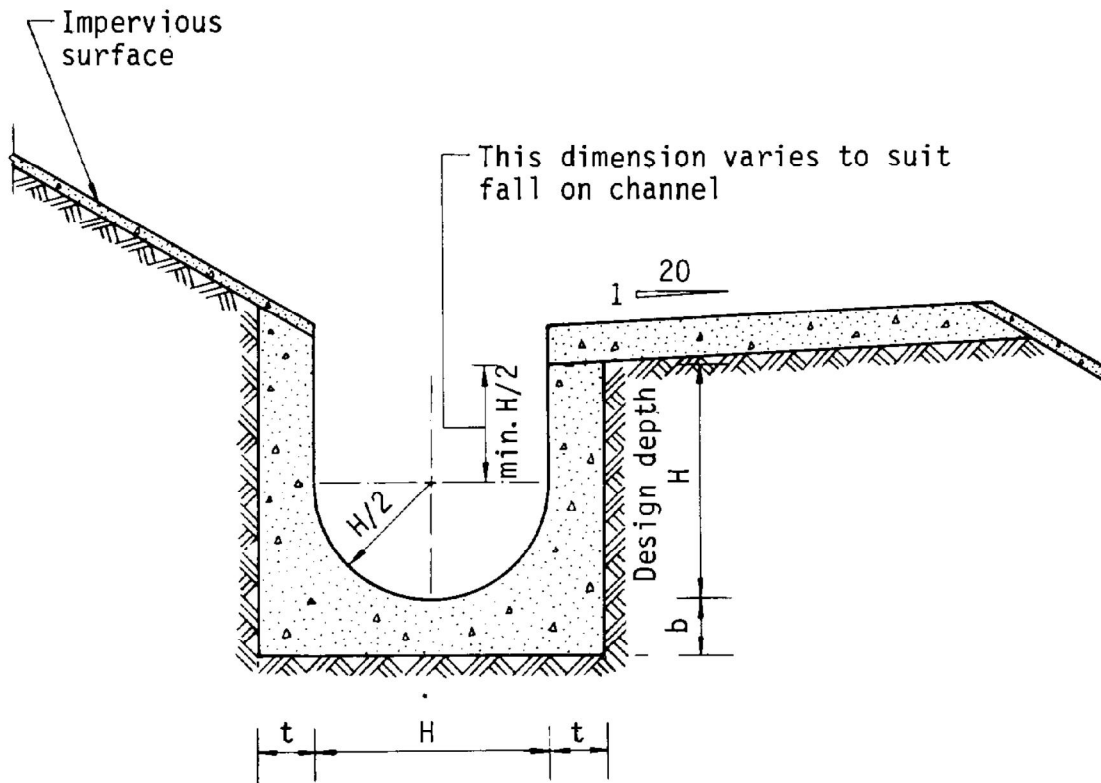


Figure 8.10 - Typical Details of Catchpits



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