□Urgent □Return receipt □Expand G	Group □Restricted □Prevent Copy							
From:								
Sent: To: Cc:	2024-05-14 星期二 16:54:55 Ying Yeung MO/PLAND <yymo@pland.gov.hk>; tpbpd/PLAND <tpbpd@pland.gov.hk></tpbpd@pland.gov.hk></yymo@pland.gov.hk>							
Subject: Attachment:	Fwd: DEPARTMENTAL COMMENTS - A/YL - KTS/988 地物測量師行 ~ PSL REL 20240304(6) - DD 113 LOT 475, KAM TIN, YUEN LONG DTD 14 MAY 2024 20240514_164942.pdf							
Dear Mr. Mo,								
Please disregards my letter dated 13 May 2024								
Please kindly note my letter dated 14 May 2024 accordingly.								
Thank you & Best Regards,								
for 地物測量師行有限公司 Polyland Surveyors Limited Tel:								

# 地物測量師行有限公司

POLYLAND SURVEYORS LIMITED

Your Ref. : TPB/A/YL-KTS/988

: PSL/REL/20240304(6) - DD 113 LOT 475, KAM TIN, YUEN LONG Our Ref.

14 May 2024

To: The Secretary

Town Planning Board

15/F., North Point Government Offices 333 Java Road, North Point, Hong Kong To: District Planning Officer -

Fanling, Sheung Shui & Yuen Long East

District Planning Office, Planning Department, Unit 2202, CDW Building, No. 388 Castle Peak Road, Tsuen Wan, New Territories.

By Fax & By Email (Fax No. 28770245)

(Email:- tpbpd@pland.gov.hk)

Attn.: Mr. MO Ying Yeung

Tel: 31684047

By Fax & By Email (Fax No. 31684074)

(Email:- yymo@pland.gov.hk)

Dear Sir / Madam,

**Submission of Further Information** S.16 Application for

Proposed Temporary Animal Boarding Establishment for a Period of 5 Years In "Agriculture" Zone, Lot 475 in DD 113, Kam Tin, Yuen Long, New Territories Planning Application No. A/YL-KTS/988

We refer to the comments received from the Drainage Services Department (DSD) in connection with the captioned Planning Application and are pleased to enclose herewith solutions and explanations attached demonstrating fulfillment of the comments herewith thereat Lot 475 in DD 113 for your onward submission to the DSD for their further comments please.

Should you have any further question(s) and/or require any further data or information from us, 2. please do not hesitate to contact the undersigned by phone or email whenever required. Thank you for your kind attention.

Yours faithfully,

For and on behalf of

**Polyland Surveyors Limited** 

Eric Cheuk MRICS MCIREA MHKILA M.CPM Chartered Surveyor HKMAAL Accredited Mediator

PMP (Tier 1) RI(2) MBA

Encl.

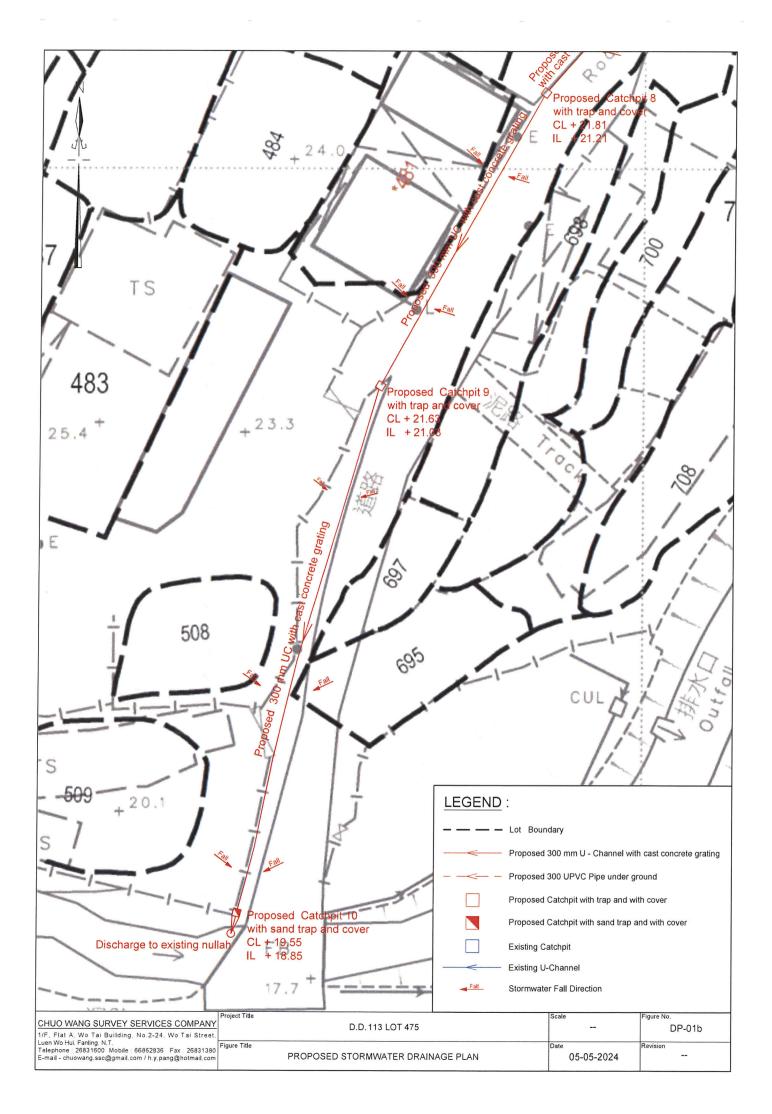
C.C. Client

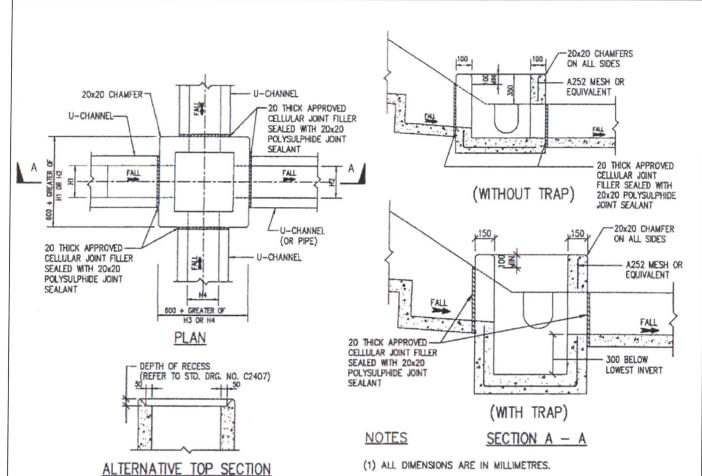
# 地物測量師行有限公司 POLYLAND SURVEYORS LIMITED

# Drainage Proposal & Related Supporting Documents

- 1. Please refer to the plans.
- 2. Please refer to the calculations.
- 3. Please refer to the calculations.
- 4. We are responsible for handling and resolving any conflict/disagreement arisen for discharging the runoff from the application site(s) to the proposed discharge point(s). We ensure that this drainage system and the existing downstream drains/channels/streams have adequate capacity to convey the additional runoff from the application site(s). We will perform regular maintenance to ensure that the drainage system does not get blocked.
- 5. Please refer to Proposed Catchpit 10 and it is a sand trap.
- 6. The application site will have a hoarding built in the future, with an approximate 200 mm gap from the ground.
- 7. We ensure that the development should neither obstruct overland flow nor adversely affect existing natural streams, village drains, ditches and the adjacent areas, etc.
- 8. Please refer to the plans.





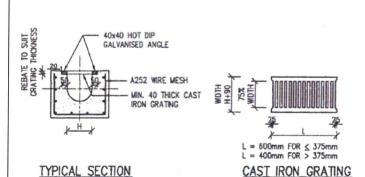


STANDARD CATCHPIT DETAILS (ACCORDING TO CEDD'S DRAWING NO. C24051 & 24061)

FOR PRECAST CONCRETE COVER

(2) SIZE - DEPTH  $\begin{array}{lll} D & <\!\!< 750 \\ W & > 38 \\ L & = & 4.8D^{0.67} & h^{0.5} & F^{-0.5} > 48 \end{array}$ WIDTH

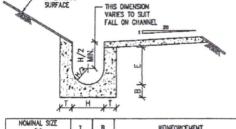
- (3) GRADED STONE FILTER SHALL BE CRUSHER RUN GRANITE AGGREGATE.
- (4) THE SANDTRAP SHALL BE REGULARLY DESILTED TO AVOID BLOCKAGE.



(DIMENSIONS ARE FOR GUIDANCE ONLY, CONTRACTOR MAY SUBMIT EQUIVALENT TYPE)

U-CHANNEL WITH CAST IRON GRATING

(UP TO H OF 525) (ACCORDING TO CEDD'S DRAWING NO. C2412E)



HOMINAL SIZE (H)	T	В	RENFORCEMENT									
225-300	80	100	A252 WESH PLACED CENTRALLY AND T-100									
375-800	100	150	WHEN ES60									
875-900	100	150	A252 WESH PLACED CENTRALLY									

#### TYPICAL U-CHANNEL DETAILS (ACCORDING TO CEDD'S DRAWING NO. C2410G)

#### NOTES FOR U-CHANNEL

SIBETUE.

- THE COVER OF PROPOSED U-CHANNEL SHALL BE FLUSH WITH THE PATH SURFACE AND ANY HOLE IN SUCH COVER SHALL NOT EXCEED 20mm IN ONE
- 2. CAST IRON GRATINGS TO BE USED SHALL BE COMPLIANCE WITH BS 437: 2008.

		Scale	Figure No.
CHUO WANG SURVEY SERVICES COMPANY	D.D. 113 LOT 475		DP-03
1/F, Flat A, Wo Tai Building, No.2-24, Wo Tai Street,			
Luen Wo Hui, Fanling, N.T. Telephone: 26831600 Mobile: 66862836 Fax: 26831380	Figure Title	Date	Revision
E-mail - chuowang.ssc@gmail.com / h.y.pang@hotmail.com		05-05-2024	
5 1262 S 5 5			

#### Hydraulic Assessment of the Stormwater Drainage for Lot 475 in D.D. 113

Locatio	ons		catchment area						channel character					hydraulic parameter		type of						
	Sub- catchment	Sub- catchment	imp	ermeable	po	ermeable	total			channel size			ks=3.3mm		catchmen area	і 50 уг	Peak Runoif (m³/s)	Full bore Capacity	Full bore Velocity			
		reference		reference	sub- catchment (m²)	accumlative area (m²)		accumlative area (m²)		accumlative area (m²)	channel shape	width (mm)	height (mm)	length (m)	channel slope	cross area (m²)	equi. D (m)	urban/rural	(mm/h)	(11175)	(m³/s)	(m/s)
Lot 475		1	617	617	0	0	617	617	uc	300	300		0.01000	0.08	0.42	и	343.74	0.016	0.138	1.713		
Lot 474		2	381	381	0	0	381	381	uc	300	300		0.01000	0.08	0.42	u	343.74	0.010	0.138	1.713		
Lot 477		3	219	219	0	0	219	219	uc	300	300		0.01000	0.08	0.42	u	343.74	0.006	0.138	1.713		
Lot 476		4	101	101	0	0	101	101	uc	300	300		0.01000	0.08	0.42	и	343.74	0.003	0.138	1.713		
Lot 489	-	5	113	113	0	0	113	113	uc	300	300		0.01000	0.08	0.42	и	343.74	0.003	0.138	1.713		
Lot 703		6	328	328	0	0	328	328	uc	300	300		0.01000	0.08	0.42	u	343.74	0.009	0.138	1.713		
Lot 698		7	378	378	0	- 0	378	378	uc	300	300		0.01000	0.08	0.42	u	343.74	0.010	0.138	1.713		
Lot 481		8	312	312	0	0	312	312	uc	300	300		0.01000	0.08	0.42	u	343.74	0.008	0.138	1.713		

I = Rainfall intensity (50 year storm frequency may be specified)

Peak Runoff = 0.278\*i/1000/60/60\*accumlative area

Cross area for 300 u channel =  $0.150*0.3+0.150^2*pi/2$ 

Equivalent Diameter = 4\*Hydraulic Radius

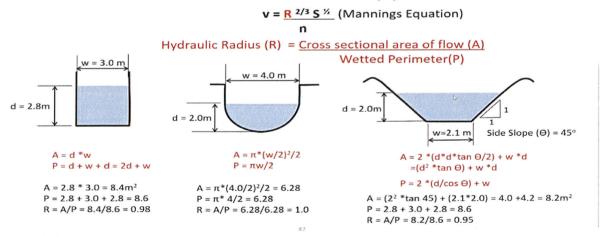
Hydraulic Radius = cross area of u channel / wetted perimeter of u channel

#### Roughness coefficient (ks) at 3.3mm

The roughness of a pipe is normally specified in either mm or inches and common values range from 0.0015 mm for PVC pipes through to 3.0 mm for rough concrete pipes Full bore Capacity = Full bore Velocity \* cross area

Full Bore Velocity - The Full Bore Velocity is calculated using either the Manning Formula or the Colebrook-White Formula and is based on full bore conditions.

### **HYDRAULIC RADIUS (R)**



The Manning Formula is used for Velocity calculations within the software.

$$V = \frac{1}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$$

where:

V = Velocity

n = Manning's roughness coefficient (see Pipe Roughness)

R = Hydraulic Radius

S = Hydraulic gradient

The equation is in meter-per-second units but the n values are the same as those specified in the foot-per-second format of the equation (e.g. smooth concrete pipe n = 0.012 approximately). The formula is sometimes known as Strickler's formula and 1/n as the Strickler's coefficient. A concrete pipe with a smooth interior would have a Manning's n of approximately 0.012.

Manning's n may be derived from 1/Strickler coefficient.