寄件者: 寄件日期: 收件者: 副本: 主旨: 附件:	2025年05月22日星期四 10:02 tpbpd/PLAND Andrea Wing Yin YAN/PLAND 有關A/YL-KTN/1091部門意見回覆 KTN1091_部門意見回覆_20250510.pdf; A_YL-KTN_1091_Swept Path.pdf; A-YL-KTN-1091 Drainage Proposal 2-5-2025.pdf; A-YL- KTN-1091 FS Proposal 2-5-2025.pdf
	KTN-1091 FS Proposal 2-5-2025.pdf

類別**:** 

Internet Email

敬啟者,

有關 A/YL-KTN/1091 部門意見回覆可見附件。

如有任何查詢,可隨時與本人聯絡。

黃先生

電話:

## A/YL-KTN/1091

# 部門意見回覆

### 環保署

The applicant is requested to supplement	本擬議發展的露天貯物是作為貨倉
what types of construction materials will be	的附屬用途,面積為約700平方米
stored in the proposed use.	(佔地約14.9%),主要是用作未能
	及時存放進貨倉內或準備出貨的一
	些建築材料及五金零件,留有一個
	緩衝空間。

# 運輸署

(a) The applicant should demonstrate the	有關車輛路徑圖可見附件 A_YL-
smooth manoeuvring of vehicles to /	KTN_1091_Swept Path 。
from Chi Ho Road, along the local access	
and within the site;	
(b) The applicant should note the local	申請人知悉。
access between Chi Ho Road and the site is	
not managed by this Department.	

# 消防處

1. 有關消防裝置建議可見附件 A-YL-KTN-1091 FS Proposal 2-5-2025。

## 

1. 有關排水建議可見附件 A-YL-KTN-1091 Drainage Proposal 2-5-2025。









前往地圖: https://www.map.gov.hk/gm/geo:22.4435,114.0724?z=2257

Catchment Area for Existing 900mm dia. underground pipe



由「地理資訊地圖」網站提供: https://www.map.gov.hk 注意:使用此地圖受「地理資訊地圖」的使用條款及條件以及知識產權告示約束。

Outside Catchment Area	1, Area	=	1509	$m^2$	(C=	0.95	)	
THE SITE, Area		=	4681	$m^2$	(C=	0.95	)	
Calculation of Design Runoff of the Proposed Development,								
For the design of drains	1000000000000000000000000000000000000	<u>ne s</u>	<u>110</u> Σ0278 C i Δ					
	ΔQ	-	20.278 CTA					
	А	=	1509+4681	$m^2$				
		=	6190					
		=	0.00619	km <sup>2</sup>				
	t	=	0.14465 L/ H <sup>0.2</sup> A <sup>0.1</sup>					
		=	0.14465*71/1 <sup>0.2</sup> *6190 <sup>0.</sup>	1				
		=	4.290	min				
	:	_	1 111¥ /(1)C		(50 yrs return	neriod	Table 3a Corrigendum 2024	
	1	_	1.111*a/(t+b)	0.355	SDM) and (1	1.1% ii	ncrease due to climate change)	
		=	1.111*505.5/(4.290+3.2	29) mm/hr				
		_	275.0	111111/111				
Therefore,	Q	=	0.278*0.95273.6*0.006	519				
		=	0.4473	m <sup>3</sup> /sec				
		=	<u>26839</u>	lit/min				
			Provide 600	<u>UC (1:300</u>	<u>) is OK</u>			
For checking Existing 90	00mm d	ia. 1	pipe					
	$\Sigma Q$	=	Σ0.278 C i A					
	٨		10102	2				
	А	=	18183	m <sup>2</sup>				
		=	0.018183	km²				
	t	_	$0.14465 \text{ L} / \text{H}^{0.2} \wedge^{0.1}$					
	t	_	0.14465*122/1 <sup>0.2</sup> *1919	20.1				
		_	7 214	min				
		-	7.217	111111				
	i	=	1.111*a/(t+b) <sup>c</sup>		(50 yrs return	n period	l, Table 3a, Corrigendum 2024,	
		=	1.111*505.5/(7.214+3.)	$(29)^{0.355}$	SDM) and (1	1.1% ii	ncrease due to climate change)	
		=	243.7	mm/hr				
	0			0100				
Therefore,	Q	=	0.278*0.95*243.7*0.01	.8183				
		=	1.1703	m <sup>°</sup> /sec				
		=	<u>10215</u>	111/m1n				
			Drozrido 600 dia	ononcto al	na (1,100) ÷= (	ov		
Provide ocumm dia. concrete pipe (1:100) is OK								

Geotechnical Engineering Office, Civil Engineering and Development Department The Government of the Hong Kong Special Administrative Region

# GEO Technical Guidance Note No. 43 (TGN 43) Guidelines on Hydraulic Design of U-shaped and Half-round Channels on Slopes



Issue No.: 1 Revision: - Date: 05.06.2014 Page: 3 of 3

ANNEX TGN 43 A1

Check Proposed 600mm dia. Pipes by Colebrook-White Equation

$V = -\sqrt{(8gDs)}\log(\frac{ks}{3.7D} + \frac{2.51v}{D\sqrt{(2gDs)}})$							
where :							
	V	=		mean velocity (m/s)			
	g	=	9.81	m/s2 gravitational acceleration (m/s2)			
	D	=	0.6	m internal pipe diameter (m)			
	ks	=	0.00015	m hydraulic pipeline roughness (m) (Table14, from DSD SDM 2018, concrete pipe)			
	V	=	1.14E-06	m2/s kinematic viscosity of fluid (m2/s)			
	S	=	0.01	hydraulic gradient			
Therefore, design V of pipe capacity		=	2.8059	m/s			
	Q = 0.83 = 0.63	VA 35 81	m3/s	(0.8 factor for sedimentation)			
	= 380 > 268	39	lit/min	Ok			

Check Existing 900mm dia. Pipes by Colebrook-White Equation

$V = -\sqrt{(8gDs)}$	) log(	$\frac{ks}{3.7D}$	$+\frac{2.51v}{D\sqrt{(2gDs)}})$	
where ·				
Where I S S Therefore, design V of pipe capacity	7 =   25 =   26 =   27 =   28 =   29 =   29 =   29 =   29 =   29 =   29 =   29 =   29 =   29 =   29 =	9.81 0.9 0.00015 1.14E-06 0.005 2.5279	mean velocity (m/s) m/s2 gravitational acceleration (m/s2) m internal pipe diameter (m) m hydraulic pipeline roughness (m) m2/s kinematic viscosity of fluid (m2/s) hydraulic gradient m/s	(Table14, from DSD SDM 2018, concrete pipe)
Q= = >	= 0.8VA = 1.287 = 77193 > 70215	m3/s lit/min lit/min	(0.8 factor for sedimentation) 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.
- 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 ¢ 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.

	– FORMER DRG.	NO. C2406J. Original Signed 03.2015			
	REF. R	EVISION SIGNATURE DATE			
CATCHPIT WITH TRAP	CI CEDD DEV	VIL ENGINEERING AND ELOPMENT DEPARTMENT			
(SHEET 2 OF 2)	SCALE 1:20	DRAWING NO.			
	DATE JAN 19	91 02400 / 2			
卓越工程 建設香港	We Enginee	We Engineer Hong Kong's Development			



Figure 8.10 - Typical Details of Catchpits



Figure 8.11 - Typical U-channel Details



# LEGEND

 $\otimes$ 

4KG DRY POWDER TYPE FIRE EXTINGUISHER

SKG CO2 GAS TYPE FIRE EXTINGUISHER

P PARKING AREA

----- NEW INSTALLATIONS

---- BOUNDARY LINE

#### NATURE OCCUPANCY:

- B1: 1 storey structure for Warehouse(Excluding D.G.G) with Ancillary Office. (GFA about:128sq.m, Total Height about:8m)
- B2: 1 storey structure for Warehouse(Excluding D.G.G) with Ancillary Office. (GFA about:200sq.m, Total Height about:8m)
- B3: 1 storey structure for Warehouse(Excluding D.G.G) with Ancillary Office. (GFA about:220sq.m, Total Height about:8m)
- B4: 1 storey structure for Toilet. (GFA about:16sq.m, Total Height about:3m)
- B5: 1 storey structure for Warehouse(Excluding D.G.G) with Ancillary Office. (GFA about:225sq.m, Total Height about:8m)
- B6: 1 storey structure for Warehouse(Excluding D.G.G) with Ancillary Office. (GFA about:220sq.m, Total Height about:8m)
- B7: 1 storey structure for Warehouse(Excluding D.G.G) with Ancillary Office. (GFA about:220sq.m, Total Height about:8m)

#### Fire Notes:

1.Sufficient emergency lighting shall be provided throughout the entire building in accordance with BS 5266-1:2016, BS EN 1838:2013 and FSD Circular Letter no.4/2021.

2.Sufficient directional and exit sign shall be provided in accordance with BS 5266-1:2016 and FSD Circulasr letter 5/2008.

 Sufficient portable hand-operated approved appliance shall be provided as required by occupancy and as marked on plans.

INTERCEPT FIRE & SECURITY	Project :		Drawn By:	W.C WONG
Registered Address :	PROPOSED TEMPORARY WAREHOUSE (EXCLUDING DANGEROUS GOODS GODOWN)	TITLE :	Date:	29-04-2025
Shop 25, G/F, Man Fung Building, YLTL 329, Fung Kwan Street, Yuen Long, N.T. Tel : 9263 7766 Fax : 2428 5932	WITH ANCILLARY OPEN STORAGE AND FACILITIES AND ASSOCIATED FILLING OF LAND FOR A PERIOD OF 3 YEARS AT LOT	PROPOSED FIRE SERVICE INSTALLATION LAYOUT PLAN.	Scale:	1:500 @A3
Business Address :	NOS 1356(PART),1359(PART),1360(PART) AND 1373(PART) IN D.D 109,KAM TIN,YUEN		Ref No:	TPB/A/YL-KTN/1091
8 / F, Block L, Phase 2, Wah Fung Industrial Centre, 33 - 39 Kwai Fung Street, Kwai Chung, N.T., H.K. Tel : 2425 5404 Fax : 2428 5932	LONG,N.T		Drawing No:	2025-FS-003

# $\otimes$ $\otimes$ ⊗ B7 $\otimes$ $\otimes$ $\otimes$ $\otimes$ B6 $\otimes$ $\otimes$ $\otimes$ B4 $\otimes$ $\otimes$ Open Storage Area $\otimes$ $\otimes$ $\otimes$ $\otimes$ $\otimes$ B5 $\otimes$ $\otimes$ $\otimes$

Ingress/Egress

F.S LAYOUT PLAN

