

GoldRich PLANNERS & SURVEYORS LTD.

金 潤 規 劃 測 量 師 行 有 限 公 司

Your Ref.: A/YL-KTN/1177

Our Ref.: P23044/TL25424

8 December 2025

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

By Post and E-mail
tpbpd@pland.gov.hk

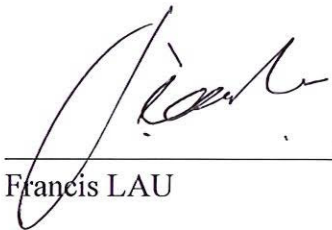
Dear Sir,

Submission of Further Information (FI)

**Temporary Animal Boarding Establishment with Ancillary Facilities and associated
Filling of Land for a period of 5 years in "Agriculture" Zone,
Lot Nos. 1493 (Part) and 1500 (Part) in D. D. 107 and Adjoining
Government Land, Yuen Long, New Territories
(Application No. A/YL-KTN/1177)**

We write to submit FI in response to comments from Drainage Services Department and an updated drainage record for the captioned application, which serves to supersede our previous FI submission under our reference P23044/TL25415 dated 4.12.2025.

Yours faithfully,
For and on behalf of
Goldrich Planners & Surveyors Ltd.



Francis LAU

Encl.

c.c.

DPO/FS&YLE, PlanD

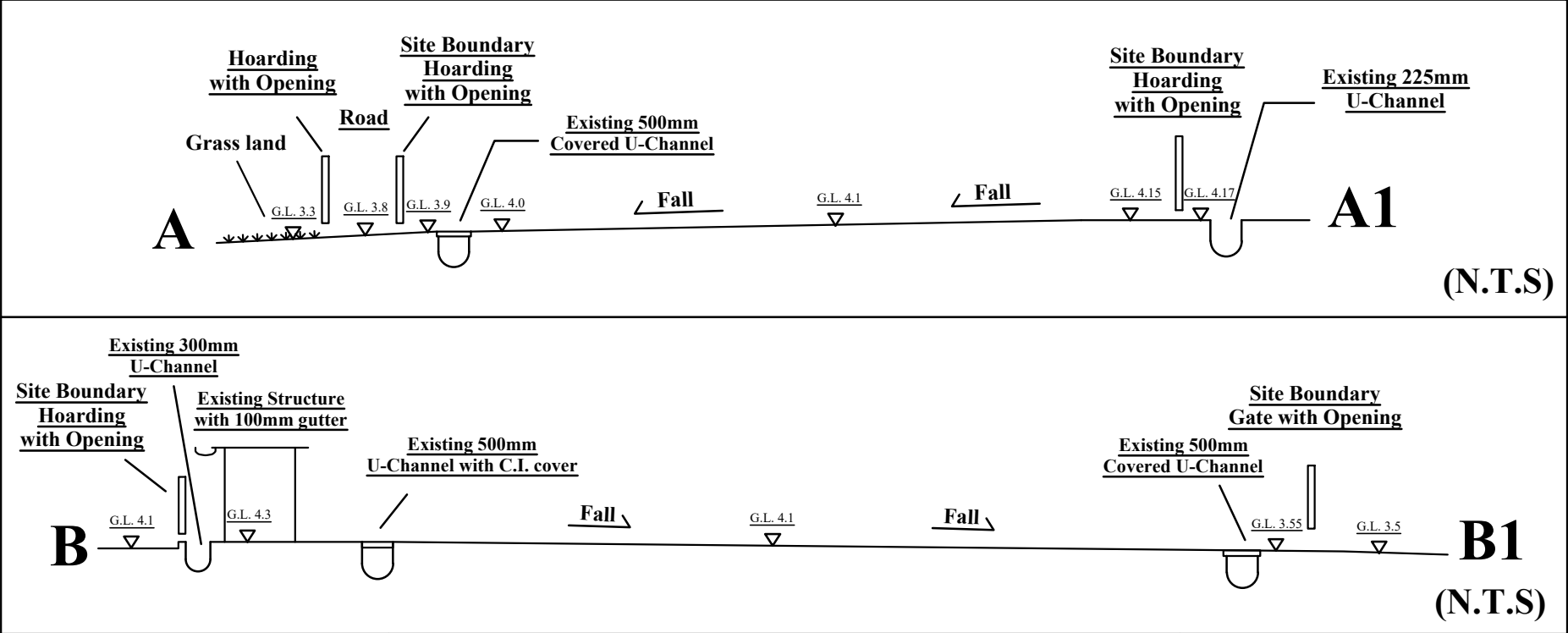
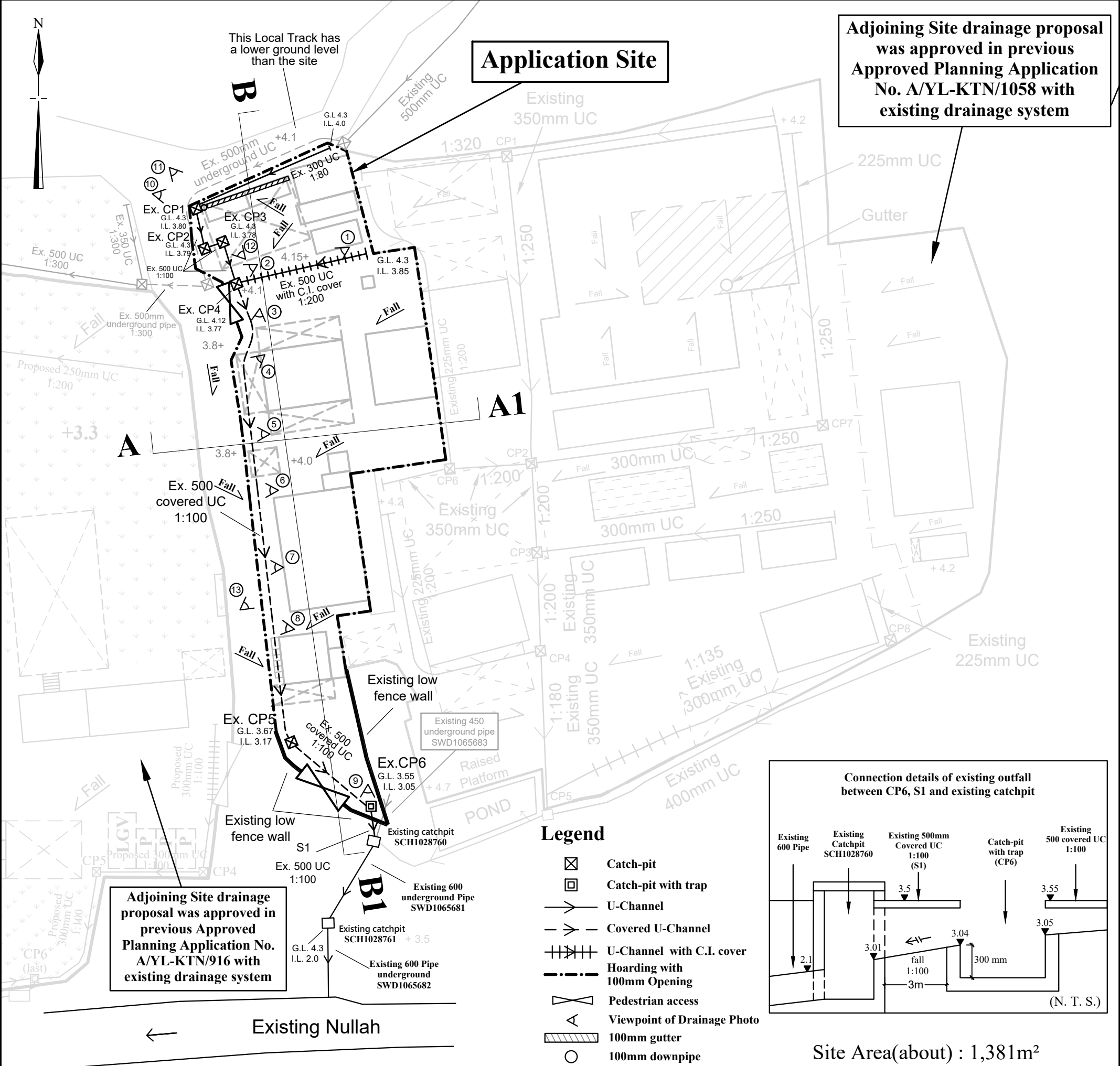
By E-mail only

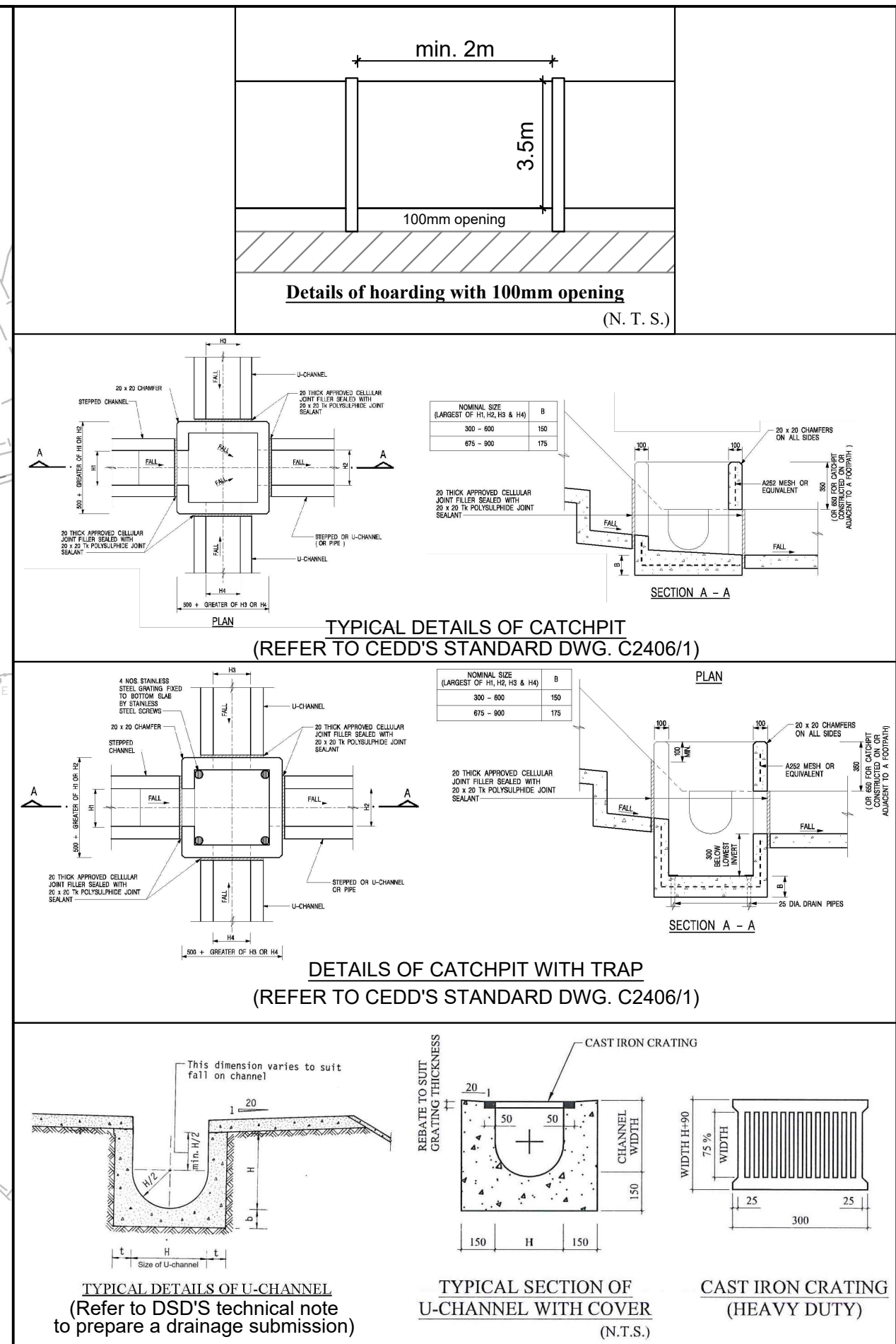
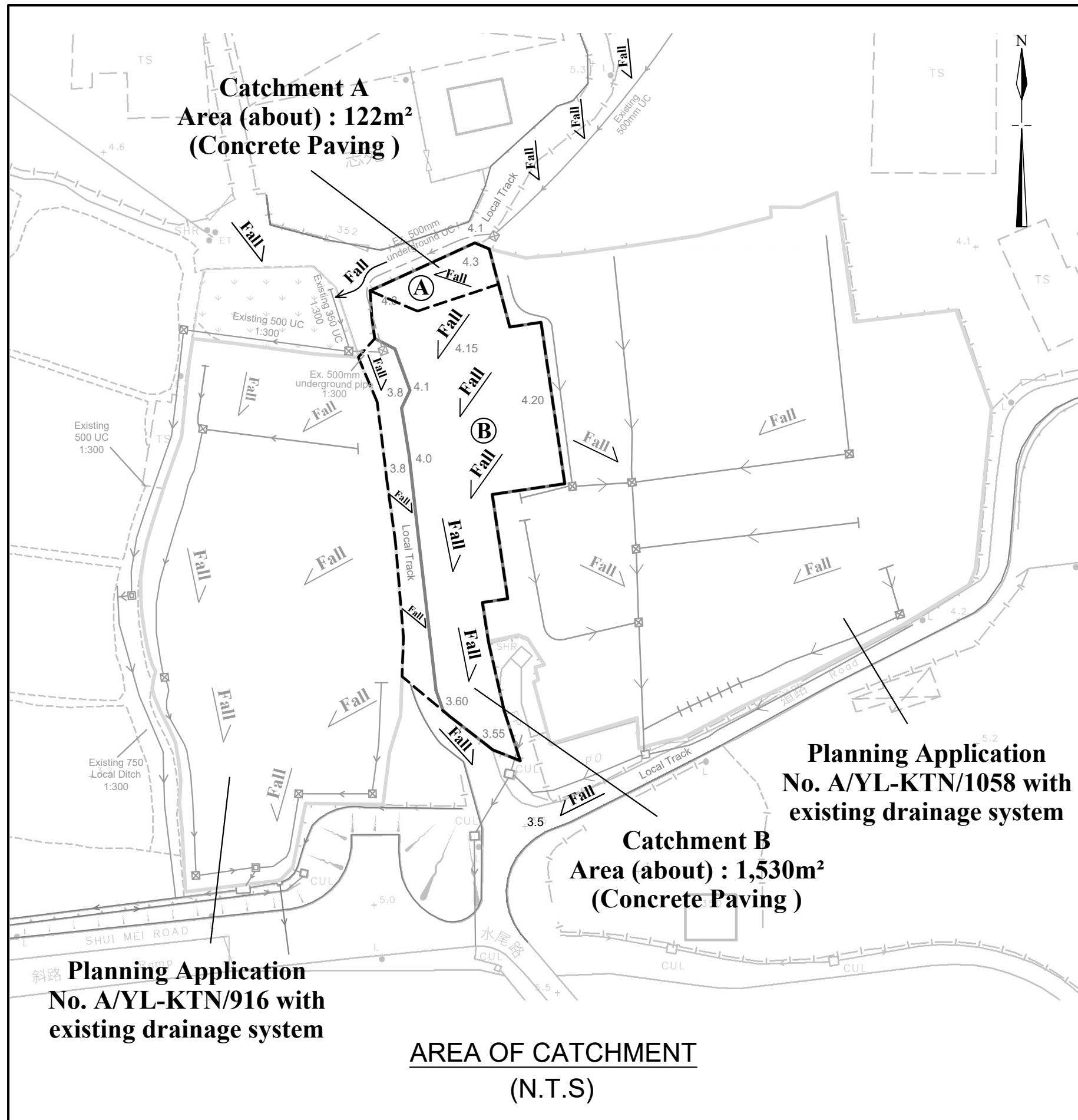
Further Information for Planning Application No. A/YL-KTN/1177**Response-to-Comments****Comments from Drainage Services Department**

(Contact Person: Ms Jessica KWAN; Tel.: 2300 1444)

I.	Comments	Responses
1.	Sections - Please indicate the hoarding opening in drawings.	Hoarding with opening is provided at the western side of the site. Please refer to updated Drainage Proposal (Plan 6.1b) for details.
2.	Section B - Please review the adjacent site ground levels. According to our record, the adjacent road level is higher than the application site, external catchment area should be considered. Please update the section and calculations if necessary.	Portion of the adjacent road at the west is at a higher level than the site. External catchment area is included. Please refer to updated Drainage Proposal (Plan 6.1b and Plan 6.2b) and Hydraulic Calculations for details.

- END -





Viewpoint 1



Viewpoint 2



Viewpoint 3



Viewpoint 4



Viewpoint 5



Viewpoint 6



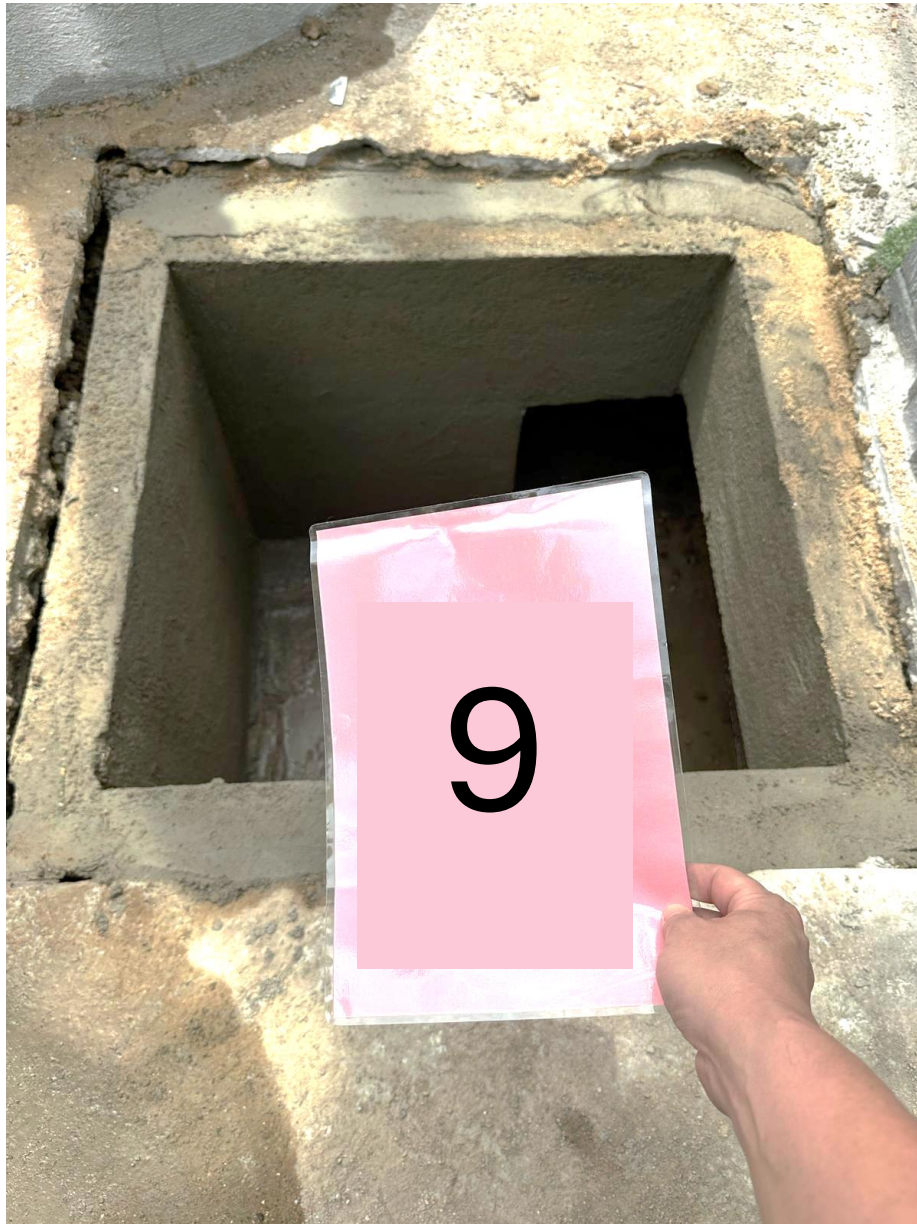
Viewpoint 7



Viewpoint 8



Viewpoint 9



Viewpoint 10



The ground level of the Site has been higher than the local track for many years. The surface runoff from the local track will not flow to the Site.

Viewpoint 11

Existing gutter which collects runoff from the roof to avoid runoff falls to the local track at the north.



Viewpoint 12



Viewpoint 13



Opening has been provided
along hoardings.

1 For Catchment Area of Subject Site			Ref.
Area, A	=	122 m ²	SDM 7.5.2 (d)
Average slope, H	=	0.1 m per 100m	
Distance on the line of natural flow, L	=	3.5 m	
Time of concentration, t _o	=	0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (3.5) / (0.1 ^{0.2} *122 ^{0.1}) = 0.5 min	
2 For Existing 500mm U-Channel to SCH1028760			
	From	To	
Ground level (mPD)	4.30	4.30	
Invert level (mPD)	4.00	3.80	
Width of u-channel, w	=	300 mm	SDM 9.3 (b) Sedimentation Reduction
Length of u-channel, L _c	=	16.5 m	
Depth of vertical part of u-channel, d	=	350 mm	
Gradient of u-channel, S _f	=	(4-3.8)/16.5 = 0.0121	
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 150 ² + 300 x 350 x 0.9 = 0.126 m ²	
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 150 + 2 x 350 = 1.171 m	
Hydraulic radius, R	=	a / p = 0.108 m	SDM 8.2.1
3 Use Manning Equation for estimating velocity of stormwater			
Take n	=	0.016 for concrete lined channels:-	SDM Table 13
Allowable velocity, v	=	R ^{1/6} x (RS _f) ^{1/2} / n = (0.108) ^{1/6} x (0.108 x 0.012) ^{1/2} / 0.016 = 1.56 m/s	SDM Table 12
Time of flow, t _f	=	0.2 min	
4 Use "Rational Method" for calculation of design flow			
Design intensity, i	=	a / (t _o + t _f + b) ^c = 505.5 / (0.5+0.2+3.29) ^{0.35} for return period T = 50 years = 310	SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A
Flat Glassland (heavy soil)	0.25	0.0	0.0
Concrete Paving	0.95	122.0	115.9
SUM =			115.9
Upstream flow, Q _u	=	0 m ³ /s	
Design flow, Q _d	=	0.278i Σ C _j A _j x 1.16 + Q _u where A _j is in km ² = 0.278 x 310 x 115.9 / 1000000 x 1.16 + 0 = 0.012 m ³ /s	SDM 7.5.2 (a) Corrigendum 1/2022
Allowable flow, Q _a	=	a x v = 0.126 x 1.56 = 0.177 m ³ /s	
> Q _d (O.K.)			
Reference was made to Stormwater Drainage Manual (SDM) by DSD			
Scale: NA	Hydraulic Calculation		Goldrich Planners & Surveyors Ltd.
December 2025	Lots 1486 (Part), 1489 (Part) and adjoining Government Land in D. D. 107 Yuen Long, N. T.		Page 1 (P23044)

1 For Catchment Area of Subject Site			Ref.
Area, A	=	1530 m ²	SDM 7.5.2 (d)
Average slope, H	=	0.1 m per 100m	
Distance on the line of natural flow, L	=	25 m	
Time of concentration, t _o	=	0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (25) / (0.1 ^{0.2} *1530 ^{0.1}) = 2.8 min	
2 For Existing 500mm U-Channel to SCH1028760			
	From	To	
Ground level (mPD)	4.30	3.55	
Invert level (mPD)	3.80	3.05	
Width of u-channel, w	=	500 mm	SDM 9.3 (b) Sedimentation Reduction
Length of u-channel, L _c	=	86 m	
Depth of vertical part of u-channel, d	=	250 mm	
Gradient of u-channel, S _f	=	(3.8-3.05)/86 = 0.0087	
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 250 ² + 500 x 250 x 0.9	SDM 8.2.1
	=	0.201 m ²	
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 250 + 2 x 250	
	=	1.285 m	
Hydraulic radius, R	=	a / p	
	=	0.156 m	
3 Use Manning Equation for estimating velocity of stormwater			
Take n	=	0.016 for concrete lined channels:-	SDM Table 13
Allowable velocity, v	=	R ^{1/6} x (RS _f) ^{1/2} /n = (0.156) ^{1/6} x (0.156 x 0.009) ^{1/2} / 0.016	SDM Table 12
	=	1.69 m/s	
Time of flow, t _f	=	0.8 min	
4 Use "Rational Method" for calculation of design flow			
Design intensity, i	=	a / (t _o + t _f +b) ^c	SDM 4.3.2
	=	505.5 / (2.8+0.8+3.29) ^{0.35} for return period T = 50 years	Corrigendum 1/2024
	=	255	SDM Table 3a
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	SDM 7.5.2 (b)
Flat Glassland(heavy soil)	0.25	0.0	
Concrete Paving	0.95	1530.0	
		SUM = 1453.5	
Upstream flow, Q _u	=	0 m ³ /s	
Design flow, Q _d	=	0.278i Σ C _j A _j x 1.16 + Q _u where A _j is in km ²	SDM 7.5.2 (a)
	=	0.278 x 255 x 1453.5 / 1000000 x 1.16 + 0	Corrigendum 1/2022
	=	0.119 m ³ /s	
Allowable flow, Q _a	=	a x v	
	=	0.201 x 1.69	
	=	0.306 m ³ /s	
	>	Q _d (O.K.)	
Reference was made to Stormwater Drainage Manual (SDM) by DSD			
Scale: NA	Hydraulic Calculation		Goldrich Planners & Surveyors Ltd.
December 2025	Lots 1486 (Part), 1489 (Part) and adjoining Government Land in D. D. 107 Yuen Long, N. T.		Page 2 (P23044)