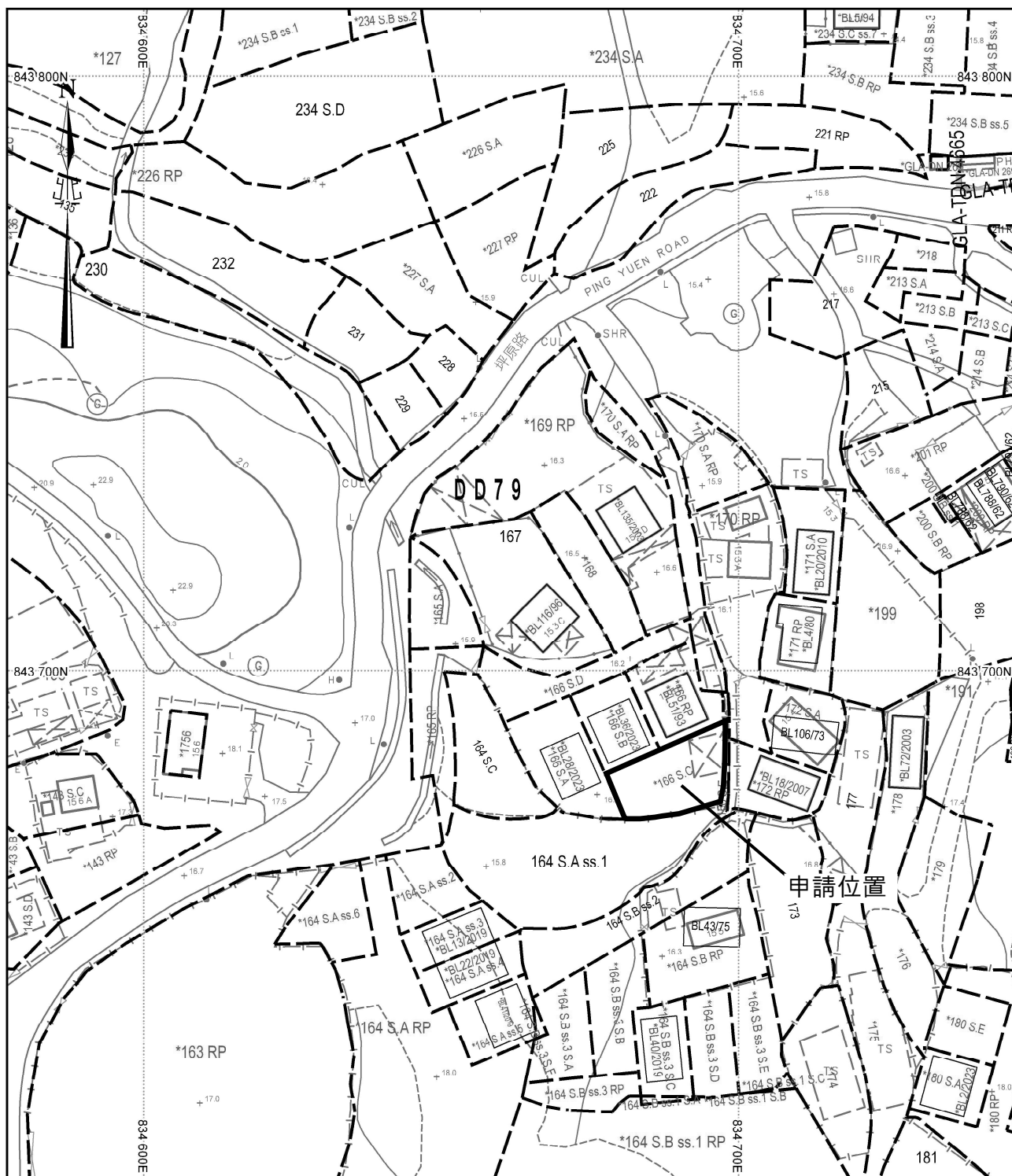
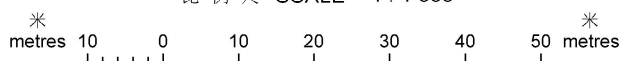


地段索引圖 LOT INDEX PLAN



地政總署測繪處 Survey and Mapping Office, Lands Department

比例尺 SCALE 1:1000



Locality :

Lot Index Plan No. : ags_S00000161317_0001

District Survey Office : Lands Information Center

Date : 14-Jul-2026

Reference No. : 3-NW-19A,3-NW-19C

香港特別行政區政府 — 版權所有
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SMO-P01 20260714123403 10

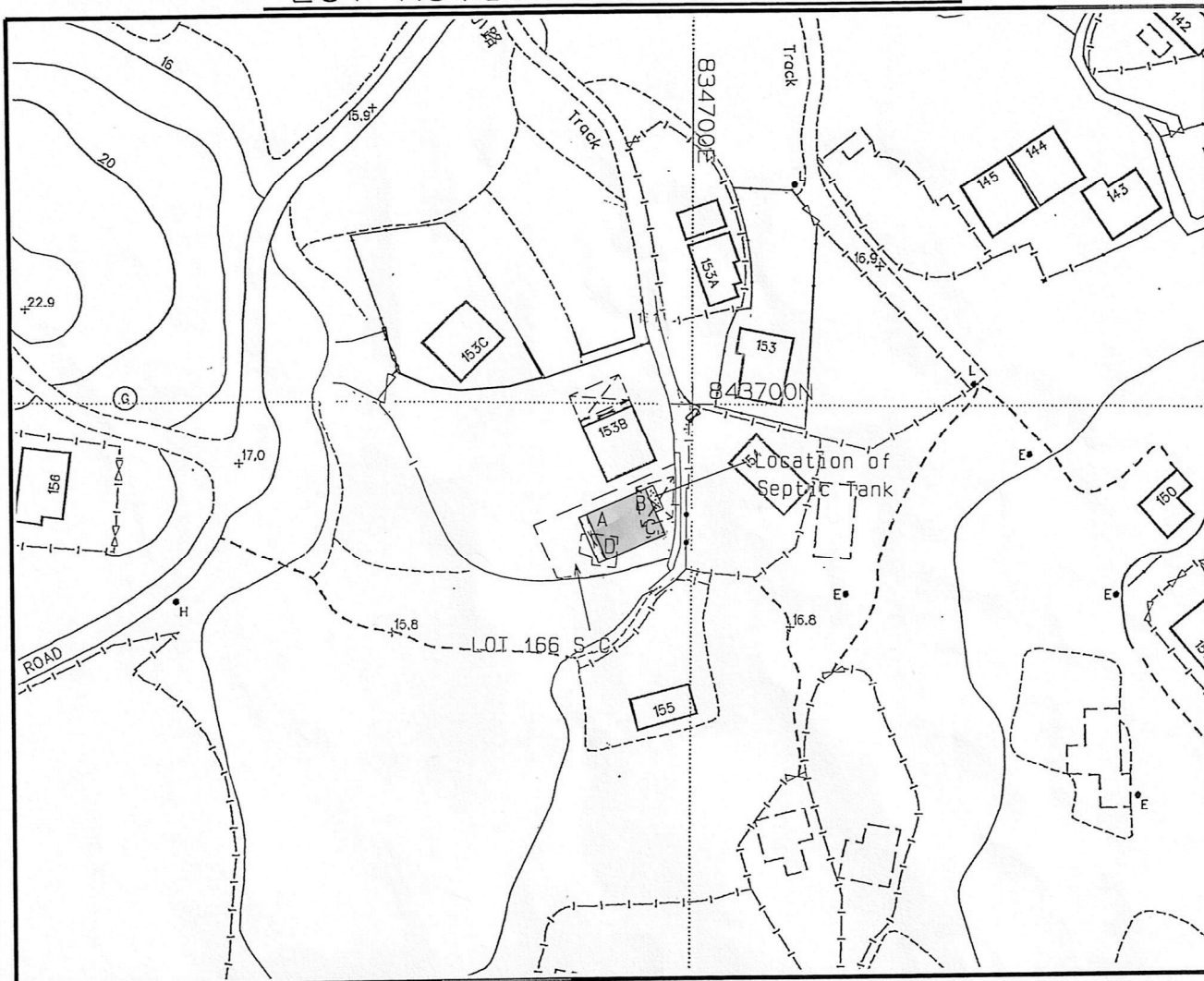
摘要說明：本地段索引圖在其背景的地形圖上標示了各種永久和短期持有的土地的形象界線。這些土地包括私人地段、政府撥地、短期租約批地，以及其他作核准用途的土地。請注意：(1)本索引圖上的資料會被不時更新而不作事先通知；(2)索引圖的更新或會延後於有關資料的實際變更；以及(3)本索引圖中顯示的界線僅供識別之用，資料是否準確可靠，應徵詢專業土地測量師的意見。
免責說明：如因使用本地段索引圖，或因所依據的本索引圖資料出錯、遺漏、過時或有誤差而引致任何損失或損害，政府概不承擔任何法律責任。

Explanatory notes : This plan shows the graphical boundaries of different kinds of permanent and temporary land holdings with the topographic map in the backdrop. The land holdings as shown may include private lots, government land allocations, short term tenancies and other permitted uses of land. It must be noted that: (1) the information shown on this plan is subject to update without prior notification; (2) there may be time lag between an update and the related changes taken place; and (3) the graphical boundaries as shown are for identification purpose only and interpretation of their accuracy and reliability requires the advice from professional land surveyor.

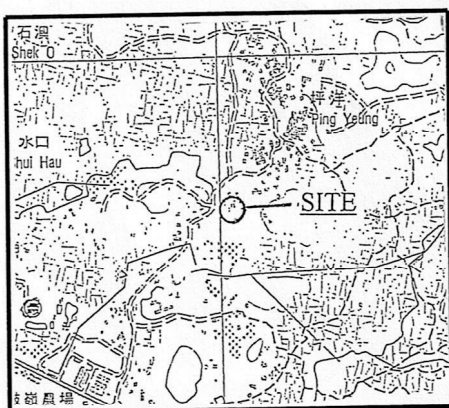
Disclaimer : The Government shall not be responsible for any loss or damage howsoever arising from the use of this plan or in reliance upon its correctness, completeness, timeliness or accuracy.

PROPOSED SMALL HOUSE

LOT No. 166 S.C IN D.D. 79



LOCATION PLAN



SCALE 1 : 20 000

Balcony

Position of Septic Tank

Coloured Pink Area = 65.03 sq.m. (About)

SIDE	DISTANCE	BEARING	NORTHING	EASTING	PT.
A-B	9.144	65° 56' 30"	843684.159	834685.005	A
B-C	7.112	155° 56' 30"	843687.887	834693.355	B
C-D	9.144	245° 56' 30"	843681.393	834696.254	C
D-A	7.112	335° 56' 30"	843677.665	834687.905	D



Survey District : North

Ref SRP's :
SRP/DN/047/8888/D1

Survey Sheet No.:
3-NW-19C

Plan No.:
DN/047/8888C/79/166C-SH

Scale 1 : 1000

TANG & ASSOCIATES SURVEYORS LTD

I, TANG SZE KIN....., an Authorized Land Surveyor registered under the Land Survey Ordinance (Cap.473), hereby certify that this land boundary plan has been prepared from land boundary surveys that were carried out by me, or under my direct supervision, in conformity with the Code of Practice approved by the Land Survey Authority under the above Ordinance, and that this plan correctly represents that survey completed on the ..24th.. day of ..November... 2011..

Dated this ..28th.. day of ..February.. 2012..

Authorized Land Surveyor

致: 城規會/有關部門

DD79 LOT 166SC

提議渠務報告 (Proposed)

1. 報告內容 簡介 內示.
2.
 - a. 業權人提議的渠管道建造是由我司自費的.
 - b. 業權人提議的渠管道日後維修保養是我司的責任.
 - c. 業權人提議的渠管道, 也明白地權是政府/私人的.
 - d. 業權人承諾會得到政府部門同意/私人地段同意才會建設渠道工程.
 - e. Email : [REDACTED]



2026年10月05日

DD79 Lot 166SC

提議渠務報告(Proposed)

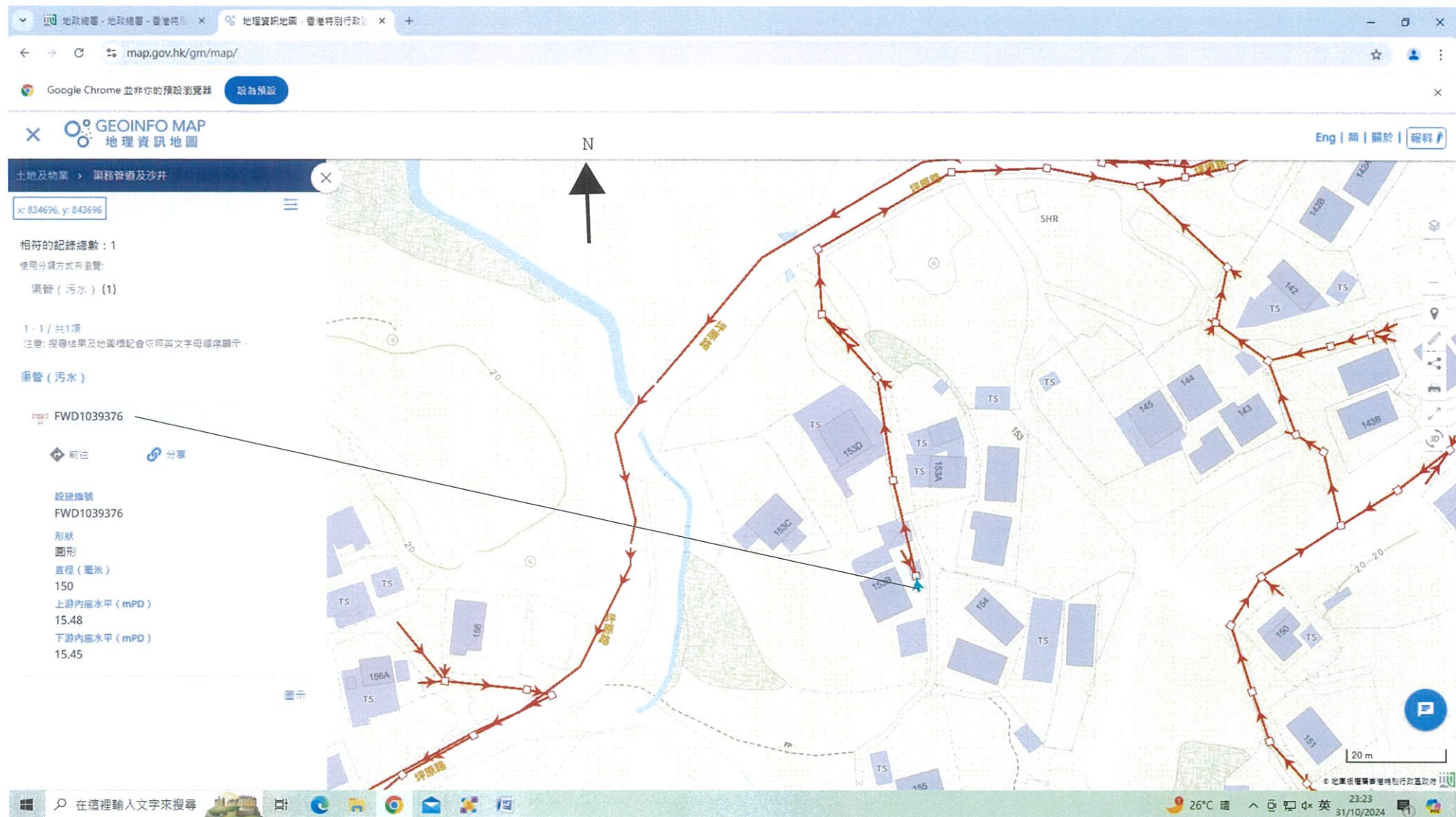
簡介

污水

a1~a3	EX Drainage Location
a4	Proposed MF
a5	污水計算
b1	Site Location Plan
b2	Proposed 污水

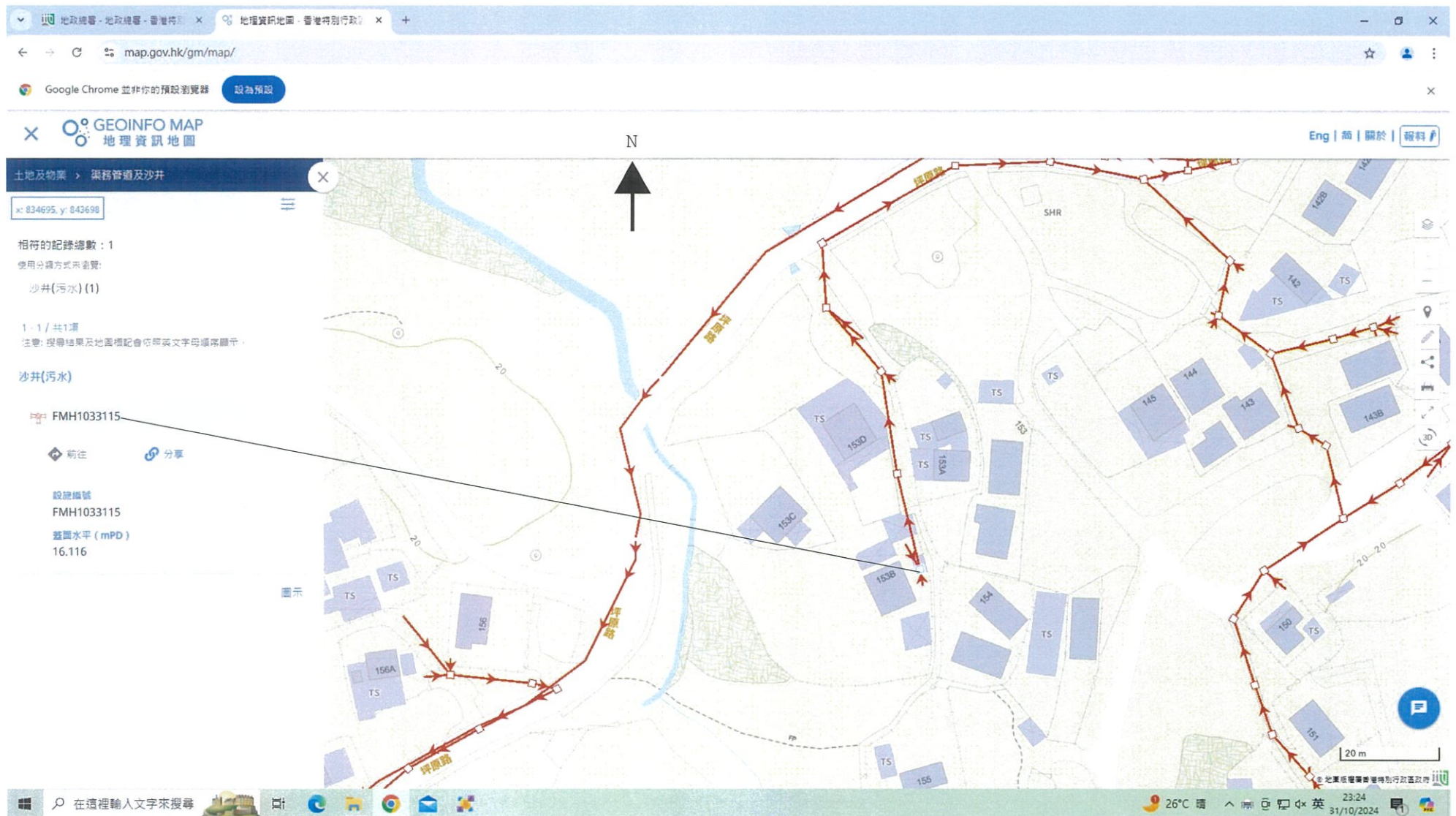
雨水

b1	EX Drainage Location & Site Location Plan
b2	Proposed 雨水路線圖
b3	雨水計算
b4~b7	Proposed UC, Proposed MH
c1~c2	現場相片和拍照位置
d1	Section Plan
e1	隔壁批准圖



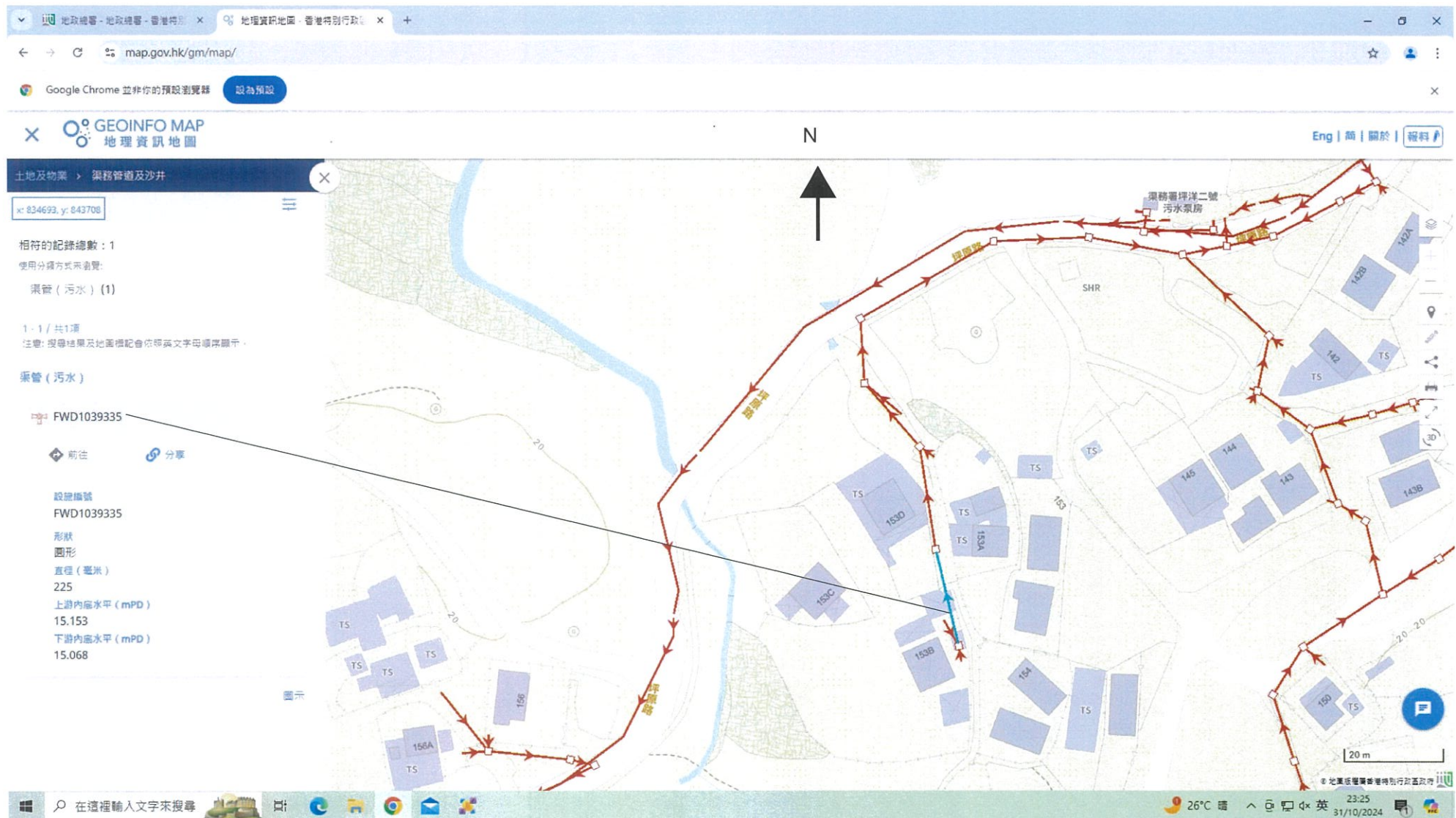
Drainage Location Plan

a1



Drainage Location Plan

a2

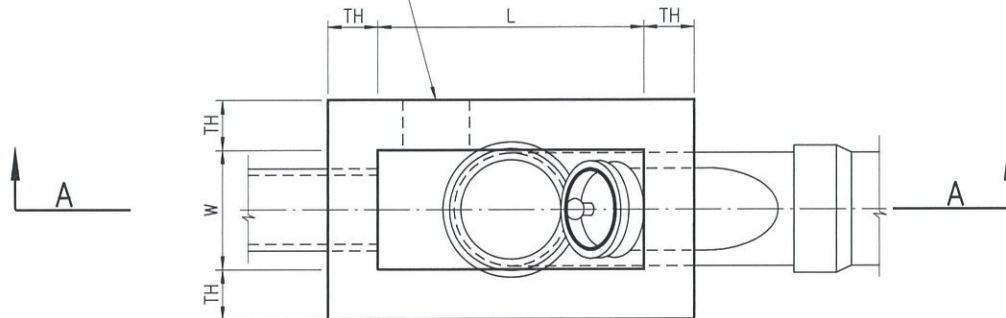


Drainage Location Plan

a3

Proposed MH T1 & T2

100 DIA. FRESH AIR INLET CONNECTED
TO AIR VENTILATION PIPE



PLAN

DEPTH FROM GROUND LEVEL TO DISCONNECTING TRAP LEVEL (DEPTH TO DTL)	MAX. DIA. OF OUTLET PIPE (D)	THICKNESS OF WALL (TH)	INTERNAL LENGTH (L)	INTERNAL WIDTH (W)	DIA. OF RODDING ARM
390 < DEPTH TO DTL ≤ 520	150	75	400	180	100
520 < DEPTH TO DTL ≤ 1 000	150	125	450	450	100
1 500 MAX.	225	150	600	600	150

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- USED IN : CONNECTIONS IN AREAS WHERE THE WORKING SPACE IS NOT ADEQUATE FOR THE CONSTRUCTION OF TERMINAL MANHOLES TYPE T1_1 & T2_1.
- FOUNDATION : FOUNDATION OF MANHOLE VARIES WITH SITE CONDITION. THEREFORE, IT SHOULD BE DETERMINED ON SITE BY THE ENGINEER.
- CONCRETE MIX : GRADE 30/20
- FOR DEPTH TO DTL GREATER THAN 520, BENCHING SHOULD BE PROVIDED.
- FOR DEPTH TO DTL GREATER THAN 1 000, DETAILS OF STEP IRONS & COVER SHOULD BE SAME AS TERMINAL MANHOLE TYPE T1_1
- EACH TERMINAL MANHOLE SHOULD BE PROPERLY AIR VENTED IN ORDER TO AVOID BUILDING UP OF GASES INSIDE THE TERMINAL MANHOLE. THE FRESH AIR INLET OF THE MANHOLE CAN ONLY BE OMITTED IF OTHER ACCEPTABLE ARRANGEMENTS THAT SERVE THE PURPOSE OF AIR VENTILATION ARE PROVIDED IN THE UPSTREAM INTERNAL SEWERAGE.

a4

	NEW ISSUE	ORIGINAL SIGNED	13.1.2016
REV.	DESCRIPTION	SIGNATURE	DATE

**TERMINAL MANHOLE
TYPE T10_1**

DRAINAGE SERVICES DEPARTMENT

REFERENCE

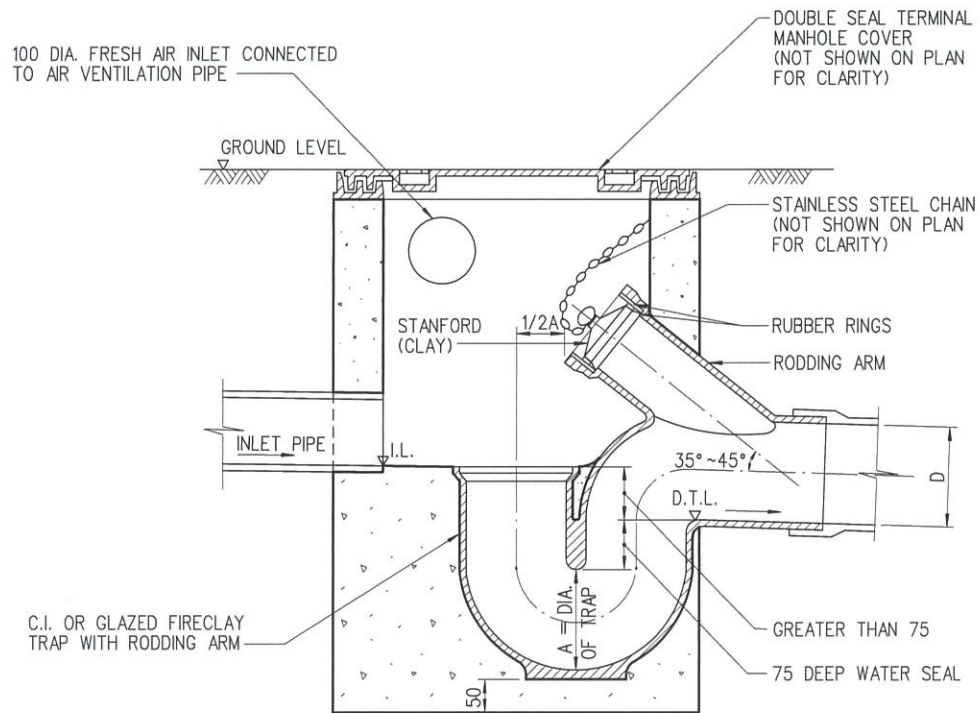
DRAWING No.

SCALE

1 : 10

DS 1094
(SHEET 1 OF 2)

Proposed MH T1 & T2



SECTION A-A

a4

	NEW ISSUE	ORIGINAL SIGNED	13.1.2016
REV.	DESCRIPTION	SIGNATURE	DATE
DRAINAGE SERVICES DEPARTMENT			
REFERENCE		DRAWING No.	
SCALE		DS 1094	
1 : 10		(SHEET 2 OF 2)	

**TERMINAL MANHOLE
TYPE T10_1**

(1) *Colebrook-White Equation.* The Colebrook-White equation can be applied to analyze a wide range of flow conditions. The Colebrook-White equation is

(i) for circular pipes flowing full,

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

(ii) for partially full pipes or pipes with non-circular cross-sections,

$$V = -\sqrt{(32gRs)} \log\left(\frac{ks}{14.8R} + \frac{1.255v}{R\sqrt{(32gRs)}}\right)$$

where

V = mean velocity (m/s)

g = gravitational acceleration (m/s²)

R = hydraulic radius (m)

D = internal pipe diameter (m)

ks = hydraulic pipeline roughness (m)

v = kinematic viscosity of fluid (m²/s)

s = hydraulic gradient (energy loss per unit length due to friction)

(i)

g = 9.81

R = 0.0375

D = 0.15

ks = 0.15

v = 1.004718E-06

s = 0.033

0.15 m uPVC Pipe

V = 0.156 m/s

Table T-1 : Unit Flow Factors for Domestic Flows

	Unit	Datum (2002) (m ³ /day)	Increase per Annum (m ³ /day)	Planning for Future (m ³ /day)
Domestic (housing type specific)				
Public rental		0.190	-	0.190
Private R1	person	0.190	-	0.190
R2	person	0.270	-	0.270
R3	person	0.340	0.003	0.370
R4	person	0.340	0.003	0.370
Traditional village	person	0.150	-	0.150
Modern village	person	0.270	-	0.270
Institutional and special class	person	0.190	-	0.190
Temporary and non-domestic	person	0.150	-	0.150
Mobile residents	person	0.190	-	0.190

Table T-5 : Peaking Factors, P

Population Range	Peaking Factor (including stormwater allowance) for facility with existing upstream sewerage	Peaking Factor (excluding stormwater allowance) for facility with new upstream sewerage
(a) For sewers		
<1,000	8	6
1,000 – 5,000	6	5
5,000 – 10,000	5	4
10,000 – 50,000	4	3
>50,000	$\text{Max}\left(\frac{7.3}{N^{0.15}}, 2.4\right)$	$\text{Max}\left(\frac{6}{N^{0.15}}, 1.6\right)$

每座小型屋宇污水量 = 0.000025 m³/S

0.15 m(uPVC Pipe) V 0.156 m/s

Design Pipe

0.15 m uPVC Pipe 0.0028 m³/S

0.91 %

Hydraulic Checks for Design Capacity of (uPVC)150dia. Pipe is Acceptable

(1) *Colebrook-White Equation.* The Colebrook-White equation can be applied to analyze a wide range of flow conditions. The Colebrook-White equation is

(i) for circular pipes flowing full,

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

(ii) for partially full pipes or pipes with non-circular cross-sections,

$$V = -\sqrt{(32gRs)} \log\left(\frac{ks}{14.8R} + \frac{1.255\nu}{R\sqrt{(32gRs)}}\right)$$

where

V = mean velocity (m/s)

g = gravitational acceleration (m/s²)

R = hydraulic radius (m)

D = internal pipe diameter (m)

ks = hydraulic pipeline roughness (m)

ν = kinematic viscosity of fluid (m²/s)

s = hydraulic gradient (energy loss per unit length due to friction)

(i)

g = 9.81

R = 0.05

D = 0.2

ks = 0.15

ν = 1.004718E-06

s = 0.01

0.2 m uPVC Pipe

V = 0.077 m/s

Table T-1 : Unit Flow Factors for Domestic Flows

	Unit	Datum (2002) (m ³ /day)	Increase per Annum (m ³ /day)	Planning for Future (m ³ /day)
Domestic (housing type specific)				
Public rental		0.190	-	0.190
Private R1	person	0.190	-	0.190
R2	person	0.270	-	0.270
R3	person	0.340	0.003	0.370
R4	person	0.340	0.003	0.370
Traditional village	person	0.150	-	0.150
Modern village	person	0.270	-	0.270
Institutional and special class	person	0.190	-	0.190
Temporary and non-domestic	person	0.150	-	0.150
Mobile residents	person	0.190	-	0.190

Table T-5 : Peaking Factors, P

Population Range	Peaking Factor (including stormwater allowance) for facility with existing upstream sewerage	Peaking Factor (excluding stormwater allowance) for facility with new upstream sewerage
(a) For sewers		
<1,000	8	6
1,000 – 5,000	6	5
5,000 – 10,000	5	4
10,000 – 50,000	4	3
>50,000	$\text{Max} \left(\frac{7.3}{N^{0.15}}, 2.4 \right)$	$\text{Max} \left(\frac{6}{N^{0.175}}, 1.6 \right)$

每座小型屋宇污水量 = 0.000025 m³/S

0.2 m(uPVC Pipe) V 0.077 m/s

Design Pipe

0.2 m uPVC Pipe 0.0024 m³/S

1.04 %

Hydraulic Checks for Design Capacity of (uPVC)150dia. Pipe is Acceptable

Table 5 (Cont'd)

Classification (see note 1)	Suitable values of k_s (mm)		
	Good	Normal	Poor
Clayware			
Glazed or unglazed pipe:			
With sleeve joints	0.03	0.06	0.15
With spigot and socket joints and 'O' ring seals dia < 150mm	-	0.03	-
With spigot and socket joints and 'O' ring seals dia > 150mm	-	0.06	-
Pitch Fibre (lower value refers to full bore flow)	0.003	0.03	-
Glass Reinforced Plastic (GRP)	0.03	0.06	-
uPVC			
Twin-walled, with coupling joint	0.003	0.006	
Standard, with chemically cemented joints	-	0.03	-
Standard, with spigot and socket joints, 'O' ring seals at 6 m to 9 m intervals	-	0.06	-
New Relining of Sewers/Drains			
Factory manufactured GRP	0.03	-	-
Brickworks			
Glazed	0.6	1.5	3.0
Well pointed	1.5	3.0	6.0
Old, in need of pointing	-	15	30
Slimed Sewers/Drains (see note 3)			
Sewers/drains slimed to about half depth; velocity, when flowing half full, approximately 0.75 m/s:			
Concrete, spun or vertically cast	-	3.0	6.0
Asbestos cement	-	3.0	6.0
Clayware	-	1.5	3.0
uPVC	-	0.6	1.5
Sewers/drains slimed to about half depth; velocity, when flowing half full, approximately 1.2 m/s :			
Concrete, spun or vertically cast	-	1.5	3.0
Asbestos cement	-	0.6	1.5
Clayware	-	0.3	0.6
uPVC	-	0.15	0.3

Environmental Protection Department



環 境 保 護 署

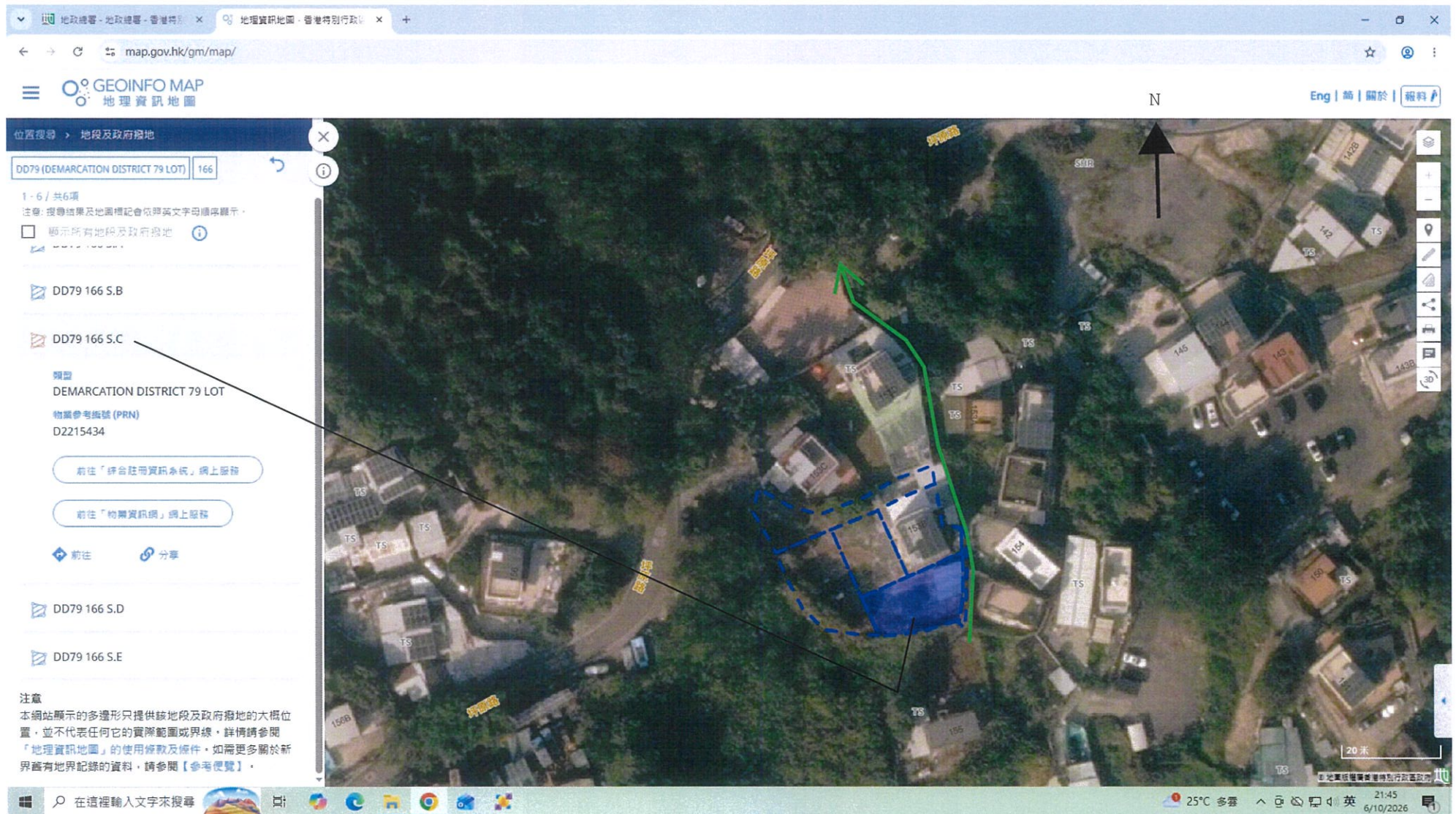
Technical Paper

Report No.: EPD/TP 1/05

Guidelines for Estimating Sewage Flows
for Sewage Infrastructure Planning
Version 1.0

技 術 文 件

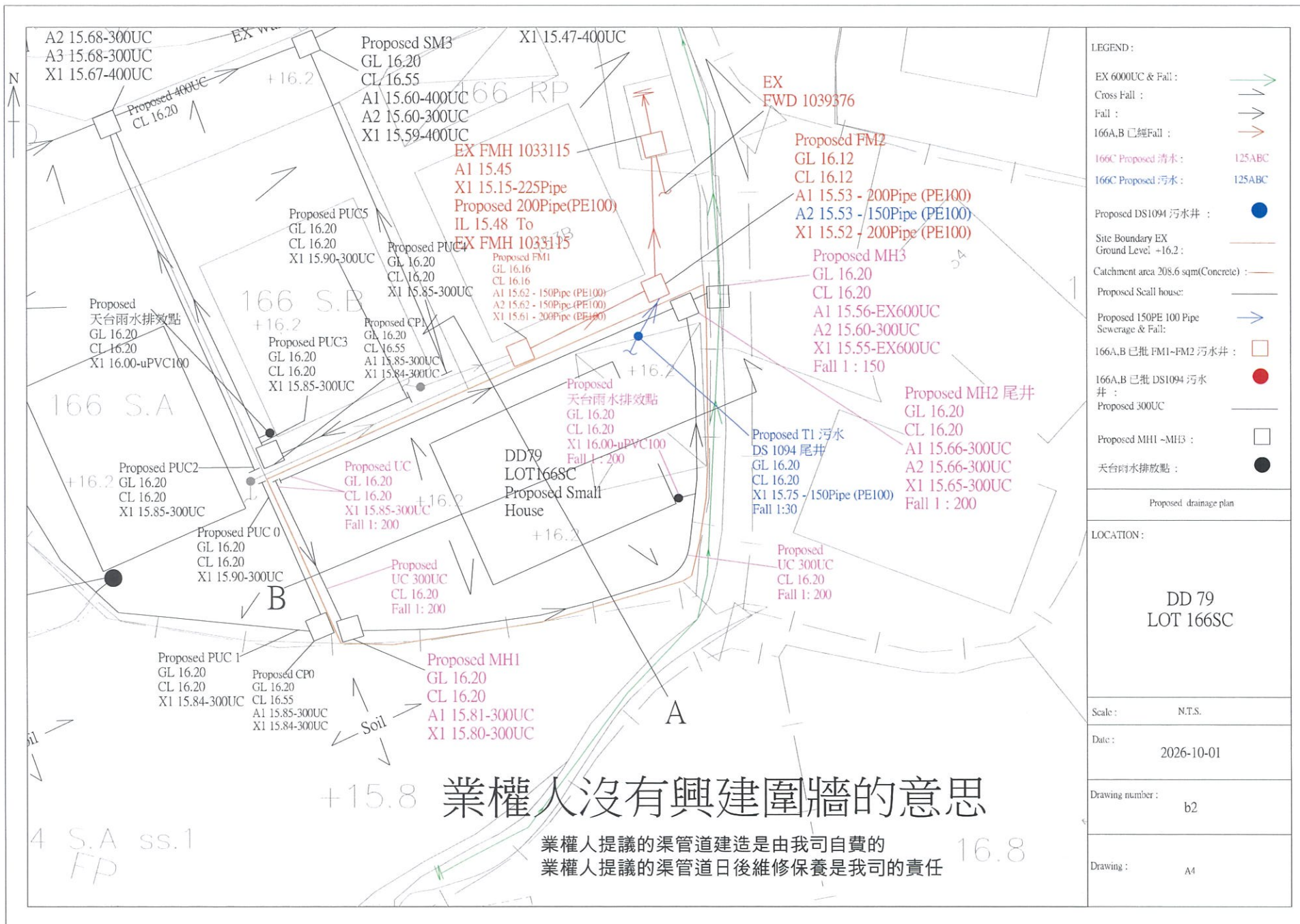
a5



→ =EX 600UC & Fall

Site Location Plan

b1



- LEGEND :
- EX 600UC & Fall :
 - Cross Fall :
 - Fall :
 - 166A,B 已經Fall :
 - 166C Proposed 清水 : 125ABC
 - 166C Proposed 污水 : 125ABC
 - Proposed DS1094 污水井 :
 - Site Boundary EX Ground Level +16.2 :
 - Catchment area 208.6 sqm(Concrete) :
 - Proposed Scall house:
 - Proposed 150PE 100 Pipe Sewerage & Fall:
 - 166A,B 已批 FM1-FM2 污水井 :
 - 166A,B 已批 DS1094 污水井 :
 - Proposed 300UC :
 - Proposed MH1 ~MH3 :
 - 天台雨水排放點 :

Proposed drainage plan
LOCATION :
DD 79 LOT 166SC
Scale : N.T.S.
Date : 2026-10-01
Drawing number : b2
Drawing : A4

Rational method

$$Q = C i A$$

i = rainfall intensity

$$t_0 = \frac{0.14465L}{H^{0.2} A^{0.1}}$$

DD79 LOT 166SC

Proposed 300UC

L = 53
H = 0.3
A = 208.6

Concrete	0.14465
L =	53 m
H =	0.3 m
A =	208.6 m ²
t_0 =	5.72 min

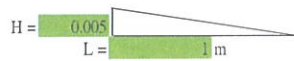
50 Year Rainwater Intensity	intensity	210	m/hr			16%
		0.21	/	3600	*	1.16
	intensity =	6.76667E-05 m/s				

$$Q_p = C \times i \times A$$

C =	0.95
i =	6.77E-05 m/s
A =	208.6 m ²
Q_p =	0.01341 m ³ /s

DD79 LOT 166SC

Q(m discharge of open channel) 0.085626 m³/s



Area	=	0.3 * 0.3	0.09
P	=	0.3 * 2 + 0.3	0.9
R_h	=		0.1
n	=	0.016	Concrete
$S_0 = H/L$		0.005	1
			0.005



DD79 LOT 166SC

Q(m³/s) = 0.085626 m³/s

DD79 LOT 166SC

Q(m³/s) = 0.085626 m³/s

50 Year Rainwater Intensity 300mm channel

Concrete Q(m³/s) = 0.01341 m³/s

DD79 LOT 166SC

% = 0.085626

% = 0.01341

Q(m³/s) = 15.7 % OK

Drainage Impact assessment report of 300 mm channel is Acceptable

b3

DD116 EX 600UC

Q(m discharge of open channel) 0.595724 m³/s

$$H = \frac{0.006}{L = 1 \text{ m}}$$

Area	=	0.6 * 0.6	0.36
P	=	0.6+0.6+0.6	1.8
R _h	=		0.200
n	=	0.016	Concrete
S ₀ = H/L		0.006	1 0.006



DD116 EX 600UC

Q(m³/s) = 0.595724 m³/s

EX600UC

Q(m³/s) = 0.595724 m³/s

50 Year Rainwater Intensity DD79 LOT 166C

Q(m³/s) = 0.01341 m³/s

DD79 LOT 166C to (EX 600UC)

% = 0.595724

% = 0.01341

Q(m³/s) = 2.3 % OK

Drainage Impact assessment report of 600mm U-channel is small

b3

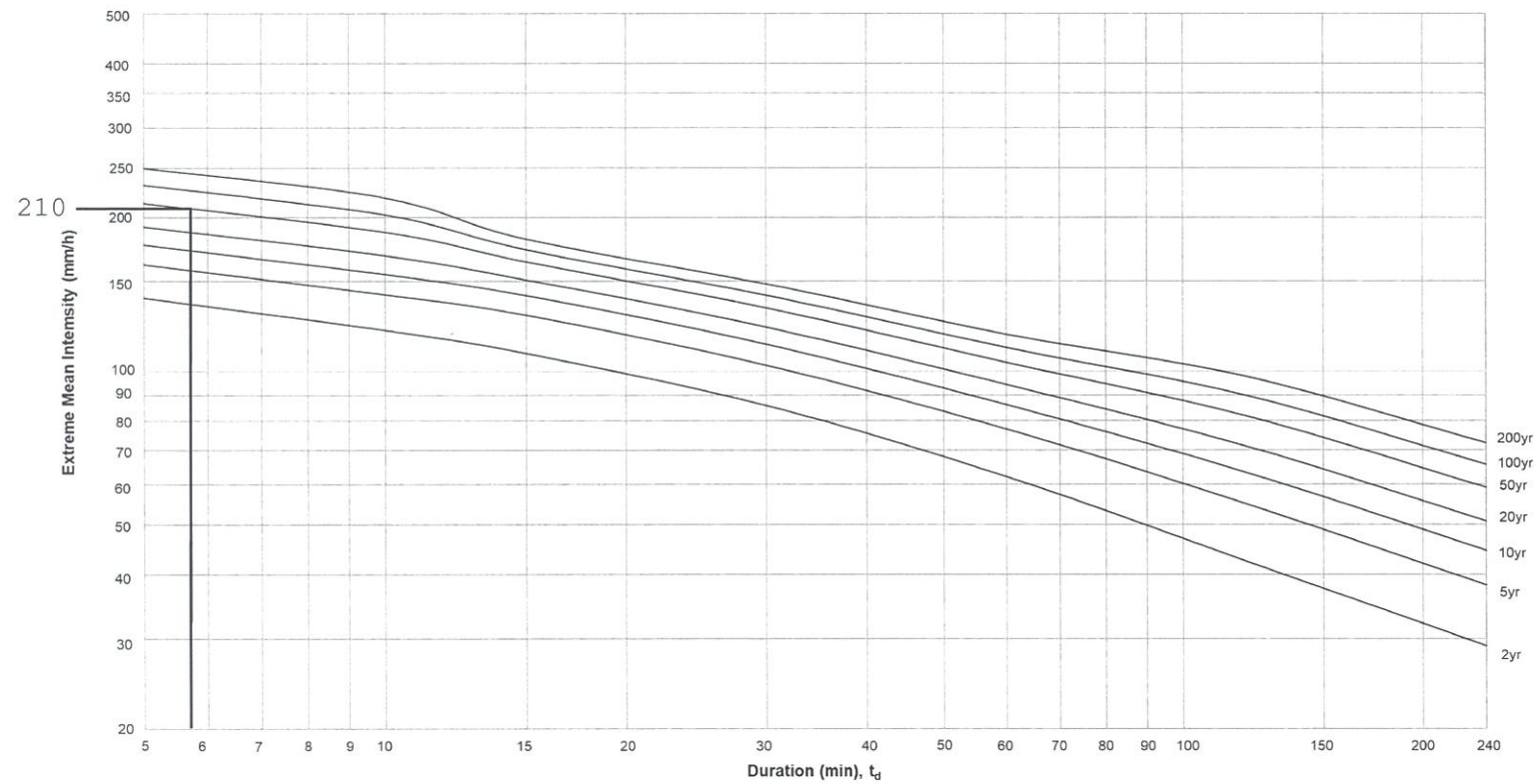
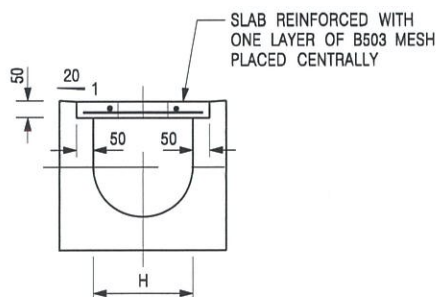


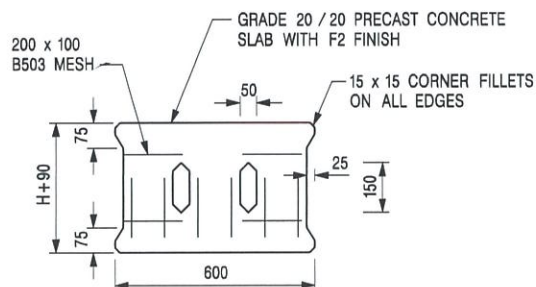
Figure 4d – Intensity-Duration-Frequency Curves of North District Area
(for durations not exceeding 4 hours)

b3

Proposed 300UC



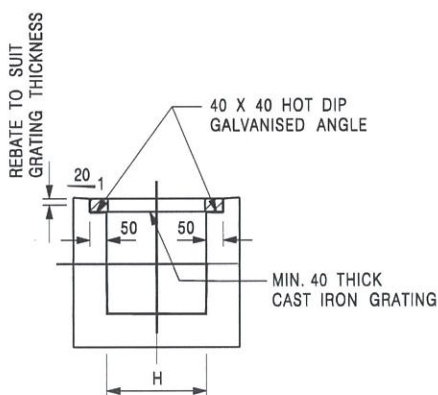
TYPICAL SECTION



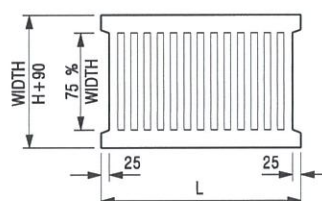
PLAN OF SLAB

U-CHANNELS WITH PRECAST CONCRETE SLABS

(UP TO H OF 525)



TYPICAL SECTION



L = 600mm FOR H ≤ 375mm
L = 400mm FOR H > 375mm

CAST IRON GRATING

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

U-CHANNEL WITH CAST IRON GRATING

(UP TO H OF 525)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. H=NOMINAL CHANNEL SIZE.
3. ALL CAST IRON FOR GRATINGS SHALL BE GRADE EN-GJL-150 COMPLYING WITH BS EN 1561.
4. FOR COVERED CHANNELS TO BE HANDED OVER TO HIGHWAYS DEPARTMENT FOR MAINTENANCE, THE GRATING DETAILS SHALL FOLLOW THOSE AS SHOWN ON HYD STD. DRG. NO. H3156.

b4

E	NOTES 3 & 4 AMENDED.	Original Signed	12.2014
D	NOTE 4 ADDED.	Original Signed	06.2008
C	MINOR AMENDMENT. NOTE 3 ADDED.	Original Signed	12.2005
B	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
A	CAST IRON GRATING AMENDED.	Original Signed	12.2002
REF.	REVISION	SIGNATURE	DATE

COVER SLAB AND CAST IRON
GRATING FOR CHANNELS



CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

SCALE 1 : 20

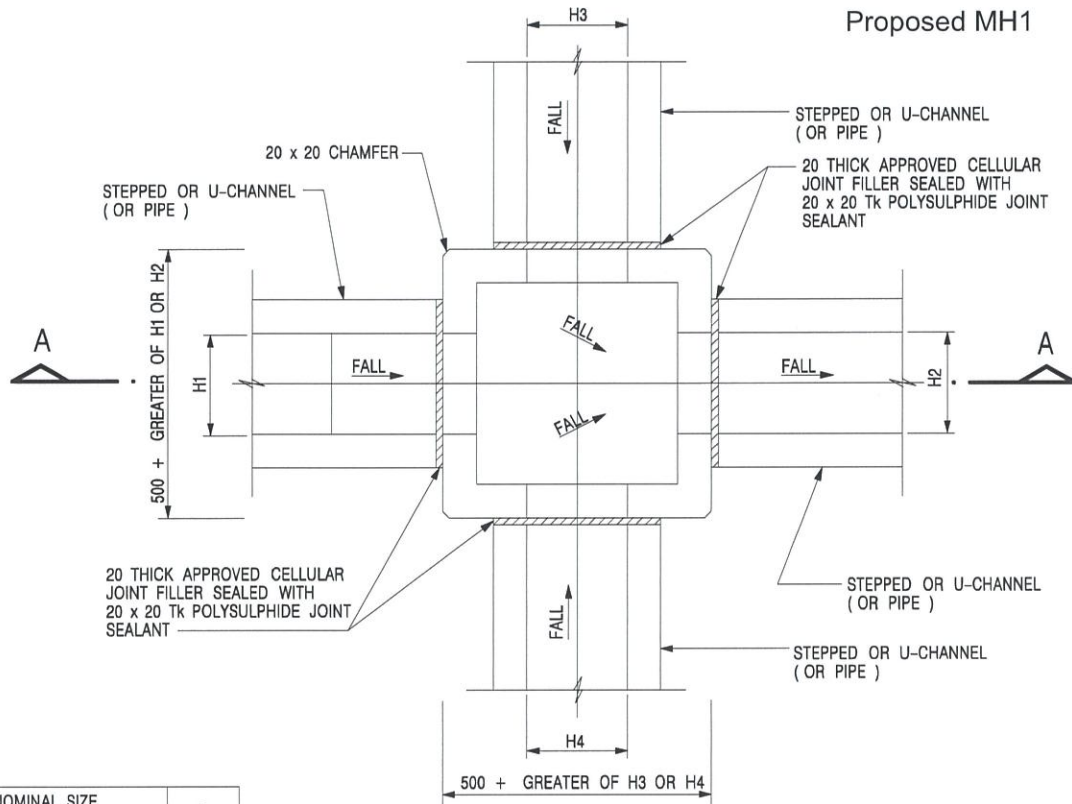
DATE JAN 1991

DRAWING NO.
C2412E

卓越工程 建設香港

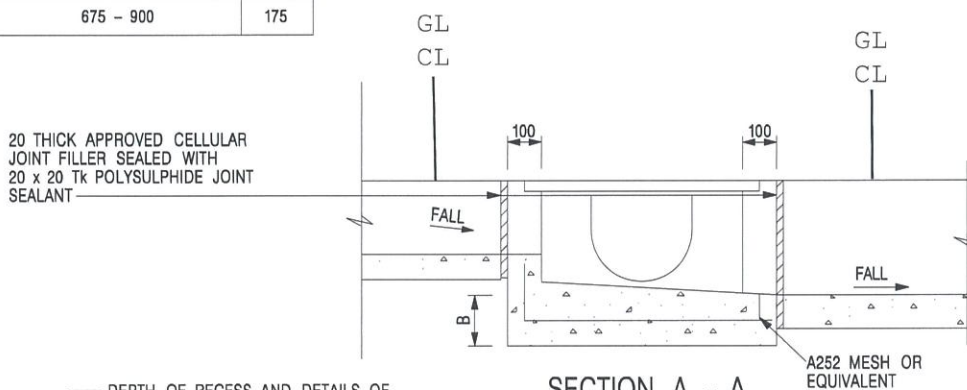
We Engineer Hong Kong's Development

Proposed MH1

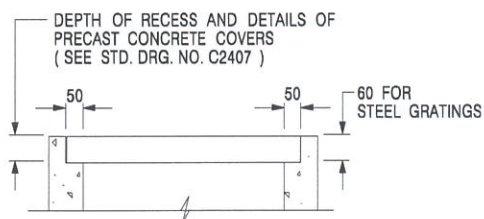


NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
225 - 600	150
675 - 900	175

PLAN



SECTION A - A



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 5 FOR OTHER NOTES.

ALTERNATIVE TOP SECTION FOR
PRECAST CONCRETE COVERS / GRATINGS

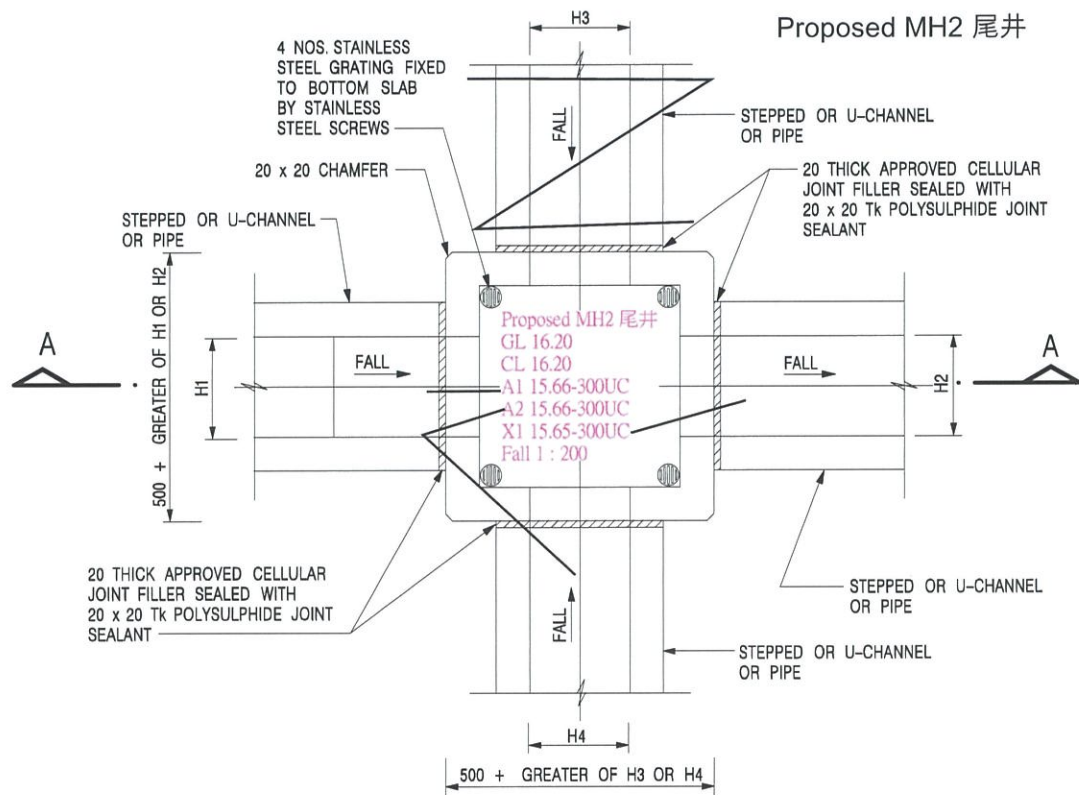
b5

REF.	REVISION	Original Signed	SIGNATURE
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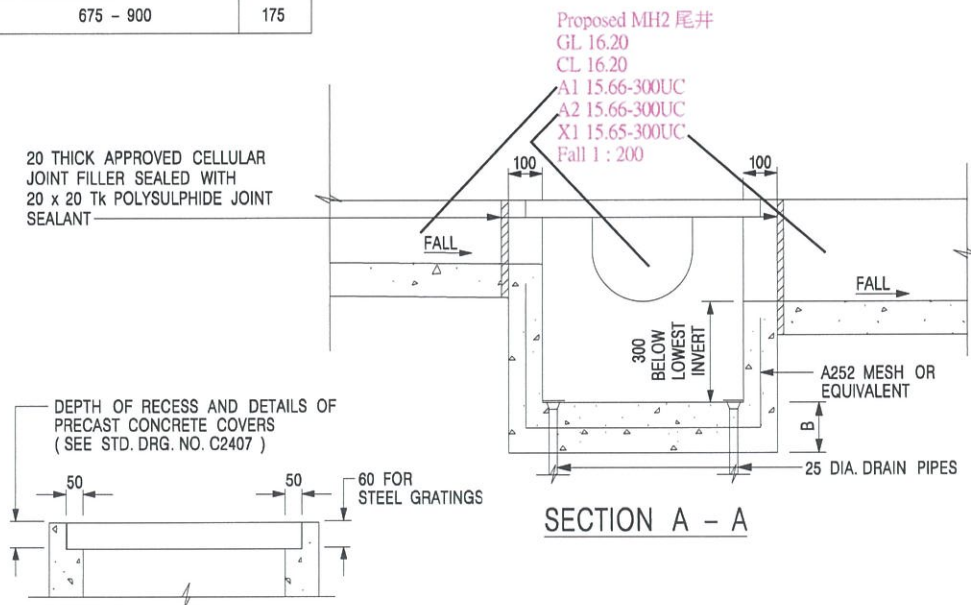
STANDARD CATCHPIT DETAILS
(SHEET 1)

SCALE 1 : 20

DRAWING NO.
C2405 /1



NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
225 - 600	150
675 - 900	175



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- REFER TO SHEET 2 FOR OTHER NOTES.

b6

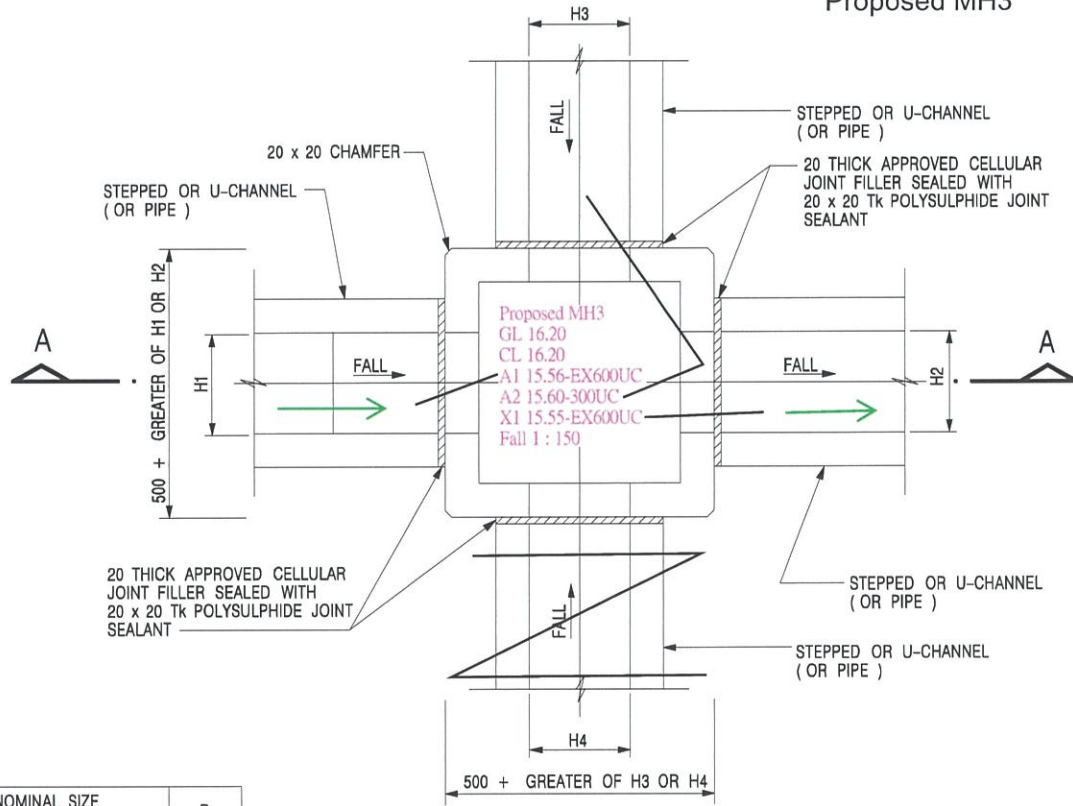
REF.	REVISION	Original Signed	SIGNATURE	DATE
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**CATCHPIT WITH TRAP
(SHEET 1)**

SCALE 1 : 20
DATE

DRAWING NO.
C2406 /1

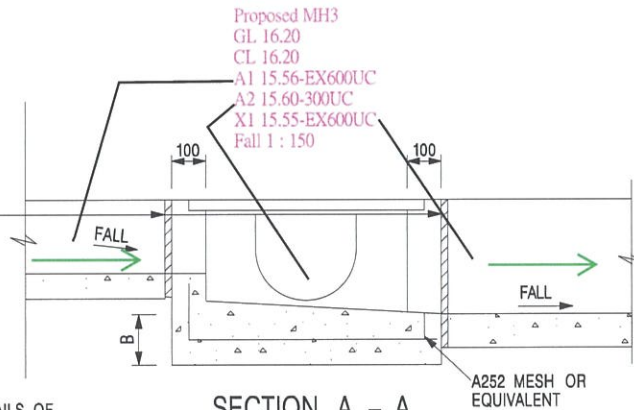
Proposed MH3



PLAN

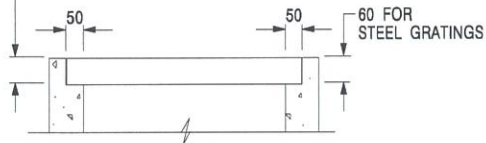
NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
225 - 600	150
675 - 900	175

20 THICK APPROVED CELLULAR JOINT FILLER SEALED WITH 20 x 20 Tk POLYSULPHIDE JOINT SEALANT



SECTION A - A

DEPTH OF RECESS AND DETAILS OF PRECAST CONCRETE COVERS (SEE STD. DRG. NO. C2407)



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 5 FOR OTHER NOTES.

ALTERNATIVE TOP SECTION FOR
PRECAST CONCRETE COVERS / GRATINGS

b7

STANDARD CATCHPIT DETAILS
(SHEET 1)

REF.	REVISION	Original Signed	SIGNATURE
SCALE 1 : 20		DRAWING NO. C2405 /1	

LEGEND: → EX 1500UC (Soil) & Fall
 → EX 600UC & Fall
 → EX 600Pipe & Fall

c1

1

LOT 166SC
(Site)



2

FMH1033115

LOT 166RP



3



4



5



6



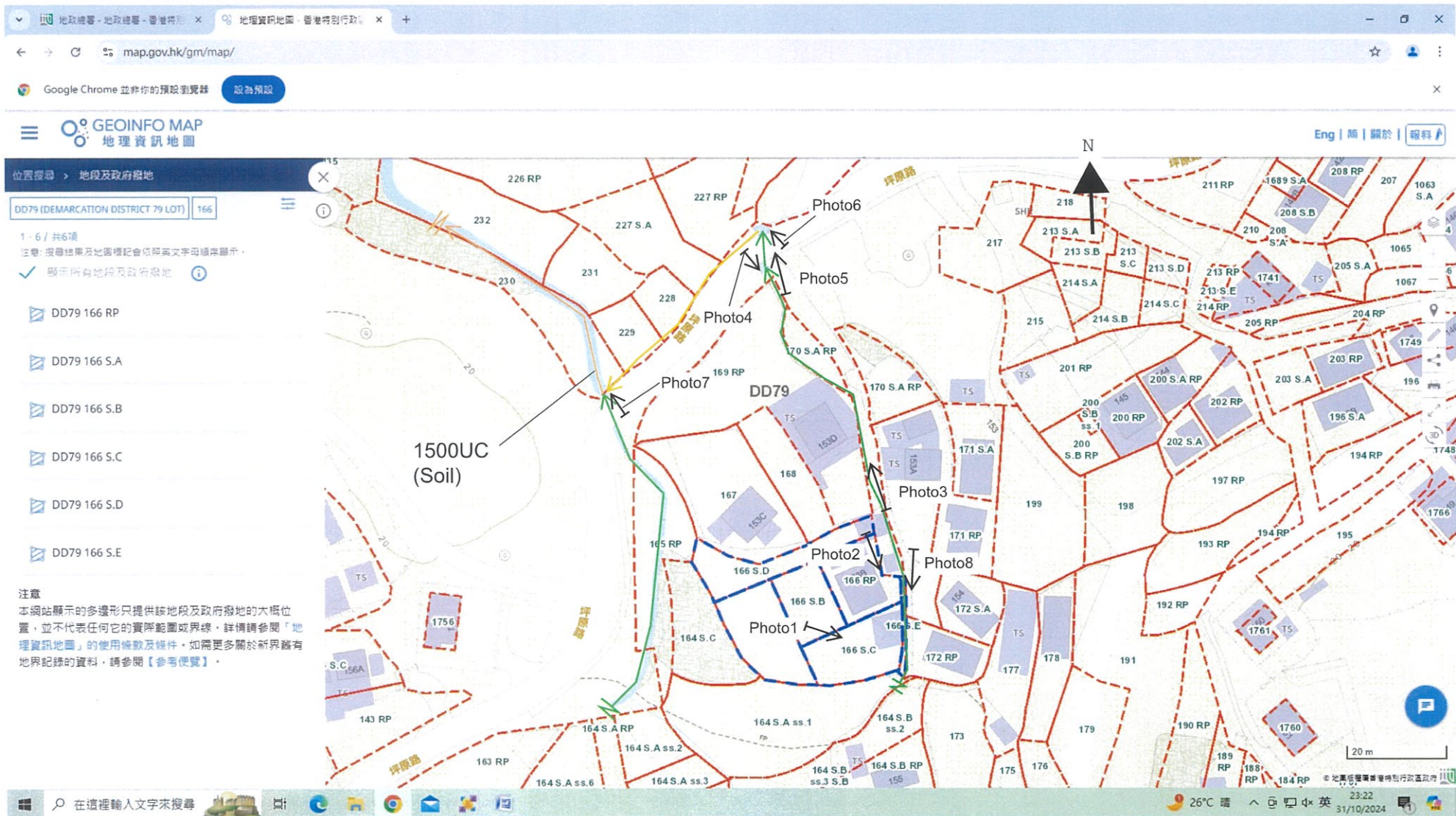
7



8

Proposed
MH3

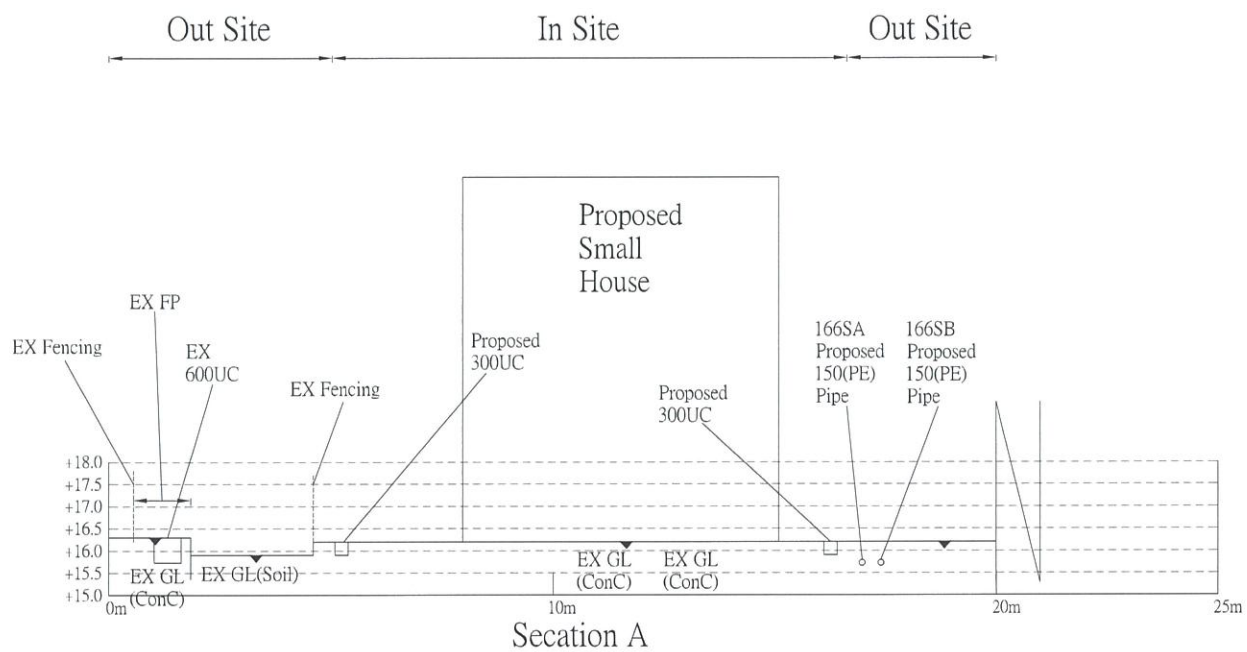
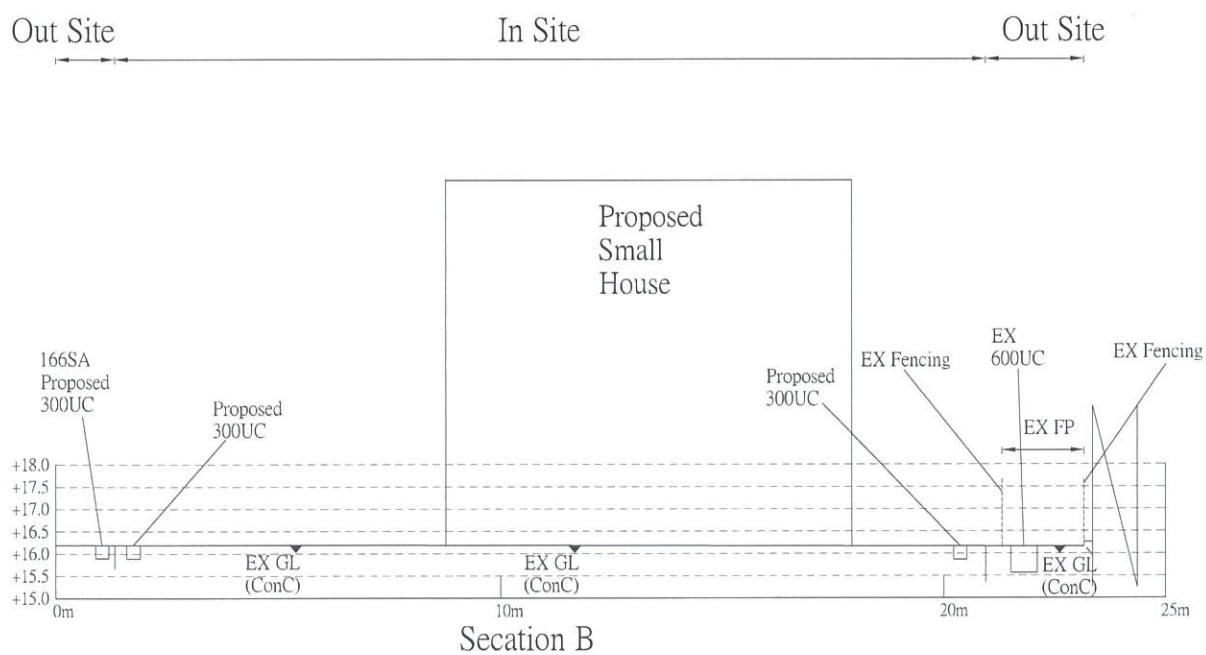




LEGEND:

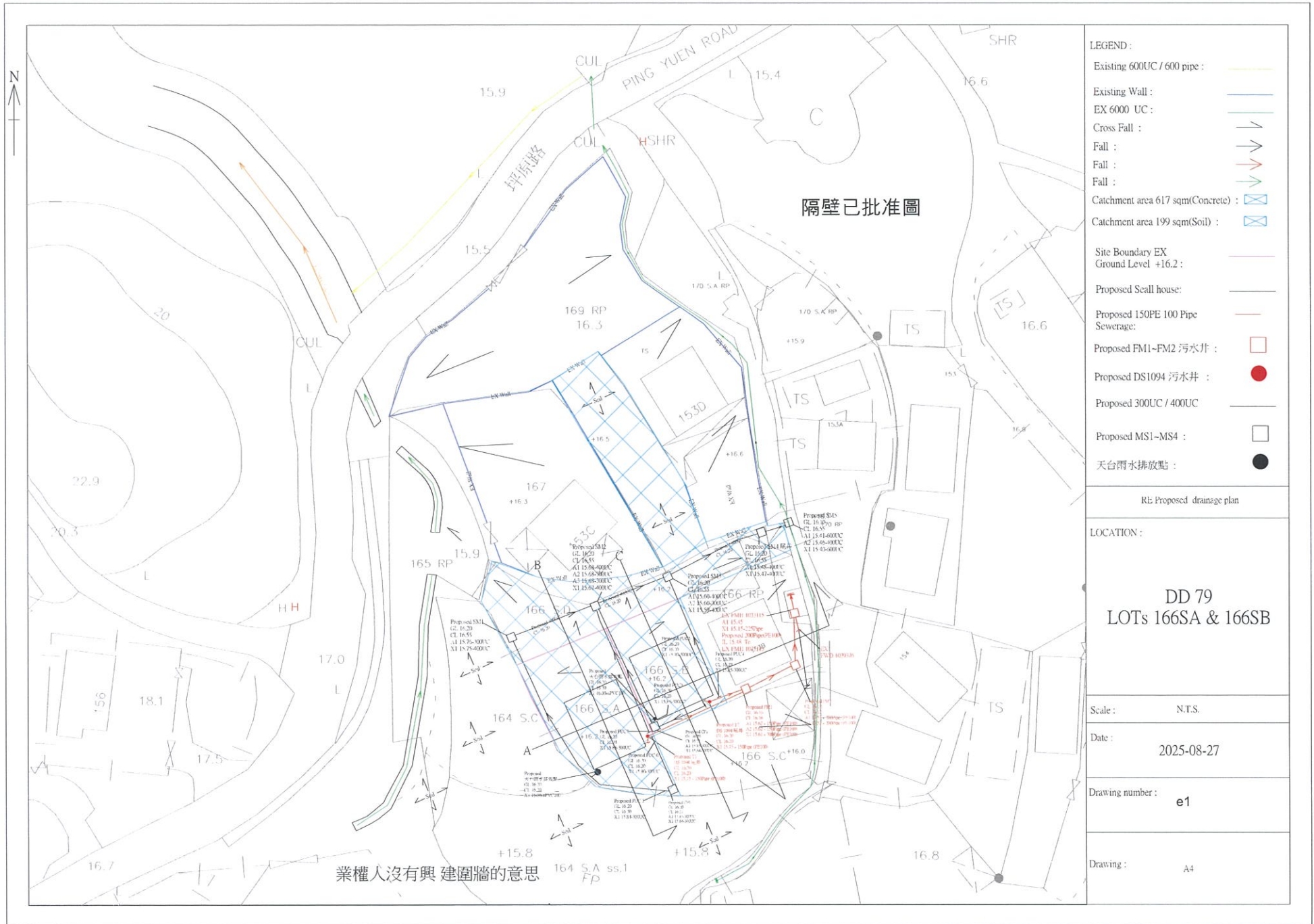
- EX 1500UC (Soil) & Fall
- EX 600UC & Fall
- EX 600Pipe & Fall

Photo Location
c2



d1 Secation

Scale : 1:150 A4



LEGEND :

- Existing 600UC / 600 pipe :
- Existing Wall :
- EX 6000 UC :
- Cross Fall :
- Fall :
- Fall :
- Fall :
- Catchment area 617 sqm(Concrete) :
- Catchment area 199 sqm(Soil) :
- Site Boundary EX :
- Ground Level +16.2 :
- Proposed Scall house :
- Proposed 150PE 100 Pipe Sewerage :
- Proposed FM1~FM2 污水井 :
- Proposed DS1094 污水井 :
- Proposed 300UC / 400UC :
- Proposed MS1~MS4 :
- 天台雨水排放點 :

RE Proposed drainage plan

LOCATION :

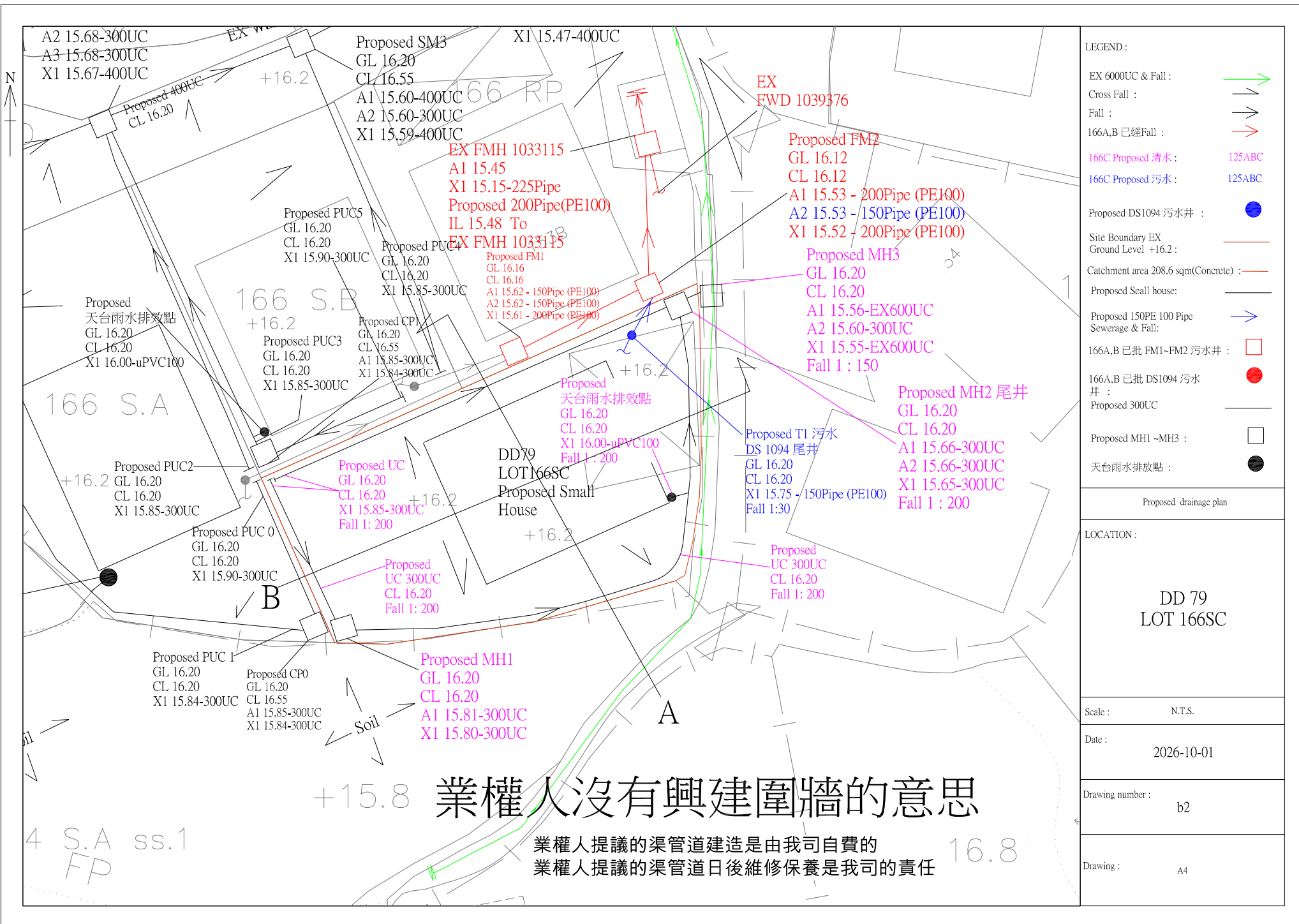
DD 79
LOTs 166SA & 166SB

Scale : N.T.S.

Date : 2025-08-27

Drawing number : e1

Drawing : A4



致: 城規會/有關部門

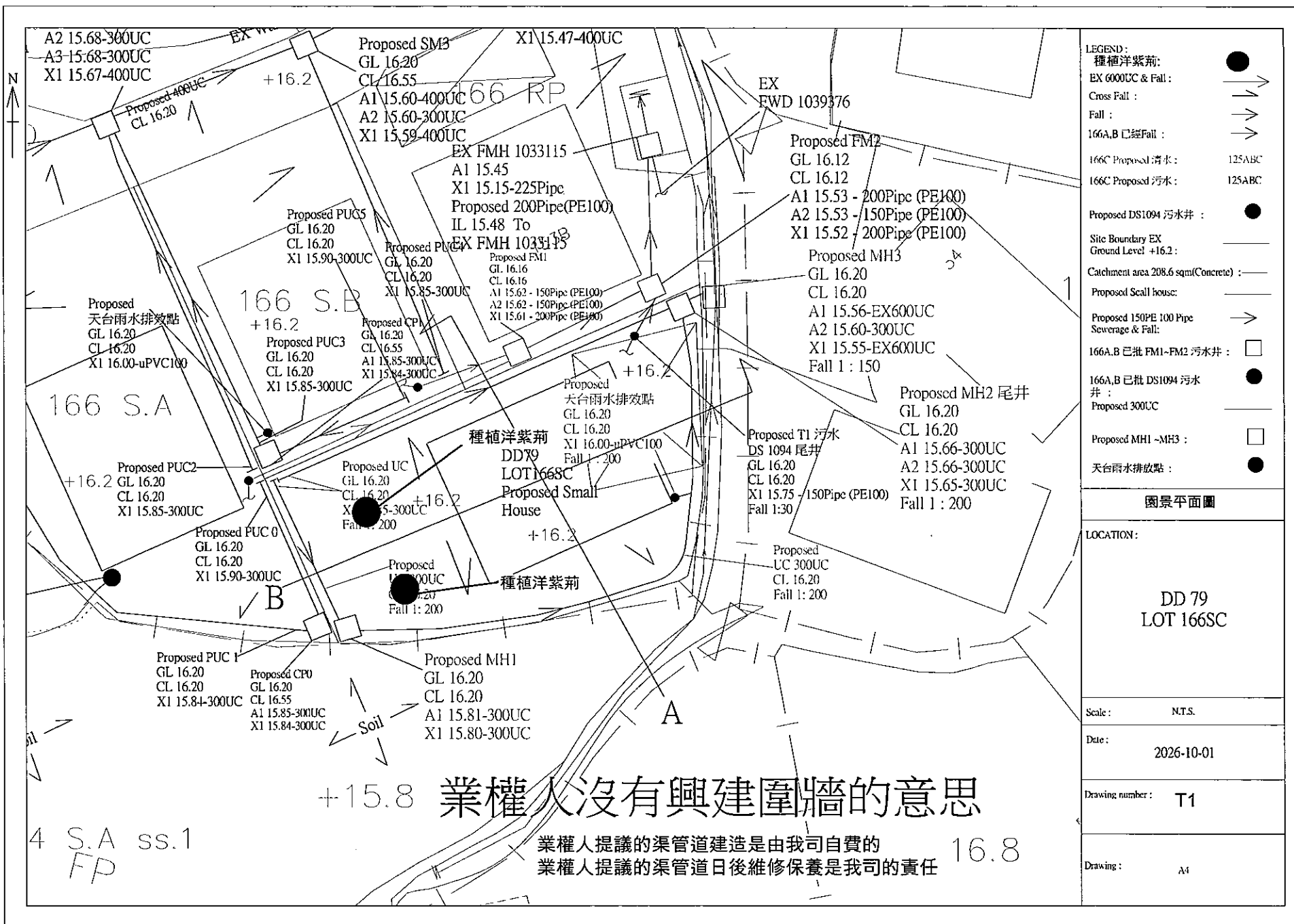
DD79 LOT 166C

美化環境報告

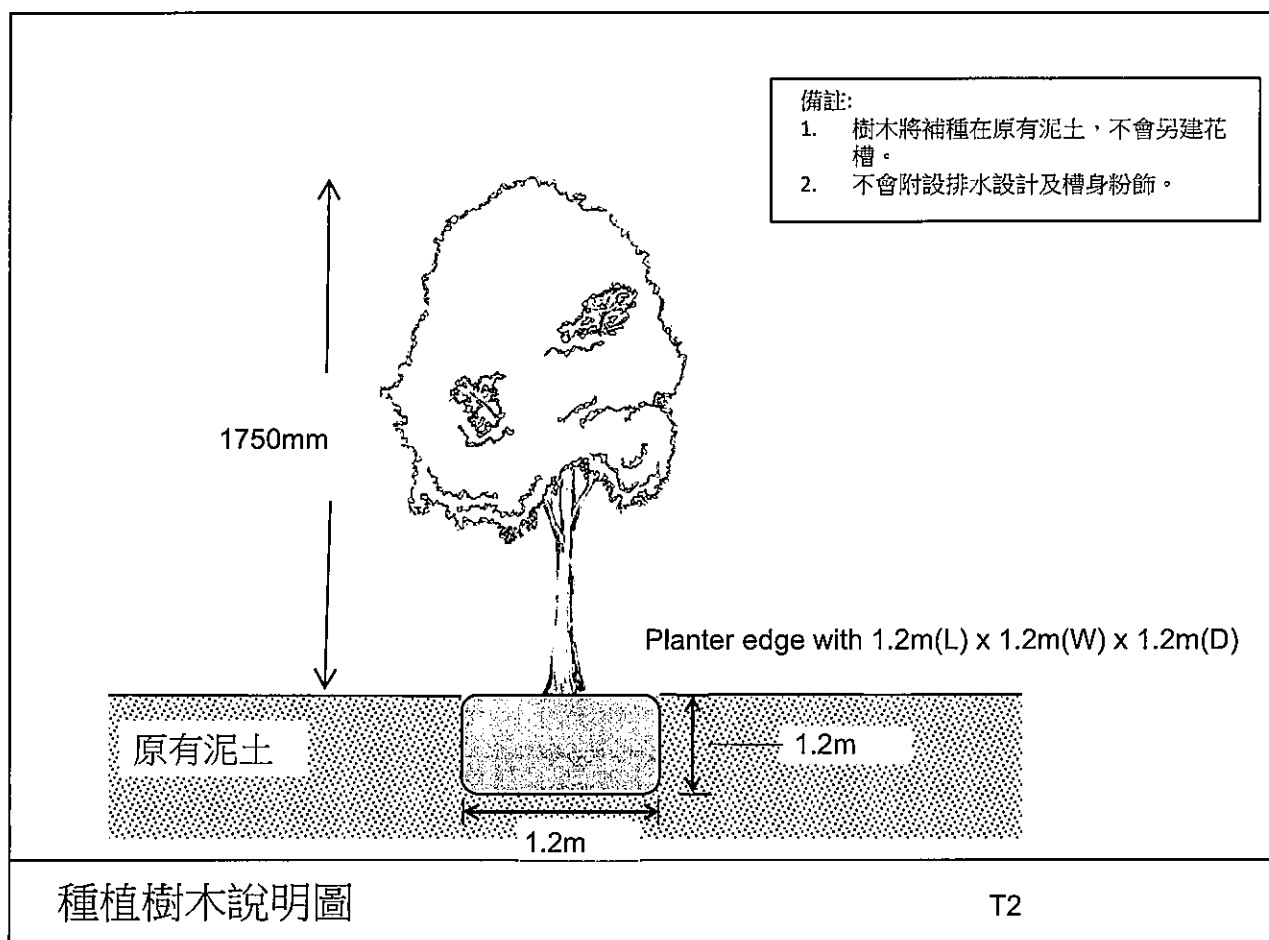
1. 種植位置與種樹品種高度等等 (T1 ~ T2)
2.
 - a. 業權人提議的種植是由我司自費的.
 - b. 業權人提議的日後保養是我司的責任.
 - c. 業權人提議的明白地權是私人的.
 - d. 業權人承諾會得到政府部門同意/私人地段同意才會種植工程.

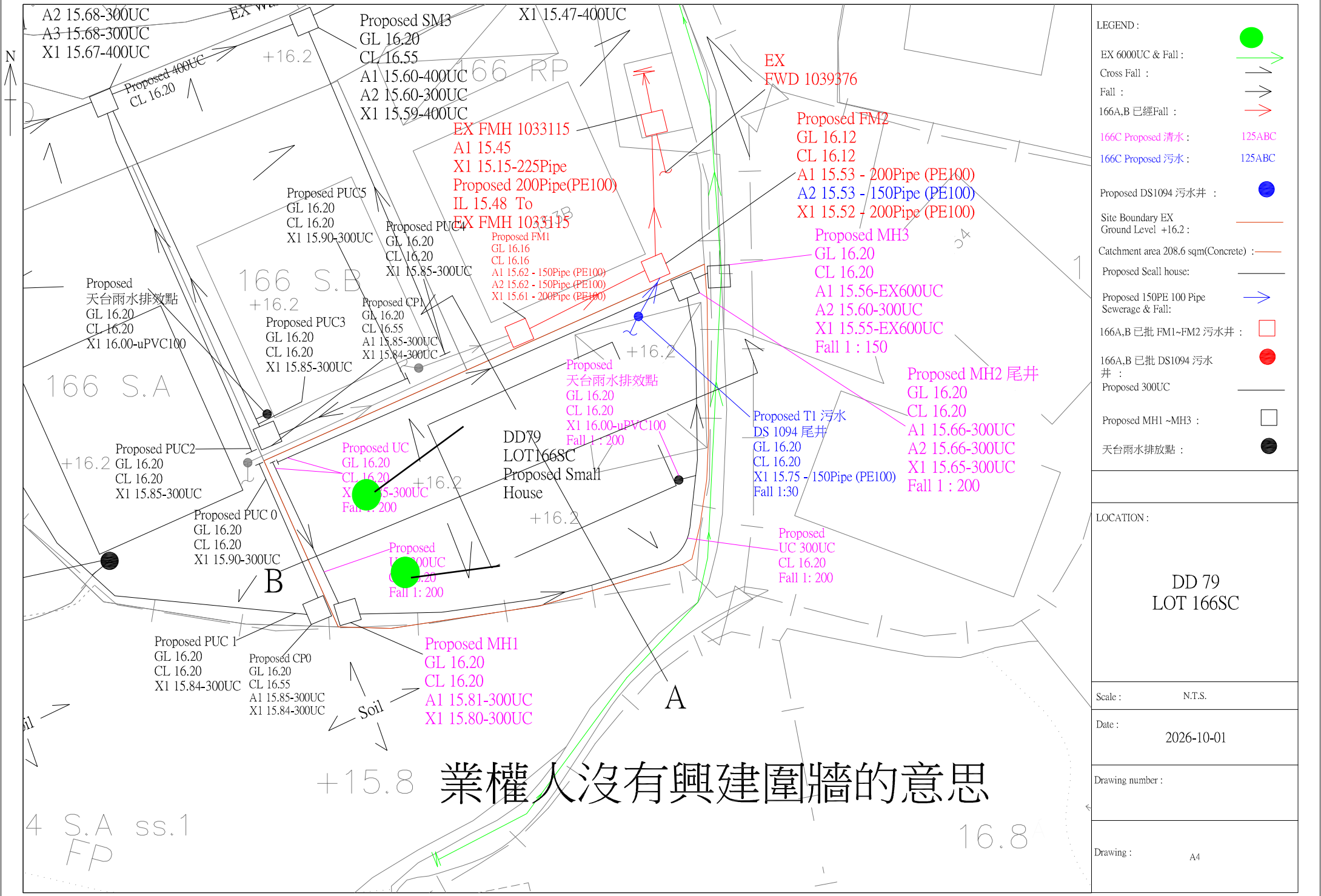


2026年10月01日



洋紫荊 2 棵





- LEGEND :
- EX 600UC & Fall :
 - Cross Fall :
 - Fall :
 - 166A,B 已經Fall :
 - 166C Proposed 清水 : 125ABC
 - 166C Proposed 污水 : 125ABC
 - Proposed DS1094 污水井 :
 - Site Boundary EX Ground Level +16.2 :
 - Catchment area 208.6 sqm(Concrete) :
 - Proposed Seall house:
 - Proposed 150PE 100 Pipe Sewerage & Fall:
 - 166A,B 已批 FM1~FM2 污水井 :
 - 166A,B 已批 DS1094 污水井 :
 - Proposed 300UC
 - Proposed MH1 ~MH3 :
 - 天台雨水排放點 :

LOCATION :	
DD 79 LOT 166SC	
Scale :	N.T.S.
Date :	2026-10-01
Drawing number :	
Drawing :	A4