

朗賢顧問公司
Sun Merit Consultants Company

Our Ref: 053/20/HC/hc

Your Ref:

Date: 1 November, 2024

Town Planning Board ,
North Point Government Building,
North Point, Hong Kong,

Dear Sir/ Madam,

Proposed Development of Agricultural Temporary Structures
at Lots. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112
Shui Lau Tin, Pat Heung, N. T.
Drainage Proposal Submission


As per request, with the requirement for the drainage proposal for the proposed Development of Agricultural Temporary Structures. On behalf of the applicant, we submit herewith the Drainage System Proposal Report, one set with two copies, for your comment and approval.

Our drainage submission has considered the followings:-

1. Presently the storm-water runoff that induced in the proposed development lot is directly discharged into the existing nullah adjacent by. Hence, upon checking, we consider that the changing of land used from grassy land to this agricultural temporary structures site will likely not cause overload to the existing local drainage system.
2. We confirm that our applicant will bear the costs of the construction of all the drainage works which inside the lot or outside the lot boundary. For works to be undertaken outside the lot boundary, our applicant will obtain prior consent and agreement from DLOYL and relevant lot owners.

Thank you for your attention.

Yours faithfully,


.....
H C Cho (RPE cvL)

Encl.


Drainage Proposal Submission

For

Town Planning Application

at Lots Nos. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112

Shui Lau Tin, Pat Heung, N. T.



Prepared by H. C. Cho (RPEcVL)

30 October 2024

**Shui Lau Tin Proposed Development of Agricultural Temporary Structures
at Lots. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112
Shui Lau Tin, Pat Heung, N. T.**

**Site Stormwater Drainage Assessment Report for the Development Site,
Due to the Erection of the agricultural temporary structures**

1.0 Introduction

It is proposed by the applicant, Millions Chances Gardening to develop a few temporary agricultural structures at Lots. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112, Shui Lau Tin, Pat Heung, N. T. I have inspected the site and have taken the consideration of drainage and environmental aspects for the proposed building works.

2.0 Basis of Assessment

To assess the technical acceptability of the proposed site which located, as indicated in the proposed stormwater drainage plan attached in appendix IV, a number of analyses have been considered and they are presented below.

3.0 The Site

The site area presently is a vacuum grassy area. The total catchment area of the whole development site is approximate 900 m². Appendix I refers. It is a general flat area site.

4.0 Observation

Presently, the proposed development lots is fenced out with metal fence wall cast in to the ground. The adjacent ground level is slightly lower than the proposed site level. All the induced stormwater in the site will be gradually fall into the proposed 225mm U-channel at north side inside the lot fence wall.

DSD's flooding Black spots Location Map is checked. This area is not on the list.

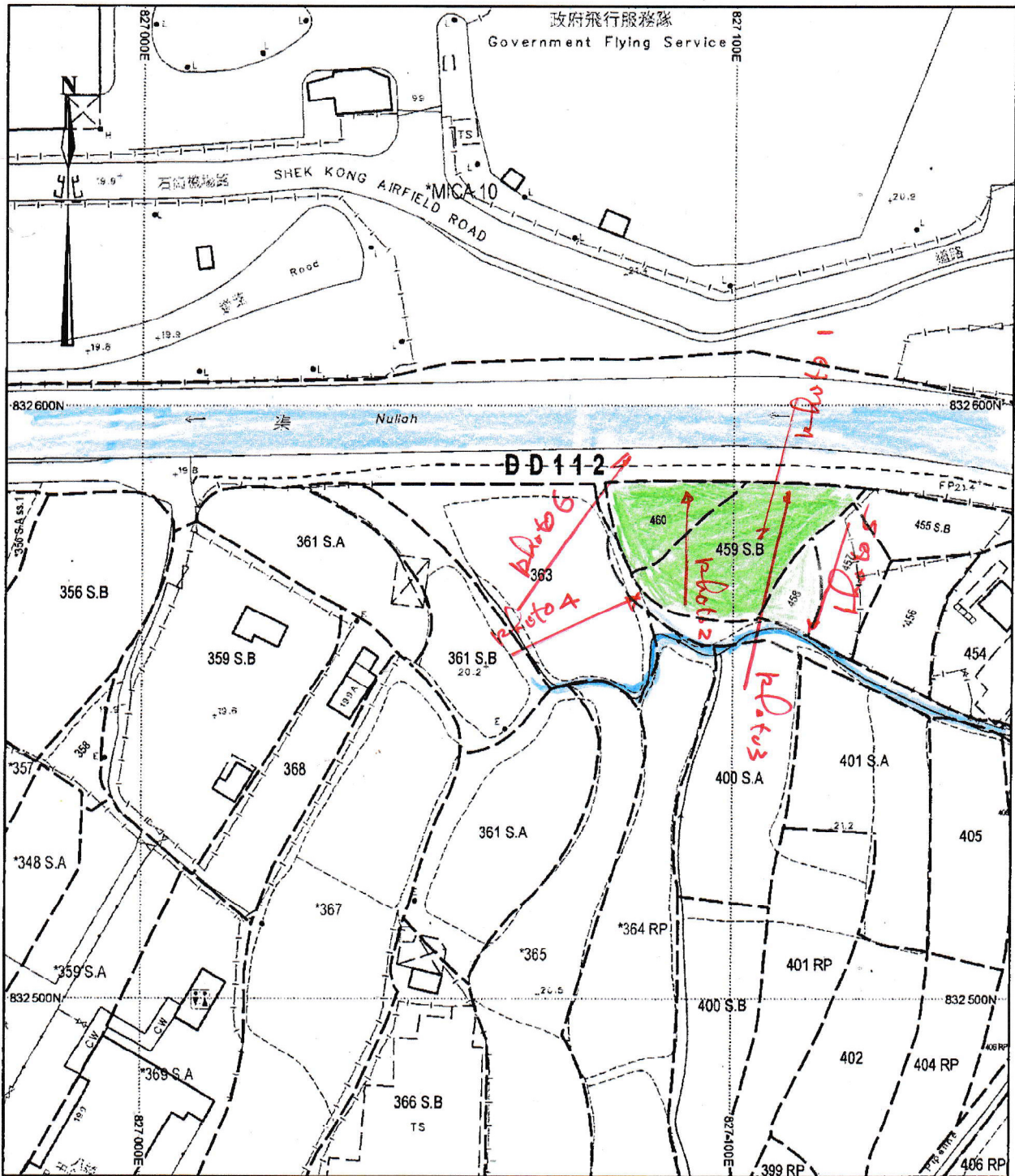
5.0 Consideration and Recommendation

As indicated in the drainage layout plan in appendix IV, all the surface water induced in the site area and adjacent areas are discharged into the proposed 225mm U-channel at north side of the proposed lots, then is discharged the proposed 250mm diameter uPVC drain pipe. It is further discharged to the 7.0 meters nullah at further downstream.

APPENDIX

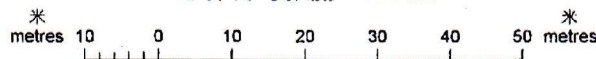
- I Lot Indication Plan
- II Record Photos No.1 to no. 6
- III Topographic Survey Record Plan
- IV Proposed Drainage Layout Plan
- V Proposed Lots Section Plan
- VI Proposed Stormwater Drainage Detailed Plan
- VII General Notes

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 1:1 000



Locality : YUEN LONG

Lot Index Plan No. : YL0566052015

District Survey Office : Yuen Long

Date : 13-May-2015

Reference No. : 6-NE-13D,6-NE-14C

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免責聲明

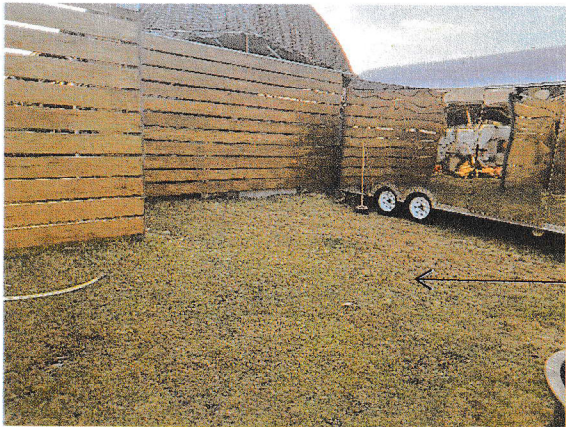
本圖則乃地段索引圖的複本，顯示地段界線的大概位置，包括根據政府撥地、臨時政府撥地、短期租約及政府土地租用牌照而臨時佔用土地的位置。臨時佔用土地的情況可憑藉短期通知出現或終止，因此應向有關的分區地政專員核證。本圖則所示的資料必須透過實地測量予以核實。當有更佳或新的地界證據時，地段索引圖可能會被修訂而無須事先通知。

Disclaimer

This plan is a copy of the lot index plan showing the approximate location of lot boundaries, including the temporary occupation of land under Government Land Allocations, Temporary Government Land Allocations, Short Term Tenancies and Government Land Licences. The temporary occupation of land may be created or terminated at short notice and should be confirmed with the District Lands Officer. The information shown on this plan **MUST** be verified by field survey. The lot index plan may be revised without prior notification as better or new boundary evidence becomes available.

Lots. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112 Shui Lau Tin, Pat Heung, N. T.
Site Record Photos

30-10-2024



The proposed site

Photo no.1 Overall view of the present proposed development site. Presently the area is a flat grassy land. Ground level is around +20.8 mPD to +21.60 mPD.



Photo no. 2 Along the lots boundary consisted with metal fence wall, which sealed up at the bottom.



Photo no. 3 As indicated in the drainage layout plan there will be a proposed 225mm U-channel and two desilting pits to collect the stormwater that induced in the lots.



Photo no.4 As shown, the existing ground level of the proposed site is slightly higher than the outside village road.



Existing 500 mm ditch

Photo no.5 At the south side outside the lot boundary is a village road, further beyond is an existing 500mm ditch covered with grass.

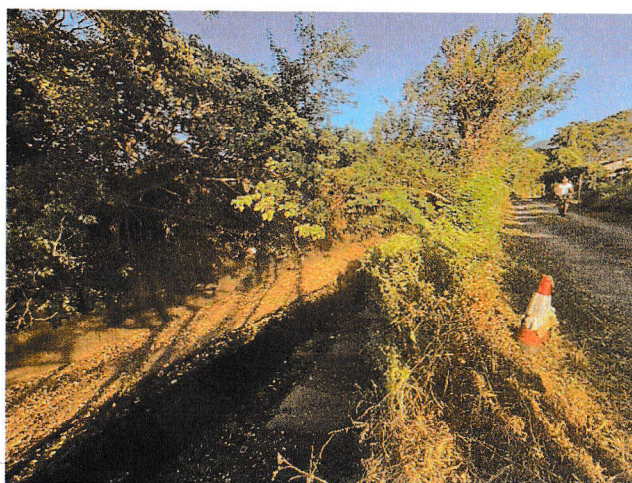
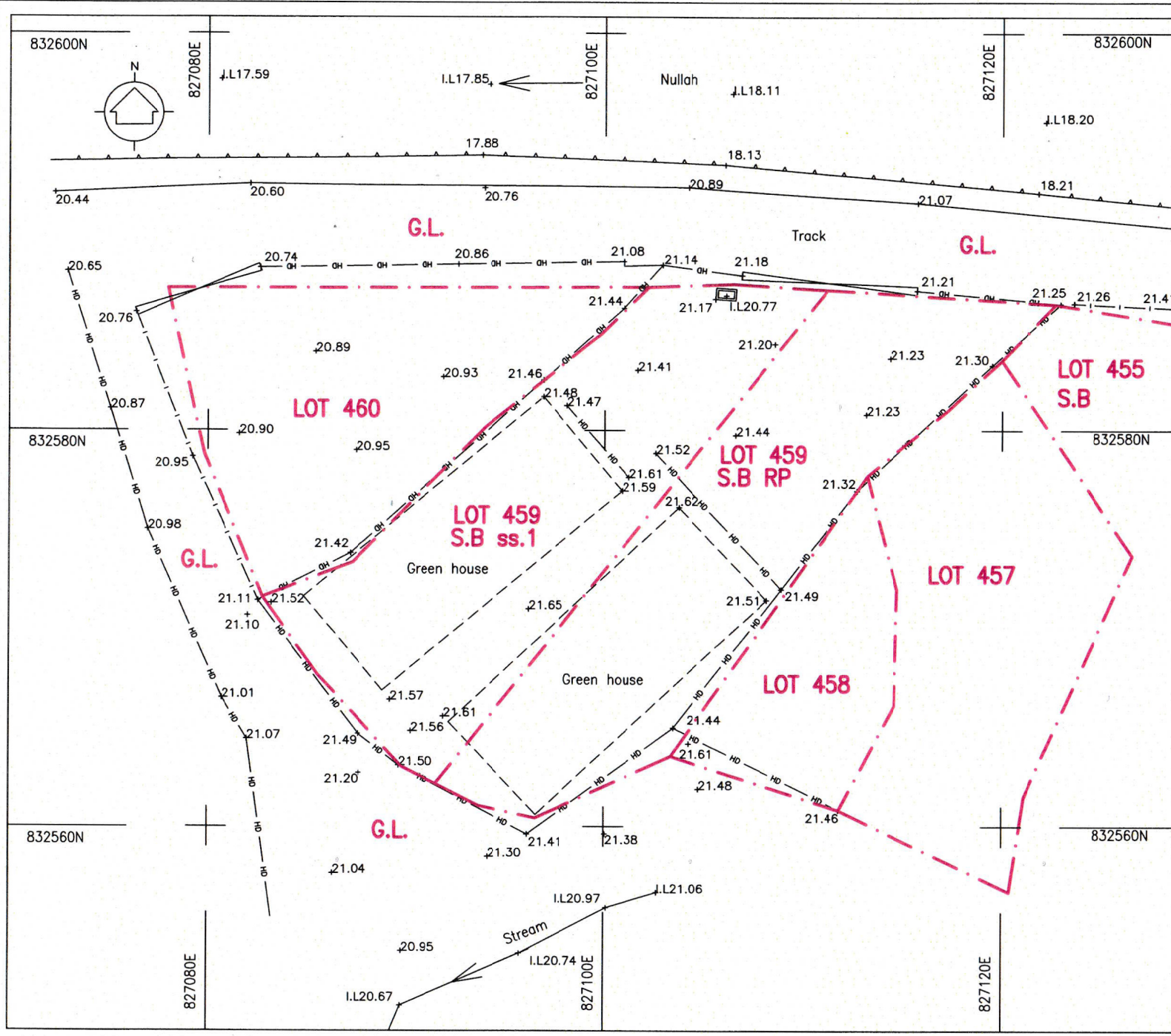


Photo No. 6 At north, in front of the proposed development site is a village driveway, further is an existing nullah (7.0 meters in width) flowing east to west.



- LEGENDS :-
- DRAIN/CHANNEL
 - FENCE/RAILING
 - INVERT LEVEL
 - CATCH PIT
 - GATE
 - LOT BOUNDARY LINE
 - TEMPORARY STRUCTURE
 - CONCRETE WALL
 - SLOPE
 - RETAINING WALL

- NOTES :-
1. ALL SPOT LEVEL POSITIONS ARE INDICATED BY A CROSS.
 2. ALL GRID LINES ARE IN HONG KONG 1980 GRID.
 3. ALL LEVELS ARE ABOVE HONG KONG PRINCIPAL DATUM.
 4. ALL UNITS ARE IN METRES.
 5. DATE OF SURVEY : November 2024

PROJECT :-
 TOPOGRAPHIC SURVEY WORK ON
 LOT No. 459 S.B ss.1, S.B RP & 460 IN D.D. 112,
 SHEK KONG, YUEN LONG, NEW TERRITORIES

Title : Topographic Survey Plan

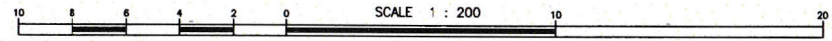
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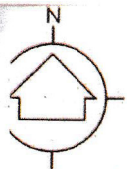
Plan No. : 2760/TP/460/01

Signature:

Tang Kam Chuen, Lional (MRCS, FHKIS, RPS(LS), ALS)
 Date: 2 November, 2024

TANG SURVEYS LIMITED
 Unit A, 2/F, San Kay House, Tel : 2472-5105
 25-29 Kau Yuk Road, Yuen Long Fax : 2472-5103





82708

↓L17.59

↓L17.85

82710

Nullah

↓L18.11

82711

↓L18.20

17.88

18.13

18.21

20.60
20.74
20.89
20.93
20.95
20.98

20.76

20.89
21.08
21.14
21.18

21.07

G.L.

Track

G.L.

BL fence wall
225u 1:15u Dep1 (U4)
225u (U3)
225u 1:15u Dep2 (U2)
225u 1:15u (U1)

21.21

21.25 21.26 21.4

20.76

20.87

LOT 460

LOT 455 S.B

832580N

20.95

LOT 459 S.B ss.1

LOT 459 S.B RP

G.L.

Green house

Green house

LOT 457

LOT 458

21.11 21.10

21.01

21.42

21.65

21.51 21.49

21.49

21.57

21.44

21.20

21.50

21.61

21.04

21.30 21.41

21.38

21.46

↓L21.06

G.L.

832560N

Appendix IV

Proposed Drainage Layout Plan

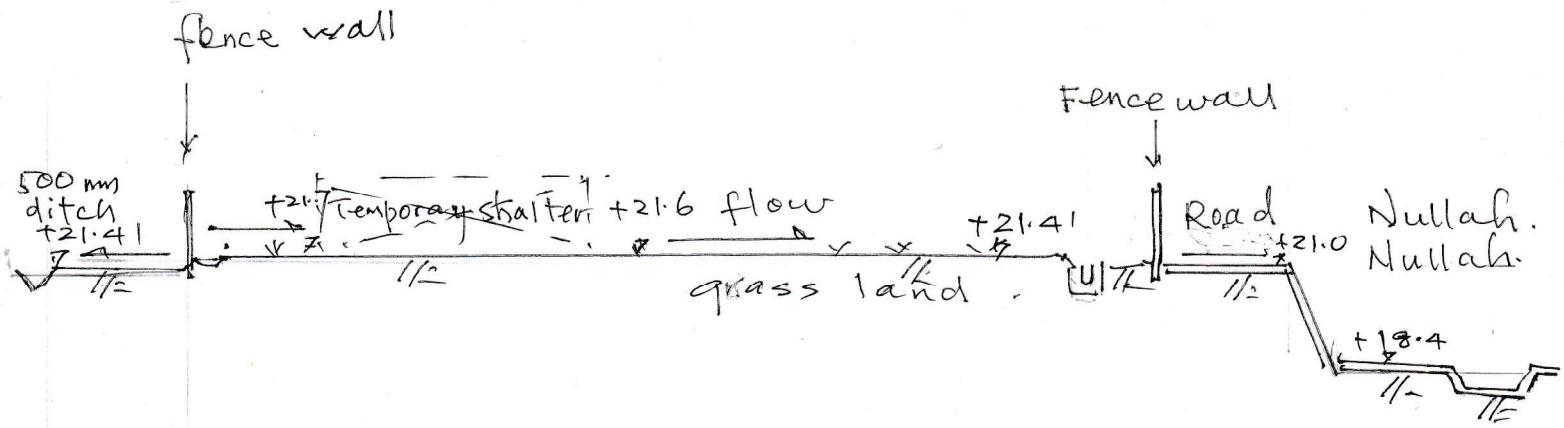
Lots. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112 Shui Lau Tin, Pat Heung

Scale: 1:200

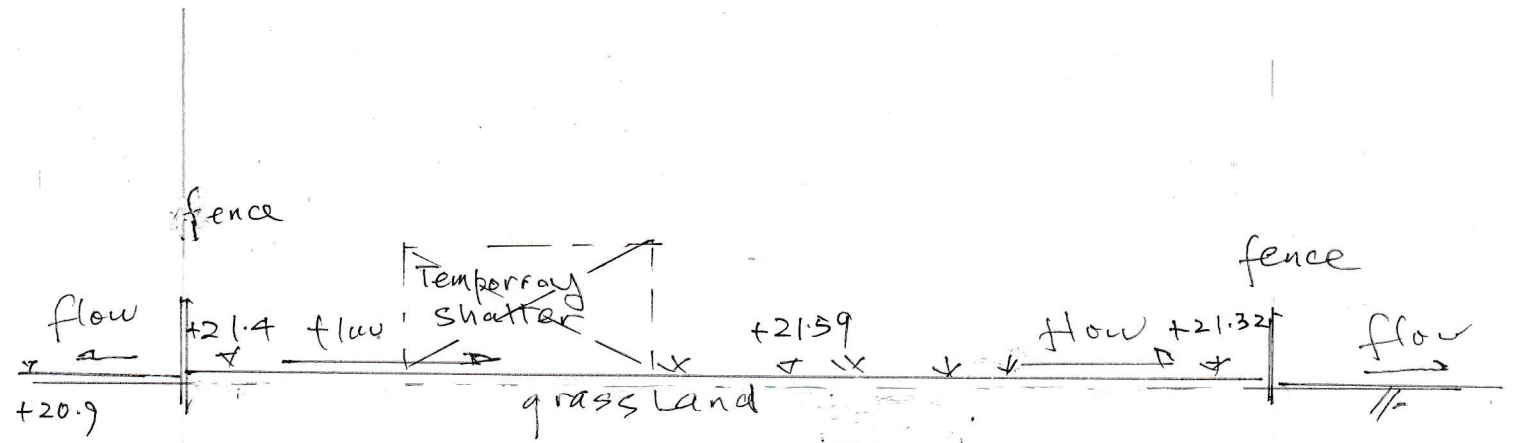
Date: 30-10-2024

Drawn by: Cho

Drawing No. SWD-01

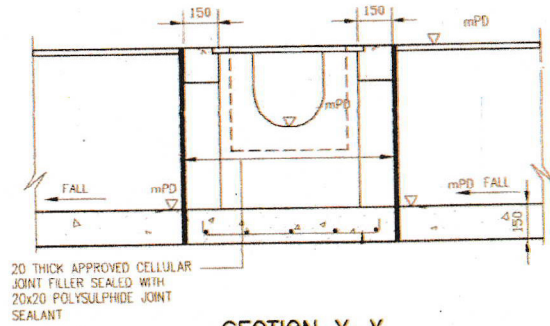
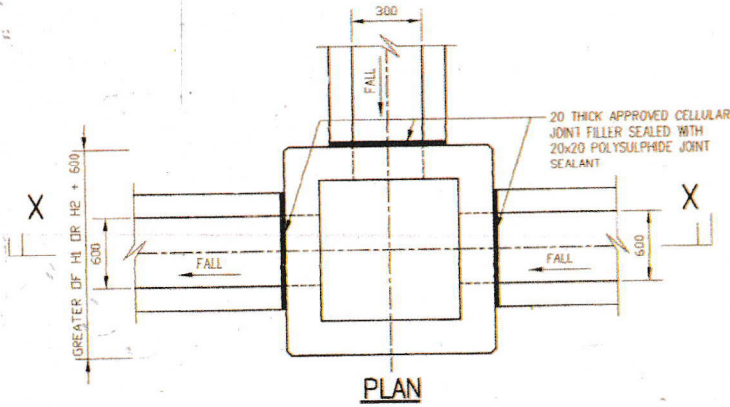


Section A-A

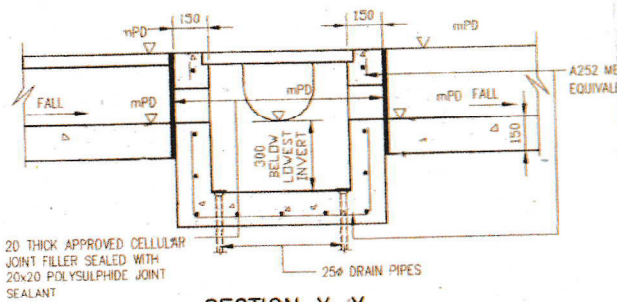
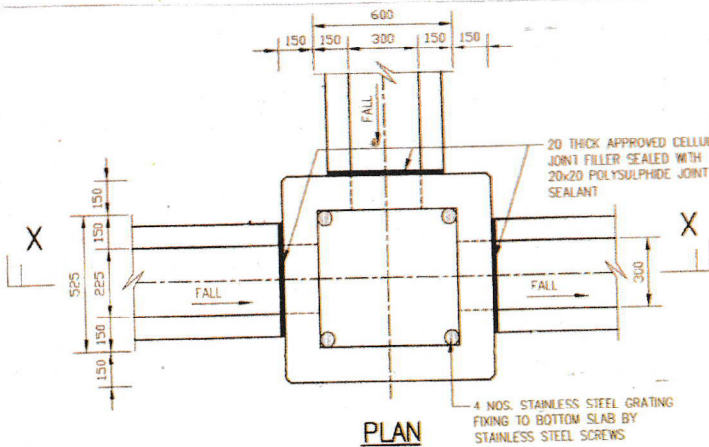


Section B-B

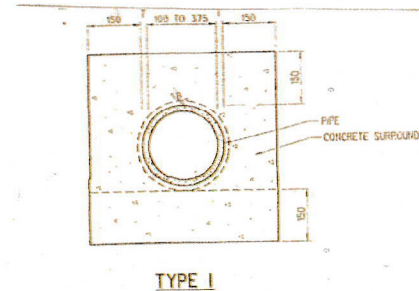
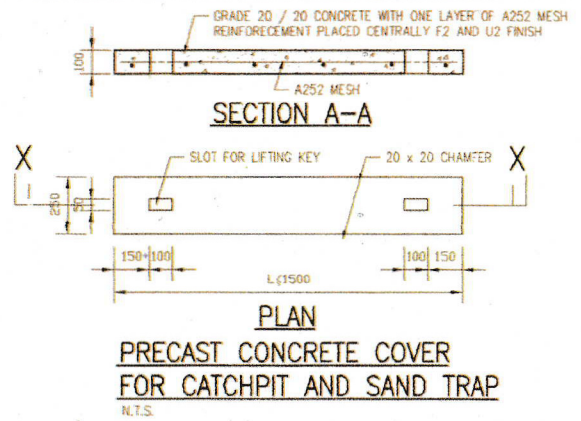
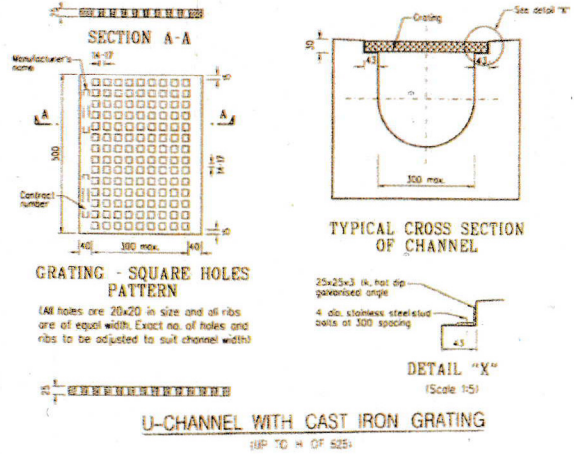
Lots. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112 Shui Lau Tin, Pat Heung	Scale: 1:200	Date: 30-10-2024
Proposed Site Section Plan	Drawn by: Cho	Drawing No. SWD-02



SECTION X-X
STANDARD DETAIL OF CATCHPIT



SECTION X-X
CATCHPIT WITH TRAP DETAILS



BEDDING AND SURROUNDS

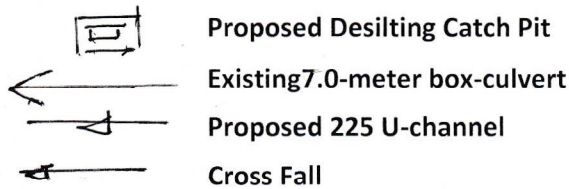
Notes:

1. All level shown in meter and refer to the principal Datum
2. The exact location of Catch Pits should be agreed with the Engineer (RPE) on site
3. All concrete used should be D30/20
4. U-channel details should refer to CEDD Drawing No.C2409I
5. U-channel cover should refer to HyD Standard Drawing H 3156A
6. CP details should refer to CEDD Drawing No.2405/1
7. DCP details should refer to CEDD Drawing No.2406/1
8. Catch pit concrete cover should refer to CEDD Drawing no.C2407B
9. All Proposed U-channel and Catch pit constructed in Govt. Land should gain consent from DLO.

Lots. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112 Shui Lau Tin, Pat Heung	Scale: N.T.S.	Date: 30-10-2024
Proposed Drainage Detailed Plan	Drawn by: Cho	Drawing No. SWD-03

Drainage System						
Catch pit No	C.L.+ mPD	I.L. +mPD	From	Length U	Size U	Fall
DCP2	21.30	20.77	U1	14.0 m	225 mm	1:150
DCP2	21.3	20.77	U2	3.0 m	225 mm	1:150
Nullah	20.89	20.40	DCP2	5.0 m	250 mm	1:75
DCP1	20.85	20.28	U3	15.0m	225 mm	1:150
DCP1	20.85	20.28	U4	4.0m	225 mm	1:150
Nullah	20.60	20.00	DCP1	5.0 m	250 mm	1:75

Legend:-



Notes:

1. All level shown in meter and refer to the principal Datum.
2. The exact location of Catch Pits should be agreed with the Engineer (RPE) on site.
3. All concrete used should be D30/20
4. U-channel details should refer to CEDD Drawing No.C2409H
5. CP details should refer to CEDD Drawing No.2405/1
6. DCP details should refer to CEDD Drawing No.2406/1
7. U-channel cover should refer to HyD Standard Drawing H 3156A.
8. Catch pit concrete cover should refer to CEDD Drawing no.C2407B
9. All Proposed U-channel and Catch pit constructed in Gov. L. should gain consent from DLOYL

Lots. 459S.B RP, 459 S.B ss.1 & 460 both in D.D. 112 Shui Lau Tin, Pat Heung	Scale: N T S	Date: 30-10-2024
General Notes	Drawn by: Cho	Drawing No. SWD05