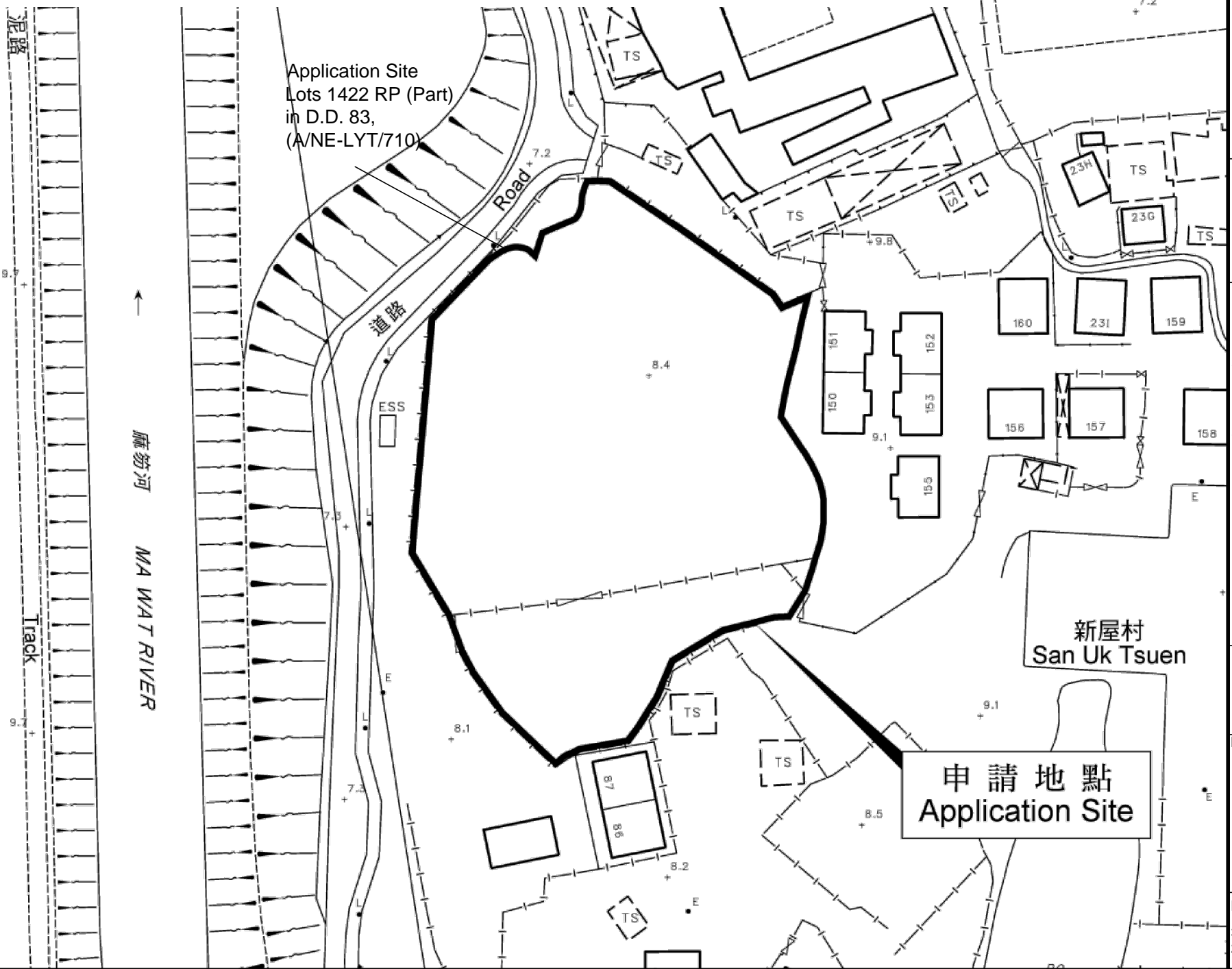


**Appendix I - Accepted Drainage Proposal of the Previous Application No. A/NE-LYT/710 and 755**



- Legend:**
- Proposed UC (1:100) with cast iron cover
  - Existing Water Course
  - Proposed Catchpit
  - Existing Catchpit
  - Existing Level

**Company:**  
 恆協工程有限公司  
 Handship Engineering Company Limited

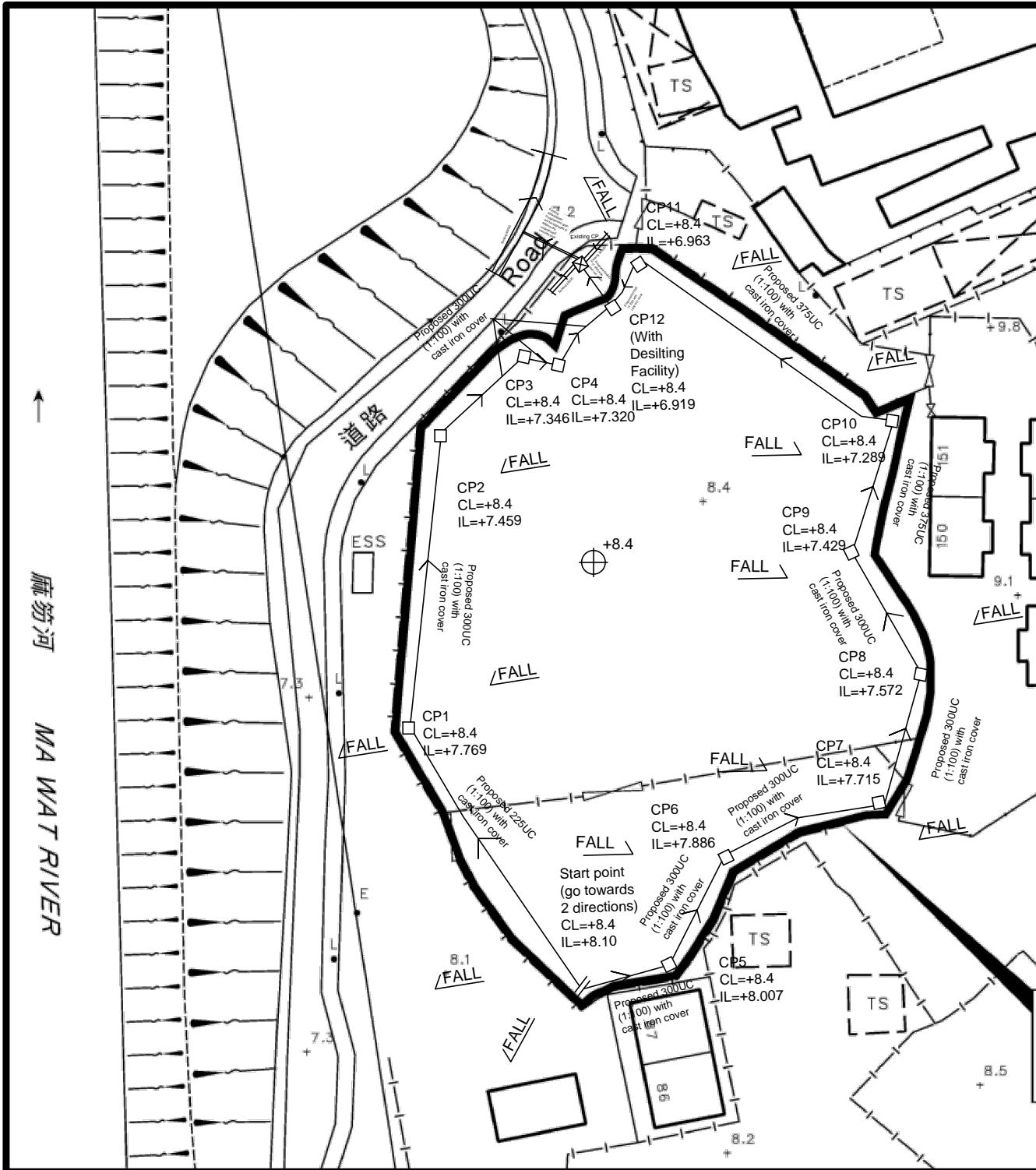
**Project:**  
 Temporary Public Vehicle Park  
 (Excluding Container Vehicle) for a Period of 5 Years at Lot 1422 RP (Part) in D.D.83, Lung Yeuk Tau, Fanling, New Territories

**Title:**  
 Drainage Proposal-Application Boundary

<b>Dwg No:</b>	<b>File:</b>
Fig.1	DD83 Lot1422

**Date:**  
 3rd June 2020

**申請地點**  
**Application Site**



**Note:**

1. Catchpit (CP12) with desilting facility shall follow CEDD standard drawing No. C2406I.
2. Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.
3. All UC are covered by cast iron
4. No walls or kerbs are proposed along the boundary

**Legend:**

- Proposed UC (1:100) with cast iron cover
- Existing Water Course
- Proposed Catchpit
- Existing Catchpit
- Existing Level

**Company:**

恆協工程有限公司  
Handship Engineering  
Company Limited

**Project:**

Temporary Public Vehicle Park (Excluding Container Vehicle) for a Period of 5 Years at Lot 1422 RP (Part) in D.D.83, Lung Yek Tau, Fanling, New Territories

**Title:**

Drainage Proposal-Layout

**Dwg No.:**

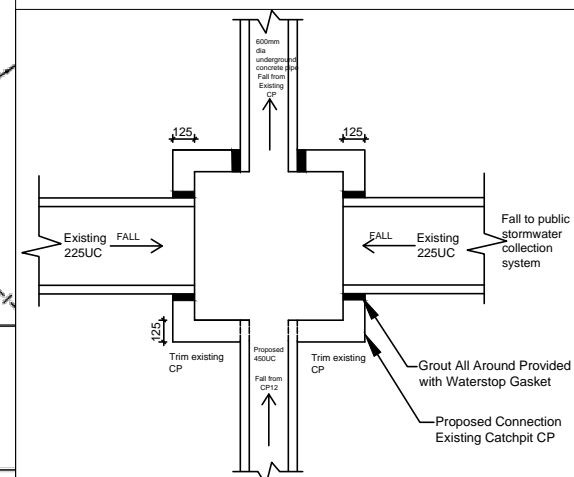
Fig.2

**File:**

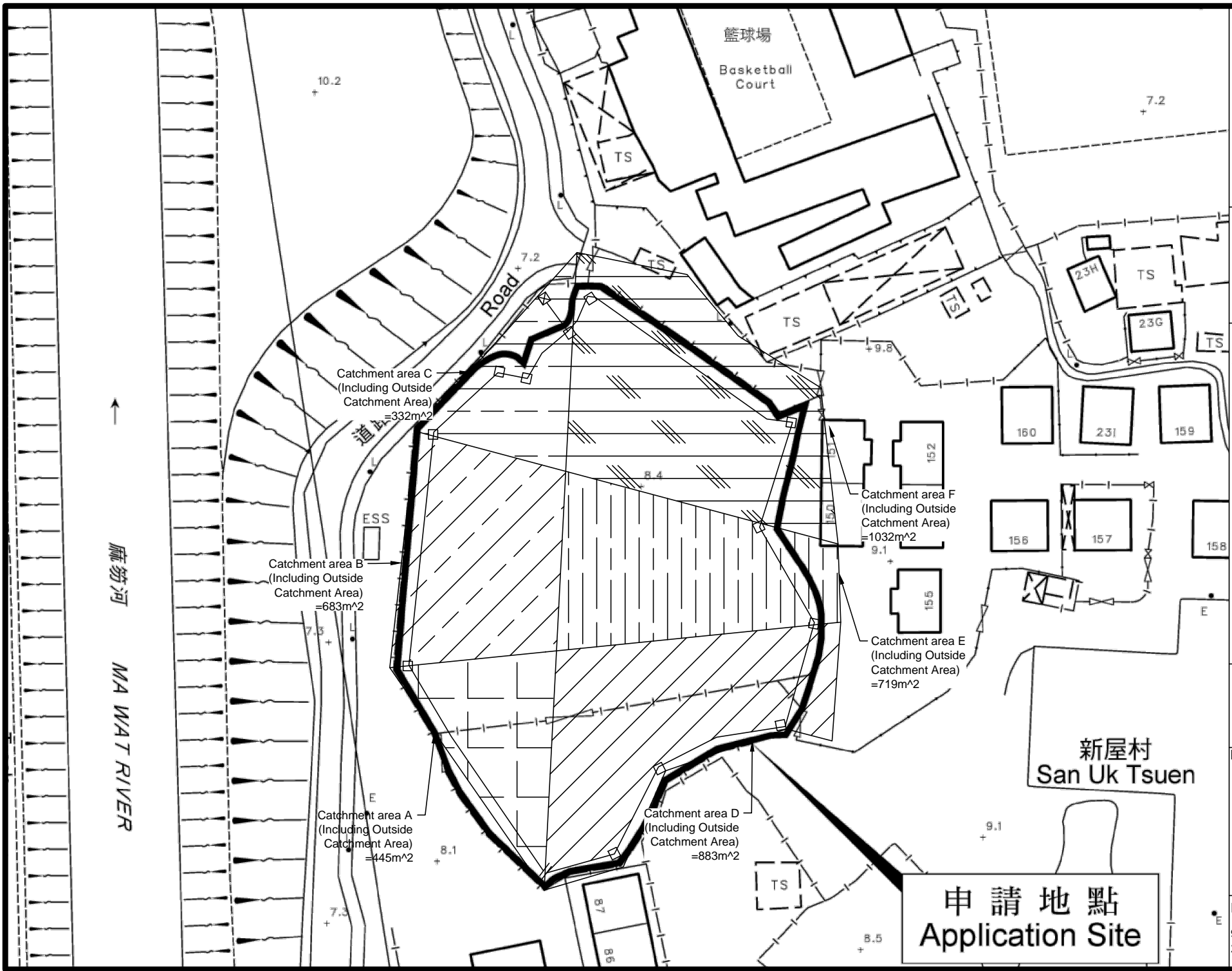
DD83  
Lot1422

**Date:**

9th July  
2020



**Existing CP-Connection Details**



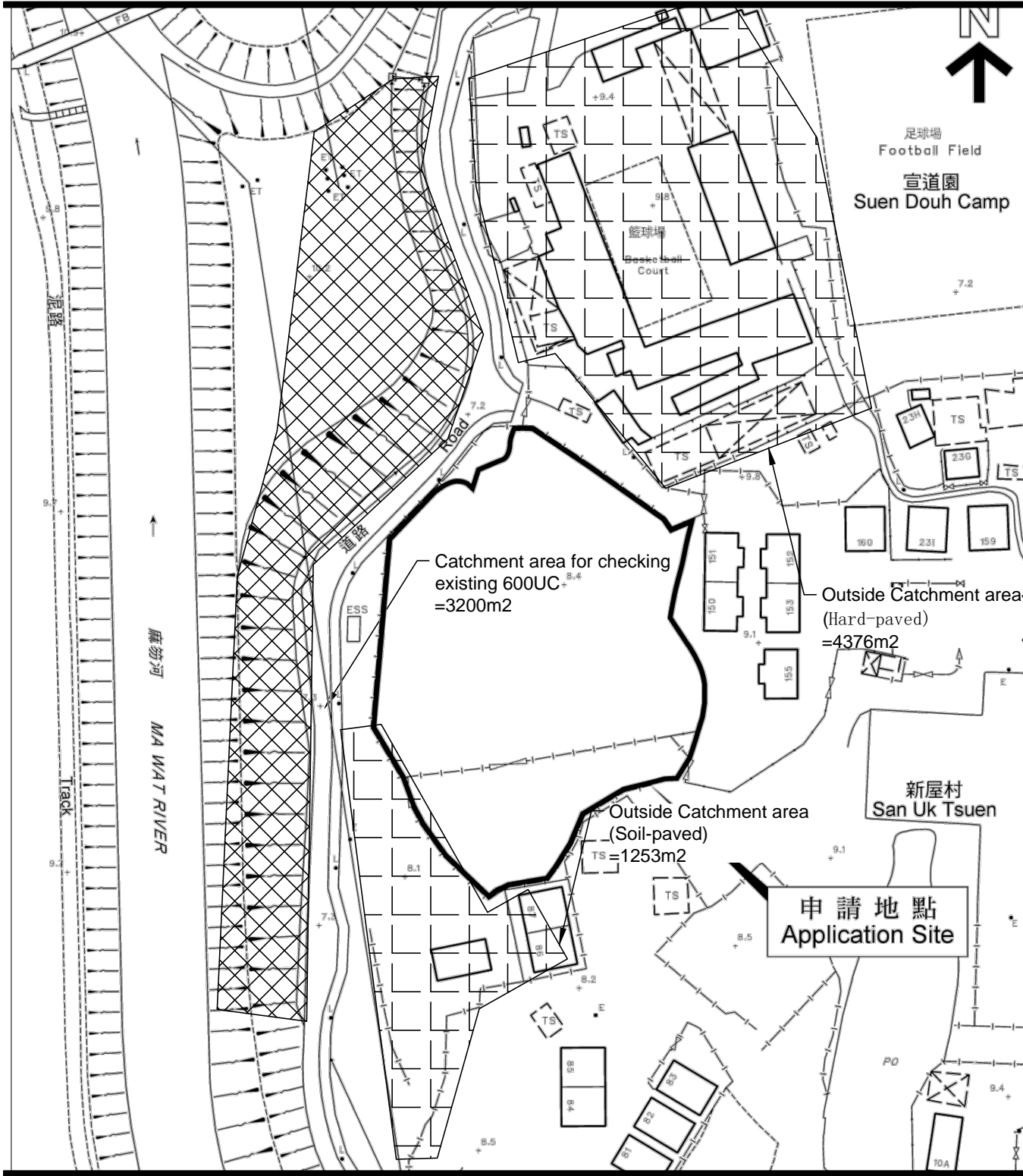
- Legend:**
- Proposed UC (1:100) with cast iron cover
  - Existing Water Course
  - Proposed Catchpit
  - Existing Catchpit
  - Existing Level

**Company:**  
 恆協工程有限公司  
 Handship Engineering  
 Company Limited






**Project:**  
 Temporary Public  
 Vehicle Park  
 (Excluding Container  
 Vehicle) for a Period of  
 5 Years at Lot 1422 RP  
 (Part) in D.D.83, Lung  
 Yeuk Tau, Fanling, New  
 Territories

**Title:**  
 Catchment Area

<b>Dwg No:</b>	<b>File:</b>
Fig.3a	DD83 Lot1422
<b>Date:</b>	
9th July 2020	



**Legend:**

-  Proposed UC (1:100) with cast iron cover
-  Existing Water Course
-  Proposed Catchpit
-  Existing Catchpit
-  Existing Level +8.4

**Company:**  
 恆協工程有限公司  
 Handship Engineering Company Limited

**Project:**  
 Temporary Public Vehicle Park  
 (Excluding Container Vehicle) for a Period of 5 Years at Lot 1422 RP (Part) in D.D.83, Lung Yeuk Tau, Fanling, New Territories

**Title:**  
 Catchment Area (Con't)

**Dwg No:** Fig.3b  
**File:** DD83 Lot1422

**Date:**  
 9th July 2020

**Company:** HANDSHIP ENGINEERING CO.LTD  
**Project :** Temporary Public Vehicle Park (Excluding Container Vehicle) for a Period of 5 Years at Lots 1422 RP(Part) in DD83  
**Date:** 2020/7/9

**Calculation for channels:**

Catchment Area of site

Site Catchment Area A including outside catchment area

Area = 445 m<sup>2</sup>  
 = 0.000445 km<sup>2</sup>

Total Peak runoff in m<sup>3</sup>/s = 0.278 x 0.95 x 250 mm/hr x 0.000445 km<sup>2</sup>  
 = 0.029381 m<sup>3</sup>/s  
 = 1763 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels),  
 For gradient 1:100, 225UC will be suitable for the site A

Site Catchment Area B including outside catchment area

Area = 683 m<sup>2</sup>  
 = 0.000683 km<sup>2</sup>

Total Peak runoff in m<sup>3</sup>/s = 0.278 x 0.95 x 250 mm/hr x 0.000683 km<sup>2</sup>  
 = 0.045095 m<sup>3</sup>/s  
 = 2706 liter/min

Total Peak runoff in m<sup>3</sup>/s of A and B = 0.074476 m<sup>3</sup>/s = 4469 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels),  
 For gradient 1:100, 300UC will be suitable for the site B

Site Catchment Area C including outside catchment area

Area = 332 m<sup>2</sup>  
 = 0.000332 km<sup>2</sup>

Total Peak runoff in m<sup>3</sup>/s = 0.278 x 0.95 x 250 mm/hr x 0.000332 km<sup>2</sup>  
 = 0.02192 m<sup>3</sup>/s  
 = 1315 liter/min

Total Peak runoff in m<sup>3</sup>/s of A to C = 0.096397 m<sup>3</sup>/s = 5784 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels),  
 For gradient 1:100, 300UC will be suitable for the site C

Site Catchment Area D including outside catchment area

Area = 883 m<sup>2</sup>  
 = 0.000883 km<sup>2</sup>

Total Peak runoff in m<sup>3</sup>/s = 0.278 x 0.95 x 250 mm/hr x 0.000883 km<sup>2</sup>  
 = 0.0583 m<sup>3</sup>/s  
 = 3498 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels),  
 For gradient 1:100, 225UC will be suitable for the site D

Site Catchment Area E including outside catchment area

Area = 719 m<sup>2</sup>  
 = 0.000719 km<sup>2</sup>

Total Peak runoff in m<sup>3</sup>/s = 0.278 x 0.95 x 250 mm/hr x 0.000719 km<sup>2</sup>  
 = 0.047472 m<sup>3</sup>/s  
 = 2848 liter/min

Total Peak runoff in m<sup>3</sup>/s of D and E = 0.105772 m<sup>3</sup>/s = 6346 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels),  
 For gradient 1:100, 300UC will be suitable for the site E

Site Catchment Area F including outside catchment area

Area = 1032 m<sup>2</sup>  
 = 0.001032 km<sup>2</sup>

Total Peak runoff in m<sup>3</sup>/s = 0.278 x 0.95 x 250 mm/hr x 0.001032 km<sup>2</sup>  
 = 0.068138 m<sup>3</sup>/s  
 = 4088 liter/min

Total Peak runoff in m<sup>3</sup>/s of D to F = 0.17391 m<sup>3</sup>/s = 10435 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels),  
 For gradient 1:100, 375UC will be suitable for the site F

Total Peak runoff in m<sup>3</sup>/s of whole site = 0.270306 m<sup>3</sup>/s = 16218 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels),  
 For gradient 1:100, 450UC will be suitable for the site

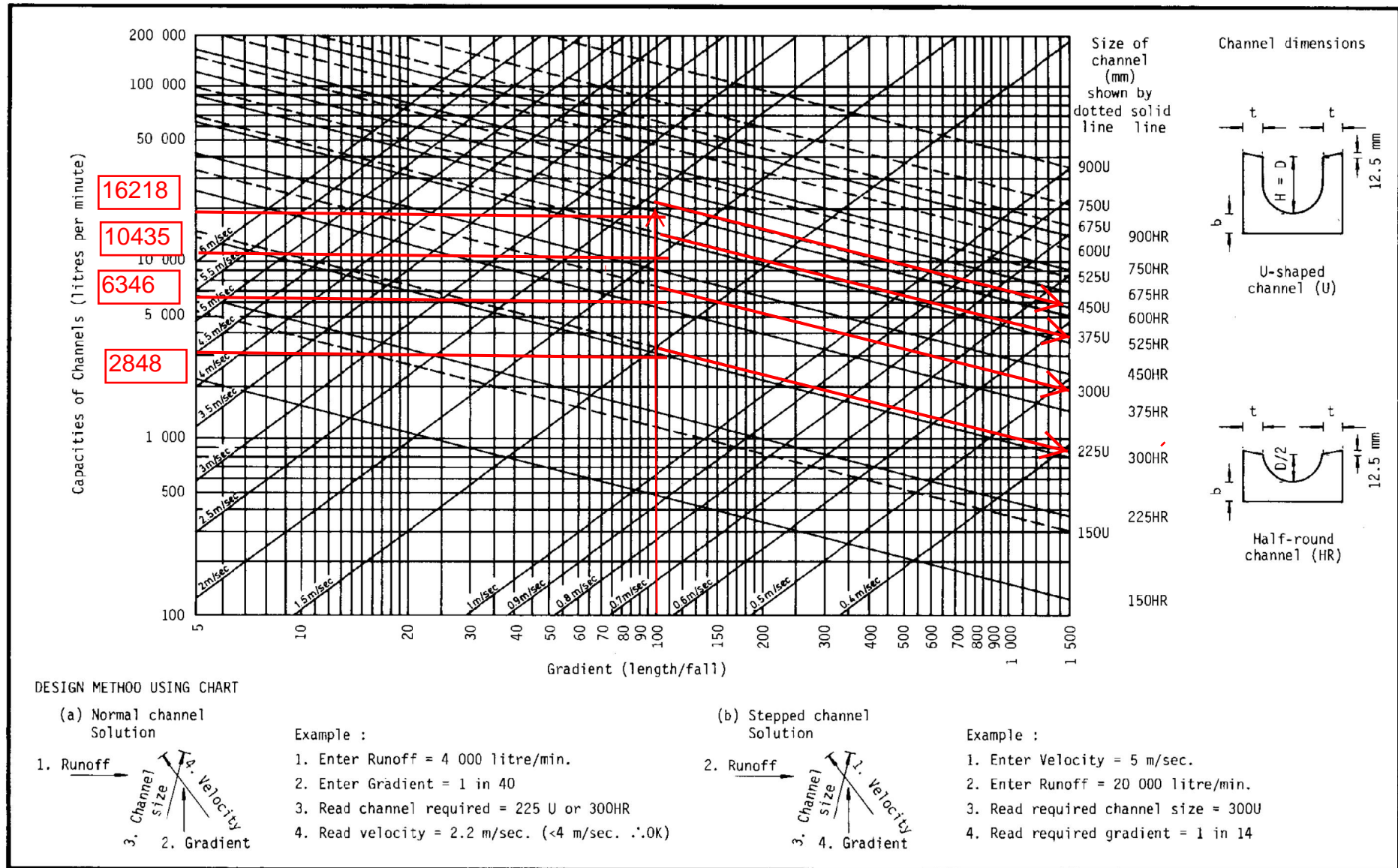


Figure 8.7 - Chart for the Rapid Design of Channels

Checking Existing 600UC

Catchment Area of site

Outside Catchment area (Hard-paved)

Area = 4376 m<sup>2</sup>  
= 0.004376 km<sup>2</sup>

Peak runoff in m<sup>3</sup>/s = 0.278 x 0.95 x 250 mm/hr x 0.004376 km<sup>2</sup>  
= 0.288925 m<sup>3</sup>/s  
= 17336 liter/min

Outside Catchment area (Soil-paved)

Area = 1253 m<sup>2</sup>  
= 0.001253 km<sup>2</sup>

Peak runoff in m<sup>3</sup>/s = 0.278 x 0.25 x 250 mm/hr x 0.001253 km<sup>2</sup>  
= 0.021771 m<sup>3</sup>/s  
= 1306 liter/min

Outside Catchment area (Existing Slope)

Area = 3200 m<sup>2</sup>  
= 0.0032 km<sup>2</sup>

Peak runoff in m<sup>3</sup>/s = 0.278 x 0.25 x 250 mm/hr x 0.0032 km<sup>2</sup>  
= 0.0556 m<sup>3</sup>/s  
= 3336 liter/min

Total Peak runoff in m<sup>3</sup>/s for discharge to existing 600UC = 0.636603 m<sup>3</sup>/s = 38196 liter/min

According to (Figure 8.7 - Chart for the Rapid Design of Channels),  
For gradient 1:100, Existing 600UC will be suitable for the site



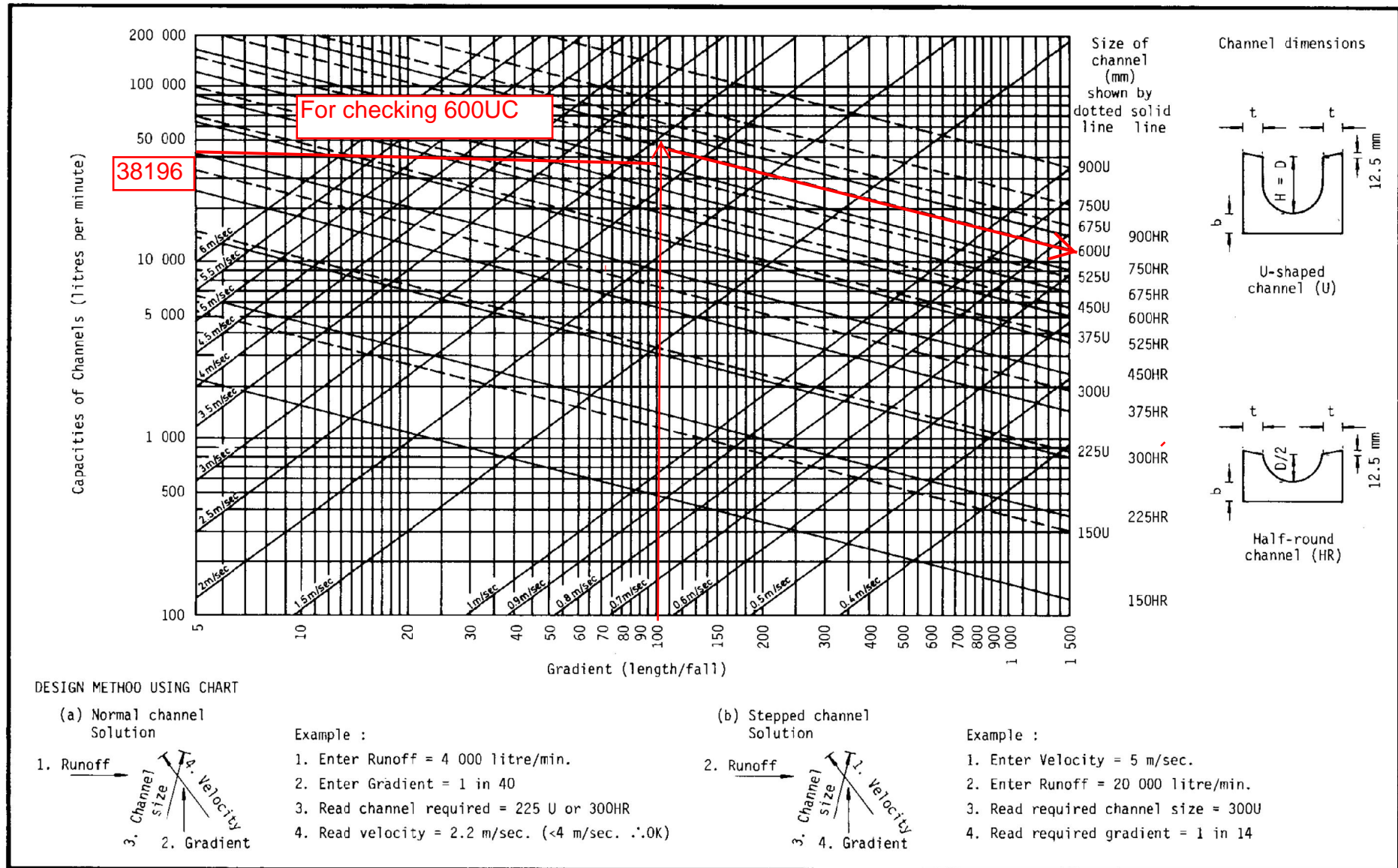
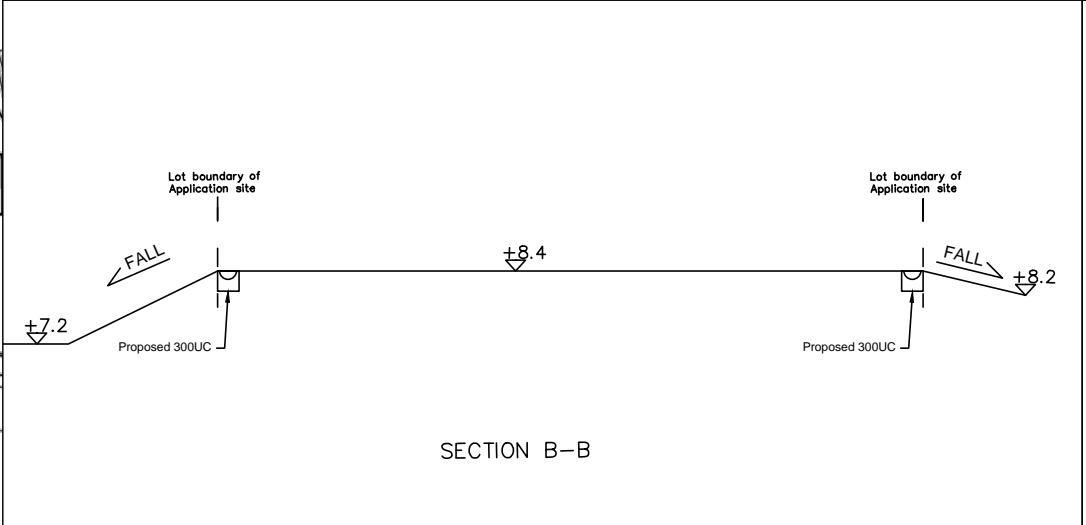
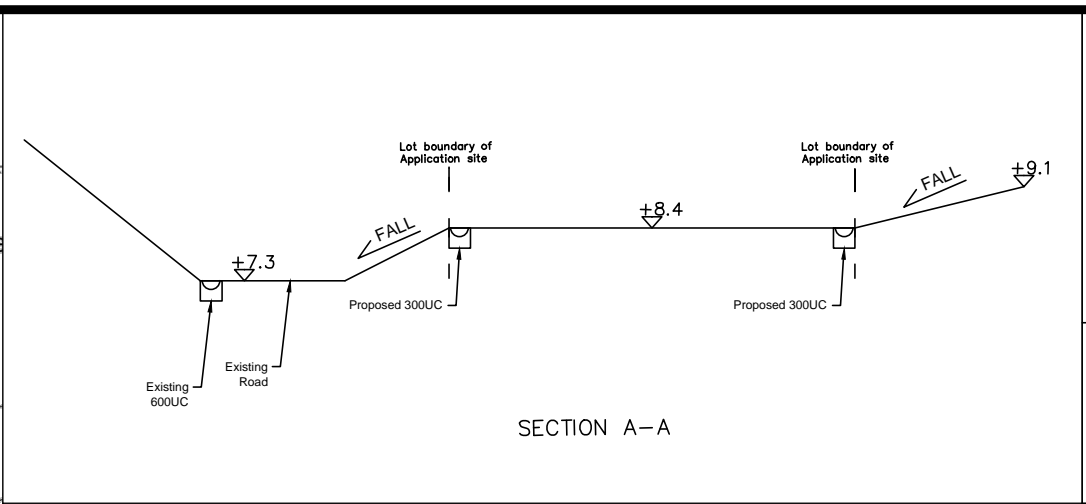
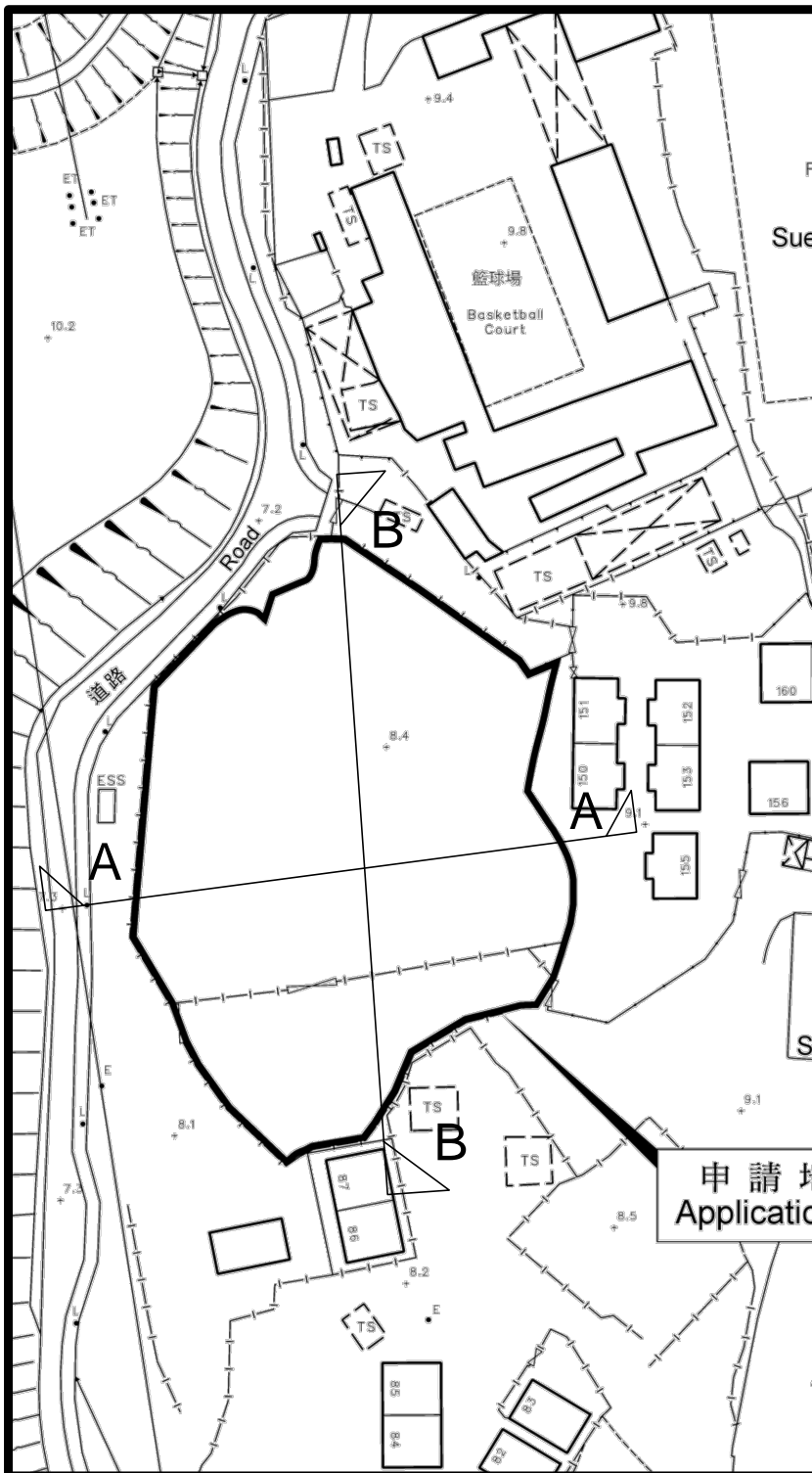


Figure 8.7 - Chart for the Rapid Design of Channels





**Note:**

1. Cross sections showing the existing ground levels due to proposed ground level consistent with the existing level.
2. No solid walls and kerbs would be laid along the boundary of the lot

**Legend:**

- Proposed UC (1:100) with cast iron cover
- Existing Water Course
- Proposed Catchpit
- Existing Catchpit
- Existing Level

**Company:**  
 恆協工程有限公司  
 Handship Engineering Company Limited

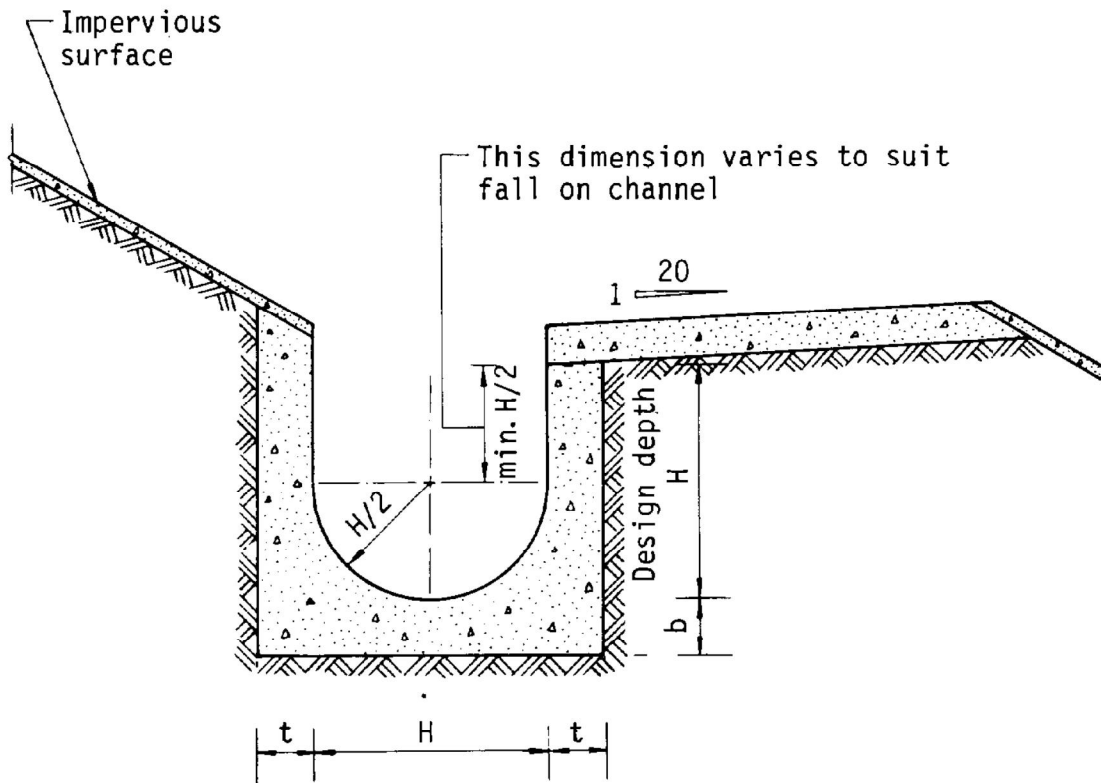
**Project:**  
 Temporary Public Vehicle Park (Excluding Container Vehicle) for a Period of 5 Years at Lot 1422 RP (Part) in D.D.83, Lung Yeuk Tau, Fanling, New Territories

**Title:**  
 Section

**Dwg No:** Fig.4  
**File:** DD83 Lot1422

**Date:**  
 30th July 2020

申請地  
 Application



Dimensions of U - channel

Nominal size of channel H (mm)	Thickness t (mm)	Thickness b (mm)
225 to 600	150	150
675 to 1200	175	225

Figure 8.11 - Typical U-channel Details

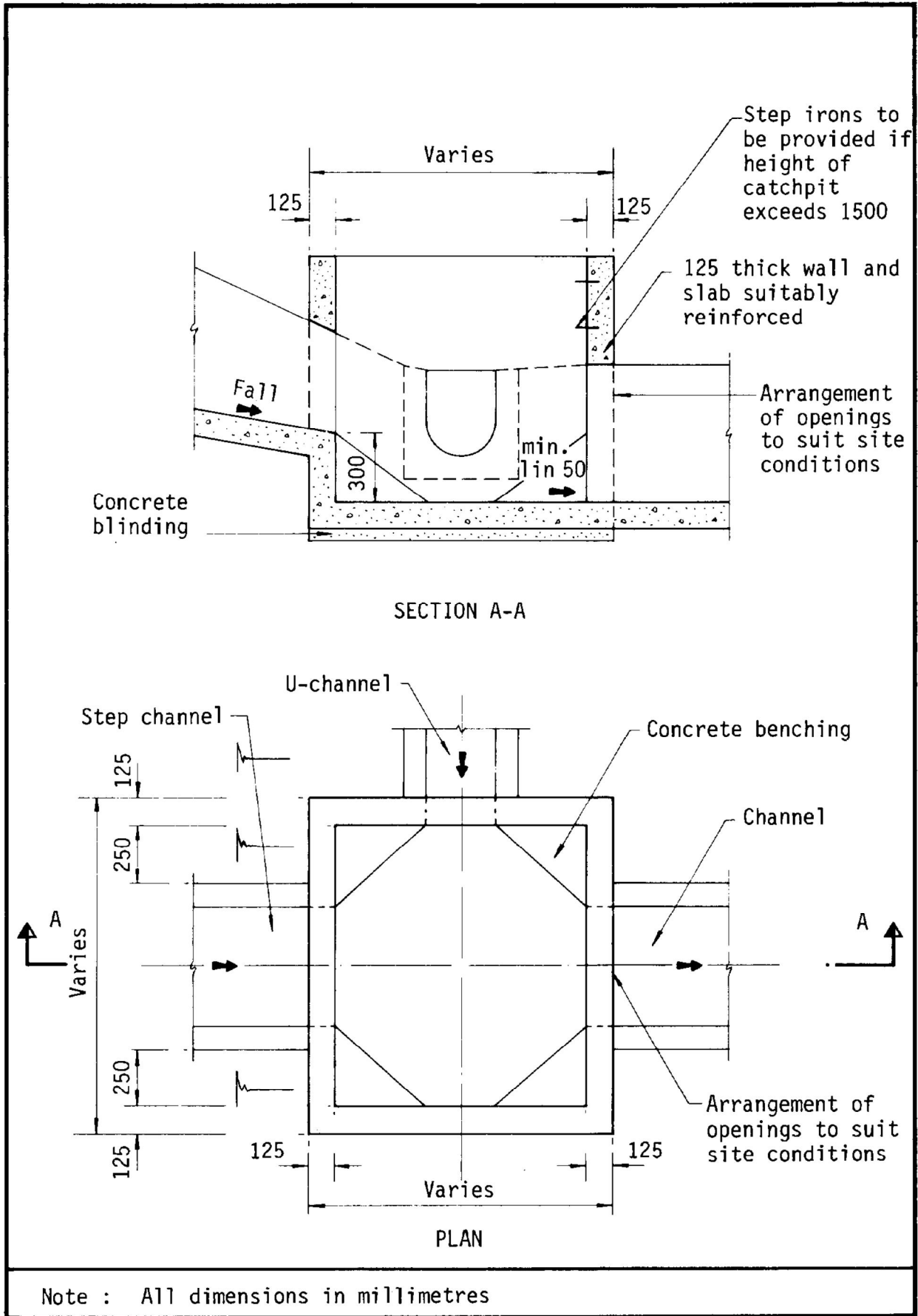
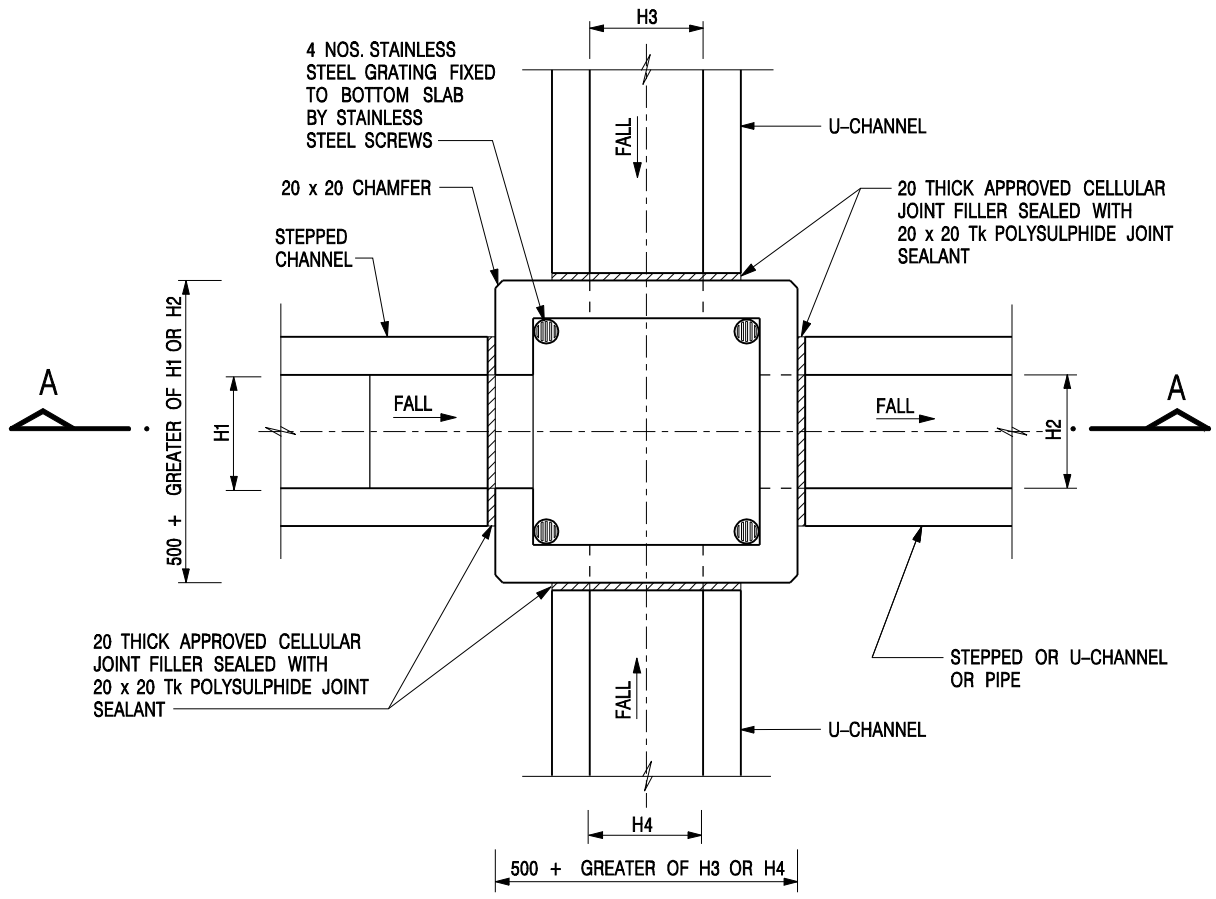
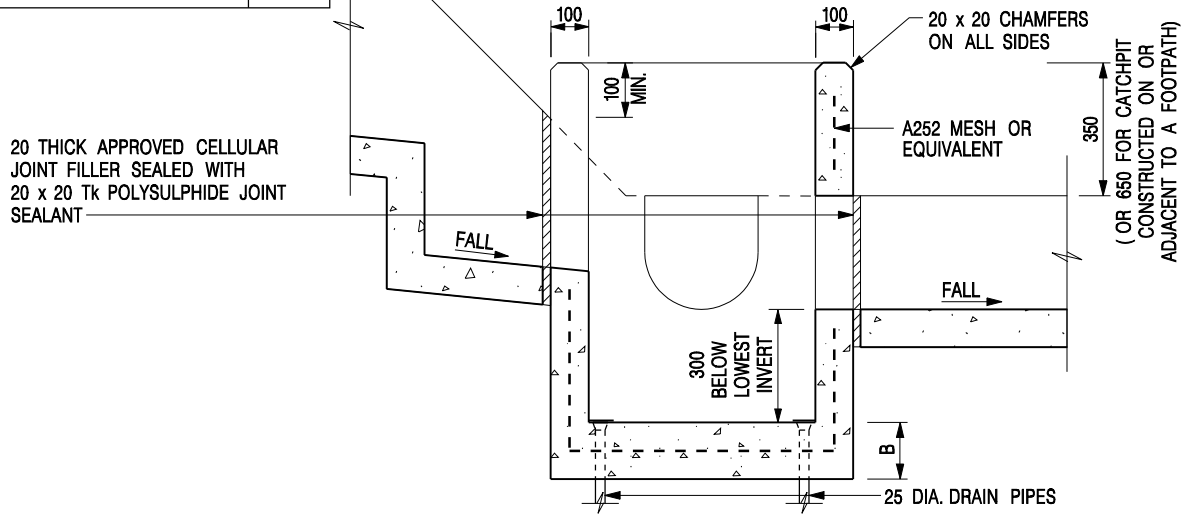


Figure 8.10 - Typical Details of Catchpits



NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 - 600	150
675 - 900	175



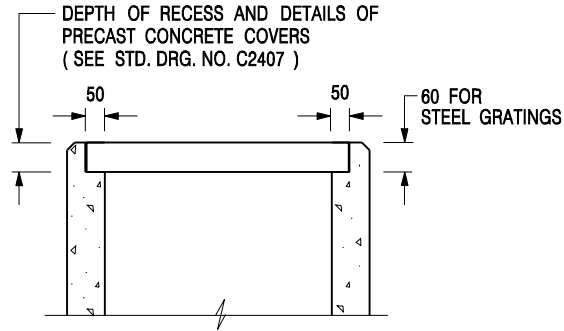
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. REFER TO SHEET 2 FOR OTHER NOTES.

-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE

**CATCHPIT WITH TRAP**  
**(SHEET 1 OF 2)**



<b>SCALE</b> 1 : 20	<b>DRAWING NO.</b>
<b>DATE</b> JAN 1991	<b>C2406 /1</b>




**ALTERNATIVE TOP SECTION  
FOR PRECAST CONCRETE COVERS / GRATINGS**

**NOTES:**

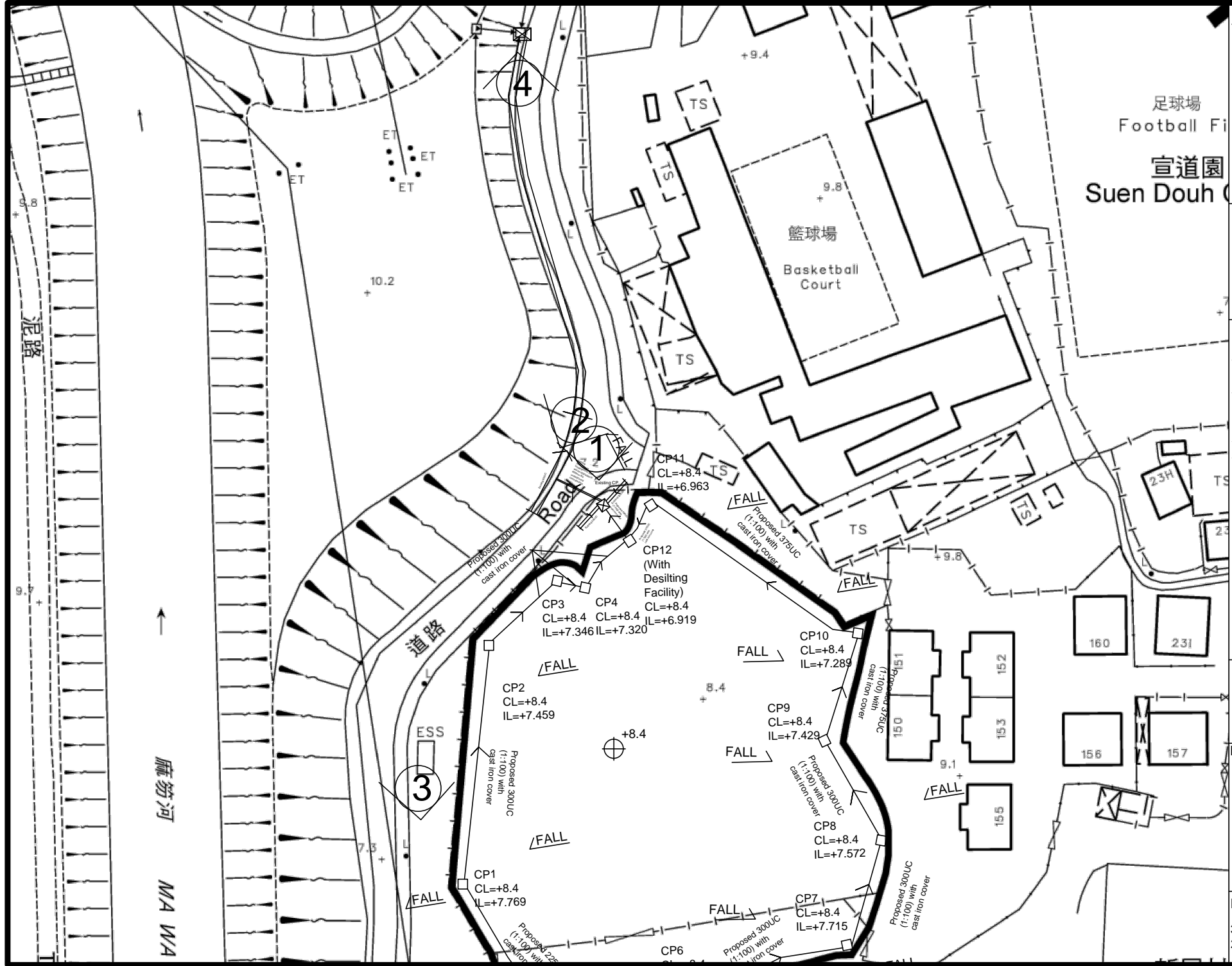
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL CONCRETE SHALL BE GRADE 20 /20.
3. CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
4. FOR DETAILS OF JOINT, REFER TO STD. DRG. NO. C2413.
5. CONCRETE TO BE COLOURED AS SPECIFIED.
6. UNLESS REQUESTED BY THE MAINTENANCE PARTY AND AS DIRECTED 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 c/c 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
<b>REF.</b>	<b>REVISION</b>	<b>SIGNATURE</b>	<b>DATE</b>

**CATCHPIT WITH TRAP  
(SHEET 2 OF 2)**

 <b>CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT</b>	
<b>SCALE</b> 1 : 20	<b>DRAWING NO.</b>
<b>DATE</b> JAN 1991	<b>C2406 /2</b>

## APPENDIX SITE PHOTO



**Legend:**

- Proposed UC (1:100) with cast iron cover
- Existing Water Course
- Proposed Catchpit
- Existing Catchpit
- Existing Level

**Company:**  
 恆協工程有限公司  
 Handship Engineering Company Limited

**Project:**  
 Temporary Public Vehicle Park  
 (Excluding Container Vehicle) for a Period of 5 Years at Lot 1422 RP (Part) in D.D.83, Lung Yek Tau, Fanling, New Territories

**Title:**  
 Drainage Proposal-  
 Eye Location Plan

**Dwg No:** Fig.5a  
**File:** DD83 Lot1422

**Date:**  
 30th July 2020



**Legend:**

	Proposed UC (1:100) with cast iron cover
	Existing Water Course
	Proposed Catchpit
	Existing Catchpit
	Existing Level

**Company:**  
 恆協工程有限公司  
 Handship Engineering Company Limited

**Project:**  
 Temporary Public Vehicle Park (Excluding Container Vehicle) for a Period of 5 Years at Lot 1422 RP (Part) in D.D.83, Lung Yeuk Tau, Fanling, New Territories

**Title:**  
 Drainage Proposal-Eye Location Plan

<b>Dwg No:</b>	<b>File:</b>
Fig.5b	DD83 Lot1422

**Date:**  
 30th July 2020





View 1 Existing 225UC and Catchpit



View 2 Existing 600UC within 300x 300  
underground drain



View 3 Adjacent Area



View 4 Existing catchpit



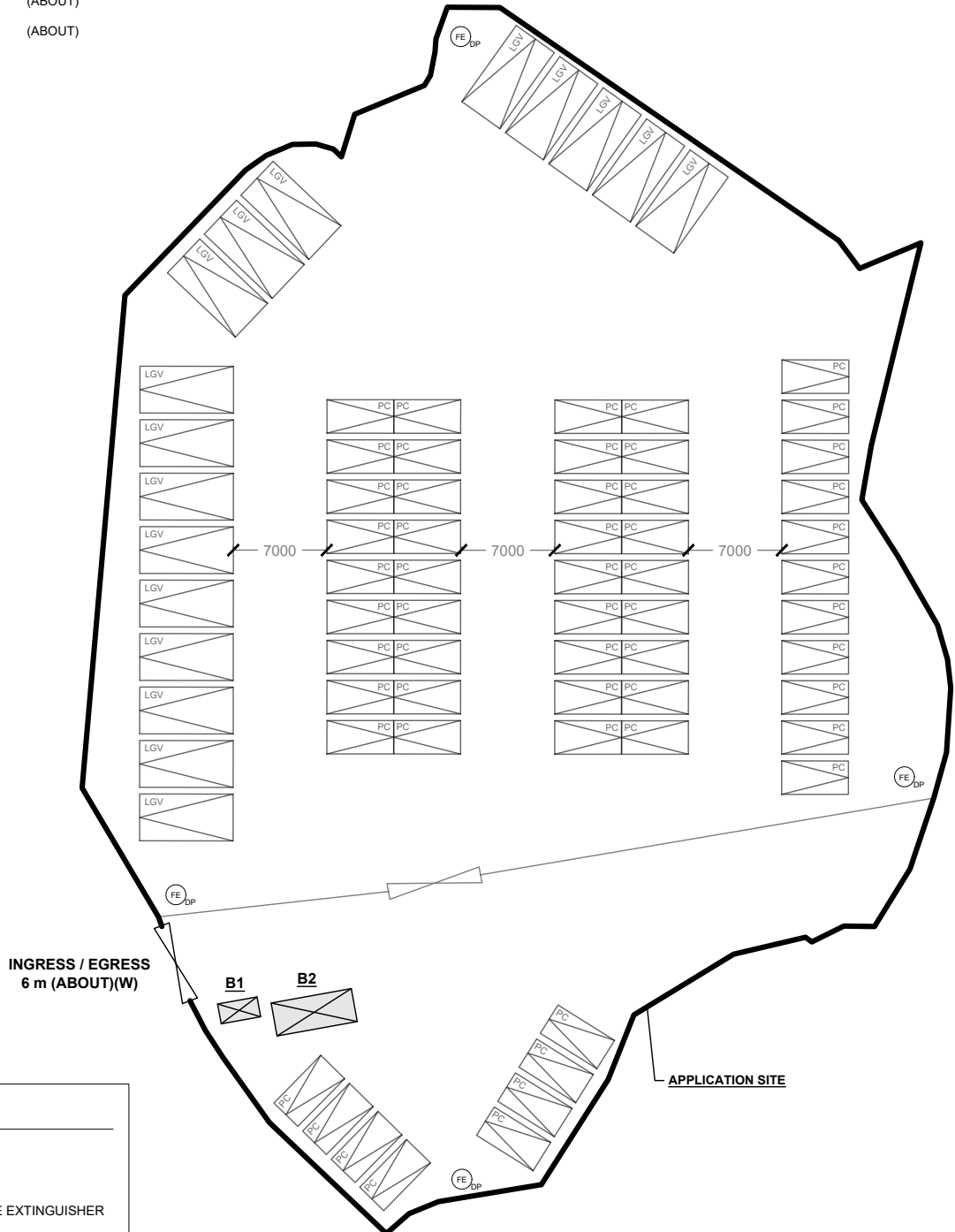
View 5 Final Discharge

**DEVELOPMENT PARAMETERS**




APPLICATION SITE AREA	: 4,110 m <sup>2</sup>	(ABOUT)
COVERED AREA	: 20 m <sup>2</sup>	(ABOUT)
UNCOVERED AREA	: 4,090 m <sup>2</sup>	(ABOUT)
PLOT RATIO	: 0.005	(ABOUT)
SITE COVERAGE	: 0.5 %	(ABOUT)
NO. OF STRUCTURE	: 2	
DOMESTIC GFA	: NOT APPLICABLE	
NON-DOMESTIC GFA	: 20 m <sup>2</sup>	(ABOUT)
TOTAL GFA	: 20 m <sup>2</sup>	(ABOUT)
BUILDING HEIGHT	: 2.5 m - 2.8 m	(ABOUT)
NO. OF STOREY	: 1	

STRUCTURE	USE	COVERED AREA	GFA	BUILDING HEIGHT
B1	GUARDROOM	5 m <sup>2</sup> (ABOUT)	5 m <sup>2</sup> (ABOUT)	2.5 m (ABOUT)(1-STOREY)
B2	SITE OFFICE*	15 m <sup>2</sup> (ABOUT)	15 m <sup>2</sup> (ABOUT)	2.8 m (ABOUT)(1-STOREY)
<b>TOTAL</b>		<b>20 m<sup>2</sup> (ABOUT)</b>	<b>20 m<sup>2</sup> (ABOUT)</b>	

\* CONTAINER-CONVERTED STRUCTURE

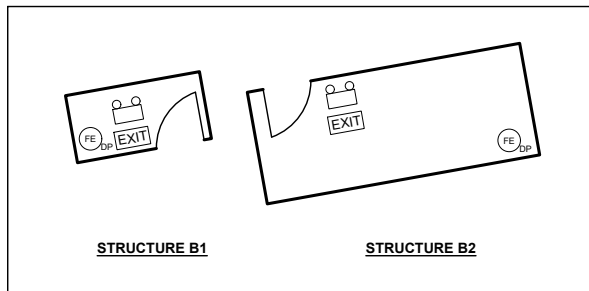


**FIRE SERVICE INSTALLATIONS**






-  2 x EMERGENCY LIGHT
-  2 x EXIT SIGN
-  6 x 5 KG DRY POWER TYPE FIRE EXTINGUISHER

**FS NOTES:**

- SUFFICIENT EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDING IN ACCORDANCE WITH BS5266-1:2016, BS EN1838:2013 AND FSD CIRCULAR LETTER 4/2021.
- SUFFICIENT DIRECTIONAL AND EXIT SIGN SHALL BE PROVIDED IN ACCORDANCE WITH BS5266: PART 1 AND FSD CIRCULAR LETTER 5/2008.
- PORTABLE HAND-OPERATED APPROVED APPLIANCE SHALL BE PROVIDED AS REQUIRED BY OCCUPANCY.
- ACCESS IS PROVIDED FOR EMERGENCY VEHICLE TO REACH 30m OF ALL PART OF STRUCTURES.



**LEGEND**

-  APPLICATION SITE
-  STRUCTURE
-  PARKING SPACE (PC)
-  PARKING SPACE (LGV)
-  INGRESS / EGRESS

PLANNING CONSULTANT



PROJECT

TEMPORARY PUBLIC VEHICLE PARK (EXCLUDING CONTAINER VEHICLE) FOR A PERIOD OF 5 YEARS

ADDRESS

LOT 1422 RP (PART) IN D.D. 83, LUNG YEUK TAU, FANLING, NEW TERRITORIES

SCALE

1 : 500 @ A4

DRAWN BY

MN

DATE

10.1.2024

REVISED BY

DATE

TITLE

FSIs PROPOSAL

DWG NO.

APP I

VER.

001

