

House 19 (Lot 646S.I 2, 646S.J 2, 646S.K1, 652S.C1 & 652 SG1) (TPB/A/NE-TK/510)
Drainage Proposal

Catchpit Schedule

Catchpit No.	Cover Levels (mPD)	Invert Levels (mPD)	Remarks
CP24	+51.10	+50.70	
CP25	+50.50	+50.10	
CP26	+50.00	+49.60	Under separate application
CP27	+49.40	+49.00	
CP28	+48.50	+48.15	
CP29	+48.60	+48.30	
CP13	+52.00	+51.30	According to the letter dated
CP14	+51.30	+50.70	23/7/2014 issued from Plannin
CP15	+51.90	+51.40	Department (Ref. No.:
		Ø :.	TPB/A/NE-TK/485), DSD accept the drainage proposal and have no adverse comment.
CP16	+51.30	+50.70	According to the letter dated
CP17	+51.00	+50.40	7/7/2014 issued from Planning
CP18	+50.20	+49.70	Department (Ref. No.:
	al and another and		TPB/A/NE-TK/467), DSD accept the drainage proposal and have no adverse comment
CP19	+50.20	+49.70	According to the letter dated
CP20	+49.90	+49.40	24/2/2014 issued from Plannin
CP21	+49.60	+49.00	Department (Ref. No.:
CP22	+49.20	+48.70	TPB/A/NE-TK/471), DSD
CP23	+49.10	+48.50	accept the drainage proposal
			and have no adverse comment
CP1	+48.70	+48.20	
CP2	+48.40	+48.10	<u>.</u>
CP3	+48.40	+47.95	
CP4	+47.90	+47.60	
CP5	+47.70	+47.30	According to the letter dated
CP6	+47.50	+47.10	6/1/2014 issued from Plannin
CP7	+47.10	+46.60	Department (Ref. No.:
CP8	+46.80	+46.45	TPB/A/NE-TK/428), DSD
CP9	+46.70	+46.35	accept the drainage proposal
CP10 (with trap)	+46.60	+45.90	and have no adverse commen
CP11	+46.40	+45.70	
CP12	+43.50	+42.50	
Final Outfall 600mm SC to existing stream	*	+41.10	

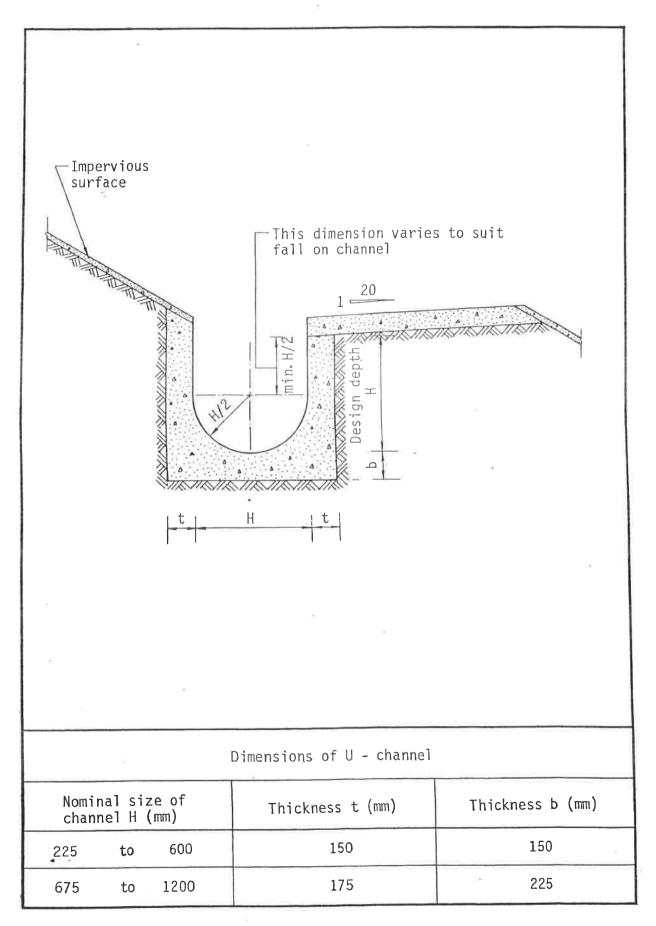
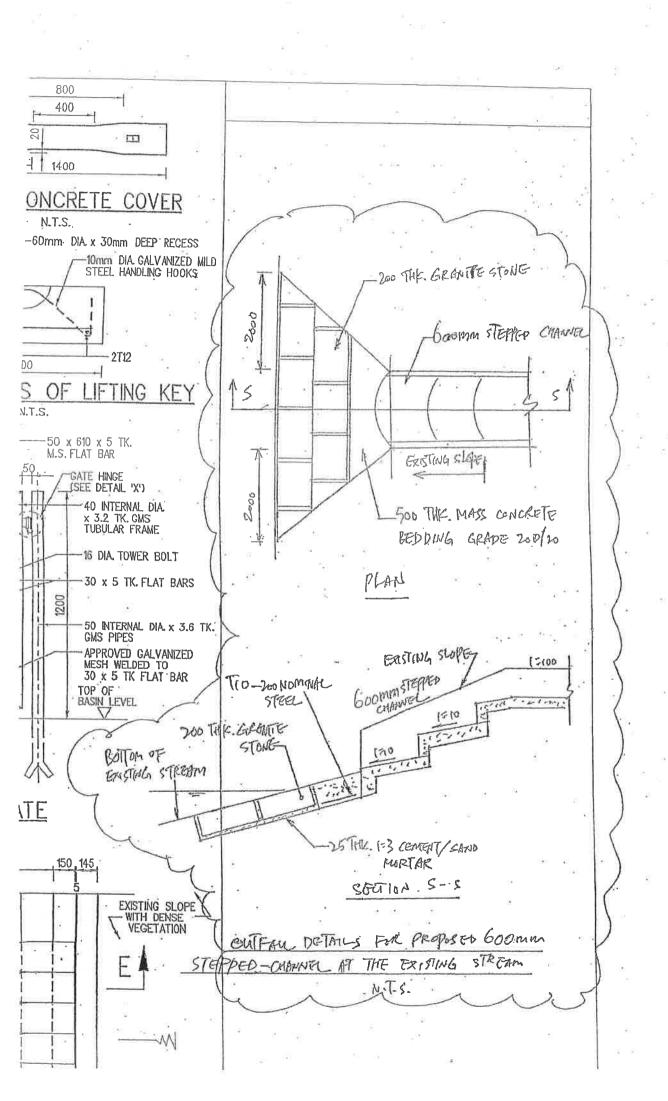
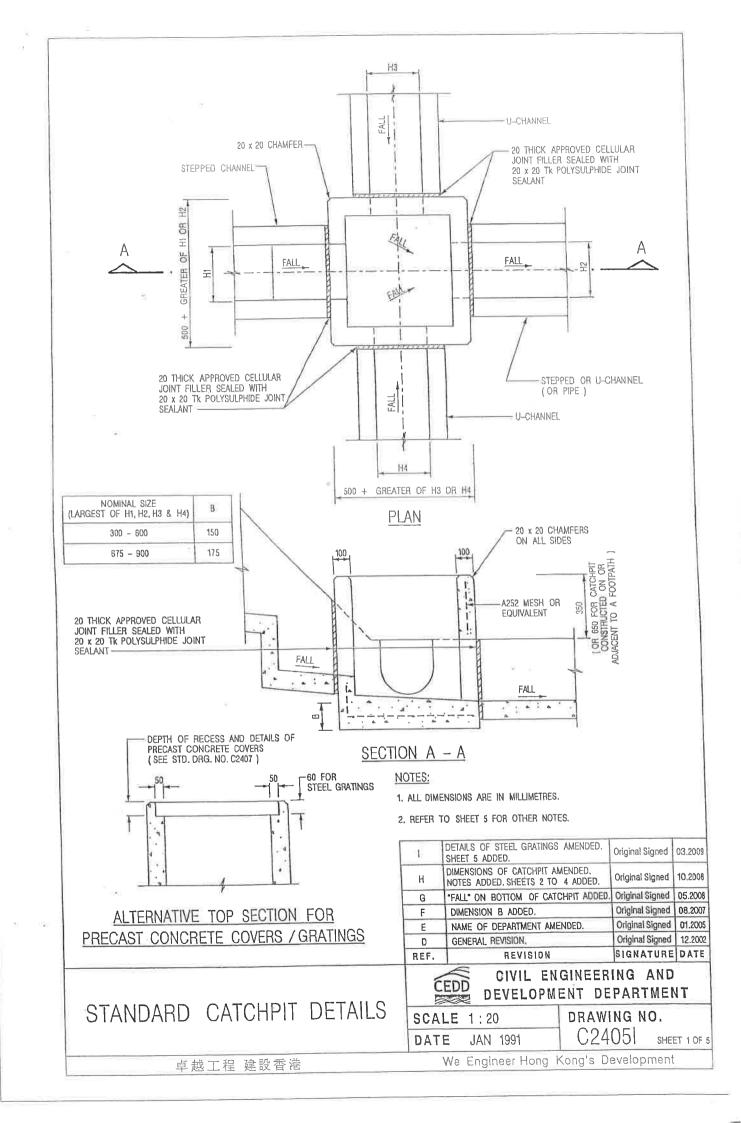
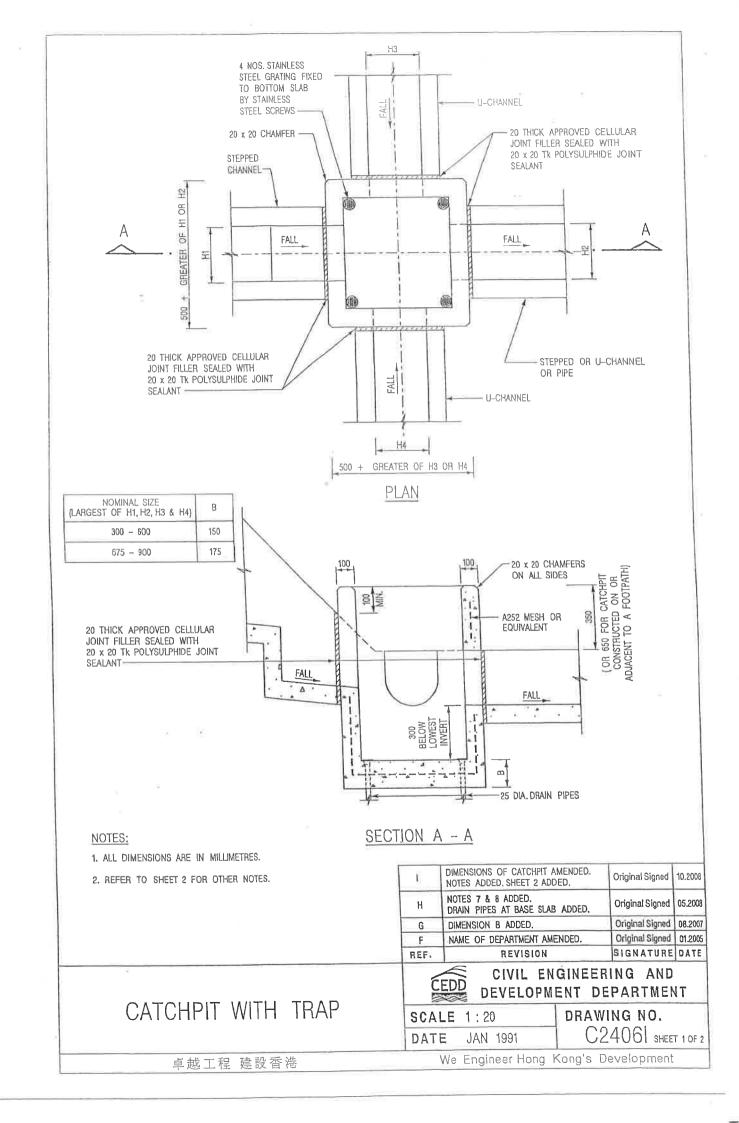
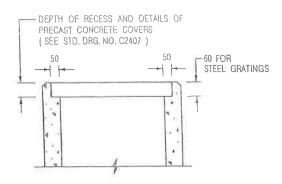


Figure 8.11 - Typical U-channel Details
Extracted from 'Geotechnical Manual for Slepes', Gto









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 CATCHIPTS 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 CATCHIPTS NOT ON A FOOTPATH NOR ADJACENT TO IT. TOP OF THE HANDRAILING SHALL BE 1000 mm MIN. MEASURED FROM THE ADJACENT GROUND LEVEL.
- 10. MINIMUM-INTERNAL CATCHPIT WIDTH SHALL BE 1000 mm FOR CATCHPITS WITH A HEIGHT EXCEEDING 1000 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 DEATIL 'F' ON STD. DRG. NO. C2405.
- 12. SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

	1	DIMENSIONS OF CATCHPIT AMENDED. NOTES ADDED. SHEET 2 ADDED.	Original Signed	10.2008
	н	NOTES 7 & 8 ADDED. DRAIN PIPES AT BASE SLAB ADDED.	Original Signed	05.2008
	G	DIMENSION B ADDED.	Original Signed	08.2007
	F	NAME OF DEPARTMENT AMENDED.	Original Signed	
	REF.	REVISION	SIGNATURE	DATE



CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1:20

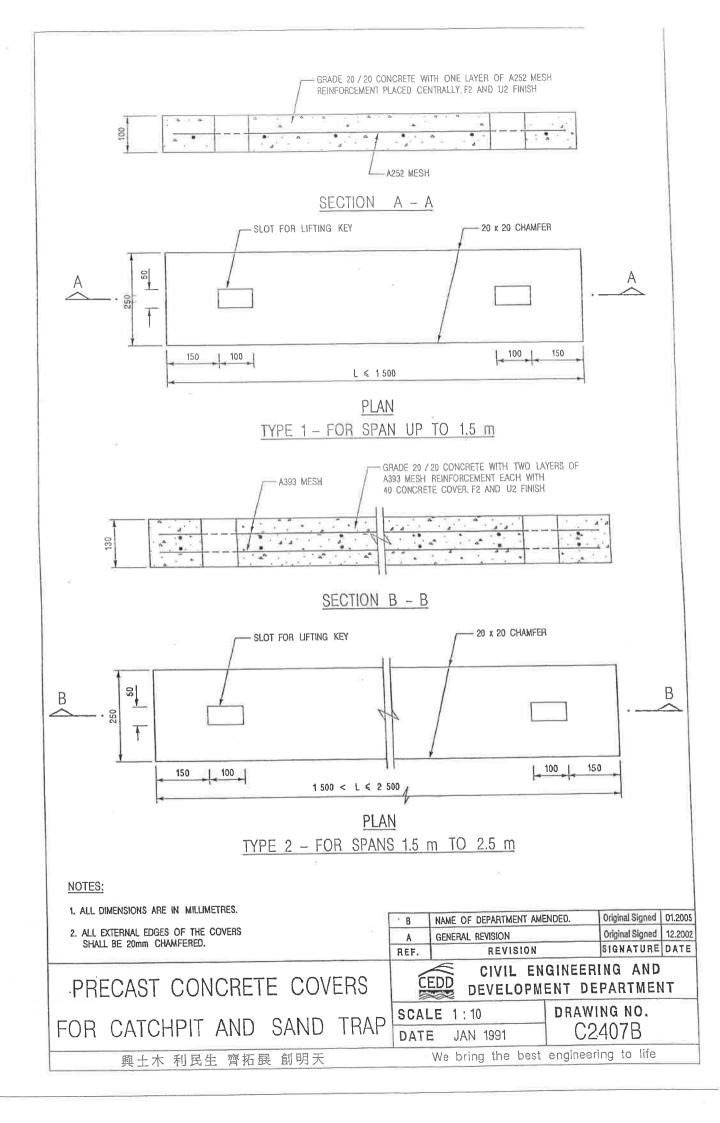
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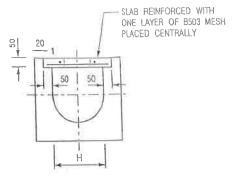
DATE JAN 1991

CATCHPIT WITH TRAP

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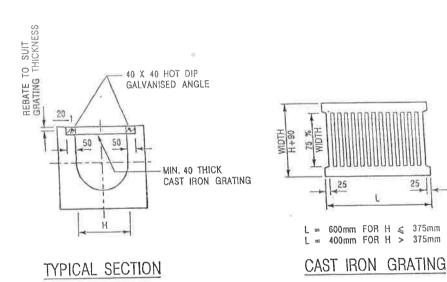


GRADE 20 / 20 PRECAST CONCRETE SLAB WITH F2 FINISH 200 x 100 B503 MESH 15 x 15 CORNER FILLETS ON ALL EDGES 600

PLAN OF SLAB TYPICAL SECTION

U-CHANNELS WITH PRECAST CONCRETE SLABS

(UP TO H OF 525)



(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 150 TO BS 1452.
- 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. H2233.

Γ	D	NOTE 4 ADDED.	Original Signed	06.2008
	C	MINOR AMENDMENT, NOTE 3 ADDED.	Original Signed	12.2005
	В	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
	A	CAST IRON GRATING AMENDED.	Original Signed	
	REF.	REVISION	SIGNATURE	DATE

CIVIL ENGINEERING AND

COVER SLAB AND CAST IRON GRATING FOR CHANNELS

DEVELOPMENT DEPARTMENT DRAWING NO. **SCALE** 1:20 C2412D JAN 1991 DATE

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CEDD