Attachment B2

Pipe Information

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.
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N

816600 E | 816700 E | 816800 E | 816900 E

832700 N | 832600 N | 832500 N

MATCH LINE
FOR CONTINUATION
SEE DRG 278463/C4/DRA/1105

MATCH LINE
FOR CONTINUATION
SEE DRG 278463/C4/DRA/1106

MATCH LINE
FOR CONTINUATION
SEE DRG 278463/C4/DRA/1107

MATCH LINE
FOR CONTINUATION
SEE DRG 278463/C4/DRA/1110

SITE 4-9
(RESIDENTIAL)

SITE 4-13b
(COMMERCIAL)

APPLICATION SITE

SITE 4-13a
(COMMERCIAL)

SITE 4-14
(REGIONAL PLAZA)

Lead-in location for Area 32B
(site 4-13b)

ROAD L22

ROAD D6 (BY OTHER HSK/HT NDA SECOND PHASE DEVELOPMENT CONTRACT)

RESERVE FOR CTS (BY OTHER HSK/HT NDA SECOND PHASE DEVELOPMENT CONTRACT)

PROPOSED TUEN MA LINE HUNG SHUI KIU STATION (BY OTHERS)

PROPOSED WORKS
(BY OTHER HSK/HT NDA
SECOND PHASE DEVELOPMENT
CONTRACT)

BOX CULVERT CONSTRUCTED BY OTHER HSK/HT NDA SECOND PHASE DEVELOPMENT CONTRACT

OUTFALL OF-TSC14 TYPE D6 FOR OUTFALL. DETAILS REFER TO 278463/C4/DRA/1310

OUTFALL OF-TSC17 TYPE D7 (WITH FLAP VALVE) FOR OUTFALL DETAILS REFER TO 278463/C4/DRA/1311

PROPOSED DOUBLE 300ø PIPE
US I.L. +8.600
DS I.L. + 8.523

OUTFALL OF-TSC16 TYPE D6 FOR OUTFALL DETAILS REFER TO 278463/C4/DRA/1310

PROPOSED DOUBLE 300ø PIPE
US I.L. +8.344mPD
DS I.L. + 8.300mPD

OUTFALL OF-TSC15 TYPE D7 (WITH FLAP FALVE) FOR OUTFALL. DETAILS REFER TO 278463/C4/DRA/1311

TEMPORARY PLUG BY THE CONTRACTOR FOR CONNECTION TO DRAINAGE SYSTEM CONSTRUCTED BY OTHER HSK/HT NDA SECOND PHASE DEVELOPMENT CONTRACT

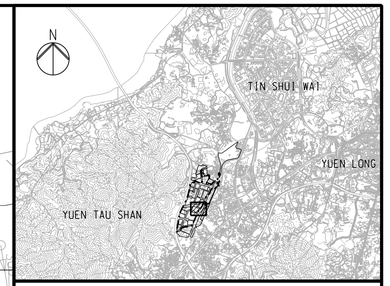
4 NOS. GULLY WITH OVERFLOW WEIR TYPE K1-450V

SEE NOTE 2

CP-S4.5-1 | LI-SITE4.5-2 | CP003TSC | SMH002TSC | SMH002aTSC | OF-TSC02a | OF-TSC03a | OF-TSC02 | OF-TSC03 | SMH003aTSC | SMH003TSC | SMH008TSC | CP12.16 | CP005TSC | CP-S4.12c | UC_12.34 | UC_13.21 | LI-S4.13b | UC_13.24 | CP13.01 | CP002TSC | UC_5.3 | UC_9.8 | UC_9.1 | CP9.06 | CP9.05 | UC_9.4 | CP-S4.9-3 | UC_10.05 | UC_10.1 | CP-007aTSC | CP-008aTSC | OF-TSC10 | OF-TSC13 | CP010TSC | SMH010TSC | SMH011TSC | OF-TSC12 | OF-TSC9 | CP009TSC | CP007TSC | CP007aTSC | CP10.04 | OF-TSC05 | CP008TSC | OF-TSC08 | CP007GTS | CP13.02 | CP13.03 | CP13.04 | CP13.05 | CP13.06 | CP13.07 | CP13.10 | UC_13.26 | UC_13.1 | UC13.5 | SMH018aL22 | SMH018bL22 | SMH018cL22 | SMH019aL22 | SMH019bL22 | SMH019cL22 | CP013L22 | CP015L22 | SMH020D7 | SMH021D7 | CP016L22 | CP017L22 | TEP-L22 | CP-S4.13a | CP-4.13b | LI-S4.13a-1 | LI-S4.13a-2 | CP-S4.13C | CP12.17 | CP-S4.12c | CP13.26 | CP13.07 | CP013L22 | CPC2 | CPE6 | CATCHPIT 525 RCP

3000 Channel | 4000 Channel | 5000 Channel | CH00-700 | 300 UPVC

0 5 10 15 20 25
METRES
1 : 500



KEY PLAN

NOTES

1. FOR GENERAL NOTES ADN LEGEND, REFER TO DRAWING NO.278463/C4/DRA/1001.
2. PROPOSED U-CHANNELS AT RUN-INS SHALL BE PROVIDED WITH HEAVY DUTY CAST IRON COVERS AS SHOWN ON THE DRAWINGS.
3. SPACING OF ROAD GULLIES THUS SHOWN:

G_s=9m — GULLY SPACING. 9m MAXIMUM

Rev	Description	By	Date
00	TENDER ISSUE	EF	02/24

Consultant
ARUP

Project Title
Contract No. YL/2023/04
Hung Shui Kiu/Ha Tsuen
New Development Area
Second Phase Development - Contract 4 -
Site Formation and Engineering
Infrastructure Works

Drawing title
DRAINAGE LAYOUT PLAN
(SHEET 8)

Drawing no.	Rev.
278463/C4/DRA/1108	00

Drawn	Date	Checked	Approved
DT	02/24	EF	DL

Scale	Status
1:500 @ A1	TENDER

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土木工程拓展署
Civil Engineering and Development Department

Printed by : Michael-KH.Ng Date : 3/7/2024
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DRAINAGE D7 MANHOLE SCHEDULE

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE LENGTH (m)	UPSTREAM MH/CP TYPE	DOWNSTREAM MH/CP TYPE	PIPE DIAMETER (mm)	UPSTREAM MH/CP COVER LEVEL (mPD)	DOWNSTREAM MH/CP COVER LEVEL (mPD)	UPSTREAM INVERT LEVEL (mPD)	DOWNSTREAM INVERT LEVEL (mPD)	PIPE GRADIENT (1 in X)
TEP-D7b	SMH010aD7	8.32	TP	E1	300	22.00	22.21	20.46	20.40	150
SMH010aD7	SMH010bD7	36.75	E1	E1	375	22.21	21.98	20.36	20.10	149
SMH010bD7	SMH010cD7	54.88	E1	E1	375	21.98	19.16	20.10	17.28	20
SMH010cD7	SMH010L22	17.60	E1	J	450	19.16	18.46	17.28	16.49	24
CP003D7	SMH010cD7	6.70	CP-A	E1	225	19.45	19.16	17.51	17.43	98
TEP-D7a	SMH001D7	2.41	TP	E1	300	22.00	22.76	20.91	20.90	191
SMH001D7	SMH002D7-SM	32.89	E1	E1	300	22.76	22.55	20.90	20.64	137
SMH002D7-SM	SMH003D7	34.46	E1	E1	375	22.55	20.74	19.00	18.82	205
SMH003D7	SMH001L21	15.94	E1	E1	375	20.74	19.73	17.98	17.90	213
CP001D7	SMH002D7-SM	5.12	CP-A	E1	225	22.60	22.55	20.99	20.92	99
CP002D7	SMH003D7	5.43	CP-A	E1	225	21.00	20.74	19.21	19.14	100
LI-S4.16-2	SMH006D7	14.08	TP	H	450	18.00	17.66	15.85	15.80	330
SMH006D7	SMH007D7	11.77	H	H	750	17.66	17.90	15.41	15.28	102
SMH007D7	SMH008D7	16.08	H	I	900	17.90	17.86	15.00	14.81	94
SMH008D7	SMH009D7	31.53	I	I	1050	17.86	18.39	14.81	14.45	94
SMH009D7	SMH010L22	23.76	I	J	1200	18.39	18.46	14.45	14.40	514
LI-S4.12d-2	SMH007D7	23.59	TP	H	450	18.00	17.90	15.10	15.00	245
LI-S4.12d-1	SMH009D7	16.80	TP	I	450	19.10	18.39	15.05	15.00	345
CP004D7	SMH008bD7	6.84	CP-A	E1	225	17.86	17.75	16.10	16.03	99
SMH008bD7	SMH008D7	3.48	E1	I	450	17.75	17.86	15.61	15.55	95
SMH008cD7	SMH008dD7	8.90	E1	E1	300	17.59	17.59	15.80	15.73	149
SMH008dD7	SMH008bD7	15.42	E1	E1	300	17.59	17.75	15.73	15.61	149
SMH08aD7	SMH008bD7	45.33	E1	E1	300	18.83	17.75	17.04	15.95	43
SMH004D7	SMH005D7	10.05	E1	E1	300	17.73	17.75	15.93	15.85	150
SMH005D7	SMH006D7	13.37	E1	H	450	17.75	17.66	15.80	15.71	162
LI-S4.16-1	SMH005D7	12.76	TP	E1	450	18.00	17.75	15.85	15.80	298
CP005D7	SMH006D7	10.68	CP-A	H	225	17.91	17.66	16.08	15.96	102
SMH008eD7	SMH008fD7	11.26	E1	E1	300	17.71	17.60	15.91	15.80	117
SMH008fD7	SMH008gD7	13.26	E1	E1	300	17.60	17.63	15.80	15.71	149
SMH008gD7	SMH008hD7	8.48	E1	E1	375	17.63	17.87	15.71	15.64	148
SMH008hD7	SMH008D7	4.43	E1	I	375	17.87	17.86	15.64	15.60	161
SMH008iD7	SMH008jD7	6.38	E1	E1	300	17.98	17.93	16.18	16.13	147
SMH008jD7	SMH008hD7	17.54	E1	E1	300	17.93	17.87	16.13	16.04	208
CP006D7	SMH008gD7	5.15	CP-A	E1	225	17.79	17.63	15.96	15.90	102
SMH008kD7	SMH008lD7	18.56	E1	E1	300	18.15	17.79	16.35	15.99	55
SMH008lD7	SMH008hD7	8.77	E1	E1	300	17.79	17.87	15.99	15.89	106
CP-S4.13a-2	D-D7-3	4.79	CP-D	TP	375	12.46	12.46	9.86	9.81	100
SP-S4.13a-1	D-D7-2	4.35	CP-D	TP	375	11.46	11.46	9.71	9.66	100
CP-4.16	D-D7-1	4.53	CP-D	TP	375	11.79	11.50	10.00	9.95	100
CP-S4.15-3	SMH001D7	9.83	CP-D	E1	300	21.41	22.76	19.00	18.89	96
SMH001aL21	SMH001L21	9.67	E1	E1	300	19.48	19.73	17.69	17.64	199
SMH001L21	SMH002L21	41.69	E1	G1	375	19.73	18.48	16.84	16.63	200
SMH002L21	SMH003L21	34.81	G1	G1	825	18.48	17.76	16.33	15.41	40
SMH003L21	SMH004L21	25.12	G1	H	825	17.76	17.83	15.41	15.28	200
SMH004L21	SMH005L21	12.86	H	I	825	17.83	17.79	15.28	15.13	95
SMH005L21	SMH006L21	12.65	I	H	825	17.79	17.66	15.13	15.08	331
SMH006L21	OF-ExNullah	21.77	H	OF-D7	1200	17.66	17.22	15.08	15.00	264
CP001L21	SMH002L21	5.71	CP-A	G1	225	18.74	18.48	17.01	16.94	99
CP002L21	SMH002L21	7.66	CP-A	G1	225	18.75	18.48	17.02	16.92	89
LI-S4.15-1	SMH002L21	16.01	TP	G1	675	18.50	18.48	16.72	16.33	44
CPL21b_2	SMH003L21	5.46	CP-A	G1	225	17.89	17.76	16.17	16.10	93
CPL21b_3	SMH004L21	6.00	CP-A	H	225	17.91	17.83	16.19	16.12	99
LI-S4.15-2	SMH006aL21	12.80	TP	E1	675	18.00	17.80	15.76	15.62	100
SMH006aL21	SMH006bL21	12.75	E1	H	675	17.80	17.75	15.62	15.29	42
CP-S4.15-1	CP003L21	4.97	CP-D	CP-A	375	18.00	17.97	16.83	16.78	100
CP003L21	SMH006aL21	4.78	CP-A	E1	375	17.97	17.80	16.10	16.03	83
LI-S4.17	SMH006bL21	15.17	TP	H	900	16.63	17.75	15.49	15.34	101
SMH006bL21	SMH006L21	16.73	H	H	900	17.75	17.66	15.29	15.11	100
CP-S4.17-1	SMH006bL21	11.56	TP	H	375	18.28	17.75	16.83	16.71	100
CP-S4.17-2	CP002TSCS	3.76	TP	CP-A	375	18.03	18.08	16.63	16.59	100
CP002TSCS	OF-002TSCS	3.24	CP-A	OF-D7	375	18.08	17.22	16.16	16.11	78
CP-S4.15-2	SMH006bL21	13.11	TP	H	375	18.00	17.75	16.83	16.69	100
SMH010L22	SMH011L22	52.98	J	J	1350	18.46	17.12	14.40	14.27	407
SMH011L22	SMH012L22	17.14	J	J	1350	17.12	16.80	14.27	13.95	57
SMH012L22	SMH013L22	27.34	J	J	1350	16.80	16.38	13.95	13.56	73
SMH013L22	SMH014L22	27.51	J	J	1350	16.38	15.93	13.56	13.08	59
SMH014L22	SMH015L22	52.10	J	J	1350	15.93	15.33	13.08	12.02	50
SMH015L22	SMH016L22	23.62	J	J	1500	15.33	14.27	12.02	11.52	48
SMH016L22	SMH017L22	21.17	J	L	1500	14.27	13.41	11.52	11.05	48
SMH017L22	SMH018aL22	25.10	L	L	1500	13.41	12.77	11.05	10.53	49
SMH018aL22	SMH018L22	14.54	L	L	1350	12.77	12.80	10.53	10.20	49
SMH018L22	SMH019L22	29.77	L	K/D	1650	12.80	12.78	10.20	9.56	48
SMH019L22	SMH020D7	52.58	K/D	J	1800	12.78	12.50	9.56	9.49	790
SMH020D7	SMH021D7	27.89	J	J	1800	12.50	11.73	9.49	8.70	36
SMH021D7	TEP-L22	3.33	J	TP	1800	11.73	11.64	8.70	8.61	46
CP007L22	SMH011L22	7.88	CP-A	J	225	17.33	17.12	15.49	15.39	94
LI-S4.12a-2	SMH011L22	15.06	TP	J	525	17.52	17.12	14.58	14.42	100
LI-S4.12a-1	SMH012L22	17.60	TP	J	525	18.00	16.80	13.98	13.80	100
CP-S4.12a	SMH012L22	12.92	CP-D	J	450	17.13	16.80	15.89	15.76	100

DRAINAGE D7 MANHOLE SCHEDULE

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE LENGTH (m)	UPSTREAM MH/CP TYPE	DOWNSTREAM MH/CP TYPE	PIPE DIAMETER (mm)	UPSTREAM MH/CP COVER LEVEL (mPD)	DOWNSTREAM MH/CP COVER LEVEL (mPD)	UPSTREAM INVERT LEVEL (mPD)	DOWNSTREAM INVERT LEVEL (mPD)	PIPE GRADIENT (1 in X)
CP009L22	SMH012L22	4.72	CP-A	J	225	16.94	16.80	15.15	15.08	94
LI-S4.12b-2	SMH013L22	13.14	TP	J	525	17.00	16.38	13.70	13.56	101
CP008L22	SMH013L22	7.01	CP-A	J	225	16.51	16.38	14.70	14.62	103
LI-S4.12b-1	SMH014L22	13.34	TP	J	525	16.63	15.93	13.15	13.08	200
CP010L22	SMH014L22	4.61	CP-A	J	225	16.09	15.93	14.27	14.21	100
SMH015aL22	SMH015bL22	13.31	E1	E1	225	15.80	15.50	12.30	12.15	100
SMH015bL22	SMH015cL22	11.76	E1	E1	450	15.50	15.40	12.15	12.09	200
SMH015cL22	SMH015L22	12.42	E1	J	450	15.40	15.33	12.09	12.02	200
CP-S4.12b	SMH015bL22	14.17	CP-D	E1	450	16.05	15.50	12.23	12.15	200
CP011L22	SMH015L22	15.84	CP-A	J	225	15.73	15.33	13.73	13.67	277
SMH016aL22	SMH016bL22	13.87	E1	E1	225	14.76	14.20	13.05	12.91	100
SMH016bL22	SMH016L22	2.13	E1	J	225	14.20	14.27	12.91	12.88	100
CP012L22	SMH016L22	6.67	CP-A	J	225	14.66	14.27	12.66	12.60	122
CP013L22	SMH017L22	6.84	CP-A	L	225	13.77	13.41	11.74	11.66	98
SMH018cL22	SMH018bL22	14.48	E1	E1	225	13.22	12.93	11.46	11.31	100
SMH018bL22	SMH018aL22	3.00	E1	L	225	12.93	12.80	11.31	10.53	100
CP-4.12c	CP013L22a	5.20	CP-D	CP-D	450	13.26	13.08	11.37	11.34	200
CP013L22a	SMH018bL22	5.95	CP-D	E1	450	13.08	12.93	11.34	11.31	200
LI-S4.13a-2	SMH018L22	14.15	TP	L	900	11.69	12.80	10.55	10.40	105
CP-S4.13C	CP015L22	4.96	CP-D	CP-A	450	13.41	12.89	11.13	11.07	118
CP015L22	SMH018L22	4.30	CP-A	L	450	12.89	12.80	11.14	11.07	97
CP014L22	SMH018L22	7.23	CP-A	L	225	12.90	12.80	11.50	11.48	357
SMH019bL22	SMH019cL22	12.25	E1	E1	300	12.70	12.71	10.90	10.81	149
SMH019cL22	SMH019L22	12.76	E1	K/D	300	12.71	12.78	10.81	10.71	154
SMH019aL22	SMH019L22	11.25	E1	K/D	300	12.73	12.78	10.93	10.85	167
LI-S4.13a-1	SMH020D7	12.86	TP	J	900	11.14	12.50	10.00	9.85	96
CP-S4.13a	CP017L22	1.62	CP-D	CP-A	450	12.00	11.59	10.13	10.11	100
CP017L22	SMH021D7	9.45	CP-A	J	450	11.59	11.73	10.11	10.06	200
CP-4.13b	CP016L22	1.90	CP-D	CP-A	450	11.66	11.67	10.22	10.20	100
CP016L22	SMH021D7	1.56	CP-A	J	450	11.67	11.73	10.20	10.18	200
TP2303A	SMH2303	6.50	OF-D7	SP-K/D	1500	23.90	23.98	17.90	17.89	836
SMH2303	D-BCTSC-1b	13.05	SP-K/D	OF-D1a	1500	23.98	22.53	17.89	17.82	201
CP001TSCS	CP001aTSCS	3.52	CP-A	CP-A	375	19.98	19.50	18.12	18.09	106
CP001aTSCS	OF-001TSCS	3.21	CP-A	OF-D7	375	19.50	20.00	18.09	18.05	94
CP003TSCS	CP003aTSCS	7.17	CP-A	CP-A	300	16.68	16.88	15.17	15.09	100
CP003aTSCS	OF-003TSCS	3.33	CP-A	OF-D7	375	16.88	16.80	15.09	15.05	90
CP004TSCS	OF-004TSCS	1.65	CP-A	OF-D7	300	15.21	15.20	13.78	13.76	96
CP-S4.12b-1	CP005TSCS	9.98	CP-D	CP-A	450	15.50	15.00	14.15	14.04	100
CP005TSCS	OF-005TSCS	3.24	CP-A	OF-D7	450	14.38	14.50	12.61	12.57	97
CP006TSCS	CP006aTSCS	6.80	CP-A	CP-A	300	12.63	12.68	10.82	10.74	97
CP006aTSCS	OF-006TSCS	3.32	CP-A	OF-D7	375	12.68	12.72	10.74	10.70	89
CP-S4.16-1	CP008TSCS	5.94	CP-D	CP-A	375	12.41	12.58	11.62	11.56	100
CP008TSCS	OF-008TSCS	4.76	CP-A	OF-D7	375	12.58	12.40	10.53	10.48	98
CP007TSCS	CP007aTSCS	5.71	CP-A	CP-A	300	12.28	12.38	10.48	10.42	96
CP007aTSCS	OF-007TSCS	2.84	CP-A	OF-D7	375	12.38	12.40	10.42	10.39	103
LI-S4.13b	SMH003TSC	5.50	TP	H	1200	12.80	13.99	11.32	11.31	556
SMH003TSC	OF-TSC03	14.09	TP	OF-D7	1200	13.99	14.11	11.31	11.25	200

DRAINAGE L23 MANHOLE SCHEDULE

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE LENGTH (m)	UPSTREAM MH/CP TYPE	DOWNSTREAM MH/CP TYPE	PIPE DIAMETER (mm)	UPSTREAM MH/CP COVER LEVEL (mPD)	DOWNSTREAM MH/CP COVER LEVEL (mPD)	UPSTREAM INVERT LEVEL (mPD)	DOWNSTREAM INVERT LEVEL (mPD)	PIPE GRADIENT (1 in X)
SMH001L23	SMH002L23	8.00	E1	E1	225	15.87	15.90	14.01	13.92	100
SMH002L23	SMH003L23	6.12	E1	E1	225	15.90	15.82	13.92	13.84	100
SMH003L23	SMH004L23	25.90	E1	E1	300	15.82	15.80	13.84	13.70	207
SMH004L23	SMH005L23	40.05	E1	E1	375	15.80	16.56	13.70	13.49	200
SMH005L23	TEP-L23	2.49	E1	TP	450	16.56	16.64	13.49	13.48	366
CP001L23	SMH003L23	3.35	CP-B	E1	225	16.00	15.82	14.20	14.16	100
CP002L23	SMH004L23	3.86	CP-B	E1	225	15.92	15.80	14.11	14.06	100
SMH004aL23	SMH004L23	18.47	E1	E1	225	15.74	15.80	13.98	13.78	100
CP003L23	SMH005aL23	3.85	CP-B	E1	225	15.93	15.81	14.12	14.07	100
SMH005aL23	SMH005bL23	32.02	E1	E1	225	15.81	16.39	13.96	13.68	119
SMH005bL23	SMH005L23	7.00	E1	E1	300	16.39	16.56	13.68	13.63	200

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING TO 278463/C4/DRA/1151.

Rev	Description	By	Date
00	TENDER ISSUE	EF	02/24

Consultant

ARUP

Project Title

Contract No. YL/2023/04
Hung Shui Kiu/Ha Tsuen
New Development Area
Second Phase Development - Contract 4 -
Site Formation and Engineering
Infrastructure Works

Drawing title

DRAINAGE
MANHOLE SCHEDULE
(SHEET 2)

Drawing no.	Rev.
278463/C4/DRA/1152	00

Drawn	Date	Checked	Approved
CN	02/24	EF	DL

Scale	Status
N.T.S.	TENDER

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N

816600 E

816700 E

816800 E

816900 E

MATCH LINE
FOR CONTINUATION
SEE DRG 278463/C4/SEW/1105

MATCH LINE
FOR CONTINUATION
SEE DRG 278463/C4/SEW/1106

SITE 4-9
(RESIDENTIAL)

832700 N

832600 N

832500 N

APPLICATION SITE

SITE 4-13b
(COMMERCIAL)

Lead-in location for Area 32B
(site 4-13b) Site B

Lead-in location for Area 32B
(site 4-13b) Site A

MH106b

LI-S4.13b-1

LI-S4.13b-2

NS500

FMH105a

FMH106a

ROAD L2

SITE 4-13a
(COMMERCIAL)

MATCH LINE
FOR CONTINUATION
SEE DRG 278463/C4/SEW/1107

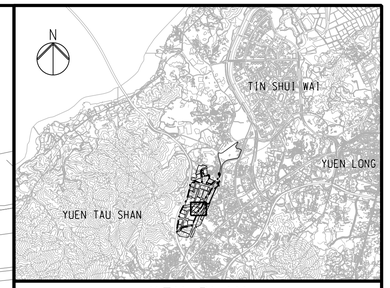
MATCH LINE
FOR CONTINUATION
SEE DRG 278463/C4/SEW/1110

RESERVE FOR GTS (BY OTHER HSK/HT NDA SECOND PHASE DEVELOPMENT CONTRACT)

ROAD D6 (BY OTHER HSK/HT NDA SECOND PHASE DEVELOPMENT CONTRACT)

PROPOSED TUEN MA LINE HUNG SHUI KIU STATION (BY OTHERS)

0 5 10 15 20 25
METRES
1 : 500



KEY PLAN

NOTES

1. FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING NO. 278463/C4/SEW/1101.

Rev	Description	By	Date
00	TENDER ISSUE	EF	02/24

Consultant

ARUP

Project Title

Contract No. YL/2023/04
Hung Shui Kiu/Ha Tsuen
New Development Area
Second Phase Development - Contract 4 -
Site Formation and Engineering
Infrastructure Works

Drawing title

SEWERAGE LAYOUT PLAN
(SHEET 8)

Drawing no.	Rev.
278463/C4/SEW/1108	00

Drawn	Date	Checked	Approved
DT	02/24	EF	DL

Scale	Status
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SEWERAGE D6 MANHOLE SCHEDULE

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE LENGTH (m)	UPSTREAM MH/CP TYPE	DOWNSTREAM MH/CP TYPE	PIPE OUTSIDE DIAMETER (mm)	UPSTREAM FINISHED GROUND LEVEL (mPD)	DOWNSTREAM FINISHED GROUND LEVEL (mPD)	UPSTREAM INVERT LEVEL (mPD)	DOWNSTREAM INVERT LEVEL (mPD)	PIPE GRADIENT (1 in X)	PIPE MATERIAL	STANDARD DIMENSIONAL RATIO
FMHSPS3-BP0	FMHSPS3-BP1	7.85	TP	H	900	8.59	11.00	7.70	7.68	515	HDPE	SDR17
FMHSPS3-BP1	FMHSPS3-BP2	34.73	H	H	900	11.00	10.98	7.68	7.37	116	HDPE	SDR17
FMHSPS3-BP2	FMHSPS3-BP3	24.71	H	H	900	10.98	9.83	7.37	7.29	304	HDPE	SDR17
FMHSPS3-BP3	FMHSPS3-BP4	31.07	H	G1	900	9.83	8.67	7.29	7.21	420	HDPE	SDR17
FMHSPS3-BP4	FMHSPS3-BP5	13.55	G1	G1	900	8.67	8.13	7.21	7.17	416	HDPE	SDR17
FMHSPS3-BP5	FMHSPS3-BP6	13.66	G1	G1	900	8.13	7.93	7.17	7.14	418	HDPE	SDR17
FMHSPS3-BP6	FMHSPS3-BP7	15.27	G1	G1	900	7.93	9.09	7.14	7.10	417	HDPE	SDR17
FMHSPS3-BP7	FMHSPS3-BP8	22.02	G1	H	900	9.09	9.81	7.10	7.05	500	HDPE	SDR17
FMHSPS3-BP8	FMHSPS3-BP9	19.30	H	H	900	9.81	9.03	7.05	6.40	31	HDPE	SDR17
FMHSPS3-BP9	FMHSPS3-BP10	24.71	H	H	900	9.03	8.03	6.40	5.58	31	HDPE	SDR17
FMHSPS3-BP10	SMH009L18	17.72	H	H	900	8.03	5.89	5.58	5.00	31	HDPE	SDR17
FMH210b	FMH211a	60.01	SP-F/D	F1	500	13.88	12.92	9.47	9.24	263	HDPE	SDR17
FMH211a	FMH217a	60.92	F1	F1	560	12.92	11.97	9.24	9.02	268	HDPE	SDR17
FMH217a	FMH218a	59.07	L	L	800	11.97	11.06	6.37	6.16	293	HDPE	SDR17
FMH218a	FMH219	57.10	L	L	1000	11.06	10.51	6.09	5.91	327	HDPE	SDR17
FMH219	FMH219a	60.40	L	L	1000	10.51	12.08	5.91	5.75	391	HDPE	SDR11
FMH219a	FMH219a.1	10.21	L	SP-1	1000	12.08	12.51	5.73	5.71	710	HDPE	SDR11
FMH219a.1	FMH219a.2	16.04	SP-1	L	1000	12.51	11.25	5.75	5.68	247	HDPE	SDR11
FMH219a.2	D-SPS3-1	6.35	L	TP	1000	11.25	6.68	5.68	5.67	500	HDPE	SDR17
FMH219a.1	FMH219a.3	17.50	SP-1	L	1000	12.51	11.25	5.75	5.68	275	HDPE	SDR11
FMH219a.3	D-SPS3-2	7.79	L	TP	1000	11.25	6.68	5.69	5.68	500	HDPE	SDR17
LI-S3.39-1	FMH210b	17.96	TP	L	355	14.19	13.88	11.40	11.28	153	HDPE	SDR17
LI-S3.39-2	FMH211a	14.08	TP	L	355	13.87	12.92	11.14	11.05	158	HDPE	SDR17
LI-S3.40-2	FMH218a	14.73	TP	L	355	13.00	11.06	6.19	6.09	150	HDPE	SDR17
LI-S4.23	FMH423a	4.74	TP	E1	315	11.10	9.30	8.20	8.18	339	HDPE	SDR17
FMH423a	FMH423b	43.21	E1	E1	315	9.30	10.88	8.18	8.06	354	HDPE	SDR17
LI-S4.6-1	FMH423b	9.80	TP	E1	315	11.50	10.88	8.71	8.61	100	HDPE	SDR17
FMH423b	FMH423c	10.96	E1	F1	315	10.88	10.53	8.06	7.99	173	HDPE	SDR17
FMH423c	FMH219	10.43	F1	L	630	10.53	10.51	7.64	7.61	409	HDPE	SDR17
FMH224a	FMH223a	29.42	E1	E1	450	10.14	10.45	8.70	8.64	487	HDPE	SDR17
FMH223a	FMH209_a	29.14	E1	F1	500	10.45	10.81	8.64	8.58	501	HDPE	SDR17
FMH209_a	FMH210_a	14.21	F1	F1	560	10.81	10.92	8.58	8.55	495	HDPE	SDR17
FMH210_a	FMH211_a	80.24	F1	L	560	10.92	12.57	8.55	8.39	504	HDPE	SDR17
LI-S4.8-1	FMH224a	16.70	TP	E1	355	11.50	10.14	8.64	8.50	118	HDPE	SDR17
LI-S4.10-2	FMH224a	15.66	TP	E1	355	11.50	10.14	8.64	8.50	114	HDPE	SDR17
LI-S4.8-2	FMH223a	15.24	TP	E1	355	11.70	10.45	8.64	8.50	107	HDPE	SDR17
LI-S4.10-1	FMH223a	16.54	TP	E1	355	11.70	10.45	8.64	8.50	121	HDPE	SDR17
LI-S4.9-2	FMH209_a	18.13	TP	F1	450	11.40	10.81	8.55	8.43	155	HDPE	SDR17
LI-S4.9-1	FMH210_a	5.15	TP	F1	450	11.40	10.92	8.55	8.50	125	HDPE	SDR17
FMH206a	FMH207a	37.56	E1	F1	450	14.85	14.53	11.79	11.53	150	HDPE	SDR17
FMH207a	FMH208b	37.04	F1	L	450	14.53	13.85	11.53	11.28	150	HDPE	SDR17
FMH208b	FMH209b	51.70	L	L	450	13.85	13.18	11.28	10.92	149	HDPE	SDR17
FMH209b	FMH210b	65.74	L	SP-F/D	500	13.18	13.88	10.92	10.47	151	HDPE	SDR17
LI-S4.1-1	FMH208b	17.77	TP	L	355	14.50	13.85	12.14	12.05	223	HDPE	SDR17
LI-S4.1-2	FMH209b	16.25	TP	L	355	14.50	13.18	12.14	12.05	206	HDPE	SDR17
LI-S4.2-1	FMH206a	23.74	TP	E1	280	15.00	14.85	12.14	12.07	380	HDPE	SDR17
LI-S4.2-2	FMH207a	14.98	TP	F1	280	15.00	14.53	12.14	12.05	181	HDPE	SDR17
LI-S4.4-2	FMH206a	31.42	TP	E1	400	15.00	14.85	12.00	11.79	150	HDPE	SDR17
LI-S4.4-3	FMH207a	13.53	TP	F1	355	15.00	14.53	11.80	11.53	51	HDPE	SDR17
FMH260a	FMH261B	9.59	L	F1	400	14.11	13.67	10.21	10.17	292	HDPE	SDR17
FMH261B	FMH261a	18.13	F1	F1	400	13.67	12.88	10.17	10.11	305	HDPE	SDR17
FMH261a	FMH262a	58.21	F1	F1	400	12.88	12.40	10.11	8.90	49	HDPE	SDR17
FMH262a	FMH263a	26.62	F1	F1	400	12.40	12.45	8.90	8.86	699	HDPE	SDR17
FMH263a	FMH217a	29.86	F1	L	400	12.45	11.97	8.86	8.49	84	HDPE	SDR17
LI-S3.36-1	FMH260a	6.05	TP	L	400	14.00	14.11	10.25	10.22	217	HDPE	SDR17
LI-S3.40-1	FMH261a	5.62	TP	F1	400	13.00	12.88	10.50	10.48	331	HDPE	SDR17
LI-S4.4-1	FMH195.1	7.44	TP	L	400	13.50	12.52	11.50	10.86	12	HDPE	SDR17
FMH195.1	FMH196.1	14.77	L	E1	560	12.52	12.45	8.70	8.54	100	HDPE	SDR17
FMH196.1	FMH211_a	12.06	E1	L	560	12.45	12.57	8.54	8.39	100	HDPE	SDR17
FMH211_a	FMH213	32.85	L	L	630	12.57	12.87	8.39	8.33	601	HDPE	SDR17
FMH213	FMH212a	29.84	L	L	630	12.87	13.09	8.33	8.28	615	HDPE	SDR17
FMH212a	FMH215	53.60	L	E1	630	13.09	12.87	8.28	8.19	605	HDPE	SDR17
FMH215	FMH213a	24.63	E1	E1	630	12.87	12.60	8.14	8.06	298	HDPE	SDR17
FMH213a	FMH216	24.80	E1	L	630	12.60	12.43	8.06	8.00	453	HDPE	SDR17
FMH216	FMH215a	60.25	L	L	630	12.43	12.28	8.00	7.95	500	HDPE	SDR17
FMH215a	FMH216a	31.12	L	L	630	12.28	12.50	7.95	7.90	706	HDPE	SDR17
FMH216a	FMH423d	19.20	L	L	630	12.50	12.03	7.90	7.77	146	HDPE	SDR17
FMH423d	FMH423c	119.12	L	F1	630	12.03	10.53	7.77	7.64	500	HDPE	SDR17
LI-S4.3-1	FMH216	22.56	TP	L	400	12.50	12.43	9.50	9.26	100	HDPE	SDR17
LI-S4.3-2	FMH216a	22.04	TP	L	400	12.50	12.50	9.00	8.78	100	HDPE	SDR17
LI-S4.6-2	FMH216a	11.05	TP	L	400	12.20	12.50	8.50	8.43	179	HDPE	SDR17
LI-S4.7-1	FMH212a	9.63	TP	L	400	14.00	13.09	7.44	7.40	299	HDPE	SDR17
LI-S4.7-2	FMH215	9.71	TP	E1	400	14.00	12.87	11.68	11.64	296	HDPE	SDR17
FMH193.1	FMH194.1	35.80	L	L	400	12.94	12.72	9.50	9.12	100	HDPE	SDR17
FMH194.1	FMH195.1	39.23	L	L	400	12.72	12.52	9.12	8.70	100	HDPE	SDR17
LI-S4.5-1	FMH193.1	5.25	TP	L	400	14.50	12.94	10.60	10.54	100	HDPE	SDR17
LI-S4.5-2	FMH194.1	4.74	TP	L	400	14.50	12.72	11.50	11.48	303	HDPE	SDR17

SEWERAGE D7 MANHOLE SCHEDULE

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE LENGTH (m)	UPSTREAM MH TYPE	DOWNSTREAM MH TYPE	PIPE OUTSIDE DIAMETER (mm)	UPSTREAM FINISHED GROUND LEVEL (mPD)	DOWNSTREAM FINISHED GROUND LEVEL (mPD)	UPSTREAM INVERT LEVEL (mPD)	DOWNSTREAM INVERT LEVEL (mPD)	PIPE GRADIENT (1 in X)	PIPE MATERIAL	STANDARD DIMENSIONAL RATIO
LI-S4.13b-2	FMH105a	18.90	TP	E1	500	13.50	12.71	11.05	10.95	196	HDPE	SDR17
FMH115	FMH116a	27.07	SP-L	SP-L	710	18.25	18.86	9.52	9.38	206	HDPE	SDR11
FMH116a	FMH122a	29.11	SP-L	SP-L	710	18.86	19.00	9.38	9.23	197	HDPE	SDR11
FMH122a	TEP-D7	81.94	SP-L	TP	900	19.00	9.59	9.23	8.81	201	HDPE	SDR11
LI-S4.13b-1	FMH106a	14.66	TP	E1	500	14.00	12.78	11.50	11.45	315	HDPE	SDR17
LI-S4.13a-2	FMH106a	23.11	TP	E1	500	14.00	12.78	11.62	11.58	586	HDPE	SDR17
LI-S4.12c-2	FMH107a	12.64	TP	L	500	15.20	14.54	12.14	12.08	211	HDPE	SDR17
LI-S4.12c-1	FMH108a	12.69	TP	L	500	16.00	15.42	14.40	13.72	20	HDPE	SDR17
LI-S4.12b-2	FMH109a	14.07	TP	L	450	16.40	15.68	12.18	12.13	250	HDPE	SDR17
LI-S4.12b-1	FMH109b	12.74	TP	L	450	17.00	16.30	14.55	14.45	132	HDPE	SDR17
LI-S4.12a-2	FMH110a	13.88	TP	L	450	18.10	17.21	12.18	12.13	251	HDPE	SDR17
FMH105a	FMH106a	13.95	E1	E1	500	12.71	12.78	10.95	10.88	203	HDPE	SDR17
LI-S4.12a-1	FMH115	20.37	TP	SP-L	450	19.00	18.25	12.18	12.10	244	HDPE	SDR11
LI-S4.13a-1	FMH114a	22.09	TP	L	500	18.00	17.71	12.18	12.03	145	HDPE	SDR17
FMH114a	FMH115a	26.57	L	L	450	17.71	17.88	11.82	11.63	147	HDPE	SDR17
FMH115a	FMH116a	38.63	L	L	450	17.88	18.86	11.63	11.36	152	HDPE	SDR11
LI-S4.16-2	FMH112a	22.71	TP	L	400	18.00	17.82	12.18	12.03	149	HDPE	SDR11
FMH112a	FMH114a	16.63	L	L	400	17.82	17.71	11.95	11.82	151	HDPE	SDR17
LI-S4.16-1	FMH111a	12.02	TP	L	400	18.00	12.93	12.18	12.10	149	HDPE	SDR17
FMH111a	FMH112a	20.61	L	L	400	12.93	17.82	12.10	11.95	149	HDPE	SDR11
LI-S4.17	FMH117a	14.89	TP	SP-L	355	18.60	17.69	10.18	10.13	274	HDPE	SDR11
FMH117a	FMH118a	10.78	SP-L	SP-L	355	17.69	17.87	10.13	10.08	268	HDPE	SDR11
FMH106a	FMH106b	46.34	E1	E1	560	12.78	13.39	10.88	10.64	199	HDPE	SDR17
FMH118a	FMH120a	11.34	SP-L	SP-L	355	17.87	17.76	10.08	10.03	274	HDPE	SDR11
FMH120a	FMH121a	48.35	SP-L	SP-L	450	17.76	18.15	10.03	9.85	270	HDPE	SDR11
FMH121a	FMH122a	63.04	SP-L	SP-L	500	18.15	19.00	9.85	9.61	272	HDPE	SDR11
LI-S4.2d-1	FMH119a	17.44	TP	F1	450	18.00	17.86	14.53	14.41	149	HDPE	SDR17
FMH119a	FMH120a	17.48	F1	L	450	17.86	17.76	14.41	14.28	146	HDPE	SDR17
LI-S4.15-1	FMH120a	13.56	TP	L	355	18.00	17.76	14.83	14.75	184	HDPE	SDR17
LI-S4.15-2	FMH121a	12.98	TP	L	355	20.00	18.15	13.52	13.43	149	HDPE	SDR17
LI-S4.12d-2	FMH121a	16.74	TP	L	450	19.00	18.15	13.52	13.40	149	HDPE	SDR17
FMH106b	FMH107a	26.99	E1	L	560	13.39	14.54	10.64	10.49	206	HDPE	SDR17
FMH107a	FMH108a	30.35	L	L	560	14.54	15.42	10.49	10.33	200	HDPE	SDR17
FMH108a	FMH109a	23.86	L	L	710	15.42	15.68	10.33	10.20	201	HDPE	SDR17
FMH109a	FMH109b	43.30	L	SP-L	710	15.68	16.30	10.20	9.98	200	HDPE	SDR17
FMH109b	FMH110a	51.73	SP-L	SP-L	710	16.30	17.21	9.98	9.71	200	HDPE	SDR17
FMH110a	FMH115	35.57	SP-L	SP-L	710	17.21	18.25	9.71	9.52	196	HDPE	SDR17

NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO DRAWING NO. 278463/C4/SEW/1001.
2. FOR DETAILS OF STANDARD MANHOLES TYPES E1, F1, G1, L AND H REFER TO LATEST DSD STANDARD DRAWINGS. 01
3. FOR DETAIL OF SPECIAL MANHOLE TYPE SP-L AND SP-1 REFER TO DRAWING NO. 278463/C4/SEW/1302 -1303.
4. THE COVER LEVELS SHOWN FOR MANHOLES ARE APPROXIMATE ONLY. THE FINAL COVER LEVELS SHALL BE VERIFIED ON SITE TO MATCH WITH THE FINISHED ROAD/GROUND LEVELS.
5. THE ANNOTATION TP INDICATED IN THE MANHOLE SCHEDULE REFERS TO TAPPING PIPE.
6. FOR DETAIL OF SPECIAL MANHOLE TYPE SP-F/D REFER TO DRAWING NO. 278463/C4/DRA/1306. 01

Rev	Description	By	Date
01	TENDER ADDENDUM NO. 1	EF	03/24
00	TENDER ISSUE	EF	02/24

Consultant
ARUP

Project Title
Contract No. YL/2023/04
Hung Shui Kiu/Ha Tsuen
New Development Area
Second Phase Development - Contract 4 -
Site Formation and Engineering
Infrastructure Works

Drawing title
SEWERAGE
MANHOLE SCHEDULE

Drawing no.	Rev.
278463/C4/SEW/1151	01

Drawn	Date	Checked	Approved
CN	02/24	EF	DL

Scale	Status
N.T.S.	TENDER

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