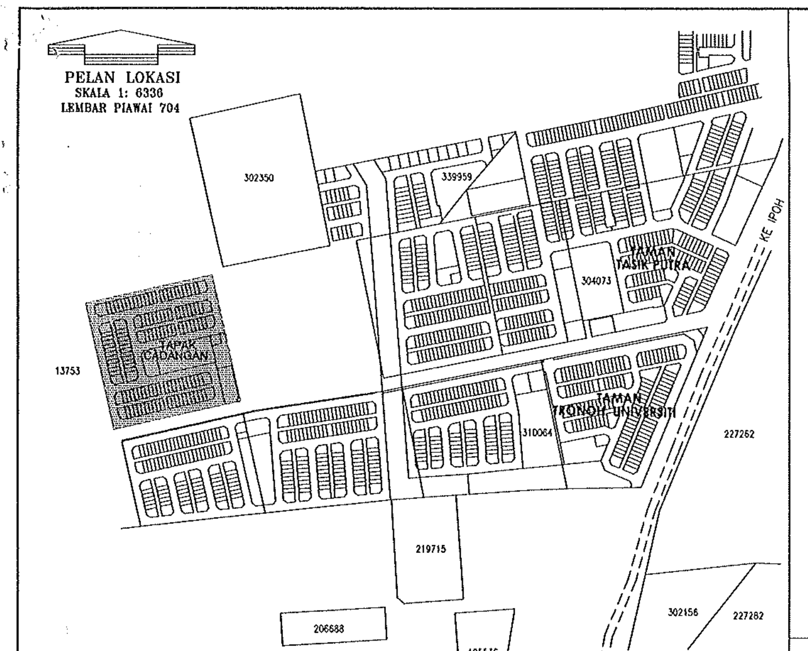
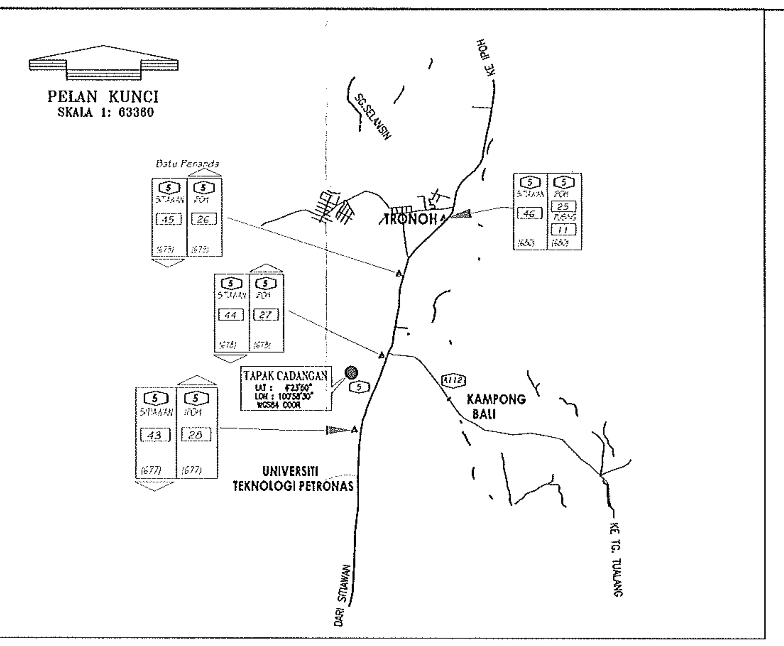
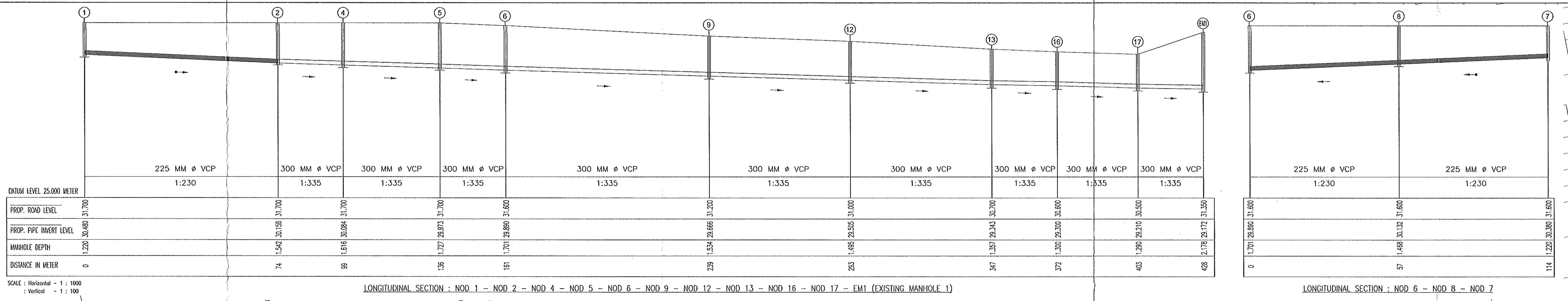
IWK/C/PK.10/03/109

INDAH WATER KONSORTIUM SDN. BHD.
PELAN-PELAN UNTUK MEMBINA REKABENTUK SISTEM PEMBETUNGAN ADALAH
DILULUSKAN
No. Rujukan: PK.10/03/109
Tarikh: 5/3/2020







LONGITUDINAL SECTION : NOD 1 – NOD 2 – NOD 4 – NOD 5 – NOD 6 – NOD 9 – NOD 12 – NOD 13 – NOD 16 – NOD 17 – EM1 (EXISTING MANHOLE 1)

DATUM LEVEL 25.000 METER

	1	2	4	5	6	9	12	13	16	17	EM1
PROP. ROAD LEVEL	31.700	31.700	31.700	31.700	31.600	31.200	31.000	30.700	30.600	30.500	31.350
PROP. PIPE INVERT LEVEL	30.480	30.158	30.084	29.973	29.890	29.666	29.505	29.343	29.300	29.210	29.172
MANHOLE DEPTH	1.220	1.542	1.616	1.727	1.701	1.534	1.495	1.357	1.300	1.290	2.178
DISTANCE IN METER	0	74	99	136	161	239	293	347	372	403	428

Pipes: 1–2: 225 MM ø VCP 1:230; 2–4, 4–5, 5–6, 6–9, 9–12, 12–13, 13–16, 16–17, 17–EM1: 300 MM ø VCP 1:335

SCALE : Horizontal – 1 : 1000
: Vertical – 1 : 100

LONGITUDINAL SECTION : NOD 6 – NOD 8 – NOD 7

	6	8	7
PROP. ROAD LEVEL	31.600	31.600	31.600
PROP. PIPE INVERT LEVEL	29.890	30.132	30.380
MANHOLE DEPTH	1.701	1.468	1.220
DISTANCE IN METER	0	57	114

Pipes: 225 MM ø VCP 1:230; 225 MM ø VCP 1:230

LONGITUDINAL SECTION : NOD 2 – NOD 3

DATUM LEVEL 25.000 METER

	2	3
PROP. ROAD LEVEL	31.700	31.700
PROP. PIPE INVERT LEVEL	30.158	30.480
MANHOLE DEPTH	1.542	1.220
DISTANCE IN METER	0	74

Pipe: 225 MM ø VCP 1:230

SCALE : Horizontal – 1 : 1000
: Vertical – 1 : 100

LONGITUDINAL SECTION : NOD 10 – NOD 11 – NOD 9

	10	11	9
PROP. ROAD LEVEL	31.700	31.200	31.200
PROP. PIPE INVERT LEVEL	30.480	29.779	29.666
MANHOLE DEPTH	1.220	1.421	1.534
DISTANCE IN METER	0	86	112

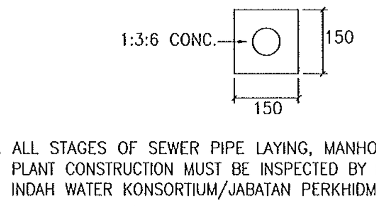
Pipes: 225 MM ø VCP 1:123; 225 MM ø VCP 1:230

LONGITUDINAL SECTION : NOD 14 – NOD 15 – NOD 16

	14	15	16
PROP. ROAD LEVEL	31.100	30.800	30.600
PROP. PIPE INVERT LEVEL	29.880	29.567	29.300
MANHOLE DEPTH	1.220	1.233	1.300
DISTANCE IN METER	0	72	144

Pipes: 225 MM ø VCP 1:230; 225 MM ø VCP 1:230

NOTES :
1. BEFORE COMMENCEMENT OF WORKS, THE SOURCES OF SUPPLY OF ALL PIPES AND FITTINGS MUST BE SUBMITTED TO THE INDAH WATER KONSORTIUM TOGETHER WITH SAMPLE OF THESE PIPES AND FITTINGS FOR APPROVAL.
2. ALL PIPES AND FITTINGS MUST BE OF AN APPROVED BRAND AND NAME COMPLYING WITH RELEVANT BRITISH STANDARD APPLICATION AND MANUFACTURED BY AN APPROVED MANUFACTURER.
3. POSITIONS OF ALL HOUSES MANHOLES TO FOLLOW BUILDING PLAN.
4. ALL PIPES WITH SIZE SMALLER THAN 600mm ø TO BE VERIFIED CLAY PIPES.
5. THE CONTRACTOR MUST CHECK ALL DIMENSIONS ON SITE, ANY DISCREPANCIES FOUND MUST BE REPORTED IMMEDIATELY TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. THE DEVELOPER WILL BE MAINTAINING THE TREATMENT PLANT/ SEWER LINES FOR A PERIOD OF TIME TO BE DETERMINED BY INDAH WATER KONSORTIUM.
7. THE CONTRACTOR SHALL CHECK AND VERIFY ALL LEVELS SHOWN ON DRAWINGS BEFORE COMMENCING WORK.
8. ALL PIPES THAT CROSSES ROAD MUST BE REINFORCED WITH CONCRETE ENCASEMENT AS SHOWN IN THE FIGURE BELOW:



9. ALL STAGES OF SEWER PIPE LAYING, MANHOLE AND TREATMENT PLANT CONSTRUCTION MUST BE INSPECTED BY REPRESENTATIVES OF INDAH WATER KONSORTIUM/JABATAN PERKHIDMATAN PEMBETUNGAN.
10. CONTRACTOR/DEVELOPER IS TO OBTAIN FORM SSA/PDC 6 (NOTICE OF COMMENCEMENT OR RESUMPTION OF SEWERAGE WORKS) AND FORM SSA/PDC 7 (NOTICE OF INSPECTION AND TESTING) FROM ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
12. LEAKAGE TESTS ARE TO BE CARRIED OUT ON LAID SEWER PIPE /CONSTRUCTED MANHOLE AS REQUIRED UNDER THE GUIDELINES.
13. ALL AS-BUILT LEVELS MUST BE CERTIFIED CORRECT BY A QUALIFIED PERSON.
14. ALL WORKS ARE TO BE CARRIED OUT BY INDAH WATER KONSORTIUM LICENSED CONTRACTOR

LEGEND

	PROPOSED SEWER LINES, SEWER MANHOLES AND BUILDING/HOUSE CONNECTIONS
	COMMISSIONED SEWERLINES & SEWER MANHOLES
	PROPOSED SEWER LINE 300mm ø VCP
28.350	PROPOSED LEVEL
2.580	EXISTING LEVEL
GL/EGL	GROUND LEVEL/EXTG. GROUND LEVEL
IL/EIL	INVERT LEVEL/EXTG. INVERT LEVEL
D/ED	DEPTH/EXTG. DEPTH
DIL	DRAIN INVERT LEVEL
CIL	CULVERT INVERT LEVEL
PIL	PIPE INVERT LEVEL (SEWERAGE)
CMA	COMMISSIONED MANHOLE A

MANHOLE SCHEDULE

MANHOLE NO.	DEPTH(m)	TYPE	GRADE
1	1.220	A	H.D
2	1.542	E	H.D
3	1.220	A	H.D
4	1.616	C	H.D
5	1.727	C	H.D
6	1.701	E	H.D
7	1.220	A	H.D
8	1.468	B	H.D
9	1.534	E	H.D
10	1.220	A	H.D
11	1.421	C	H.D
12	1.495	B	H.D
13	1.357	C	H.D
14	1.220	A	H.D
15	1.233	B	H.D
16	1.300	E	H.D
17	1.290	B	H.D

THE DETAILS FOR TYPES OF MANHOLES ARE TO BE REFERRED TO PLANS NUMBERED :
i) KP120/7297/2018/SR-2 OF 7
ii) KP120/7297/2018/SR-3 OF 7
iii) KP120/7297/2018/SR-4 OF 7

KETERANGAN	BILANGAN YUNIT	P.E/YUNIT	JUMLAH P.E.
RUMAH TERES KOS RENDAH	130	5.00	650.00
RIZAB KERAJAAN	926.74M²	3/100M²	30.00
JUMLAH PE			680.00
KEMUDAHAN AWAM / INFRASTRUKTUR		KELUASAN	
RIZAB LOJI RAWATAN KUMBAHAN		0.101 HECTARES (0.25 ACRES)	
KAWASAN LAPANG			
KOLAM TADAHAN			
KELUASAN TAPAK PEMBANGUNAN :		4.067 HECTARES (10.00 ACRES)	

PROJEK:
CADANGAN SKIM PERUMAHAN DI ATAS PT 184265 HINGGA PT 184394 (LOT 338145–LOT 338230, LOT 338236–LOT 338279 DAN LOT 338231–LOT 338235), DI ATAS TANAH KERAJAAN SEBAHAGIAN LOT 13753, MUKIM BELANJA, DAERAH KINTA, PERAK DARUL RIDZUAN.

UNTUK TETUAN
IJ VENTURES SDN. BHD.

SEWER RETICULATION

KETERANGAN:
PELAN KUNCI, PELAN LOKASI & PELAN TAPAK

TANDATANGAN PEMILIK:
Pengarah
PASAK ENTERPRISE SDN. BHD.
(No. Syarikat: 25465-H)

M/S PASAK ENTERPRISE SDN. BHD.
(NO.SYKT:25465–H)
NAMA : CHE IZHAR BIN CHE SAIDIN NO. K/P : 460820-08-5597
ALAMAT : NO. 11, JALAN TUN SAMBANTHAN, 30000 IPOH, PERAK DARUL RIDZUAN.
NO. TEL : 05-2410553/ 05-2410321 NO. FAX : 05-2419553

TANDATANGAN PEMAJU:
IJ VENTURES SDN BHD
(1085159-X)

M/S IJ VENTURES SDN. BHD.
(NO.SYKT:1085159-X)
(NO. PA : AA-SKW-217-01/2019)
NAMA : CHIN KOK HOONG (PENGARAH) NO. K/P : 620605-08-5519
ALAMAT : NO. 1-A, JALAN TEH HAN TAT, OFF JALAN THOMPSON, 30350 IPOH, PERAK DARUL RIDZUAN.
NO. TEL : 05-2541515 NO. FAX : 05-2541515

TANDATANGAN JURUTERA
'I hereby certify that these works have been designed by me in accordance with sound Engineering practice and that I take full responsibility for the design and proper performance of the same'

JURUTERA PROFESIONAL DENGAN PERAKUAN AMALAN
AWAM
Ir. KOH KONG BOON
C 14895
MALAYSIA

KOH PERUNDING
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DILUKIS	NOR/ARINA
DISEMAK	PETER
SKALA	SEPERTI YANG DITUNJUKKAN
TARIKH	17 DEC 2019

KP120/7297/2018/SR 1 OF 7