

LEGEND

NO.	ITEM	DESCRIPTION
1	●	NEW MANHOLE
2	●	EXISTING MANHOLE
3	—	EXISTING SEWERLINE
4	—	NEW Ø225mm VITRIFIED CLAY JACKING PIPE (VCJP) - PIPE JACKING
5	—	NEW Ø300mm VITRIFIED CLAY JACKING PIPE (VCJP) - PIPE JACKING
6	—	NEW Ø375mm VITRIFIED CLAY JACKING PIPE (VCJP) - PIPE JACKING
7	—	NEW Ø450mm REINFORCED CONCRETE JACKING PIPE (RCJP) - PIPE JACKING
8	—	NEW Ø225mm VITRIFIED CLAY PIPE (VCP) - OPENCUT
9	—	STP BOUNDARY
10	—	10m BUFFER ZONE

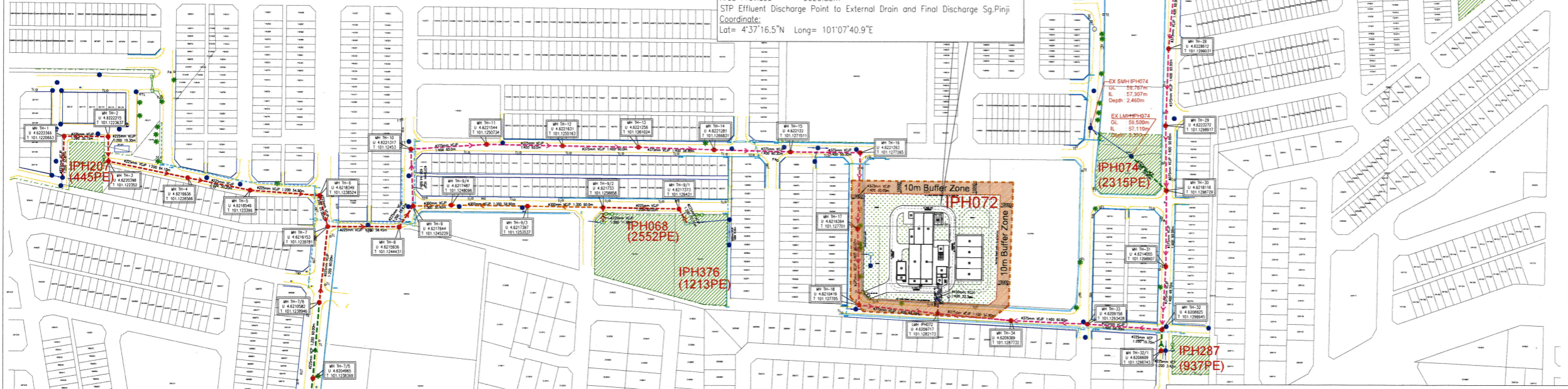
IWK REF. IWK/CP/K/01/25/0102

TOTAL ESTIMATION PE UNTIL YEAR 2050

NO.	DESCRIPTION	TOTAL PE
1	EXISTING IPH072	3,173 PE
2	RATIONALISE & DECOMMISSION 6 PUBLIC STPS AND 1 MPS (IPH06B, IPH376, IPH207, IPH074, IPH461, IPH287, IPH139)	9,194 PE
3	FUTURE DEVELOPMENT (PDC 1 / LCP SUBMISSION)	250 PE
4	ALLOWANCE	383 PE
TOTAL ULTIMATE PE		13,000 PE


MENAIK TARAF LOJI RAWATAN KUMBAHAN SEDIA ADA IPH072 DAN KERJA RASIONALISASI BAGI SEBAHAGIAN KAWASAN TADAHAN PEMBETUNGAN TANAH HITAM, IPOH, PERAK

Existing Design PE = 2,314PE
 Existing Current PE = 3,173PE
 Existing System = OXIDATION POND PUMPING STATION (OPPS)
 New Design PE = 13,000PE
 New System = FULLY ENCLOSED TYPE EXTENDED AERATION SYSTEM SEWAGE TREATMENT PLANT (STP)
 Area Required = 7297.29m²
 Area Provided = 9020.85m²
 STP Effluent Discharge Point to External Drain and Final Discharge Sg.Pinji
 Coordinate:
 Lat = 4°37'16.5"N Long = 101°07'40.9"E



REVISION	AMENDMENTS	REVISED DATE

CLIENT :

 **JABATAN PERKHIDMATAN PEMBETUNGAN**
 KEMENTERIAN PERALIHAN TENAGA DAN TRANSFORMASI AIR
 BLOK B, ARAS 2 DAN 3, SUASANA PJH
 NO 2, JALAN TUN ABDUL RAZAK, PRESINT 2,
 62100 PUTRAJAYA.

LICENSED CONTRACTOR :

I GREEN
 Engineering Sdn Bhd

I GREEN ENGINEERING SDN BHD
 LEVEL B-19-05, MENARA G-VESTOR,
 PAVILION EMBASSY, KOMPLEKS PAVILION
 AMPANG, 300 JALAN AMPANG,
 50450 KUALA LUMPUR,
 WILAYAH PERSEKUTUAN KUALA LUMPUR.
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PROJECT TITLE :

PROJEK MENAIK TARAF LOJI RAWATAN KUMBAHAN SEDIA ADA IPH072 DAN KERJA RASIONALISASI BAGI SEBAHAGIAN KAWASAN TADAHAN PEMBETUNGAN TANAH HITAM, IPOH, PERAK. (REKA & BINA)

UNTUK TETUAN :

JABATAN PERKHIDMATAN PEMBETUNGAN

DRAWING TITLE
 PROPOSED FULLY ENCLOSED TYPE SEWAGE TREATMENT PLANT (STP) WITH EA SYSTEM FOR 13000 PE.


- LATITUDE & LONGITUDE COORDINATE

MANHOLE LATITUDE & LONGITUDE

MH	Latitude	Longitude	MH	Latitude	Longitude
LMH IPH072	4.6209717	101.1282173	TH14	4.6221281	101.1266831
TH1	4.6222366	101.1220663	TH15	4.6221220	101.1271511
TH2	4.6222215	101.1223637	TH16	4.6221283	101.1277265
TH3	4.6220398	101.1223520	TH17	4.6216364	101.1277010
TH4	4.6219636	101.1228566	TH18	4.6210419	101.1277050
TH5	4.6218548	101.1233950	TH19	4.6235422	101.1322721
TH6	4.6218349	101.1238524	TH20	4.6245052	101.1322423
TH7	4.6216153	101.1239781	TH21	4.6245669	101.1321910
TH7/1	4.6196106	101.1246936	TH22	4.6247741	101.1320277
TH7/2	4.6198214	101.1246956	TH23	4.6244322	101.1316204
TH7/3	4.6199518	101.1241233	TH24	4.6242460	101.1312177
TH7/4	4.6199975	101.1238031	TH25	4.6239119	101.1308221
TH7/5	4.6204965	101.1238369	TH26	4.6236455	101.1305046
TH7/6	4.6210582	101.1238948	TH27	4.6234009	101.1299621
TH8	4.6215936	101.1244431	TH28	4.6228612	101.1299031
TH9	4.6217644	101.1245229	TH29	4.6223272	101.1298917
TH9/1	4.6217373	101.1264130	TH30	4.6218118	101.1298729
TH9/2	4.6217330	101.1258558	TH31	4.6214055	101.1298907
TH9/3	4.6217397	101.1253537	TH32	4.6208825	101.1298945
TH9/4	4.6217467	101.1248056	TH32/1	4.6206009	101.1298743
TH10	4.6221317	101.1245300	TH33	4.6209156	101.1293428
TH11	4.6221544	101.1250734	TH34	4.6209389	101.1287732
TH12	4.6221631	101.1255163			
TH13	4.6221296	101.1261024			

CIVIL & STRUCTURE ENGINEER :

 **LT CONSULTANCY**
 NO. 40, TAMAN DAVID CHIEN,
 11400 PULAU PINANG.
 TEL : (04) 229 9410 FAX : (04) 229 9410
 EMAIL : ltsbpg1@gmail.com


 Ir. TAN SWEE JOO
 C16462
 MALAYSIA

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

DRAWN BY : DHM CHECKED BY : IR. TAN
 SCALE : 1 : 3560 (A1) DATE : SEPT 2025
 DRAWING NO. : LTC/STP/279/PP/TH/13000PE/01