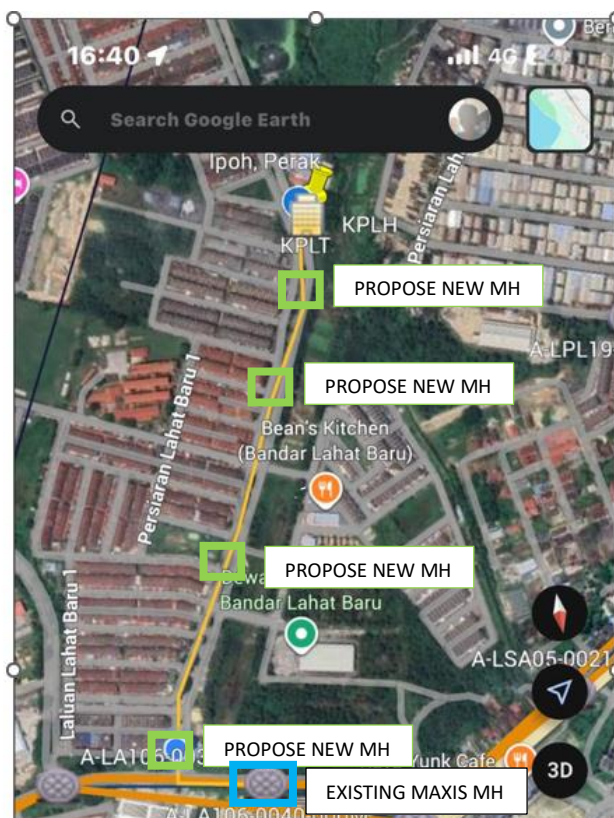


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9, MENARA MAXIS, KUALA LUMPUR CITY CENTRE, 50088 KUALALUMPUR
Date	:	6/8/2025



Project & Site Name	:	U MOBILE MAXIS – KPLH
Site ID	:	KPLH
Address	:	LEBUH LAHAT BARU, BANDAR LAHAT BARU, 31500 MENGLEMBU.
District	:	MENGLEMBU
Postcode & State	:	31500, PERAK
GPS Coordinate	:	4.533729,101.040091
FTTx LRD	:	NA
Home pass / Premise pass	:	NA

UG Build (m)	1000	UG Cable (m)	1000
Aerial Build (m)	N/A	Aerial Cable (m)	N/A
Total Civil Build (m)	1000	Coil at MH (m)	25
		Total Cable (m)	1025



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1. POC3 Summary & Details

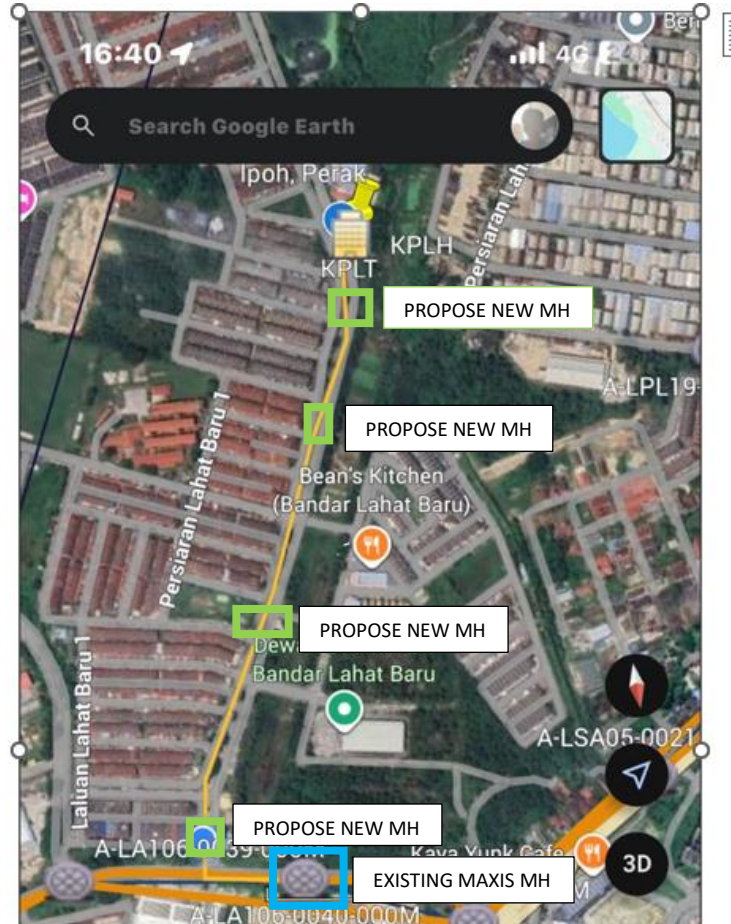
1.1. POC3 Summary



Site LRD	:	RYMA
Structure Type	:	TOWER
GPS Coordinate	:	4.535566, 101.036081
Site / Building Name	:	TOWER
Address	:	LEBUH LAHAT BARU, BANDAR LAHAT BARU, 31500 MENGLEMBU, PERAK
POC3 Model	:	

2. OSP / ISP Summary & Details (OSP 2)

2.1. Propose Route Details & Site Map



LRD Point A	TOWER KPLH	LRD Point B	EXT MH MAXIS
Address	LEBUH LAHAT BARU, BANDAR LAHAT BARU, 31500 MENGLEMBU, PERAK	Address	Jalan Pasir Puteh, 30200 Ipoh, Perak
GPS Coordinates	4.533729,101.040091	GPS Coordinates	4.540974,101.041864
New Civil Build (M)	1000	Existing Civil Build (M)	-
New Build Cable (M)	1025	Existing Cable (M)	-

Local Council & Authority approval Requirement : Majlis Bandaraya Ipoh

2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	980
2	Horizontal Directional Drilling with 2-way duct	M	N/A
3	Open trench on grass verge (GV) with 1-way duct	M	N/A
4	Open trench on grass verge (GV) with 2-way duct	M	N/A
5	Open trench on carriage way (CW) with 1-way duct	M	N/A
6	Open trench on carriage way (CW) with 2-way duct	M	N/A
7	Micro trenching 1-way (2-way x 40 mm HDPE sub-duct)	M	20
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	N/A

Overall Propose Manhole / Handhole		Unit	Quantity
1	Manhole JB30	Ea	4
2	Manhole JB30 Modified	Ea	N/A
3	Manhole JRC7	Ea	N/A
4	PIT/Cheezy PIT	Ea	N/A

Overall Propose Pole / Overhead		Unit	Quantity
1	7.5 m Pole – Concrete/Iron	Ea	N/A
2	9 m Pole – Concrete/Iron	Ea	N/A
3	G.I Riser	Ea	N/A

Overall Cable Infrastructure Design Distance		Unit	Quantity
1	1 Core Optical Fiber Cable	M	N/A
2	48 Core Optical Fiber Cable UG/IB/ID	M	N/A
3	96 Core Optical Fiber Cable UG/IB	M	N/A
4	144 Core Optical Fiber Cable UG/IB/ID	M	1025

Overall Optic Splice Design		Unit	Quantity
1	Total Joint Closure	Ea	1



2.3. Civil Work's Detail (Manhole & Pole)

Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	A-LA106-0040-000M	4.540974	101.041864	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	MH01 JB30	4.533821	101.040171	
2	MH02 JB30	4.535634	101.040663	
3	MH03 JB30	4.537836	101.041715	
4	MH04 JB30	4.540211	101.042850	

2.4. OSP/ISP Photo Illustration.



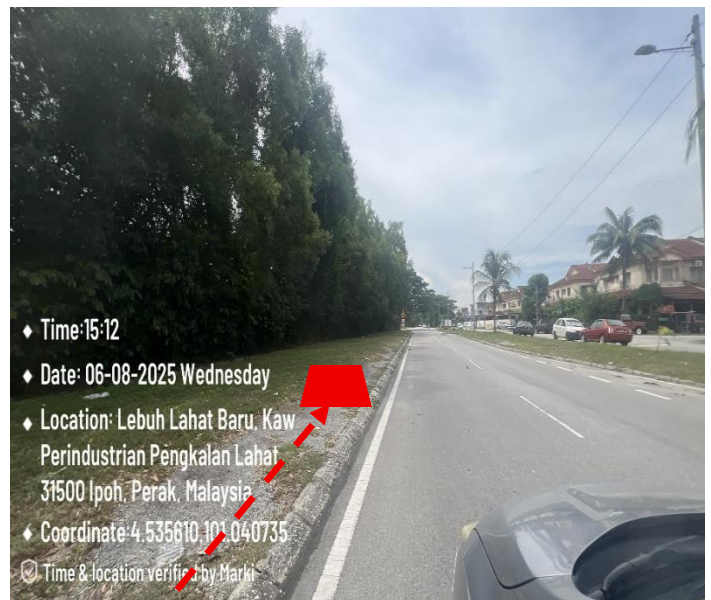
PICTURE 1 : UM T5 CABINET



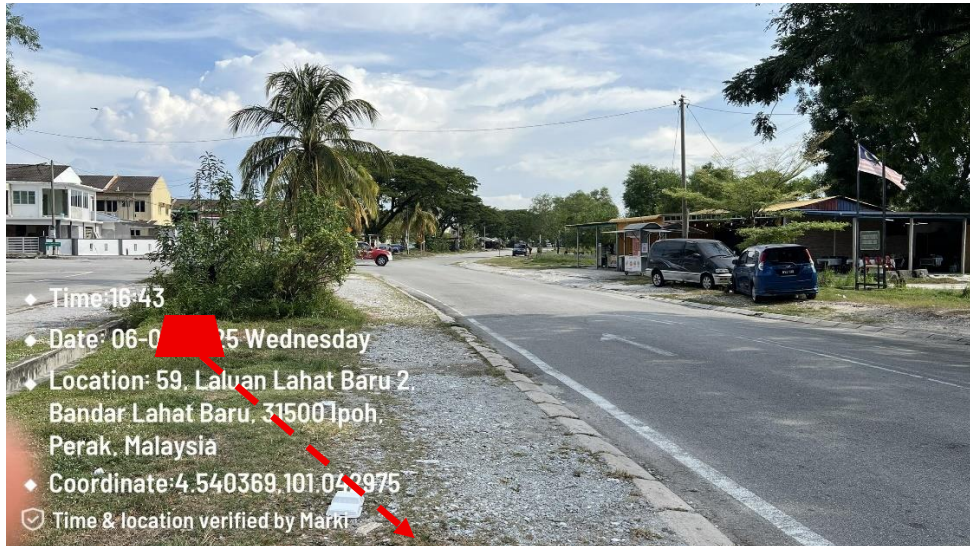
Picture 2: PROPOSE NEW MH, MICRO TRENCHING AND GI PIPE.



Picture 3: PROPOSE MH AND 2 WAY HDD



Picture 4: PROPOSE MH AND 2 WAY HDD



PICTURE 5 : PROPOSE MH AND 2 WAY HDD

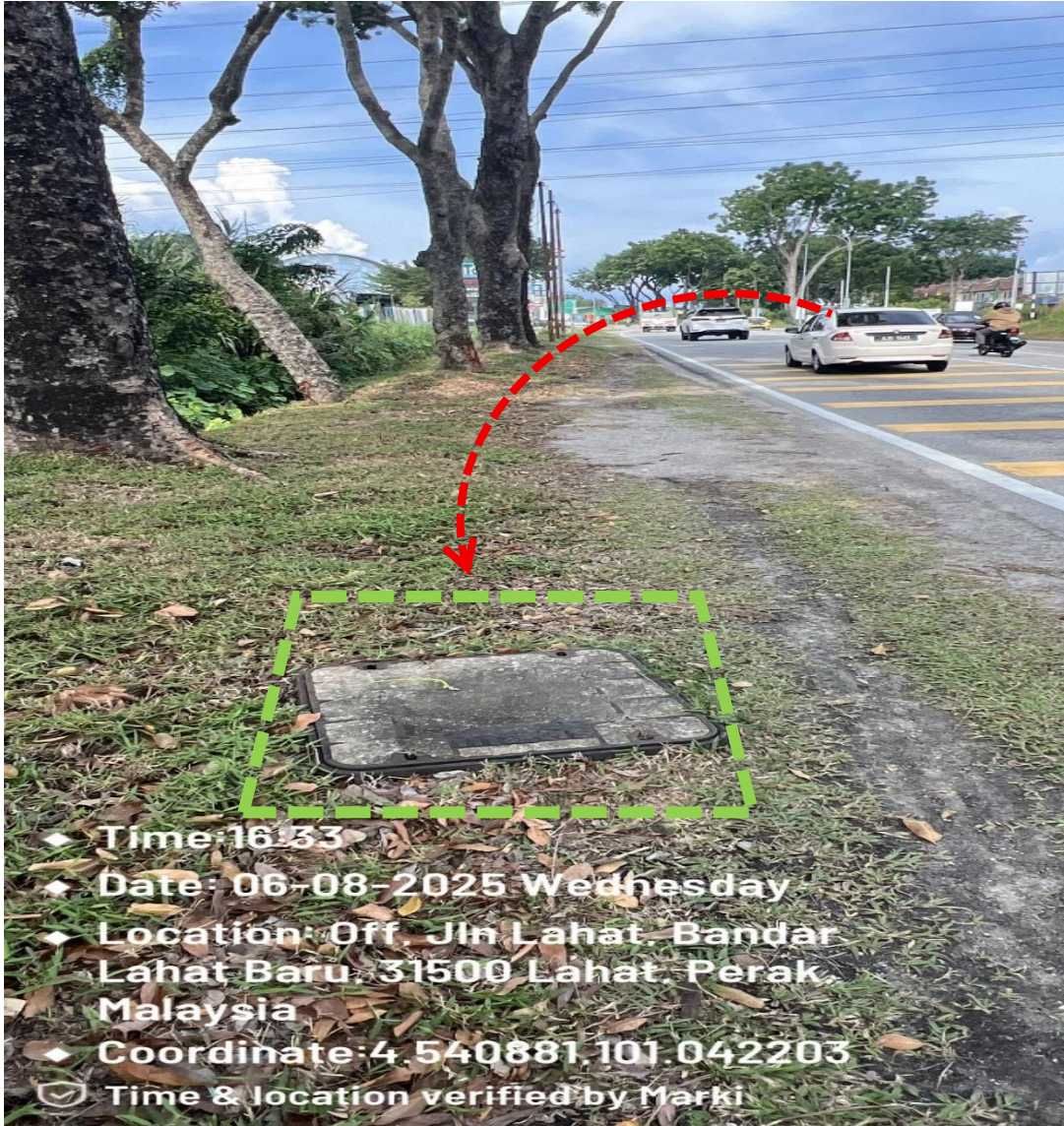


Figure 1

Picture 7 : PROPOSE 2 WAY HDD TO EXISTING MAXIS MH



1. Link Attenuation Calculation Reference

S = Total splice count in a single link

L = Total length of cable in a single link

C = Total connector count in a single link.

A) FIBER LOSS FOR 1310 nm WAVELENGTH

$$\text{TOTAL LOSS} = 0.15 (S) + 0.35 (L) + (C)$$

B) FIBER LOSS FOR 1550 nm WAVELENGTH

$$\text{TOTAL LOSS} = 0.10 (S) + 0.25 (L) + 0.5 (C)$$

MAXIMUM END TO END VALUE FOR 1310 nm = **** dBm

MAXIMUM END TO END VALUE FOR 1550 nm = **** dBm

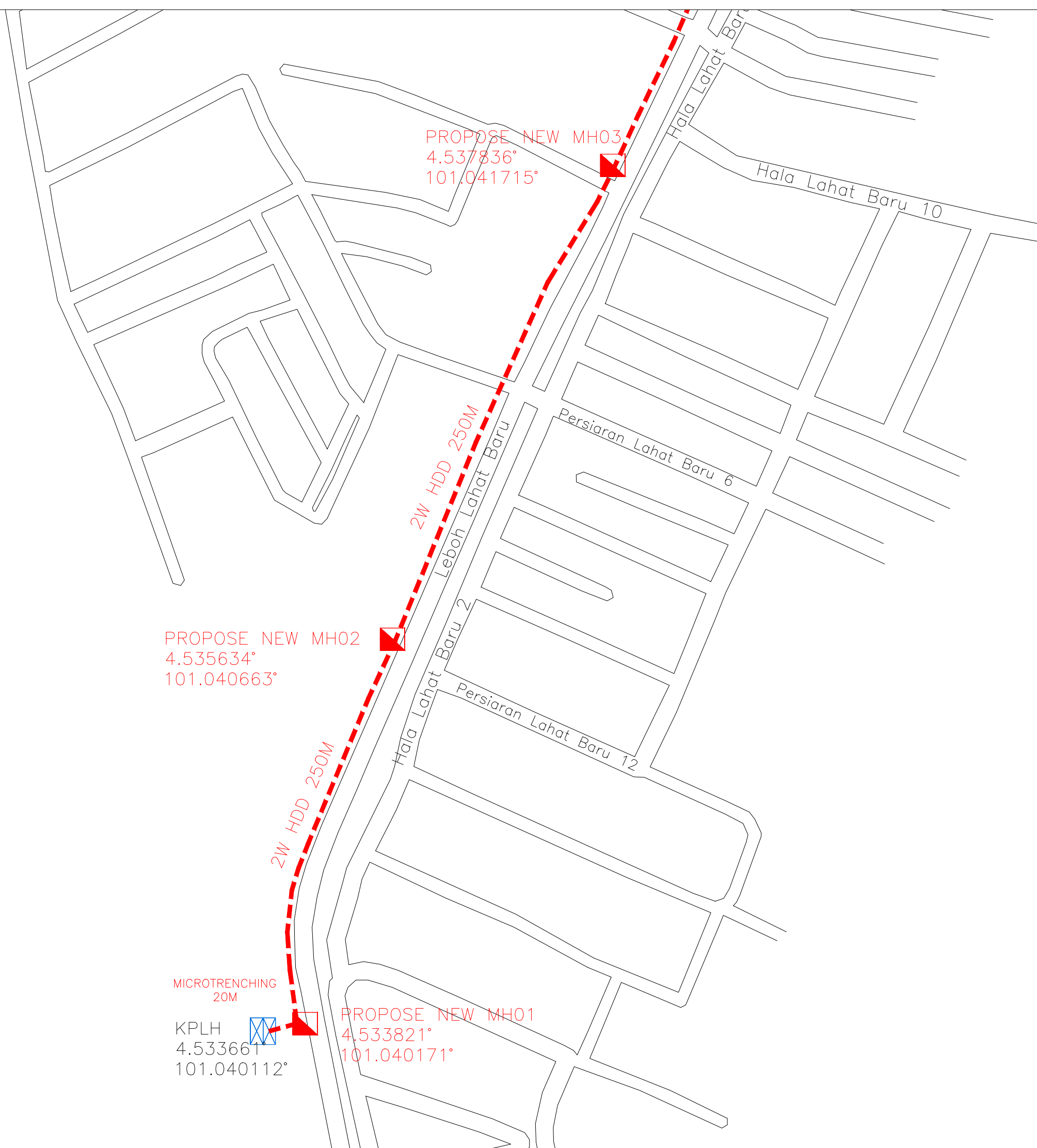


2. Appendices

2.1. OSP Civil Design

2.2. OSP SLD Design

2.3. Costing BOQ



SITE MAPS DESIGN

SITE NAME:	KPLH
PROJECT TITLE:	UMG5-KPLH
DWG ID:	UMG5/KPLH/01
DATE:	12/09/2025
SHEET:	1/2

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	4
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	1000
TOTAL PROPOSED OH CABLE (m):	N/A

LEGENDS

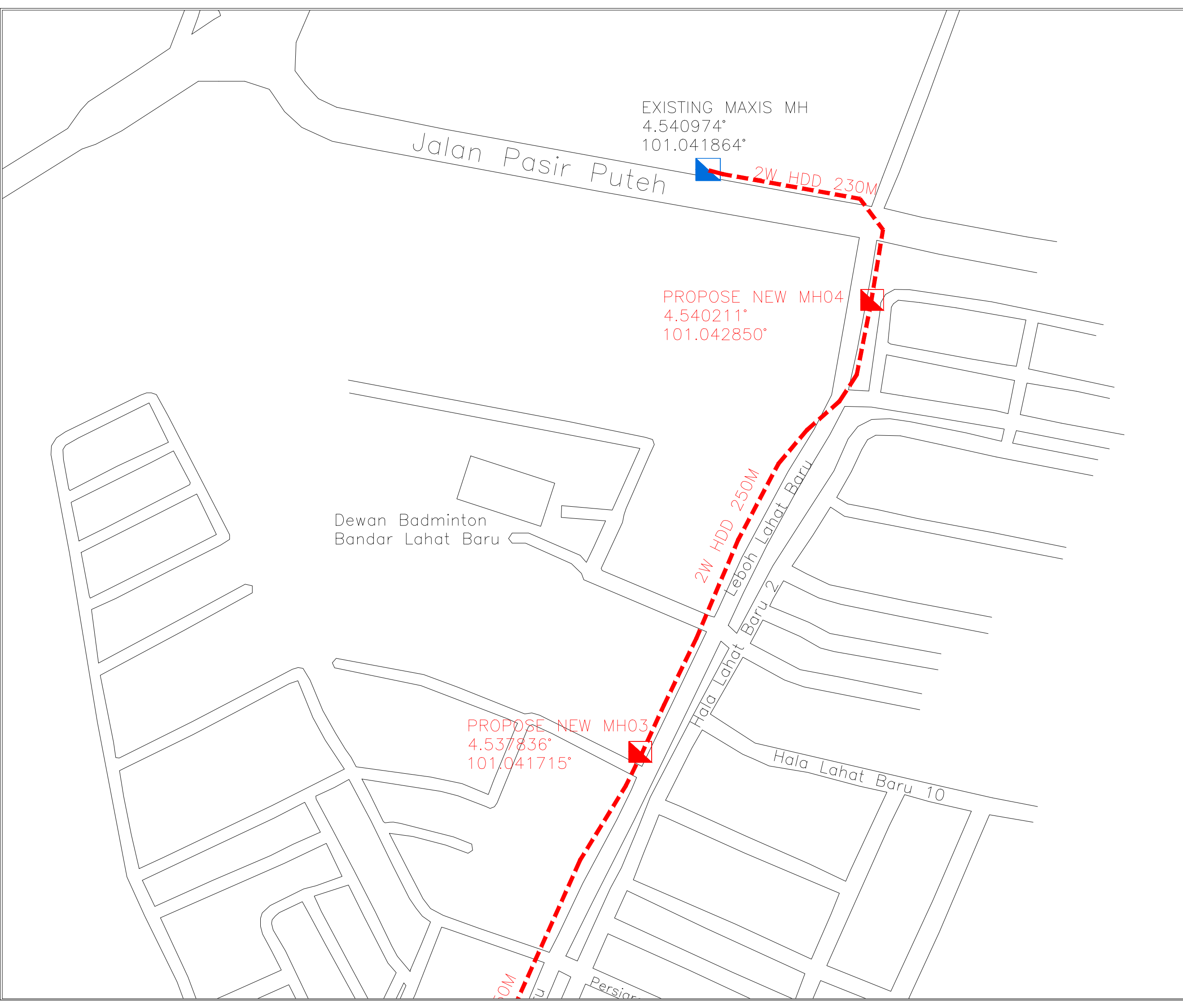
EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	

DESIGN BY: BINASAT SDN BHD

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MAXIS BROADBAND SDN BHD

CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	



SITE MAPS DESIGN	
SITE NAME:	KPLH
PROJECT TITLE:	UMG5-KPLH
DWG ID:	UMG5/KPLH/01
DATE:	12/09/2025
SHEET:	2/2
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	4
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	1000
TOTAL PROPOSED OH CABLE (m):	N/A
LEGENDS	
EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	
DESIGN BY: BINASAT SDN BHD	
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MAXIS BROADBAND SDN BHD	
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APPROVED/REJECTED BY :	




















SITE MAPS DESIGN

SITE NAME:	KPLH
PROJECT TITLE:	UMG5-KPLH
DWG ID:	UMG5/KPLH/01
DATE:	12/09/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	4
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	1000
TOTAL PROPOSED OH CABLE (m):	N/A

LEGENDS

EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	

DESIGN BY: BINASAT SDN BHD

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MAXIS BROADBAND SDN BHD

CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	

