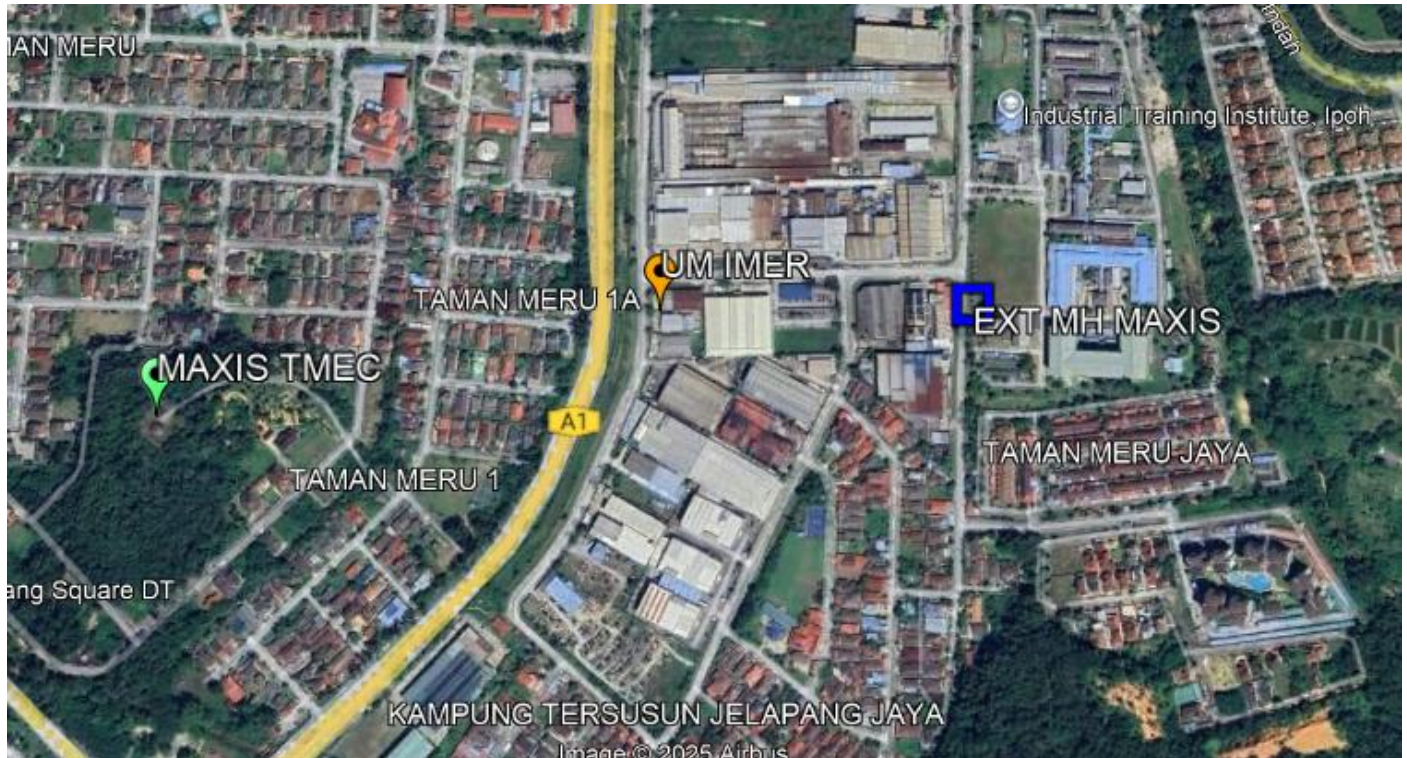


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9 , MENARA MAXIS , KUALA LUMPUR CITY CENTRE , 50088 KUALA LUMPUR
Date	:	31/7/2025



Project & Site Name	:	U MOBILE IMER
Site LRD	:	IMER
Address	:	HALA JATI 9, INDUSTRI MERU
District	:	MERU
Postcode & State	:	32040, PERAK
GPS Coordinate	:	4.647050, 101.069945
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	400
Aerial Build (m)	N/A
Total Civil Build (m)	400

UG Cable (m)	430
Aerial Cable (m)	N/A
Coil at FDP (m)	15
Total Cable (m)	445



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 - 4.2. OSP SLD Design
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1. POC3 Summary & Details

1.1. POC3 Summary



Site LRD	:	TMEC
Structure Type	:	T5
GPS Coordinate	:	05.454921, 100.306549
Site / Building Name	:	
Address	:	Persiaran Bukit Meru 1, Taman Meru, 30020 Ipoh, Perak
POC3 Model	:	

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

2.1. Propose Route Details & Site Map



LRD Point A	IMER	LRD Point B	TMEC
Address	HALA JATI 9 , INDUSTRI MERU	Address	Lot No 183486, Mukim Hulu Kinta, Daerah Kinta, Perak Darul Ridzuan
GPS Coordinates	4.647050, 101.069945	GPS Coordinates	05.454921, 100.306549
New Civil Build (M)	400	Existing Civil Build (M)	-
New Build Cable (M)	445	Existing Cable (M)	-

Local Council & Authority approval Requirement

: Majlis Bandaraya Ipoh : 380m

2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	NA
2	Horizontal Directional Drilling with 2-way duct	M	350
3	Open trench on grass verge (GV) with 1-way duct	M	NA
4	Open trench on grass verge (GV) with 2-way duct	M	NA
5	Open trench on carriage way (CW) with 1-way duct	M	50
6	Open trench on carriage way (CW) with 2-way duct	M	NA
7	Micro trenching 1-way (3-way x 40 mm HDPE sub-duct)	M	NA
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	NA

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

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

Overall Cable Infrastructure Design Distance		Unit	Quantity
1	1 Core Optical Fiber Cable	M	NA
2	48 Core Optical Fiber Cable UG/IB/ID	M	NA
3	96 Core Optical Fiber Cable UG/IB	M	NA
4	144 Core Optical Fiber Cable UG/IB/ID	M	445

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

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

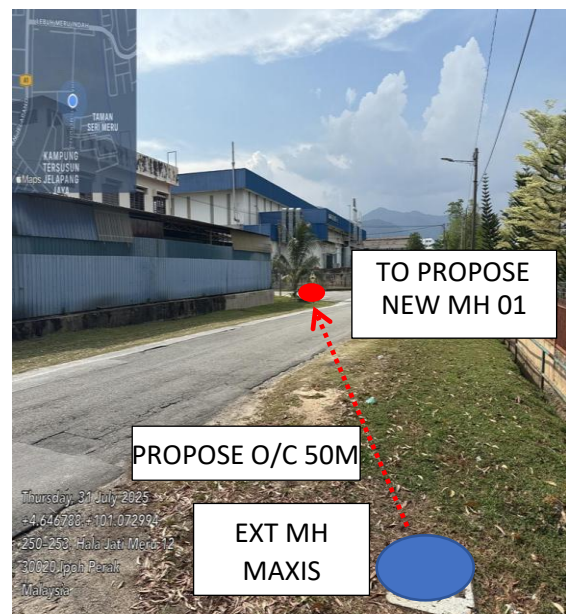
Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	A-LJH12-0003-000M	4.647108	101.073022	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	MH01 JB30	4.647196	101.072840	
2	MH02 JB30	4.647187	101.070865	
3	MH03 HB30	4.647147	101.069894	

2.4. OSP/ISP Photo Illustration.



PICTURE 1 : JALAN HALA JATI MERU 12

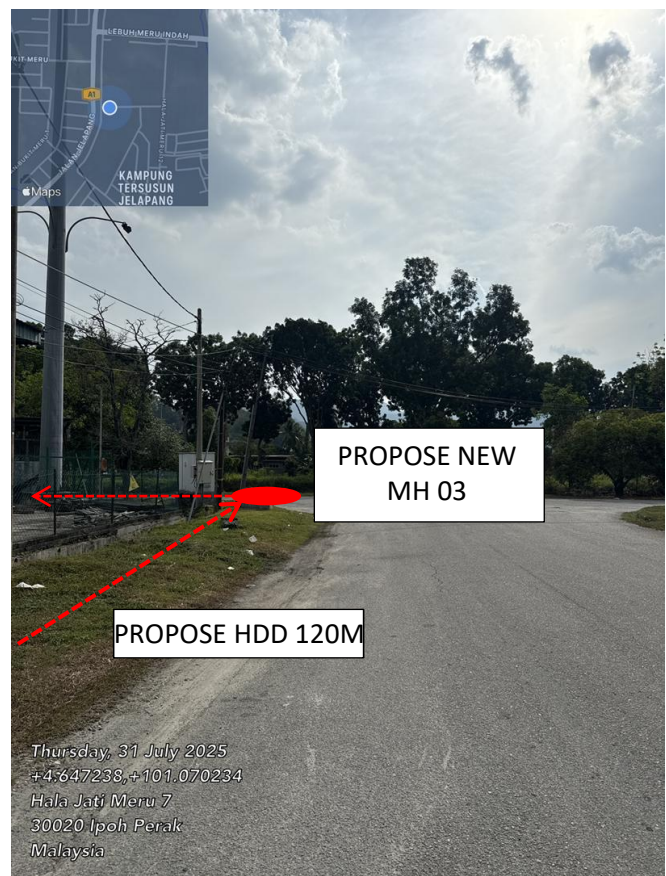


Picture 2 - JALAN HALA JATI MERU 12



Picture 3 - JALAN HALA JATI 7

Picture 4 - JALAN HALA JATI 7

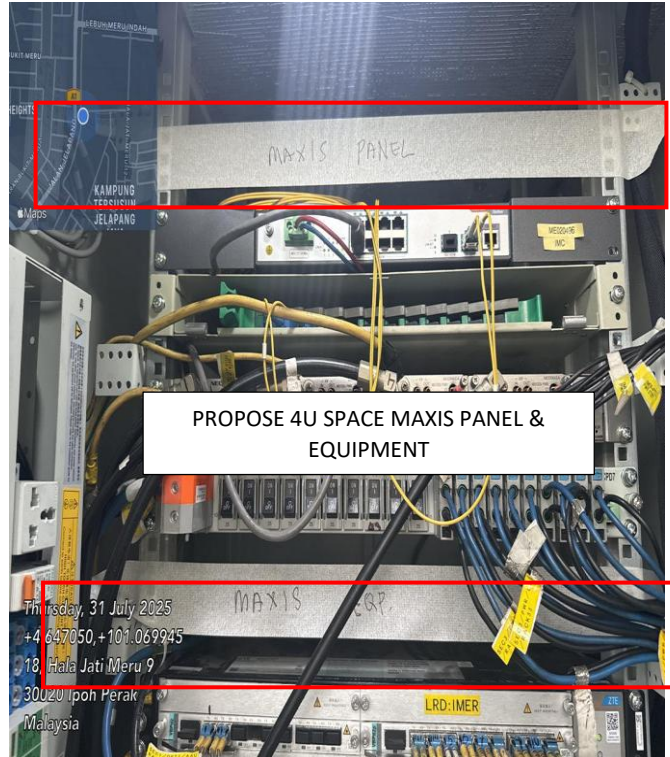


PICTURE 5 - JALAN HALA JATI 7

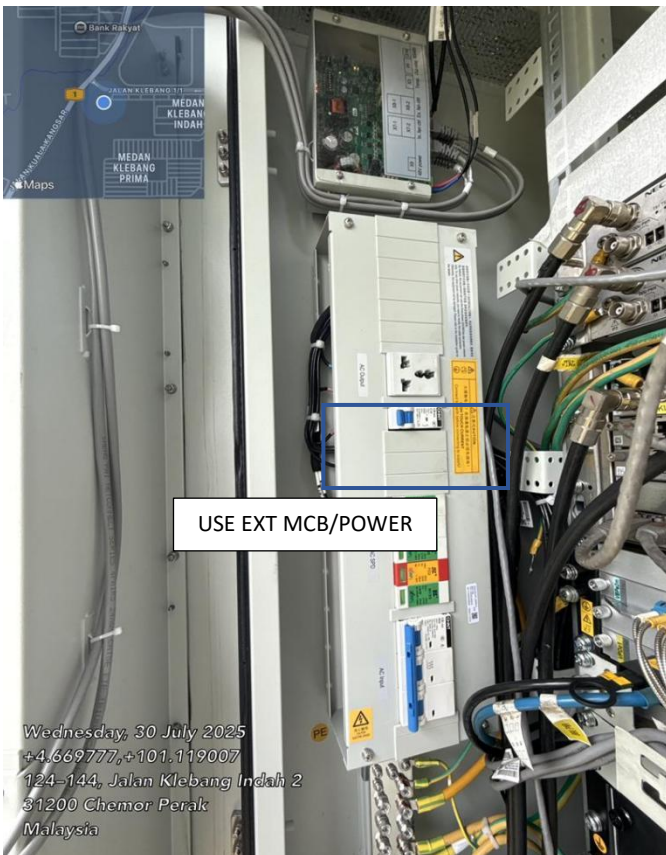
PICTURE 6 - JALAN HALA JATI 7



PICTURE 7 - JLN HALA JATI 9



PICTURE 10 - INSIDE AREA IMER



PICTURE 11 - INSIDE AREA IMER



PICTURE 12 - INSIDE AREA IMER



3. 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

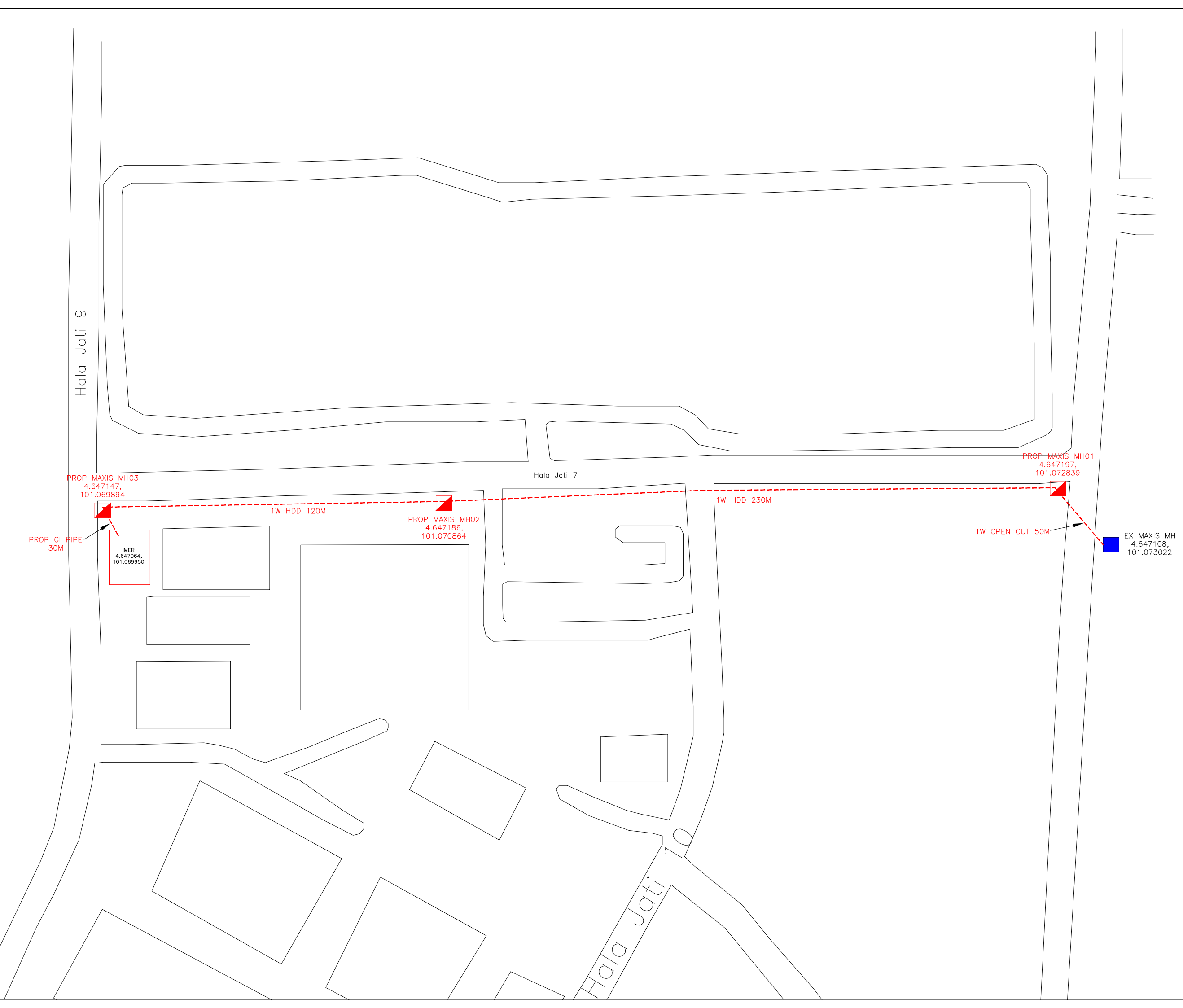


4. Appendices

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN	
SITE NAME:	IMER
PROJECT TITLE:	UM5G - IMER
DWG ID:	UM5G/IMER/01
DATE:	05/08/2025
SHEET:	1/1
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	3
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	400
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	
MAXIS BROADBAND SDN BHD	
CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	














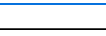
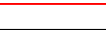
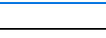



SITE MAPS DESIGN

SITE NAME:	IMER
PROJECT TITLE:	UM5G - IMER
DWG ID:	UM5G/IMER/01
DATE:	05/08/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	3
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	400
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



MAXIS BROADBAND SDN BHD

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

