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	:	08 AUG 2025

Project & Site Name	:	U MOBILE TGBU
Site LRD	:	TGBU
Address	:	KAMPUNG TANJONG BULOH,
District	:	HUTAN MELINTANG
Postcode & State	:	36400 PERAK
GPS Coordinate	:	3.82042,100.98114
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	325	UG Cable (m)	325
Aerial Build (m)	N/A	Aerial Cable (m)	N/A
Total Civil Build (m)	325	Coil at MH	15
		Total Cable (m)	340

Table of Contents

1. POC3 Summary & Details

1.1. POC3 Summary

Site LRD	:	KELO
Structure Type	:	Cabin/T5
GPS Coordinate	:	3.82176,100.98088
Site / Building Name	:	N/A
Address	:	Kg. Sungai Tungku, 36000 Teluk Intan, Perak
POC3 Model	:	**005A800-X2**

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

2.1. Propose Route Details & Site Map

LRD Point A	TGBU	**LRD Point B**	KELO
Address	Kampung Tanjong Buloh, 36400 Hutan Melintang, Perak.	**Address**	Kampung Tanjong Buloh, 36400 Hutan Melintang, Perak.
GPS Coordinates	3.82042,100.98114	**GPS Coordinates**	3.82176,100.98088
New Civil Build (M)	325	**Existing Civil Build (M)**	50
New Build Cable (M)	340	**Existing Cable (M)**	N/A

Local Council & Authority approval Requirement	:	1. JKR HILIR PERAK

2.2. **OSP & ISP BOQ**

Overall Proposed OSP Civil Infrastructure Design Distance		**Unit**	**Quantity**
1	Horizontal Directional Drilling with 1-way duct	M	**320**
2	Horizontal Directional Drilling with 2-way duct	M	***
3	Open trench on grass verge (GV) with 1-way duct	M	**5**
4	Open trench on grass verge (GV) with 2-way duct	M	***
5	Open trench on carriage way (CW) with 1-way duct	M	***
6	Open trench on carriage way (CW) with 2-way duct	M	***
7	Micro trenching 1-way (3-way x 40 mm HDPE sub-duct)	M	***
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	***

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

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

Overall Cable Infrastructure Design Distance		**Unit**	**Quantity**
1	1 Core Optical Fiber Cable	M	***
2	48 Core Optical Fiber Cable UG/IB/ID	M	***
3	96 Core Optical Fiber Cable UG/IB	M	***
4	144 Core Optical Fiber Cable UG/IB/ID	M	**340**

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

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

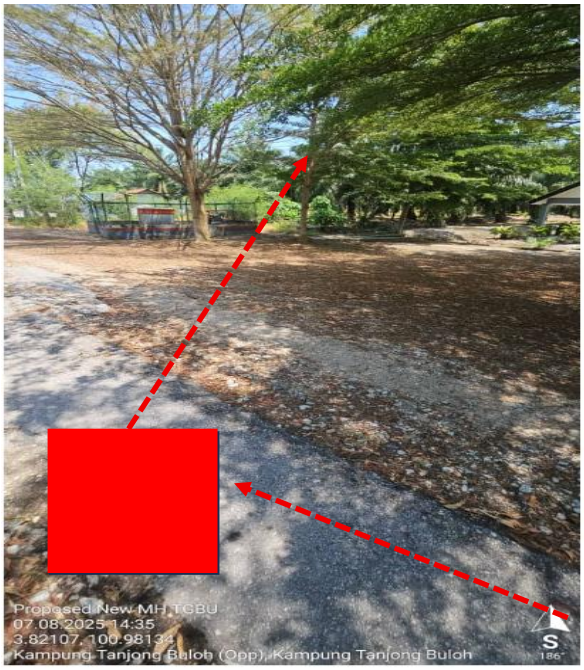
Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	**Latitude**	**Longitude**	**Meter**
1	**A-LJLN5-0094-000M**	**3.82176**	**100.98091**	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	**Manhole & Pole ID**	**Latitude**	**Longitude**	**Meter**
1	MANHOLE 1	3.821075	**100.981344**	
2	MANHOLE 2	3.820339	**100.981128**	***

2.4. **OSP/ISP Photo Illustration.**

PICTURE 1 : EXST MAXIS A-LJLN5-0094-000M

Picture 2 – PROPOSED HDD 1 WAY



Picture 3 – PROPOSED HDD 1 WAY TOWARDS TGBU

Picture 4 – PROPOSED O/C 1 WAY TOWARDS TGBU

Picture 5 – U Mobile TGBU

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

TOTAL LOSS = 0.15 (S) + 0.35 (L) + (C)

B) FIBER LOSS FOR 1550 nm WAVELENGTH

TOTAL LOSS = 0.10 (S) + 0.25 (L) + 0.5 (C)

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

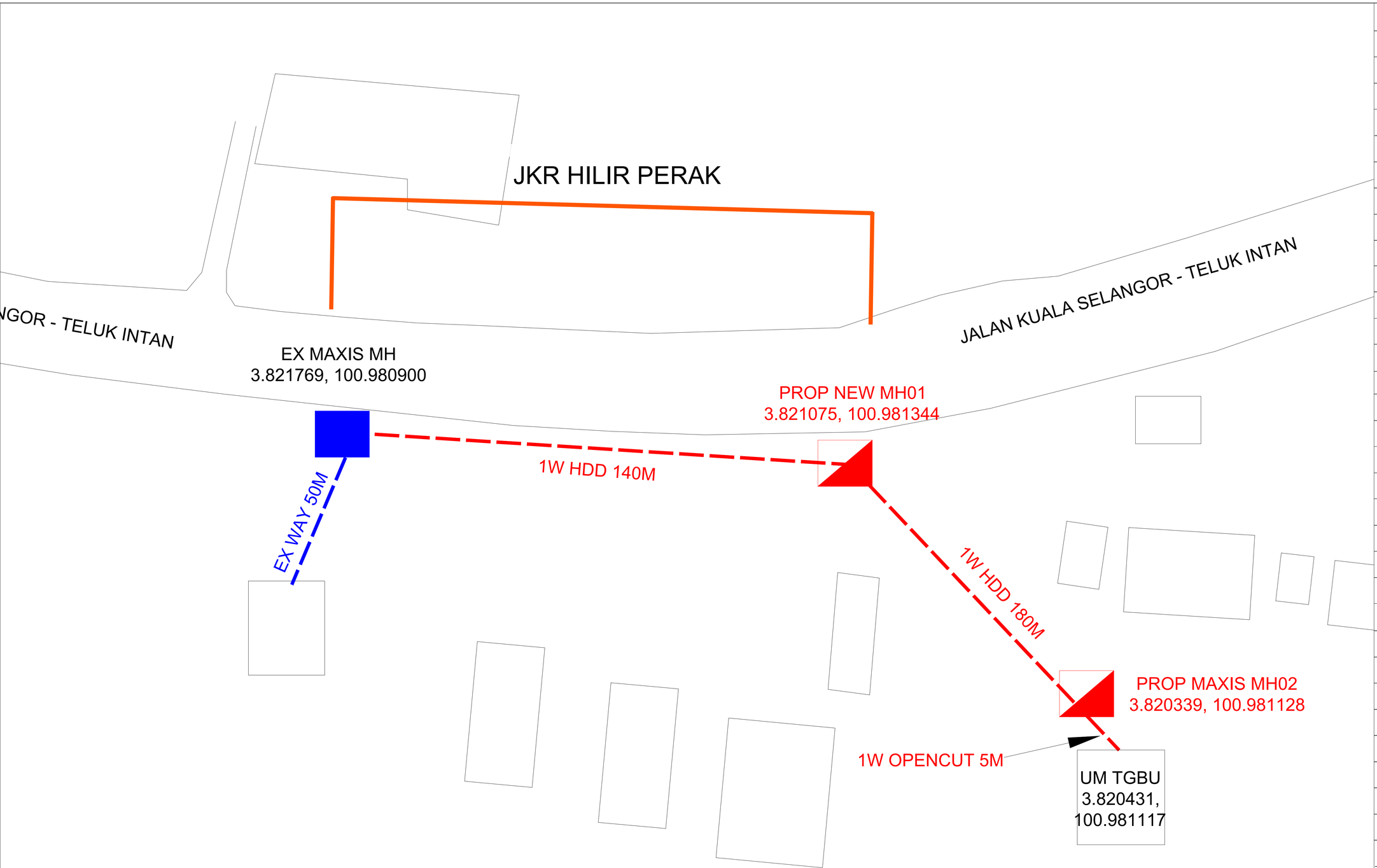
MAXIMUM END TO END VALUE FOR 1550 nm = ** dBm**

4. Appendices

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN

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

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	1
TOTAL PROPOSED POLE:	12
TOTAL PROPOSED UG CABLE (m):	5
TOTAL PROPOSED OH CABLE (m):	395

LEGENDS

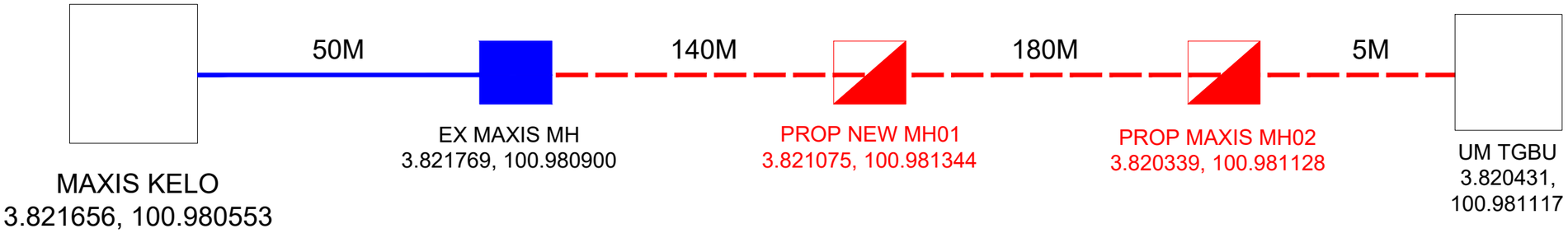
EXISTING FDC	
PROPOSED FDP	FDP
EXISTING FDP	FDP
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	P
EXISTING POLE	P
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING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

DESIGN BY: BINASAT SDN BHD

maxis

MAXIS BROADBAND SDN BHD

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



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SUMMARY NOTES

TOTAL CUSTOMER :	**1**
TOTAL FDC :	**N/A**
TOTAL FDP:	**N/A**
TOTAL PROPOSED JOINT:	**1**
TOTAL PROPOSED MH:	2
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	340
TOTAL PROPOSED OH CABLE (m):	N/A

LEGENDS

EXISTING FDC	
PROPOSED FDP	FDP
EXISTING FDP	FDP
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	P
EXISTING POLE	P
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
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