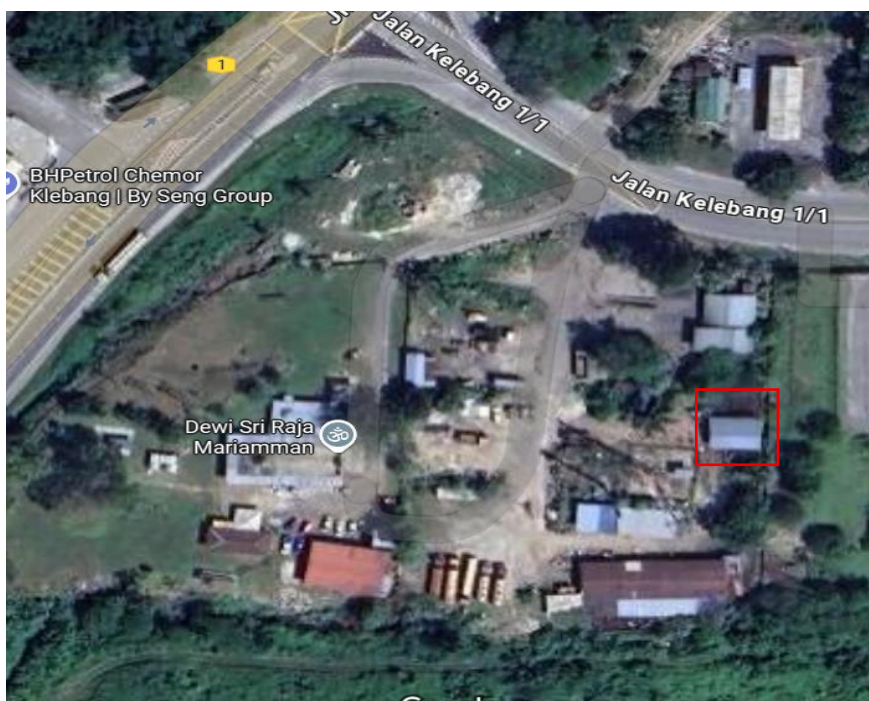


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	Level 9, Menara Maxis, Kuala Lumpur City Center, 50088, Kuala Lumpur
Date	:	30/07/2025



Project & Site Name	:	UMOBILE TSEK
Site LRD	:	TSEK
Address	:	Jln. Kuala Kangsar, 30010 Ipoh, Perak
District	:	IPOH
Postcode & State	:	30010, PERAK
GPS Coordinate	:	4.642874 101.101058
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	60
Aerial Build (m)	N/A
Total Civil Build (m)	60

UG Cable (m)	480
Aerial CABLE (m)	0
Coil at MH (m)	10
Total Cable (m)	490M



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1. POC3 Summary & Details

1.1. POC3 Summary



Site LRD	:	JTSK
Structure Type	:	T5
GPS Coordinate	:	4°38'41.78" N 101°5'20.886" E
Site / Building Name	:	N/A
Address	:	Jln. Kuala Kangsar, 30010 Ipoh, Perak
POC3 Model	:	N/A

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

2.1. Propose Route Details & Site Map



LRD Point A	TSEK	LRD Point B	EXISTING MAXIS PEDESTAL
Address	Lot 51, Jalan Cetak, Tasek Industrial Estate, 31400 Ipoh, Perak	Address	Lebuh Portland, Kawasan Perindustrian Tasek, 31400 Ipoh, Perak
GPS Coordinates	4.642874 101.101058	GPS Coordinates	4.640108 101.101654
New Civil Build (M)	60M	Existing Civil Build (M)	440M
New Build Cable (M)	490M	Existing Cable (M)	N/A

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	N/A
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	60
6	Open trench on carriage way (CW) with 2-way duct	M	N/A
7	Micro trenching 1-way (3-way x 40 mm HDPE sub-duct)	M	N/A
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	N/A
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	490

Overall Optic Splice Design		Unit	Quantity
1	Total Joint Closure	Ea	N/A

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

Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	A-LJLPL-0001-000M	4°38'33.151" N	101°6'4.784" E	
2	A-LJLPL-0001-001M	4°38'28.482" N	101°6'9.893" E	220
3	A-LLBHP-0001-000M	4°38'24.716" N	101°6'6.062" E	200

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	N/A	N/A	N/A	
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A

2.4. OSP/ISP Photo Illustration.



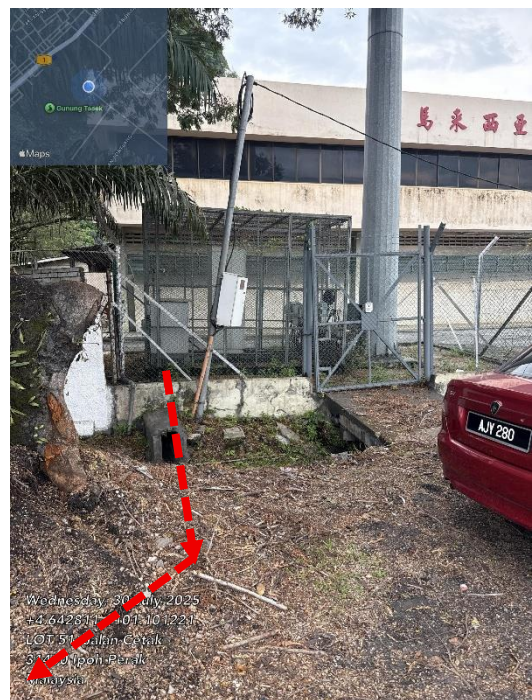
PICTURE 1 : CABINET UMOBILE



Picture 2 – PROPOSE MAXIS PANEL AND CPE



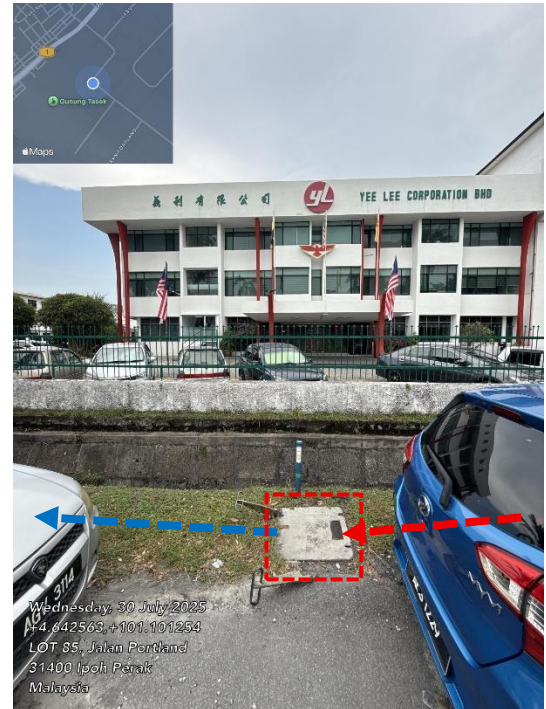
Picture 3 – DC POWER SOURCE



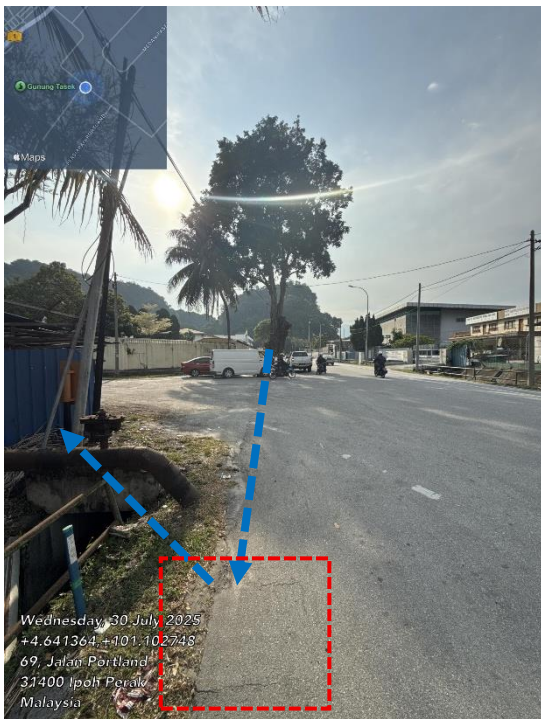
Picture 4 – PROPOSE NEW GI TRUNKING 96M



Picture 5 – PROPOSE OPEN TRENCH ON GRASS VERGE TO EXISTING MAXIS MH



Picture 6 – PROPOSE OPEN TRENCH ON GRASS VERGE TO EXISTING MAXIS MH



Picture 7 – PROPOSE NEW CABLE IN EXISTING WAY



Picture 8 – PROPOSE NEW CABLE IN EXISTING WAY. TAPPING TO MAXIS FDP



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**



3. Appendices

3.1. OSP Civil Design

3.2. OSP SLD Design

3.3. Costing BOQ

SITE MAPS DESIGN

SITE NAME:	TSEK
PROJECT TITLE:	UMOBILE 5G TSEK
DWG ID:	TSEK/01
DATE:	31/8/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER:	1
TOTAL FDC:	N/A
TOTAL FDP:	1
TOTAL PRPOSED JOINT:	N/A
TOTAL PRPOSED MH:	N/A
TOTAL PRPOSED POLE:	N/A
TOTAL PRPOSED UG CABLE (m):	490
TOTAL PRPOSED OH CABLE (m):	N/A

LEGENDS

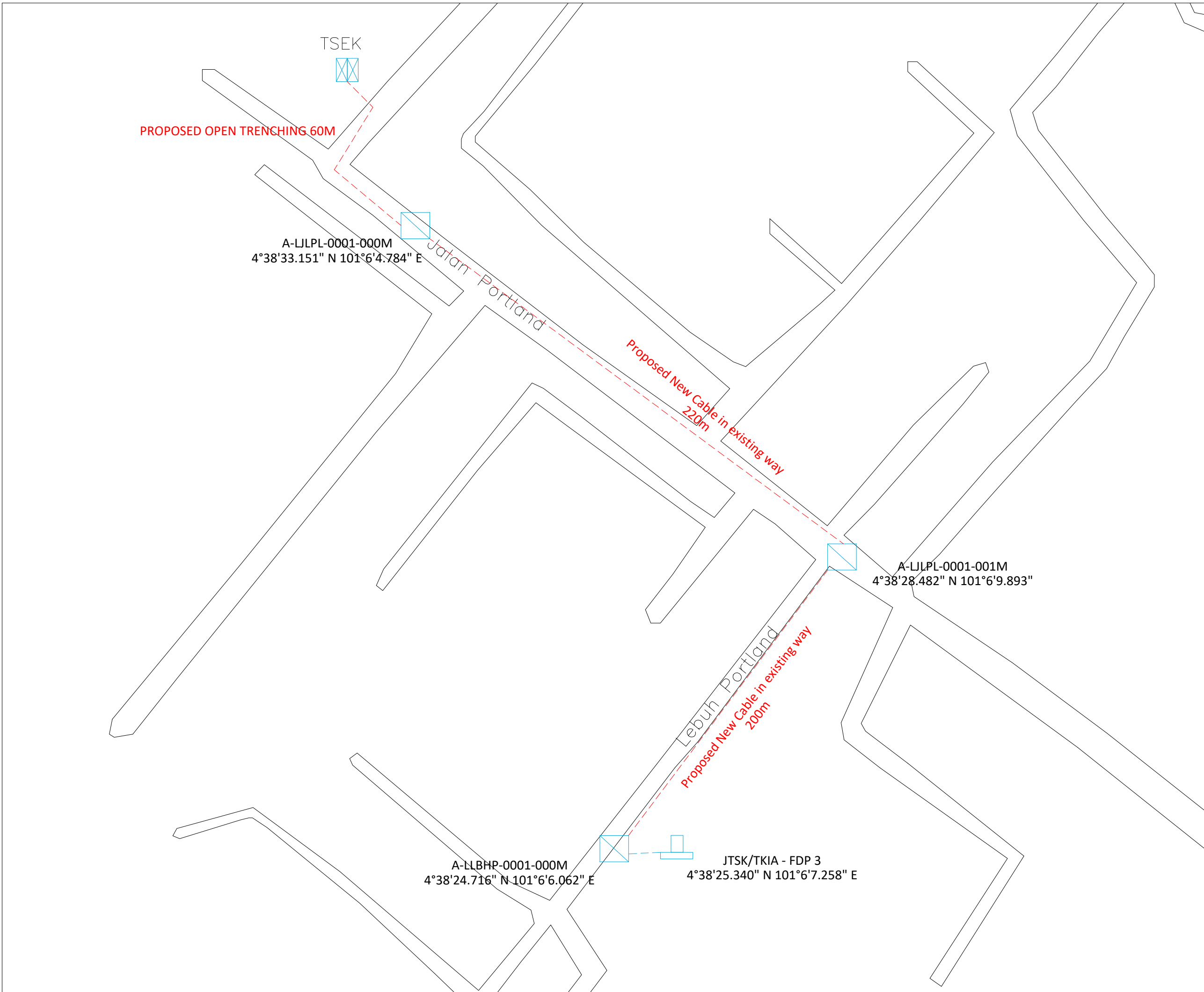
EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING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

DESIGN BY: BINASAT SDN BHD

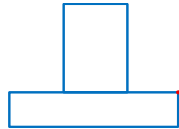


MAXIS BROADBAND SDN BHD

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



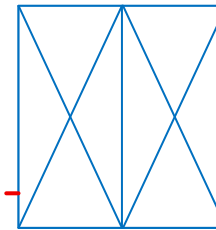
EXISTING MAXIS PEDESTAL
 JTSK/TKIA - FDP 3
 4°38'25.340" N 101°6'7.258" E



490m

EXISTING UM T5 (TSEK)
 PROPOSE MAXIS PANEL

4.642874 101.101058



SITE MAPS DESIGN

SITE NAME:	TSEK
PROJECT TITLE:	UMOBILE 5G TSEK
DWG ID:	TSEK/01
DATE:	31/8/2025
SHEET:	:ADD TEXT:

SUMMARY NOTES

TOTAL CUSTOMER:	1
TOTAL FDC:	N/A
TOTAL FDP:	1
TOTAL PROPOSED JOINT:	N/A
TOTAL PROPOSED MH:	N/A
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	490
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 AERIAL CABLE	
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 :	