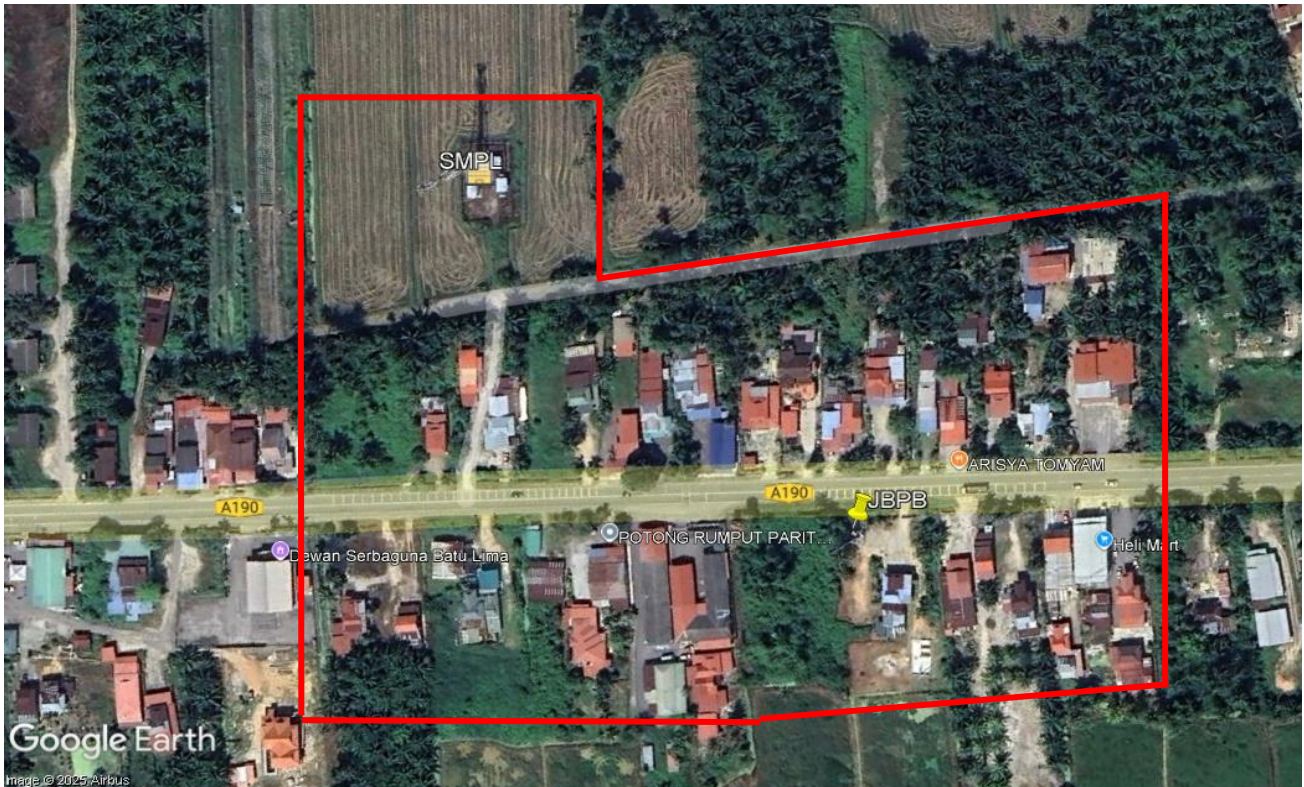


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9 , MENARA MAXIS , KUALA LUMPUR CITY CENTRE , 50088 KUALA LUMPUR
Date	:	22/08/2025



Project & Site Name	:	UMOBILE MAXIS JBPB
Site LRD	:	JBPB
Address	:	JALAN BAHARU, KUALAU KURAU, PERAK
District	:	KUALA KURAU
Postcode & State	:	34350 PERAK
GPS Coordinate	:	5.072537, 100.476611
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	50
Aerial Build (m)	280
Total Civil Build (m)	330

UG Cable (m)	50
Aerial Cable (m)	280
Coil at MH (m)	10
Total Cable (m)	340



Table of Contents

- 1. POC3 Summary & Details**
 - 1.1. POC3 Summary
 - 1.2. POC3 Photos
- 2. OSP / ISP Summary & Details (OSP 2)**
 - 2.1. Propose Route Details & Site Map
 - 2.2. OSP / ISP BOQ
 - 2.3. Civil Works Details (Manhole & Pole)
 - 2.4. Photo Illustration
- 3. Link Attenuation Calculation Reference**
- 4. Appendices**
 - 4.1. OSP Civil Design
 - 4.2. OSP SLD Design
 - 4.3. Costing BOQ

1. POC3 Summary & Details

1.1. POC3 Summary



Site LRD	:	SMPL
Structure Type	:	CABIN
GPS Coordinate	:	5.072108, 100.474760
Site / Building Name	:	
Address	:	JALAN BAHARU, 34350 KUALAU KURAU, PERAK
POC3 Model	:	005A800-X2

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

2.1. Propose Route Details & Site Map



LRD Point A	UM JBPB	LRD Point B	MAXIS SMPL
Address	BANDAR SEREMBAN SELATAN, 71450 SEREMBAN, NEGERI SEMBILAN	Address	JALAN BAHARU, 34350 KUALAU KURAU, PERAK
GPS Coordinates	5.072537, 100.476611	GPS Coordinates	5.072108, 100.474760
New Civil Build (M)	330	Existing Civil Build (M)	20
New Build Cable (M)	340	Existing Cable (M)	N/A

Local Council & Authority approval Requirement

: JKR BAGAN SERAI & LANDLORD

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	N/A
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	50
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	9
2	9 m Pole – Concrete/Iron	Ea	N/A
3	G.I Riser	Ea	N/A
4	Conduit/Cable Trunking	M	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	340

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				
2				
3				

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	NEW MAXIS POLE 01	5.0724780	100.4765619	35
2	NEW MAXIS POLE 02	5.0724486	100.4764422	35
3	NEW MAXIS POLE 03	5.0720431	100.4760570	35
4	NEW MAXIS POLE 04	5.0717082	100.4758347	35
5	NEW MAXIS POLE 05	5.0713852	100.4756335	35
6	NEW MAXIS POLE 06	5.0715839	100.4754676	35
7	NEW MAXIS POLE 07	5.0718341	100.4753046	35
8	NEW MAXIS POLE 08	5.0719336	100.4750920	35
9	NEW MAXIS POLE 09	5.0720308	100.4749415	35

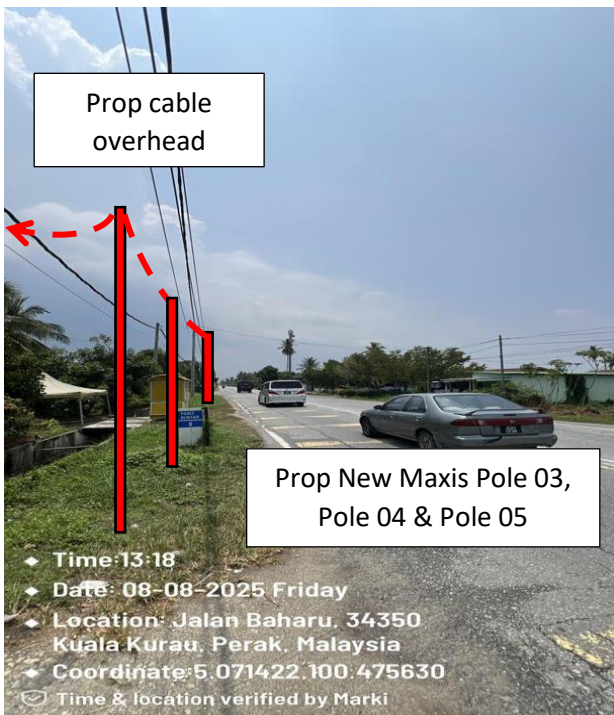
2.4. OSP/ISP Photo Illustration.



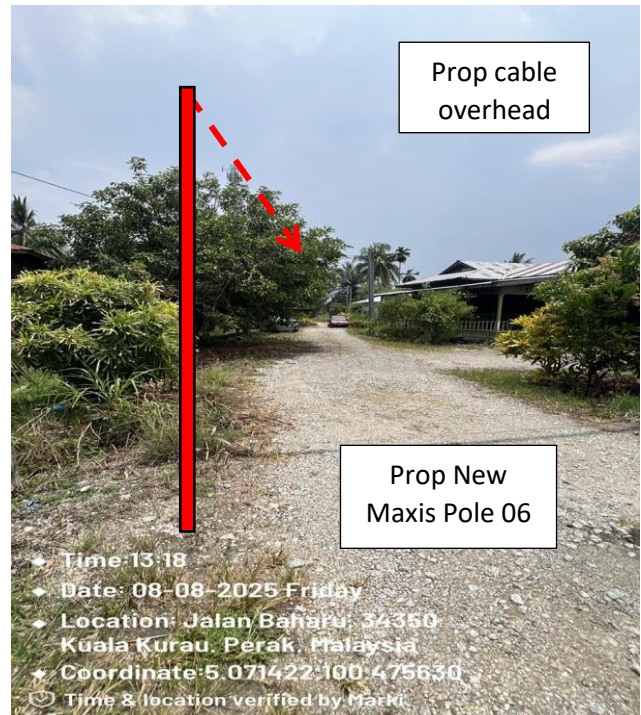
Picture 1: Cabin UMOBILE JBPB



Picture 2: Proposed New Maxis Pole 01 & Pole 02



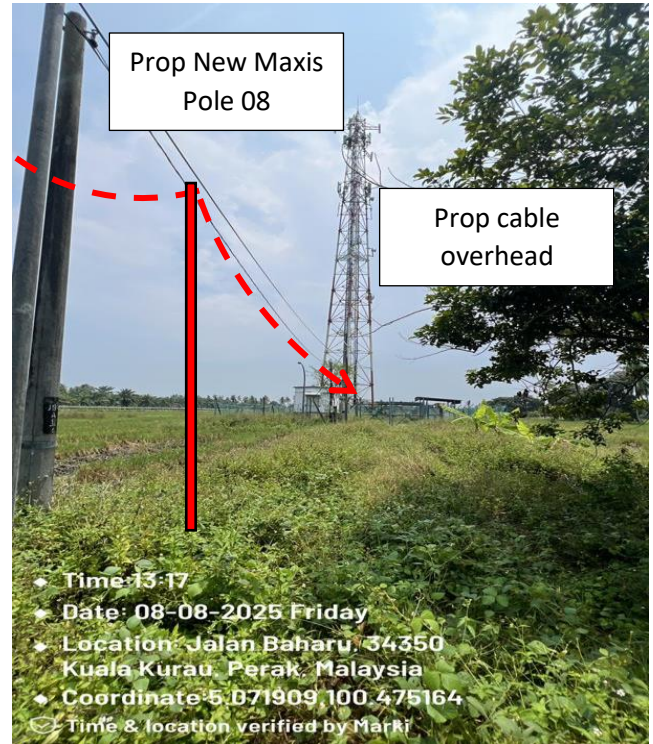
Picture 3: Proposed New Maxis Pole 03, 04 & Pole 05



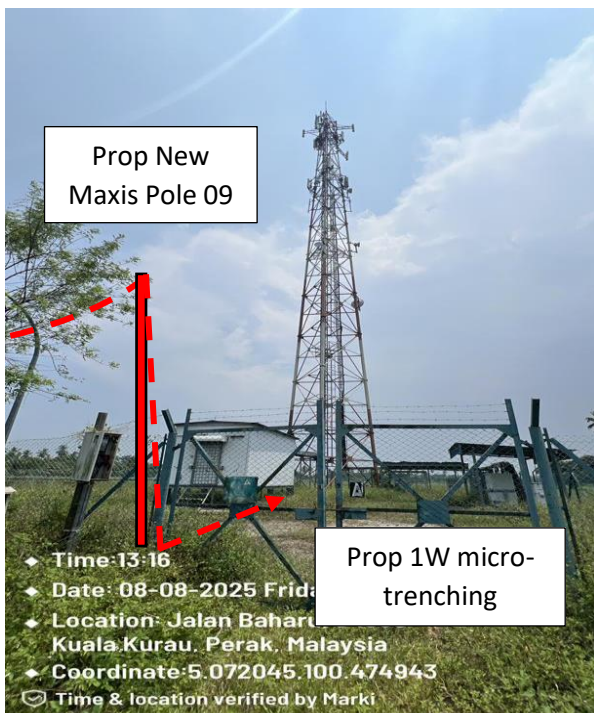
Picture 4: Proposed New Maxis Pole 06



Picture 5: Proposed New Maxis Pole 07



Picture 6: Proposed New Maxis Pole 08



Picture 7: Proposed New Maxis Pole 09



Picture 8: Cabin Maxis P03 SMPL



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

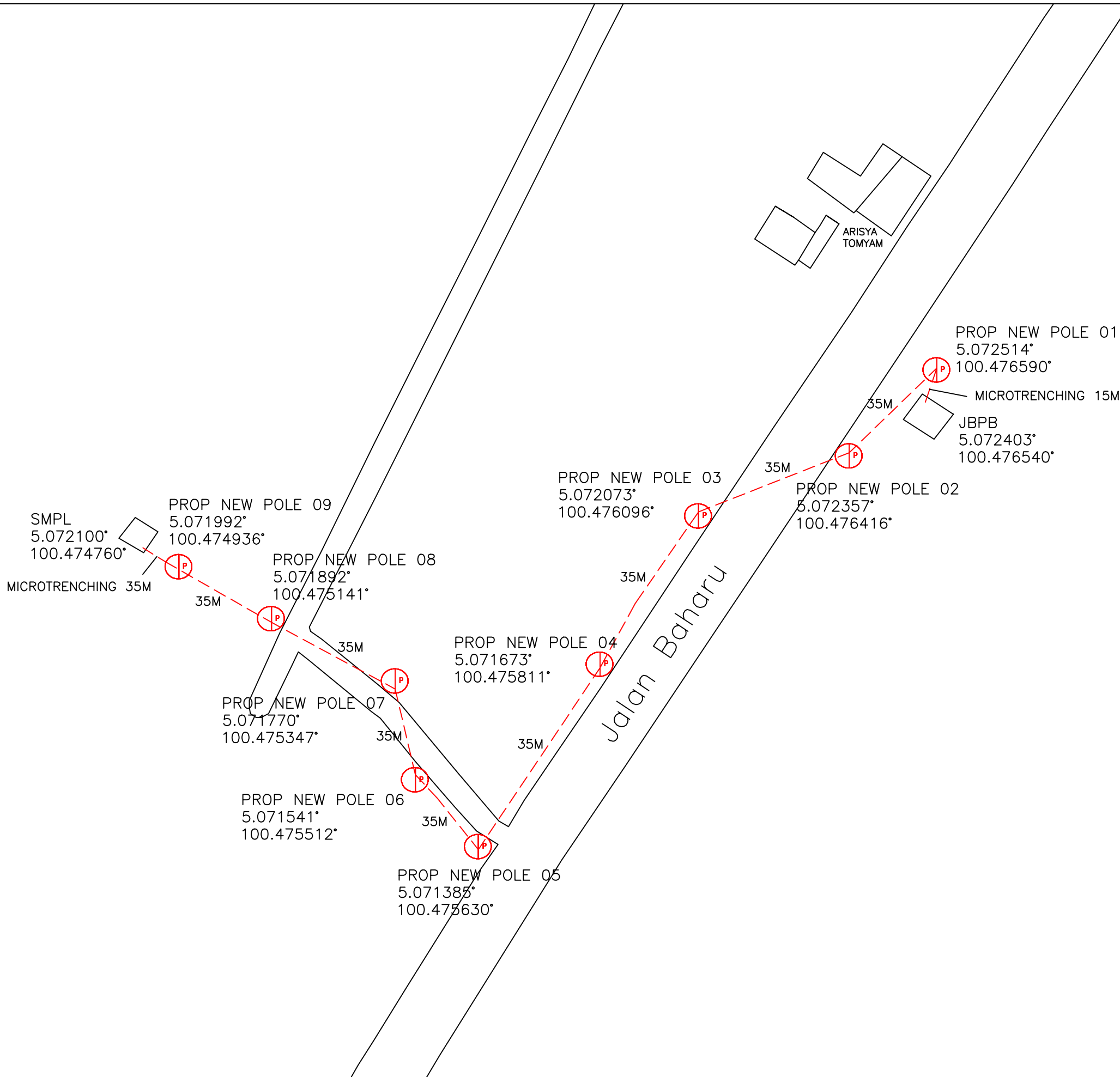


4. Appendices

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN

SITE NAME:	JBPB
PROJECT TITLE:	UMG5-JBPB
DWG ID:	UMG5/JBPB/01
DATE:	23/09/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	N/A
TOTAL PROPOSED MH:	N/A
TOTAL PROPOSED POLE:	9
TOTAL PROPOSED UG CABLE (m):	60
TOTAL PROPOSED OH CABLE (m):	280

LEGENDS

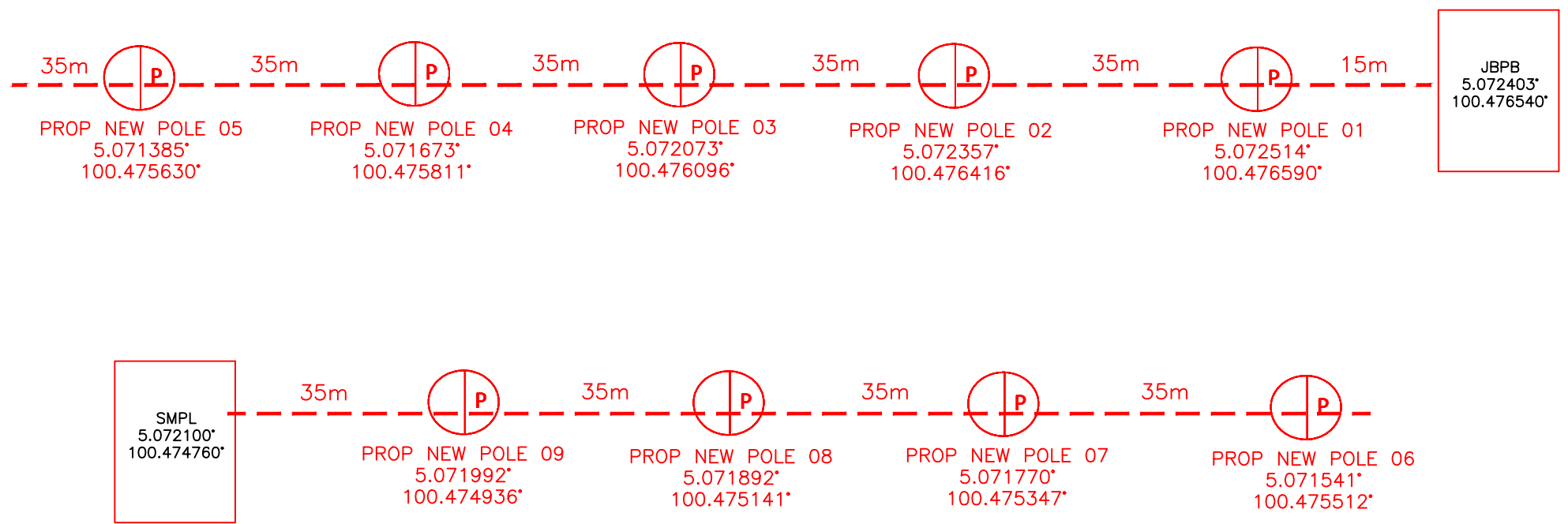
EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING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

DESIGN BY: BINASAT SDN BHD



MAXISBROADBAND SDN BHD

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



SITE MAPS DESIGN

SITE NAME:	JBPB
PROJECT TITLE:	UMG5-JBPB
DWG ID:	UMG5/JBPB/01
DATE:	23/09/2025
SHEET:	1/1

SUMMARY NOTES

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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 :	