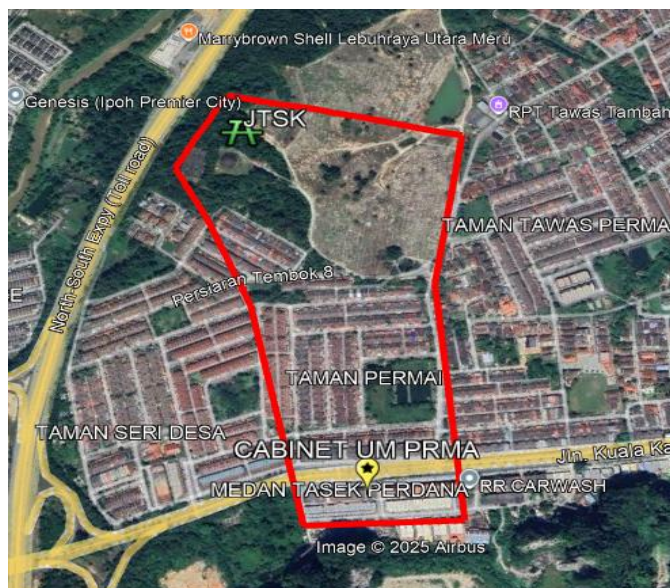


# Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9 , MENARA MAXIS , KUALA LUMPUR CITY CENTRE , 50088 KUALA LUMPUR
Date	:	1/8/2025



Project & Site Name	:	UMOBILE MAXIS PRMA		
Site LRD	:	PRMA		
Address	:	LALUAN TASEK PERDANA, MEDAN TASEK PERDANA		
District	:	IPOH		
Postcode & State	:	30010, PERAK		
GPS Coordinate	:	4.640843986321346, 101.0947871594416		
FTTx LRD	:	NA		
Home pass / Premise pass	:	NA		
UG Build (m)	:	230	UG Cable (m)	230
Aerial Build (m)	:	N/A	Trunking Cable (m)	30
<b>Total Civil Build (m)</b>	:	<b>230</b>	Coil (m)	10
			<b>Total Cable (m)</b>	<b>270</b>



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# 1. POC3 Summary & Details

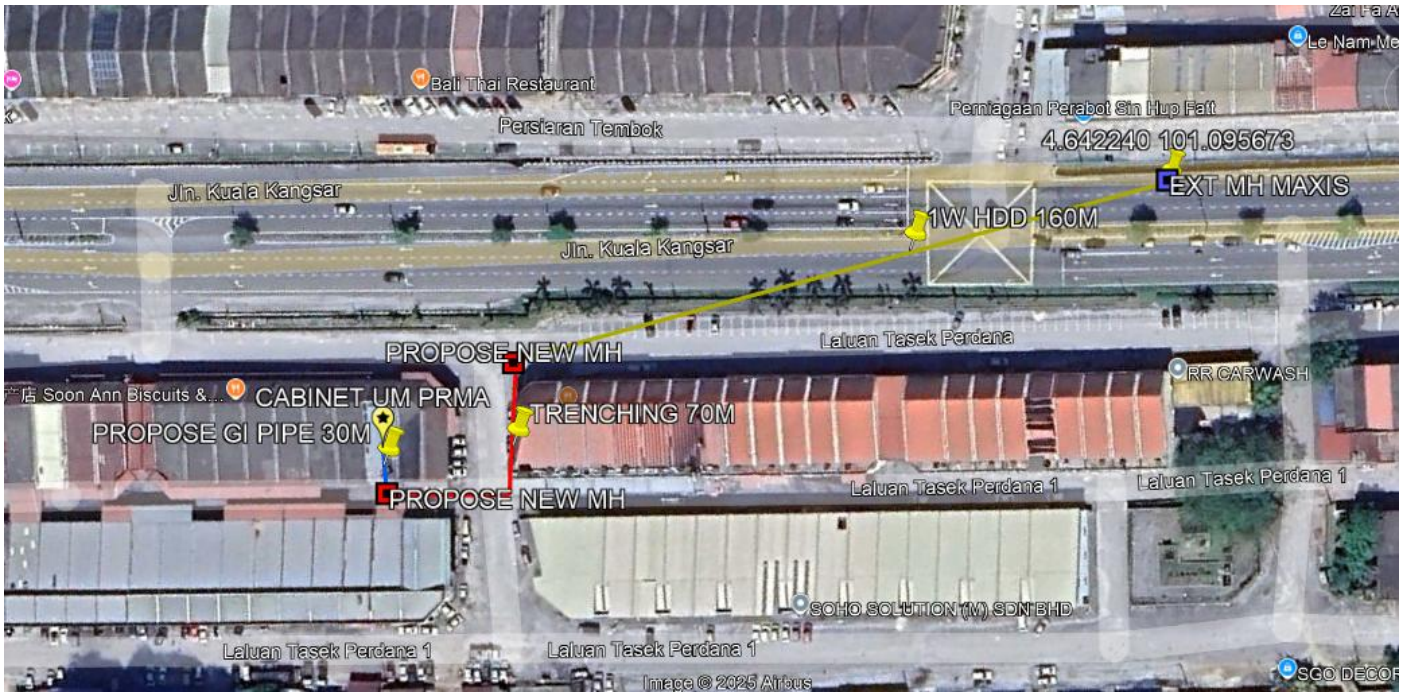
## 1.1. POC3 Summary



Site LRD	:	JTSK
Structure Type	:	CABIN
GPS Coordinate	:	4.644917° 101.089149°
Site / Building Name	:	***
Address	:	Spg Tiga, Persiaran Tawas Permai 9, Taman Tawas Permai, 30010 Ipoh, Perak
POC3 Model	:	005A800-X2

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

### 2.1. Propose Route Details & Site Map



<b>LRD Point A</b>	CABINET UMOBILE	<b>LRD Point B</b>	EXISTING MH MAXIS
<b>Address</b>	LEVEL 2, LALUAN TASEK PERDANA, MEDAN TASEK PERDANA	<b>Address</b>	JLN KUALA KANGSAR, 30010 IPOH PERAK
<b>GPS Coordinates</b>	4.640843986321346, 101.0947871594416	<b>GPS Coordinates</b>	4.642291622181803, 101.09573447405167
<b>New Civil Build (M)</b>	230	<b>Existing Civil Build (M)</b>	-
<b>New Build Cable (M)</b>	270	<b>Existing Cable (M)</b>	-

**Local Council & Authority approval Requirement** : JKR IPOH : 160M  
MAJLIS PERBANDARAN IPOH : 70m

## 2.2. OSP & ISP BOQ

<b>Overall Proposed OSP Civil Infrastructure Design Distance</b>		<b>Unit</b>	<b>Quantity</b>
1	Horizontal Directional Drilling with 1-way duct	M	<b>160</b>
2	Horizontal Directional Drilling with 2-way duct	M	***
3	Open trench on grass verge (GV) with 1-way duct	M	***
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	<b>70</b>
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	***

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

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

<b>Overall Cable Infrastructure Design Distance</b>		<b>Unit</b>	<b>Quantity</b>
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	<b>270</b>

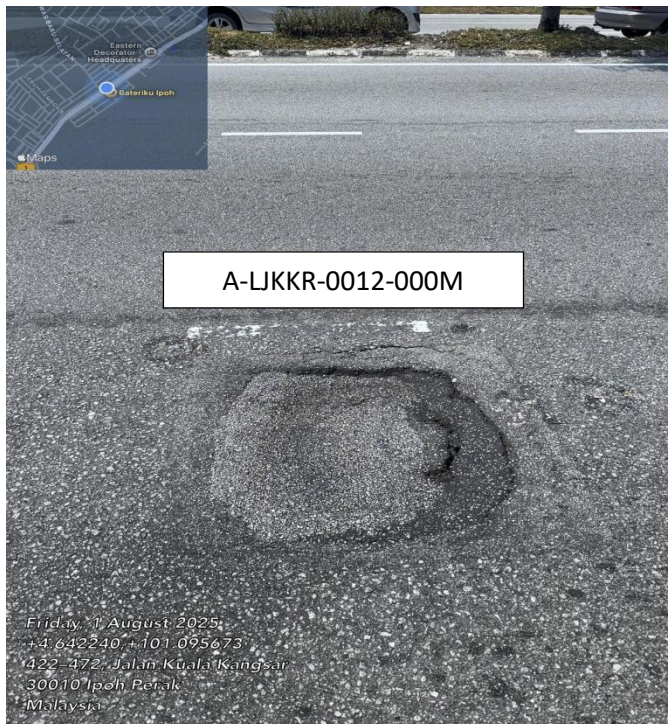
<b>Overall Optic Splice Design</b>		<b>Unit</b>	<b>Quantity</b>
1	Total Joint Closure	Ea	<b>1</b>

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

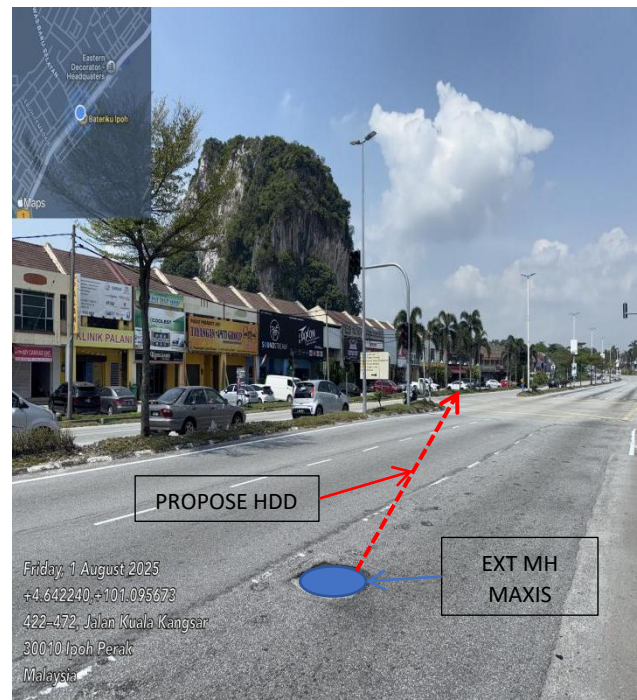
Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	A-LJKKR-0012-000M	4.642252	101.095668	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	MH01 JB30	4.641139	101.094896	
2	MH02 JB30	4.640778	101.094869	
3				

### 2.4. OSP/ISP Photo Illustration.



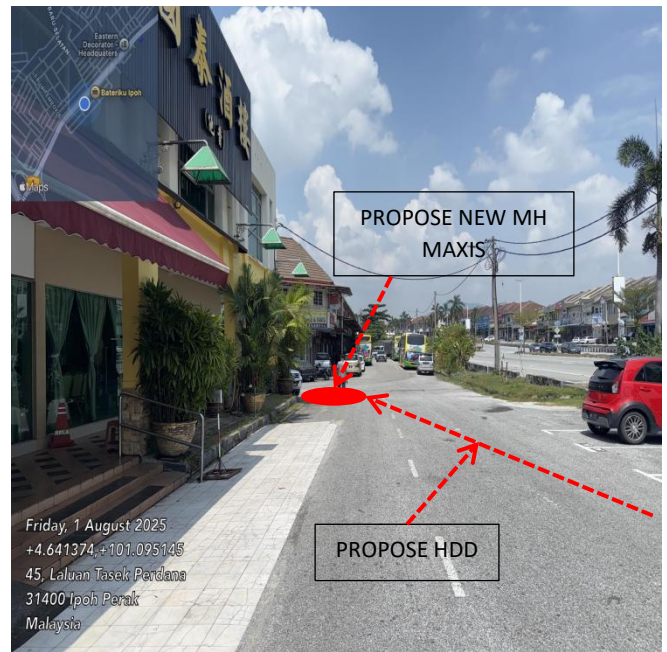
**PICTURE 1 : EXISTING MAXIS MH**



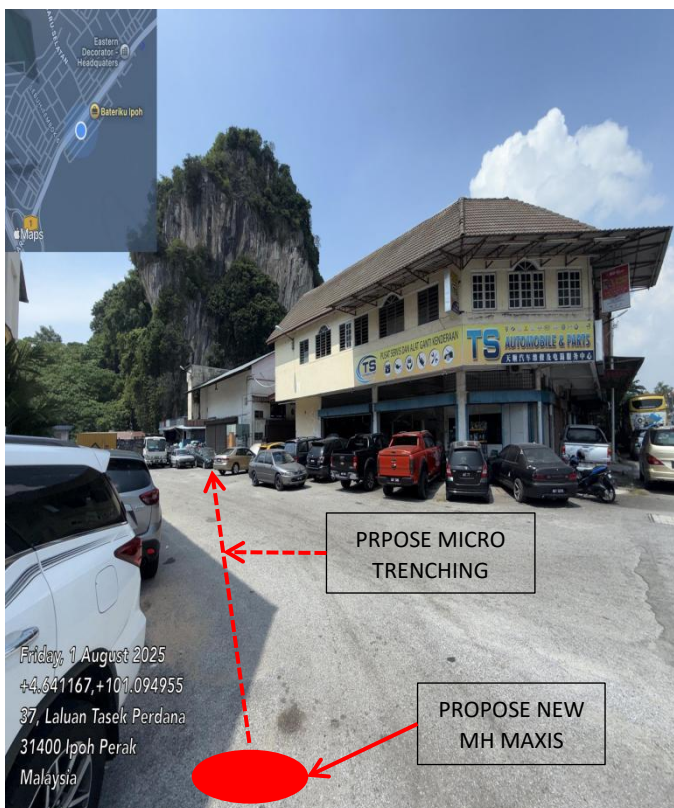
**Picture 2 – PROPOSE NEW HDD WORK TOWARDS UM SITE**



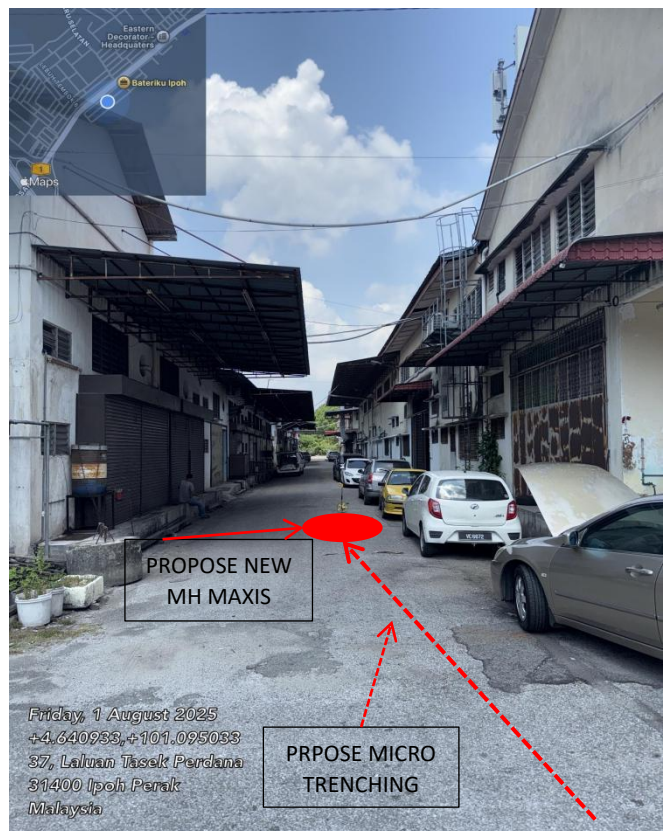
Picture 3 - PROPOSE NEW HDD WORK TOWARDS UM SITE



Picture 4 - PROPOSE NEW HDD WORK TOWARDS UM SITE



Picture 5 - PROPOSE NEW HDD WORK TOWARDS UM SITE



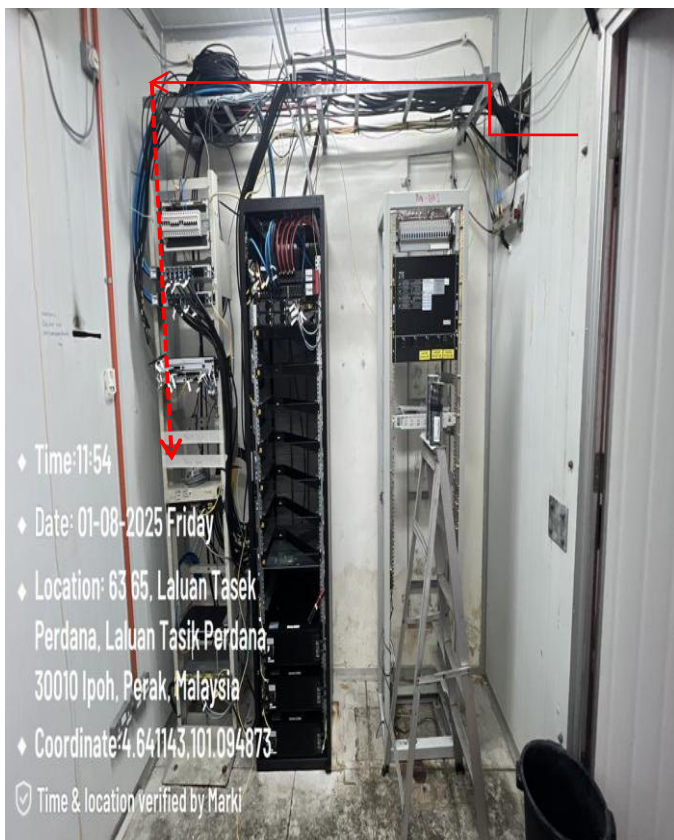
Picture 6 - PROPOSE NEW HDD WORK TOWARDS UM SITE



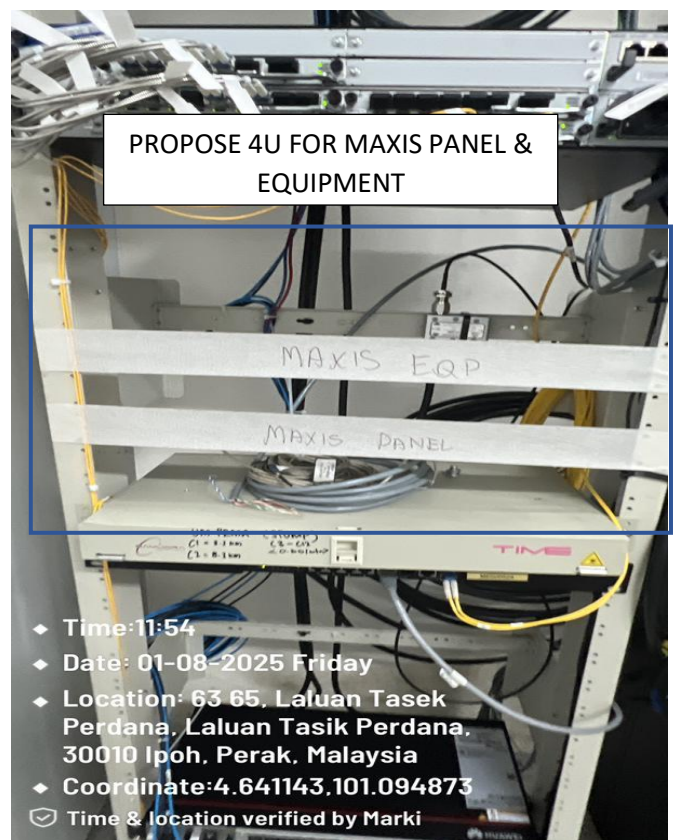
**Picture 8 - PROPOSE NEW HDD WORK TOWARDS UM SITE**



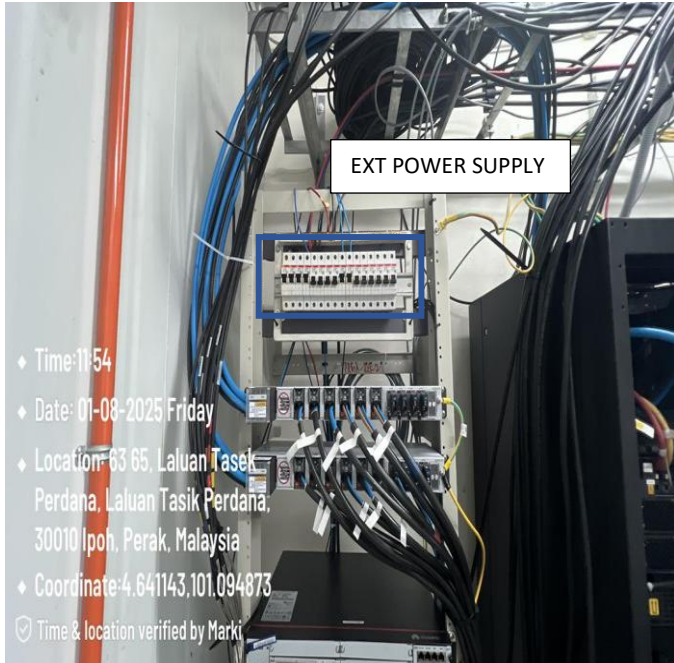
**Picture 9 - PROPOSE NEW CABLE WAY TOWARDS UM SITE**



**Picture 10 - PROPOSE NEW CABLE WAY TOWARDS UM SITE**



**Picture 11 - PROPOSE NEW CABLE WAY TOWARDS UM SITE**



**Picture12 - PROPOSE NEW CABLE WAY TOWARDS UM SITE**



### 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

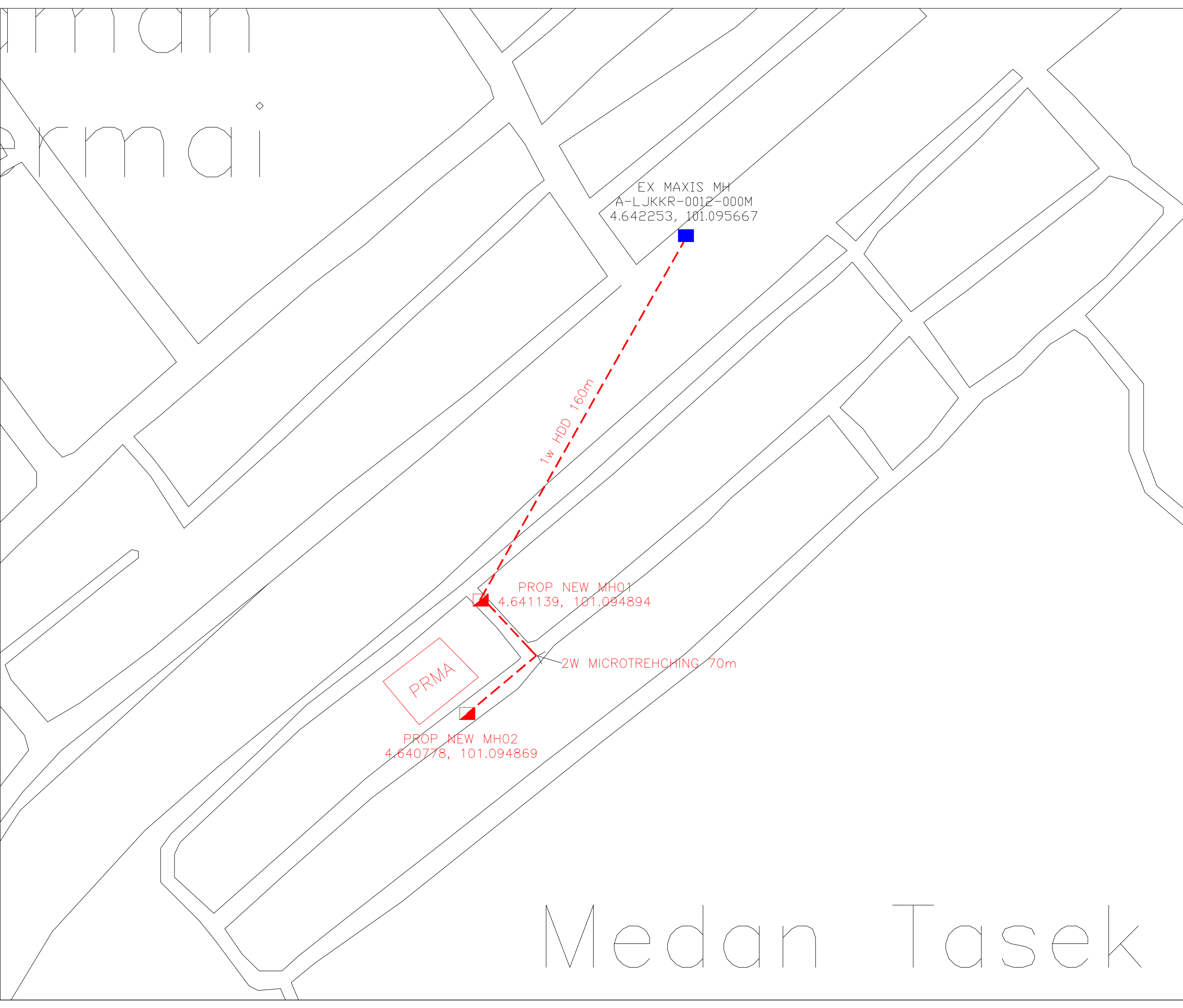


#### **4. Appendices**

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



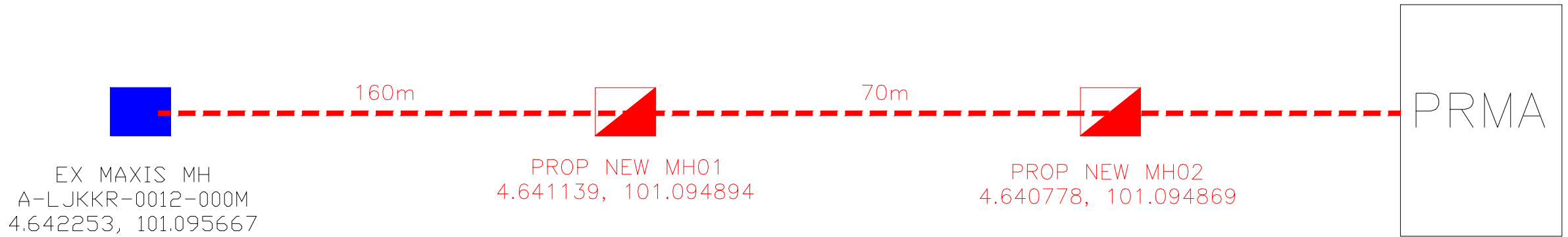
SITE MAPS DESIGN	
SITE NAME:	PRMA
PROJECT TITLE:	UM5G - PRMA
DWG ID:	UM5G/PRMA/01
DATE:	05/08/2025
SHEET:	1/1
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	1
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	230
TOTAL PROPOSED OH CABLE (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 :	

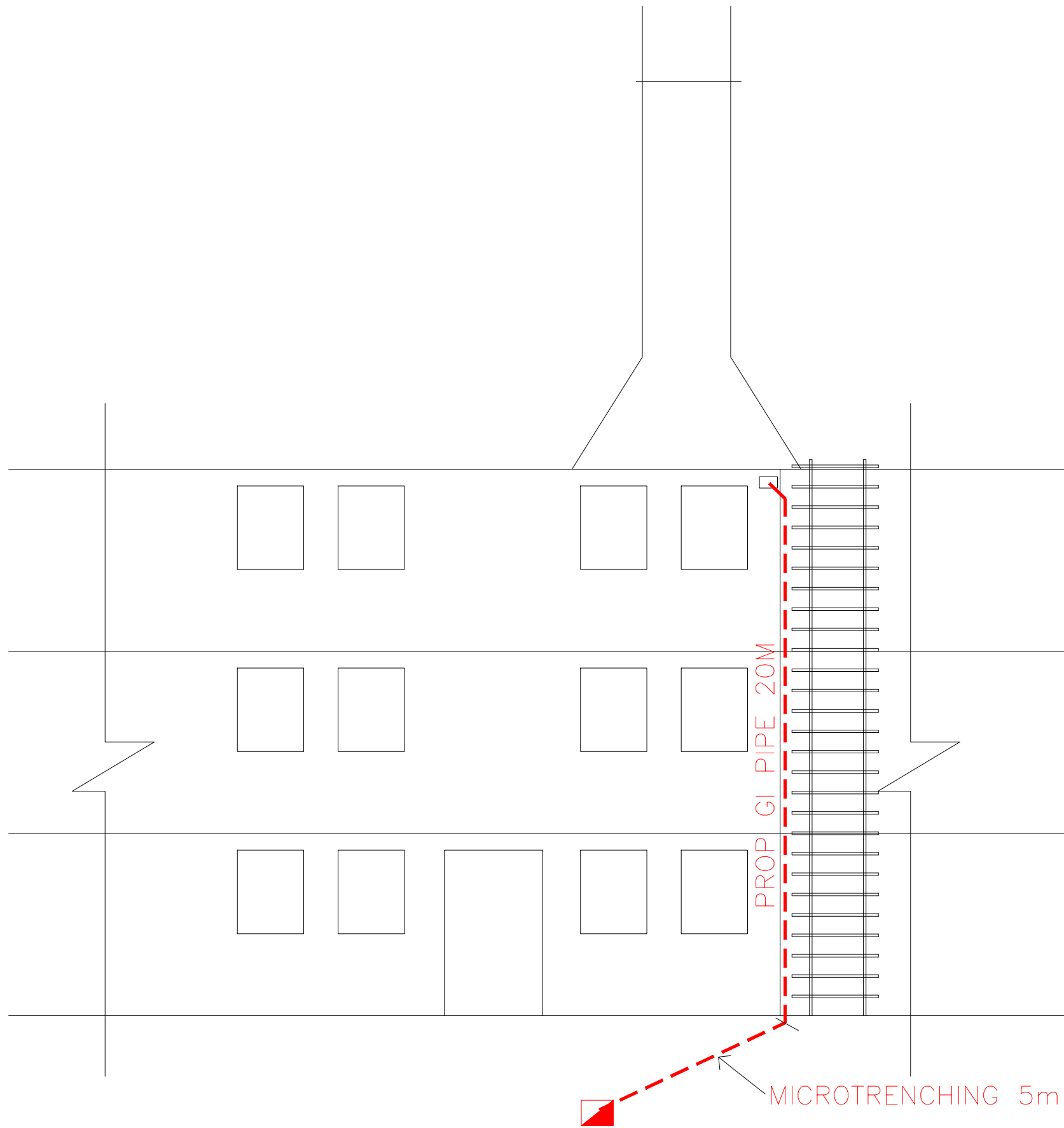
SITE MAPS DESIGN	
SITE NAME:	PRMA
PROJECT TITLE:	UM5G - PRMA
DWG ID:	UM5G/PRMA/01
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SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
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TOTAL PROPOSED MH:	1
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	230
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 :	





PROP NEW MH02  
4.640778, 101.094869

## SITE MAPS DESIGN

SITE NAME:	PRMA
PROJECT TITLE:	UM5G - PRMA
DWG ID:	UM5G/PRMA/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:	1
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	230
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 :	