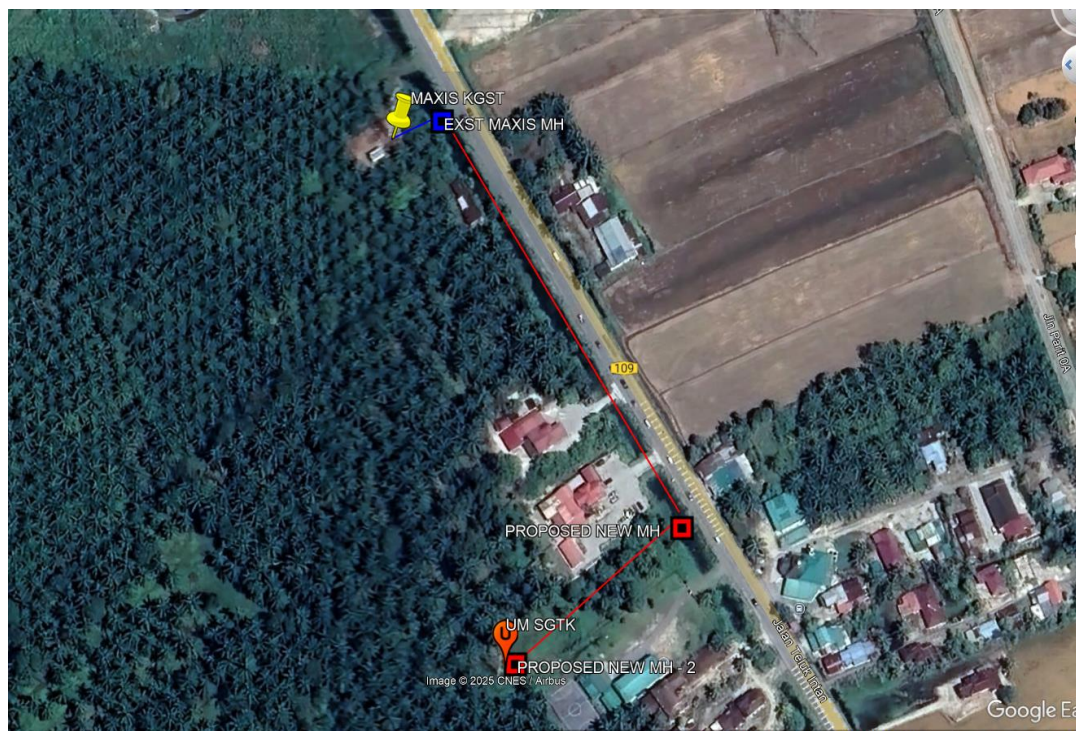


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9, MENARA MAXIS, KUALA LUMPUR CITY CENTRE, 50088 KUALA LUMPUR
Date	:	5/12/2025



Project & Site Name	:	U MOBILE SGTK
Taman ID	:	SGTK
Address	:	KAMPUNG MASJID BAHARU, SUNGAI TUNGKU
District	:	TELUK INTAN
Postcode & State	:	36000 PERAK
GPS Coordinate	:	4.064428, 101.044697
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A
Site Owner	:	NFP - STEALTH SOLUTION

UG Build (m)	480
Aerial Build (m)	0
Total Civil Build (m)	480

UG Cable (m)	510
Aerial Cable (m)	0
Coil at MH (m)	10
Total Cable (m)	520



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1. POC3 Summary & Details

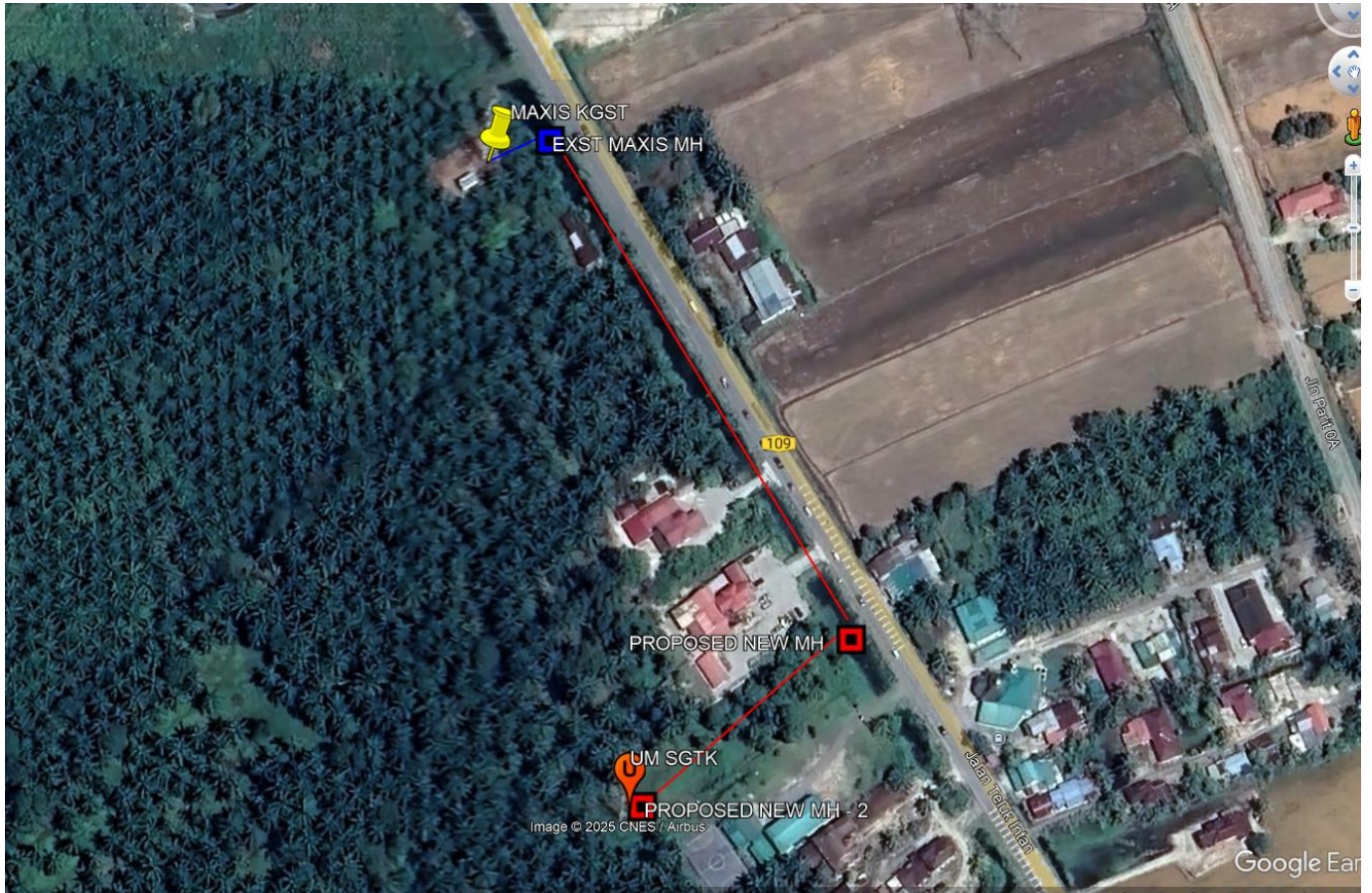
1.1. POC3 Summary



Site LRD	:	KGST
Structure Type	:	Cabin/T5
GPS Coordinate	:	4.066711, 101.044197
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	SGTK	LRD Point B	EX MAXIS MH
Address	Kg.Masjid Baharu, Kg.Sungai Tungku, 36000 Teluk Intan, Perak	Address	Kg.Sungai Tungku,36000 Teluk Intan Perak
GPS Coordinates	4.064428, 101.044697	GPS Coordinates	4.066800, 101.044422
New Civil Build (M)	480	Existing Civil Build (M)	30
New Build Cable (M)	520	Existing Cable (M)	N/A

Local Council & Authority approval Requirement :

1. JKR HILIR PERAK
2. MAJLIS DAERAH MANJUNG

2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	450
2	Horizontal Directional Drilling with 2-way duct	M	***
3	Open trench on grass verge (GV) with 1-way duct	M	30
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	520

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-LA109-001-000M	4.066800	101.044422	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	PROP MANHOLE 1	4.065031	101.045492	
2	PROP MANHOLE 2	4.064444	101.044750	***

2.4. OSP/ISP Photo Illustration.



PICTURE 1 - EXST MAXIS A-L109-001-000M

Picture 2 – PROPOSED HDD 1 WAY



Picture 3 – PROPOSED HDD 1 WAY

Picture 4 – PROPOSED HDD 1 WAY TO MH 01



Picture 5: PROPOSED HDD 1 WAY & PROPOSED MH 02



Picture 6: OPENCUT TO CABINET UM



Picture 7: USING PN12.5 CONDUIT TOWARDS CABINET T5



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

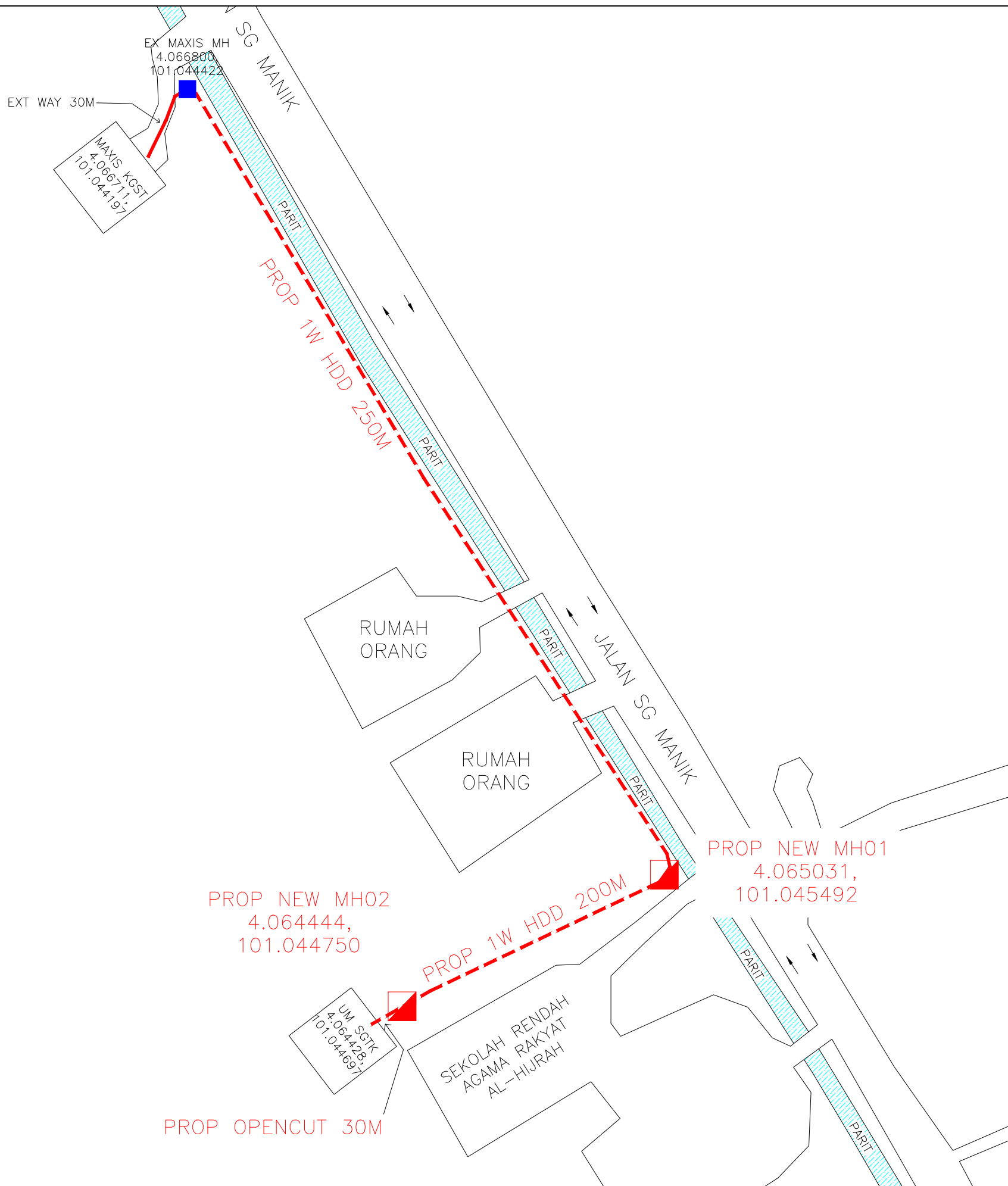


4. Appendices

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN

SITE NAME:	SGTK-KGST
PROJECT TITLE:	UM5G/SGTK/KGST
DWG ID:	UM5G/SGTK /01
DATE:	16/04/2026
SHEET:	1 OF 1

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FD :	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	1
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	450
TOTAL PROPOSED OH CABLE (m):	N/A

LEGENDS

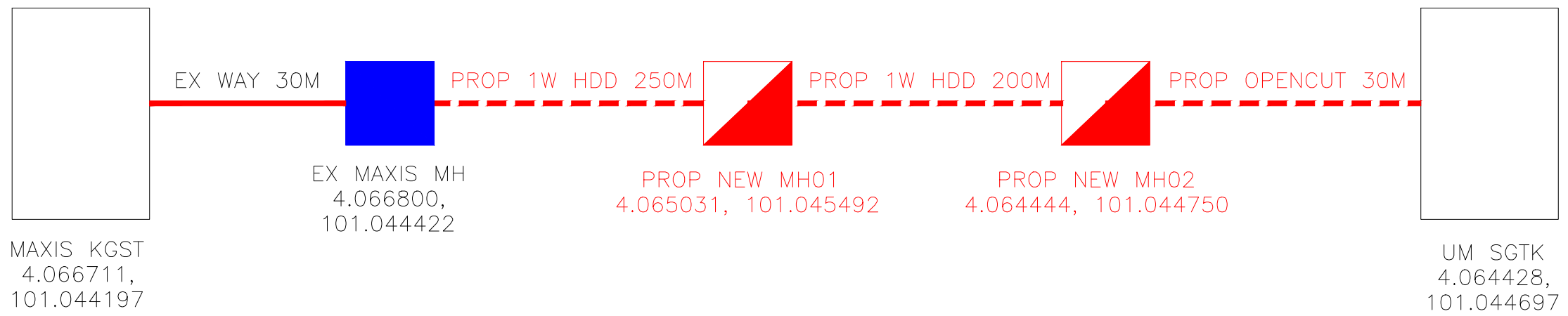
EXISTING FDC	
PROPOSED FDP	
EXISTING FDP	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING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



MAXIS KGST
4.066711,
101.044197

EX MAXIS MH
4.066800,
101.044422

PROP NEW MH01
4.065031, 101.045492

PROP NEW MH02
4.064444, 101.044750

UM SGK
4.064428,
101.044697

SITE MAPS DESIGN

SITE NAME:	SGTK-KGST
PROJECT TITLE:	UM5G/SGTK/KGST
DWG ID:	UM5G/SGTK /SLD
DATE:	16/04/2026
SHEET:	1 OF 1

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FD	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	1
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	450
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 :	
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