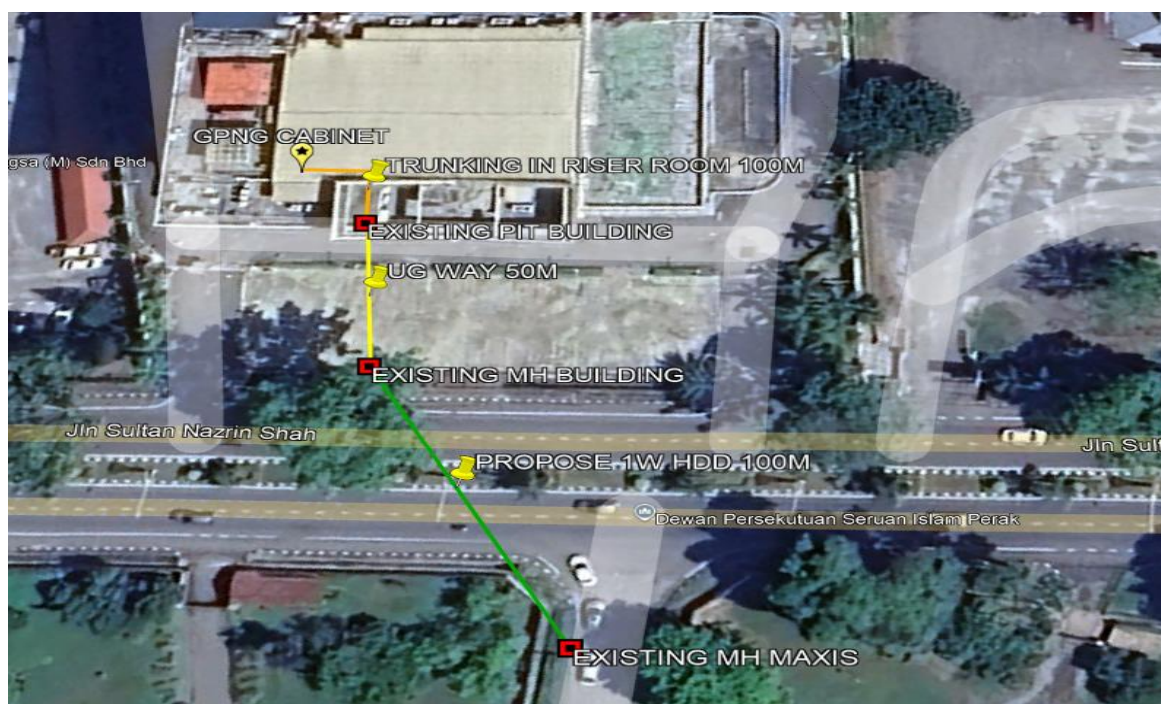


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9 , MENARA MAXIS, KUALA LUMPUR CITY CENTRE, 50088 KUALA LUMPUR
Date	:	30/07/2025



Project & Site Name	:	UMOBILE GPNG
Taman ID	:	N/A
Address	:	Coliseum Square, 8, Jln Sultan Nazrin Shah
District	:	IPOH
Postcode & State	:	31350, PERAK
GPS Coordinate	:	4.590991181134173, 101.09233277838544
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	100	TRUNK Cable (m)	150
Aerial Build (m)	N/A	CIVIL CABLE (m)	100
Total Civil Build (m)	100	Coil at MH (m)	10
		Total Cable (m)	260M



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	:	CASU
Structure Type	:	CABIN
GPS Coordinate	:	4°35'24.342" N 101°5'41.19" E
Site / Building Name	:	HOTEL IMPIANA IPOH
Address	:	18, Jln Sultan Nazrin Shah, 30250 Ipoh, Perak
POC3 Model	:	

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

2.1. Propose Route Details & Site Map



LRD Point A	CABINET UM	LRD Point B	EXISTING MH MAXIS
Address	ROOFTOP AT ROYAL CHINA IPOH	Address	JALAN SERUAN, TAMAN CHEATEAU, 30250 IPOH PERAK
GPS Coordinates	4.590959212422881, 101.09236089911846	GPS Coordinates	4.590124107273037, 101.09207120628666
New Civil Build (M)	100	Existing Civil Build (M)	-
New Build Cable (M)	250	Existing Cable (M)	-

Local Council & Authority approval Requirement :

*****please separate distance for Local Council & Authority involved
JKR IPOH : 100m**

2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	100
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	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	260

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

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

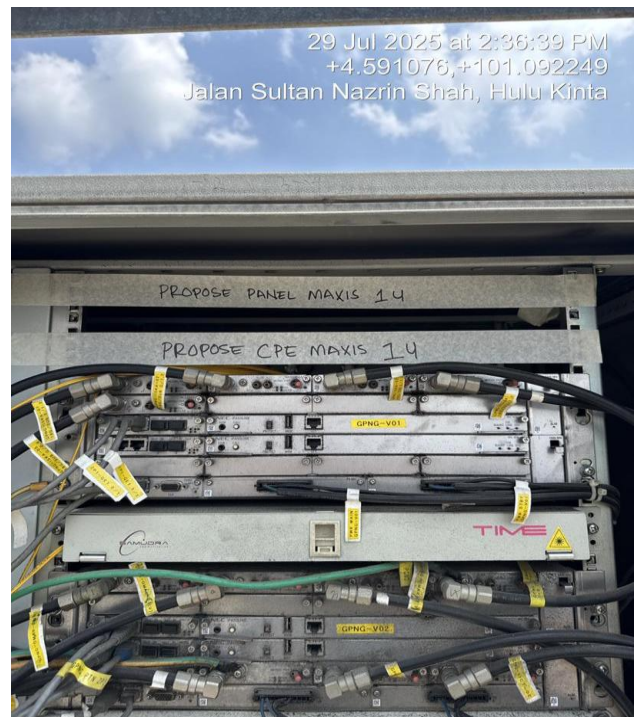
Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	A-LJSRN-0001-000M	4°35'25.0" N	101°5'32.0" E	
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A

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

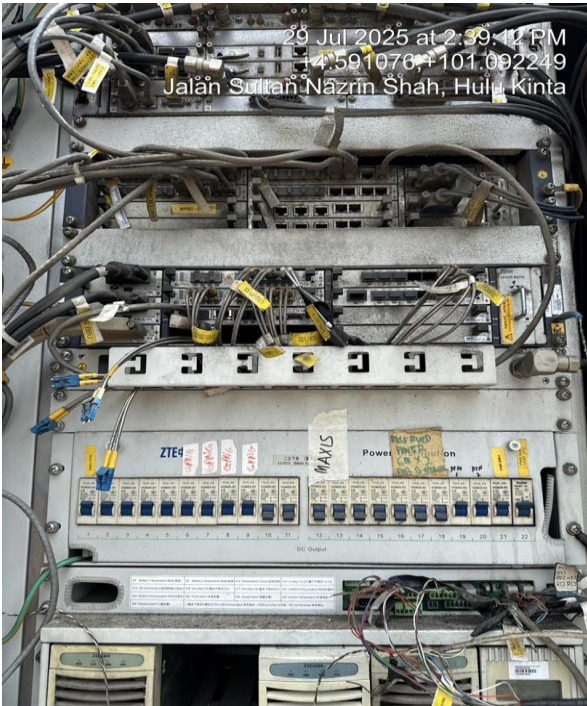
2.4. OSP/ISP Photo Illustration.



PICTURE 1 : CABINET UMOBILE



Picture 2 – PROPOSE MAXIS PANEL AND CPE



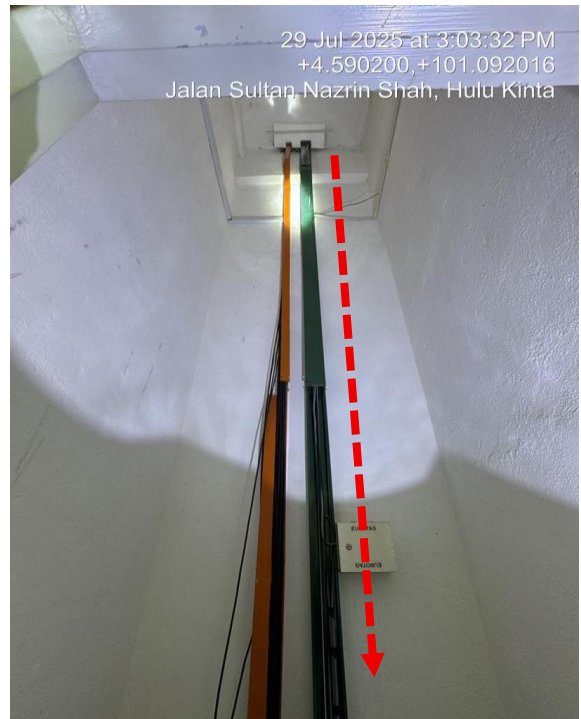
Picture 3 – DC POWER SOURCE



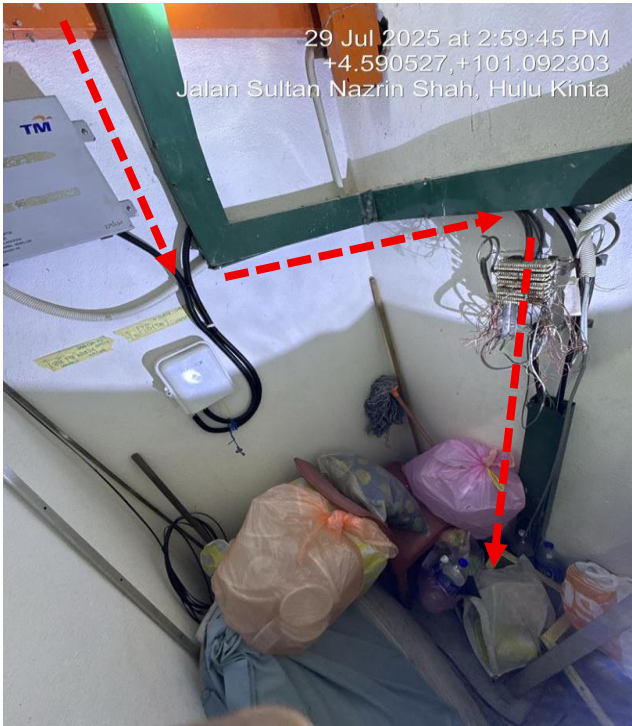
Picture 4 –CABLE WAY TRUNKING 100M



Picture 3 – CABLE WAY TRUNKING 100M



Picture 4 – CABLE WAY TRUNKING 100M



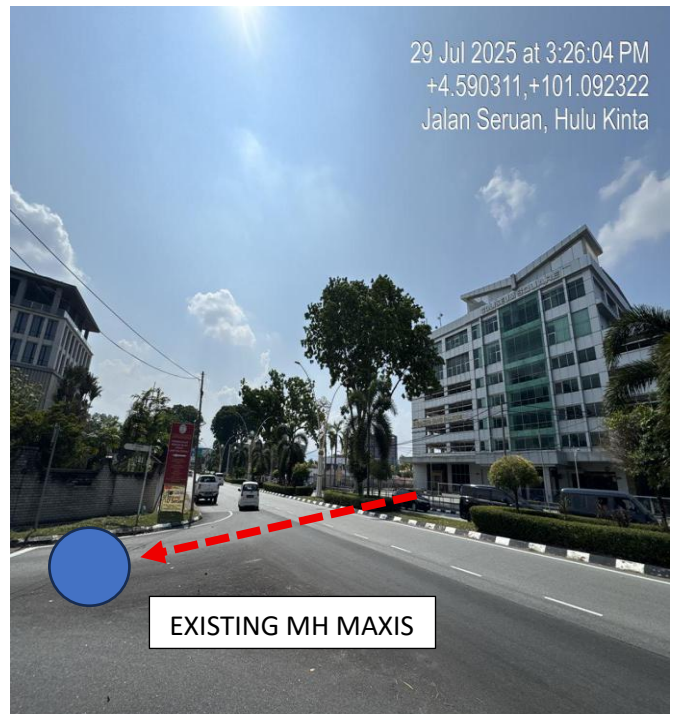
Picture 3 – CABLE WAY TRUNKING 100M



Picture 4 – EXISTING PIT BUILDING



Picture 3 – EXISTING MH BUILDING



Picture 4 – HDD 1W 100M



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

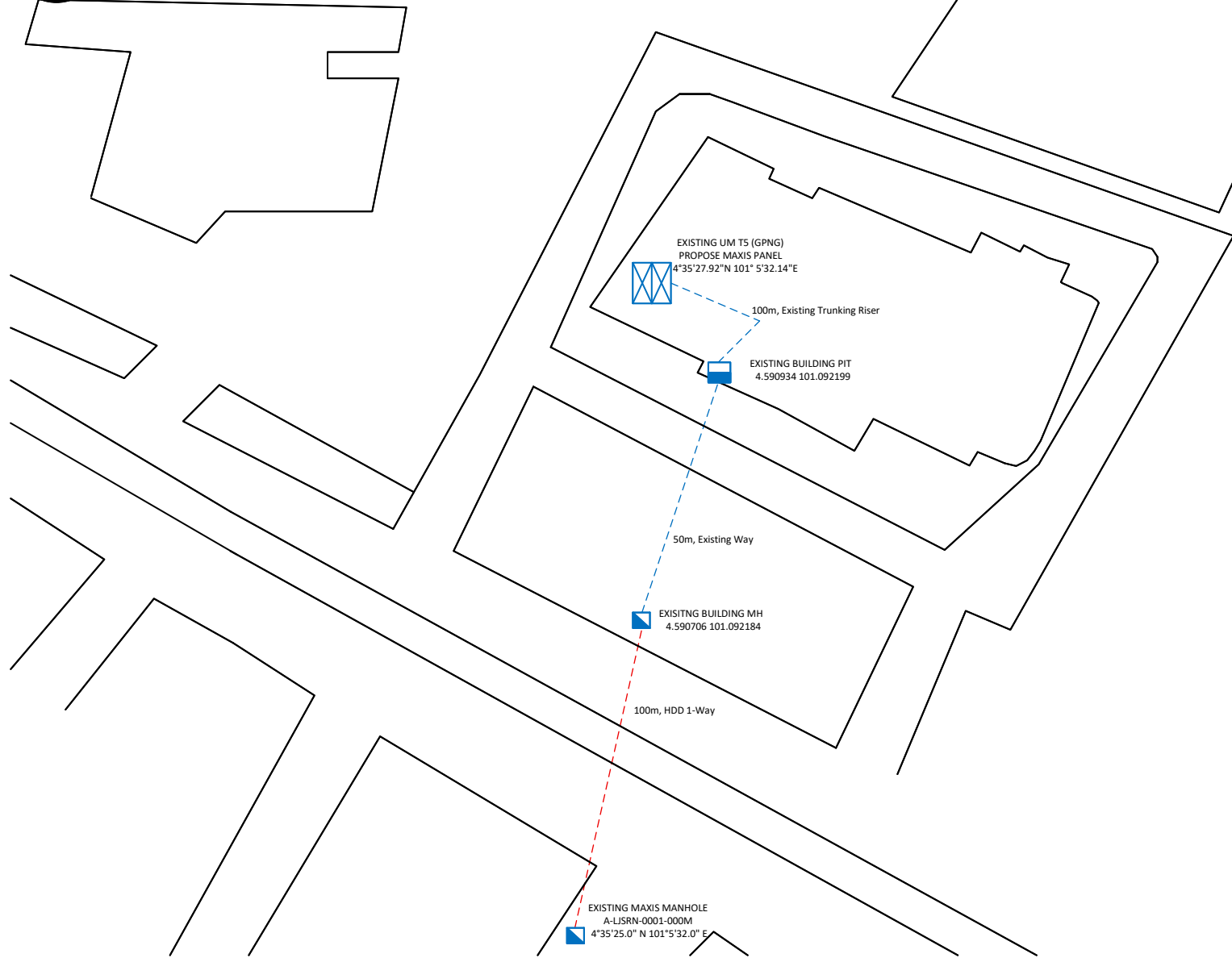


4. Appendices

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN

SITE NAME:	GPNG
PROJECT TITLE:	UM5G-GPNG
DWG ID:	UM5G/GPNG/01
DATE:	31/7/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER:	1
TOTAL FDC:	N/A
TOTAL FDP:	N/A
TOTAL PRPOSED JOINT:	1
TOTAL PRPOSED MH:	N/A
TOTAL PRPOSED POLE:	N/A
TOTAL PRPOSED UG CABLE (m):	250
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 :	

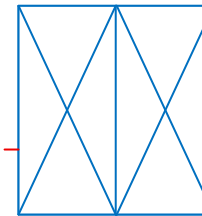
EXISTING MAXIS MANHOLE
A-LJSRN-0001-000M
4°35'25.0" N 101°5'32.0" E



JT1

250M

EXISTING UM T5 (GPNG)
PROPOSE MAXIS PANEL
4°35'27.92"N 101° 5'32.14"E



SITE MAPS DESIGN

SITE NAME:	GPNG
PROJECT TITLE:	UM5G-GPNG
DWG ID:	UM5G/GPNG/01
DATE:	31/7/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER:	1
TOTAL FDC:	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	N/A
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	250
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 COUNCILC BOUNDARY	

DESIGN BY: BINASAT SDN BHD



MAXIS BROADBAND SDN BHD

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