



Contractor	IVOCOM (M) Sdn Bhd.
SOW Ref	B12 - OSP Construction & Commissioning
LRD	KGJE-BTKU
Subject	Fiber Technical Proposal



Region	Northern		
KV/OKV	OKV		
Point A	KGJE	Point B	BTKU
Address	AT DIGI SITE: 4715B, KAMPUNG JELAI, BATU KURAU, 43000 TAIPING, PERAK		
Site A Lat Long	05.014611, 100.806711		
Site B Lat Long	04.982951, 100.98131		
Structure Owner	DIGI		

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- Section 10: Internal Trenching Permit/Snapshot
- Bill of Quantities (BoQ)



Section 1: Proposal Sign-off Sheet

This proposal is contains the civil design proposal for [MAXIS SITE KGJE-BTKU AT DIGI SITE: 4715B, KAMPUNG JELAI, BATU KURAU, 43000 TAPING, PERAK](#)

All the information presented complied with Maxis Outside Plan technical specification & guidelines:

- Last Mile Telecommunication Systems Design and Survey (GLD/TNE/005)
- GLD/CATE/002 (Outside Plant Design and Build Guideline)
- OSPE GLD/TNE/003(Horizontal Directional Drilling Procedure & Guideline)
- OSPE GLD/TNE/004 (Road Reinstatement Work Guideline)

The proposed construction methodologies, material and Bill of Quantity are verified to be correct.

Ivocom (M) Sdn Bhd

Name: MUHAMMAD SABREE

Designation: PROJECT SUPERVISOR

Signature: *Sabree*

Check & Approved by: JAGATHEEBAN

Signature: *Jaga*

Submission Date: 3/12/2024

Maxis OSP Detail Design

Name: M Nazim Mahmud

Designation: Transport Network Engineer

Signature: _____

Approval Date: _____

Section 2: Outside Plant Civil Infra Design Summary

Overall proposed OSP Civil Infrastructure Design Distance	2685	meter
a. Horizontal directional drilling	2625	meter
b. Carriage way open cut trenching	0	meter
c. Grass verge open cut trenching	60	meter
d. Micro-trenching (mT)	0	meter
e. Maxis Pole	0	meter
f. Cable trunking	0	meter
g. GI Pipes Crossing/Riser	0	meter
h. Cable Ladder	0	meter
i. Duct GI	0	meter

ITP trunking/riser length	0	meter
ITP cable length from Maxis fiber tapping point to new termination point at building/cabin	2953.5	meter
No. of proposed manhole	12	pc
Area of miling work required	0	meter

Local council & authority approval requirement	2685	meter
a. JKR LARUT MATANG	2625	meter
b. LAND OWNER	60	meter
c.		meter

Estimated Cost of the Scheme/Project	#REF!	RM
--------------------------------------	-------	----

Type of building:	TOWER
Address:	AT DIGI SITE: 4715B, KAMPUNG JELAI, BATU KURAU, 43000 TAIPING, PERAK
Contact person:	
Contact no.:	



Existing Infrastructure Information

Preceding duct/sub-duct space	Existing manhole at TAPPING EXIST MAXIS MH at JALAN
Preceding duct/sub-duct condition	Existing duct and subduct have to test
Existing cable/fiber condition	TBD wants the design for all cluster is completed
Existing sites power & space	Space available

Tenaga Pole Option

TNB pole availability	N/A
Distance of the TNB poles	N/A
Constraint	N/A

Other Highlights/Remarks

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SLA

Date Survey Triggered

Survey Done (Days)	TP Submission (Days)
4	14

Implementation

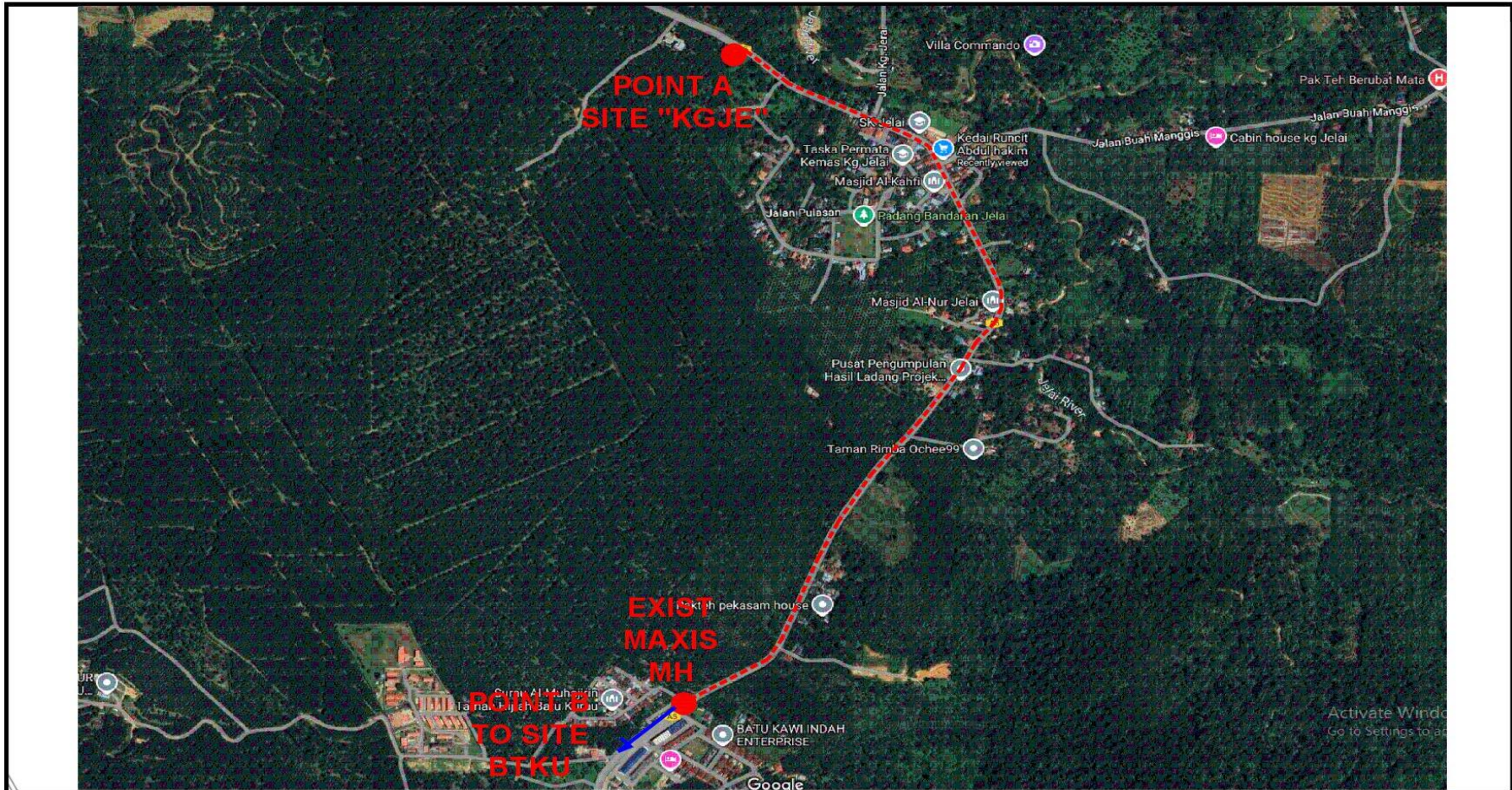
Method	Distance (m)	CW (Days)
Underground	2685	69
Pole	0	0
Total	2685	69

<u>Date TP Submission</u>	18/Jan/00
<u>Date CW Completed</u>	30/Mar/00

Section 3

Vicinity Map





 MAXIS BROADBAND SDN BHD Level 5-9, 11, 14-25 & 29-30 Menara Maxis Kuala Lumpur City Centre Off Jalan Ampang 50088 50088 Kuala Lumpur	Title: LOCATION PLAN FOR MAXIS SITE"KHJE-BTKU" AT DIGI SITE: 4715B, KAMPUNG JELAI, BATU KURAU, 43000 TAIPIING, PERAK	Designed by: IVOCOM (M) SDN BHD	Checked by: M. NAZIM MAHMUD	Approved by: M. NAZIM MAHMUD
	Prepared by: IVOCOM (M) SDN BHD	Date: 29/11/2024	Sheet no : 1 OF 6	
	Job No:	File:	Rev:	

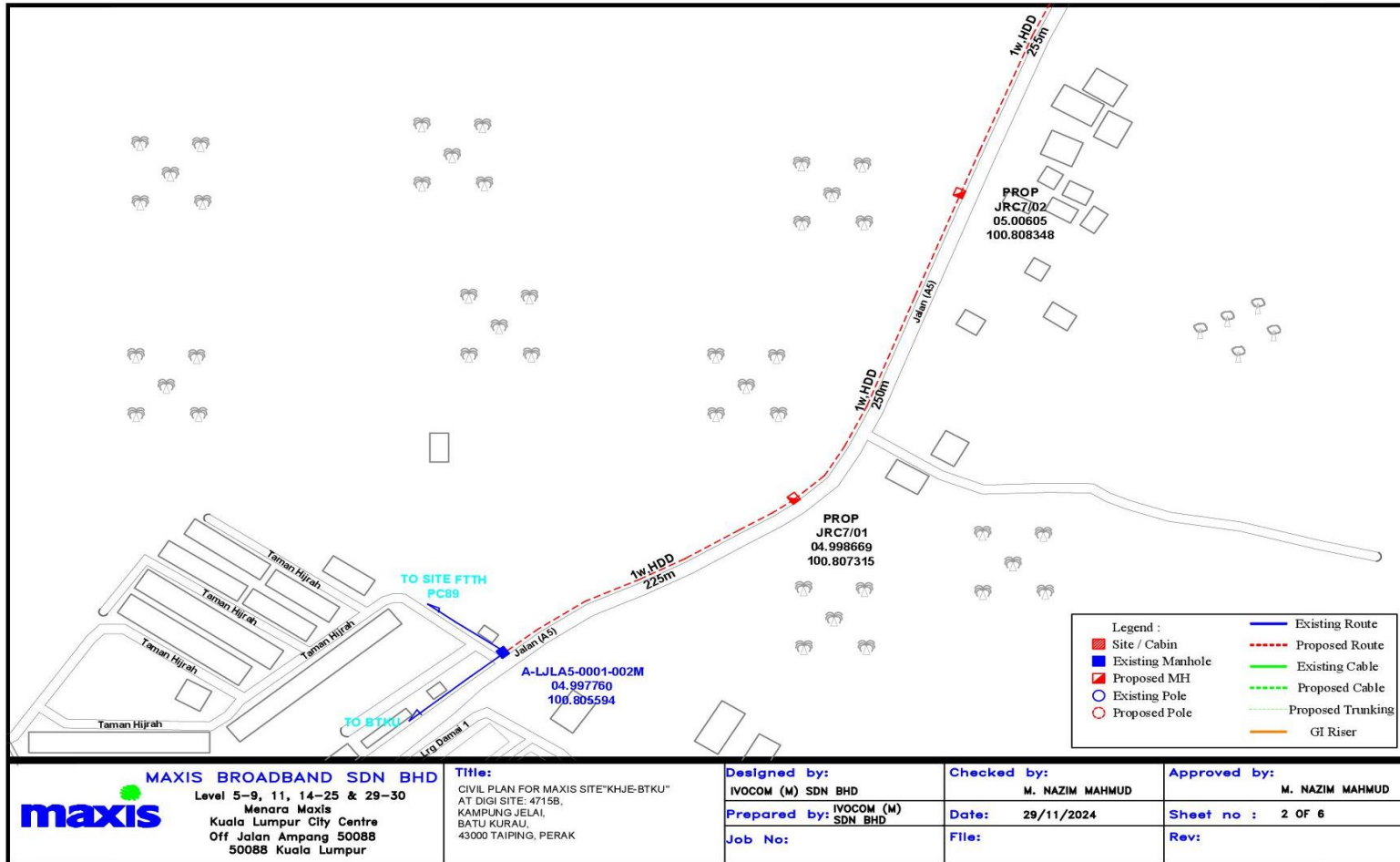
LEGEND

- 
 Proposed MH
- 
 Existing MH
- 
 Proposed duct
- 
 Existing duct

Section 4

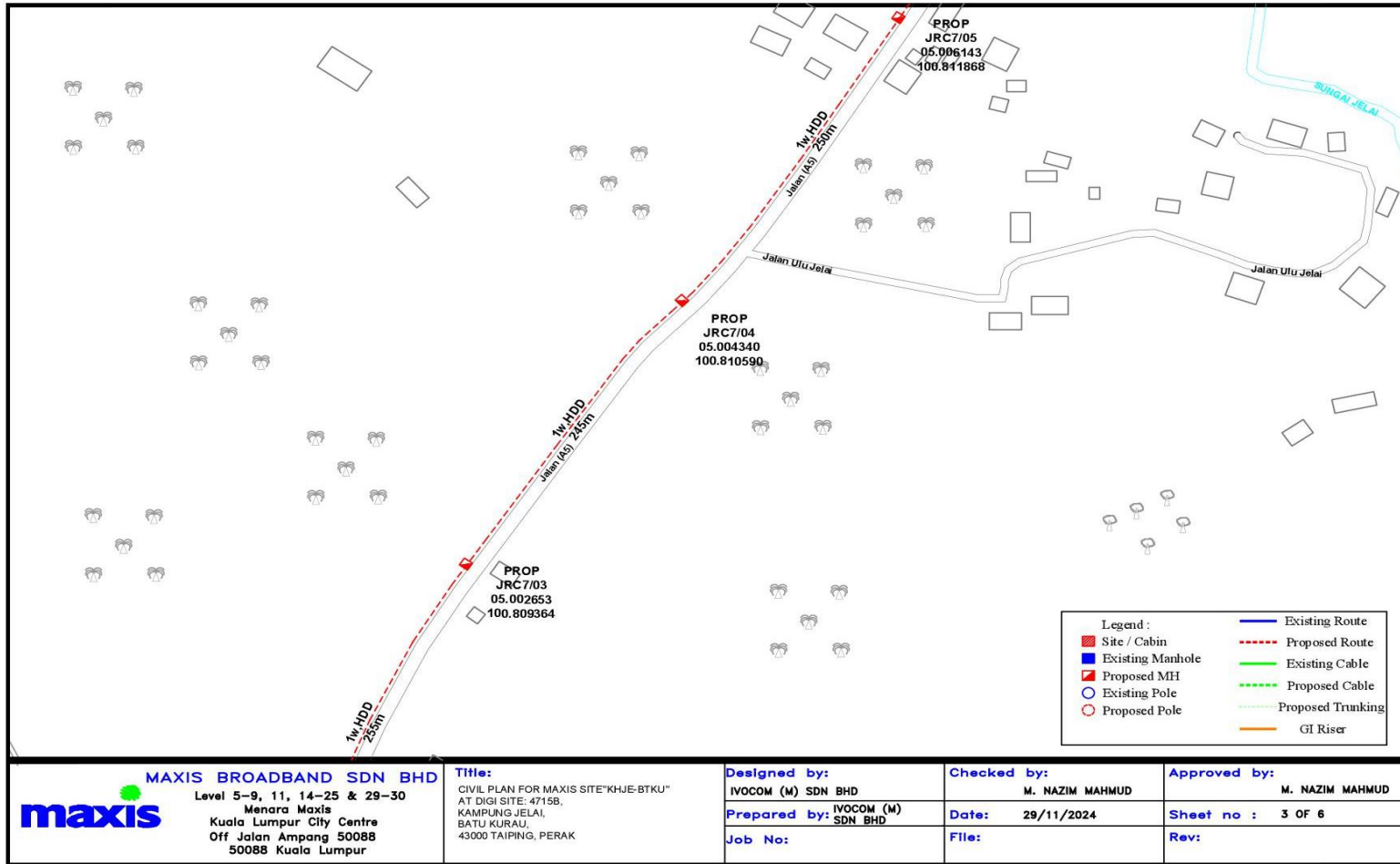
Civil Infrastructure Route Plan & Permit Boundary





LEGEND





LEGEND



Proposed MH



Existing MH



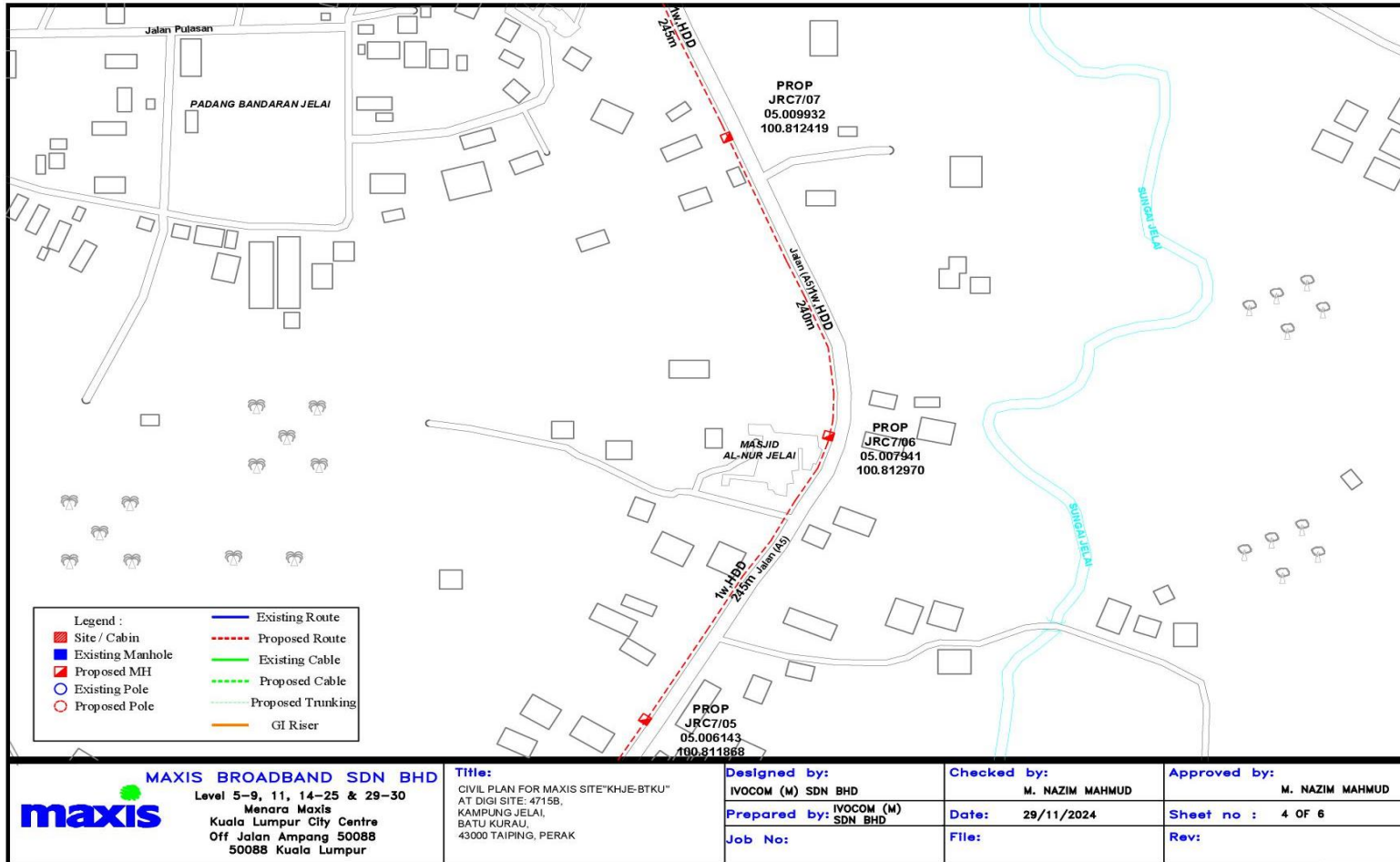
Proposed duct



Existing duct

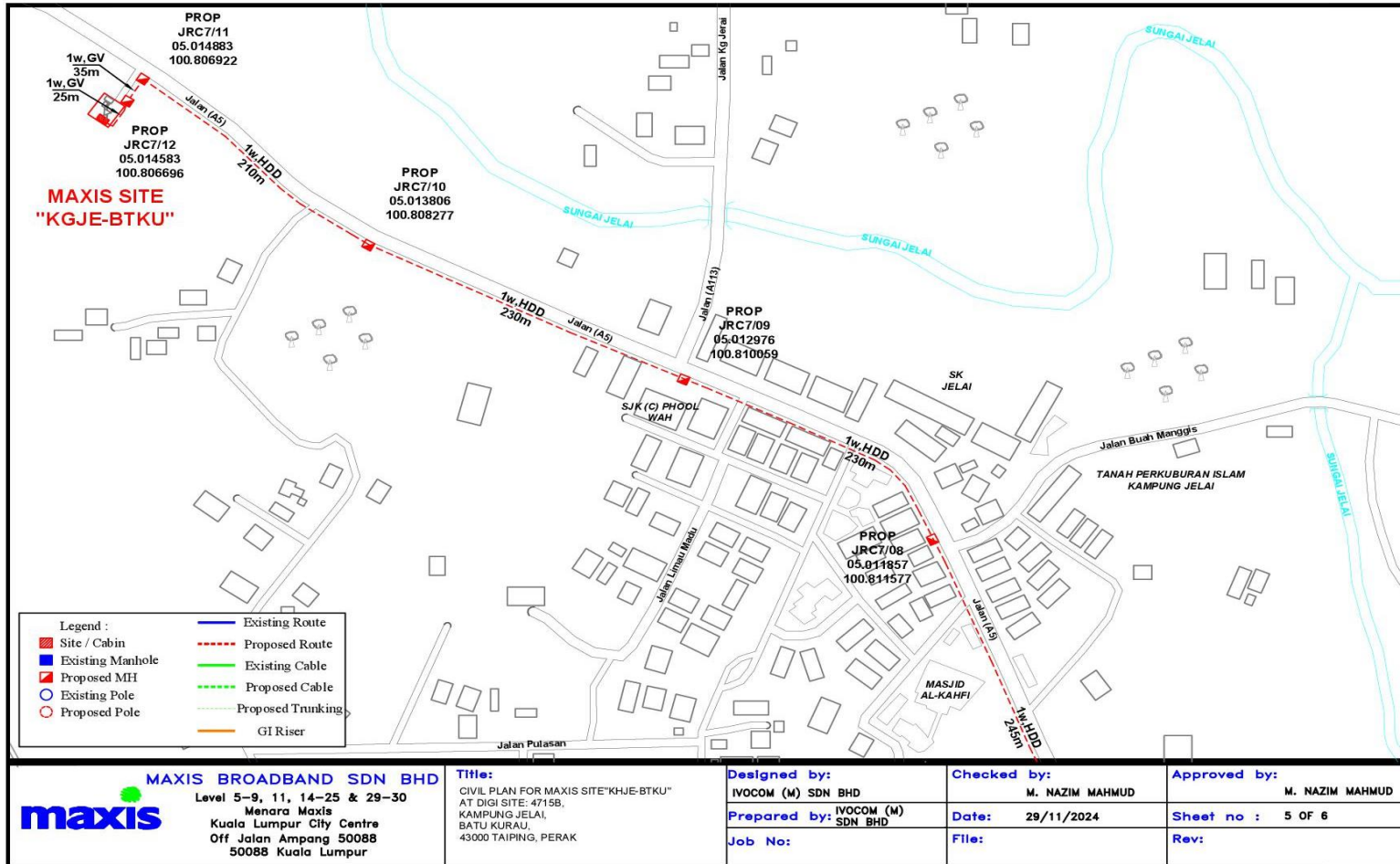


Permit Boundary



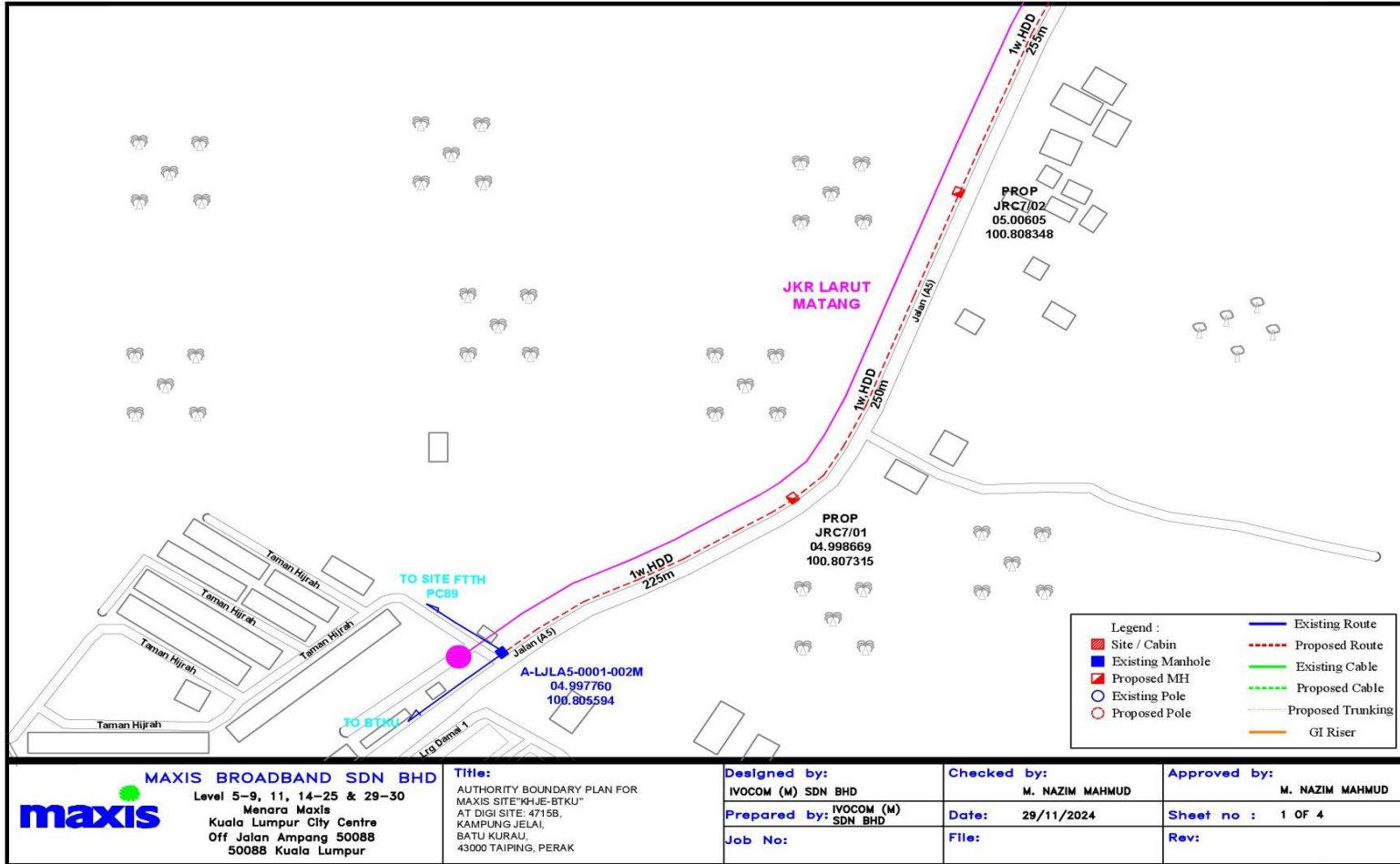
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LEGEND





MAXIS BROADBAND SDN BHD
 Level 5-9, 11, 14-25 & 29-30
maxis
 Menara Maxis
 Kuala Lumpur City Centre
 Off Jalan Ampang 50088
 50088 Kuala Lumpur

Title:
 AUTHORITY BOUNDARY PLAN FOR
 MAXIS SITE "KHJE-BTKU"
 AT DIGI SITE: 4715B,
 KAMPUNG JELAI,
 BATU KURAU,
 43000 TAIPIING, PERAK

Designed by:
 IVOCOM (M) SDN BHD

Prepared by:
 IVOCOM (M) SDN BHD

Job No:

Checked by:
 M. NAZIM MAHMUD

Date: 29/11/2024

File:

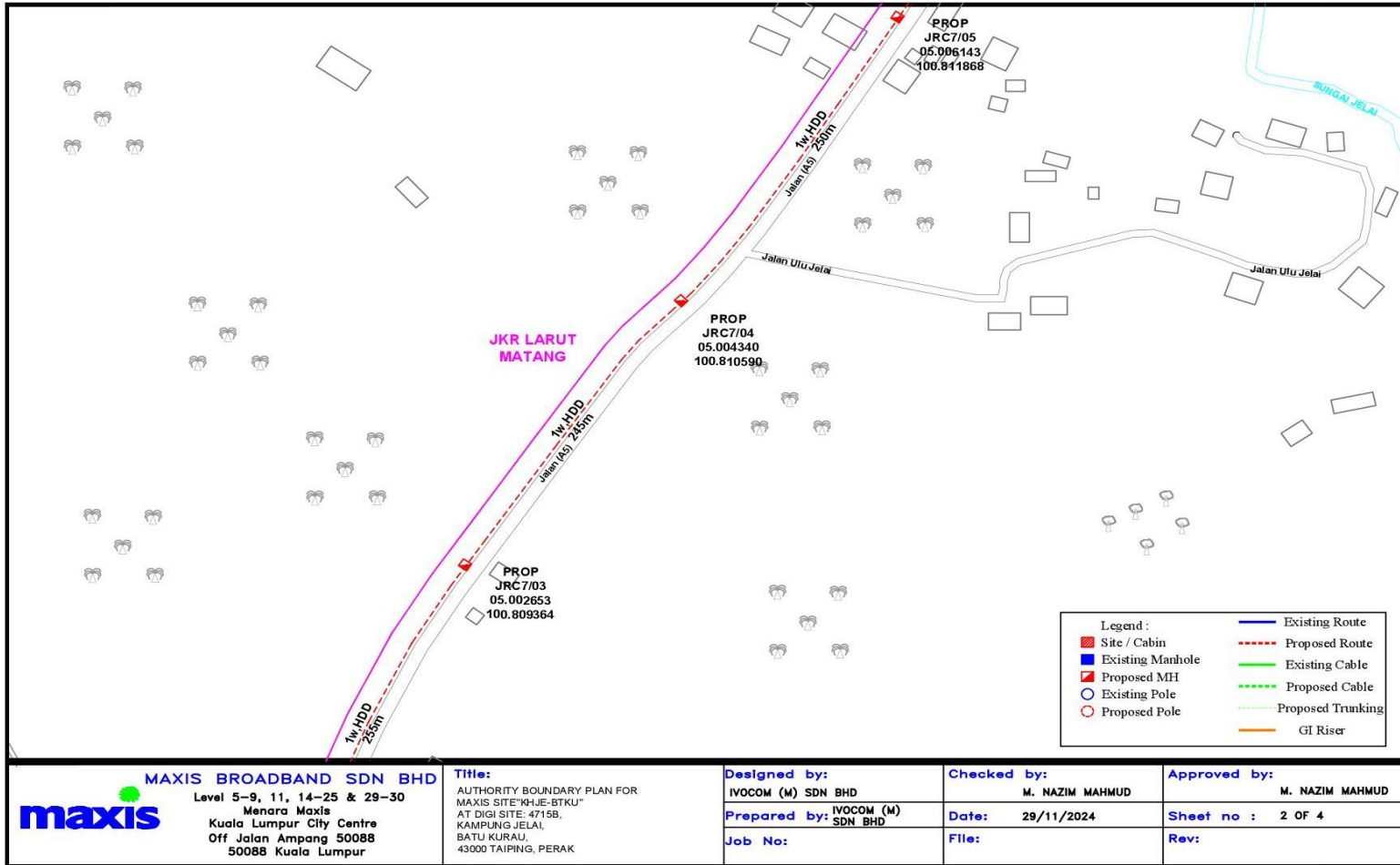
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 M. NAZIM MAHMUD

Sheet no : 1 OF 4

Rev:

LEGEND





LEGEND



Proposed MH



Existing MH



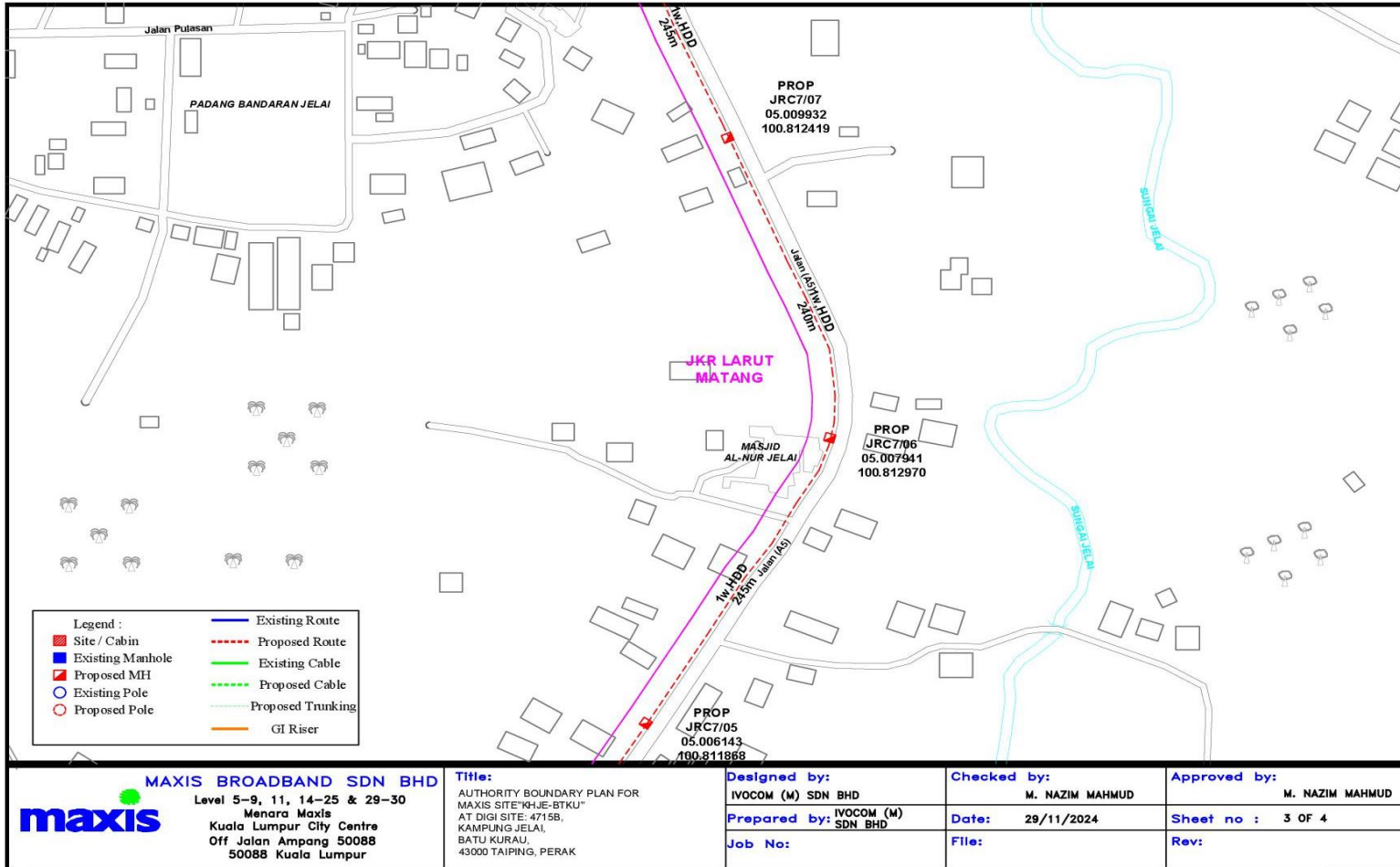
Proposed duct



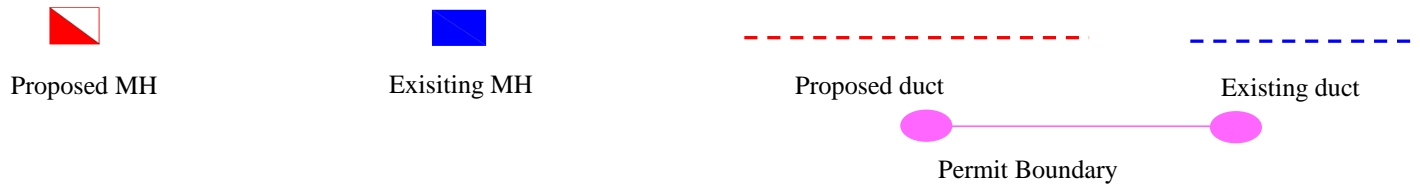
Existing duct

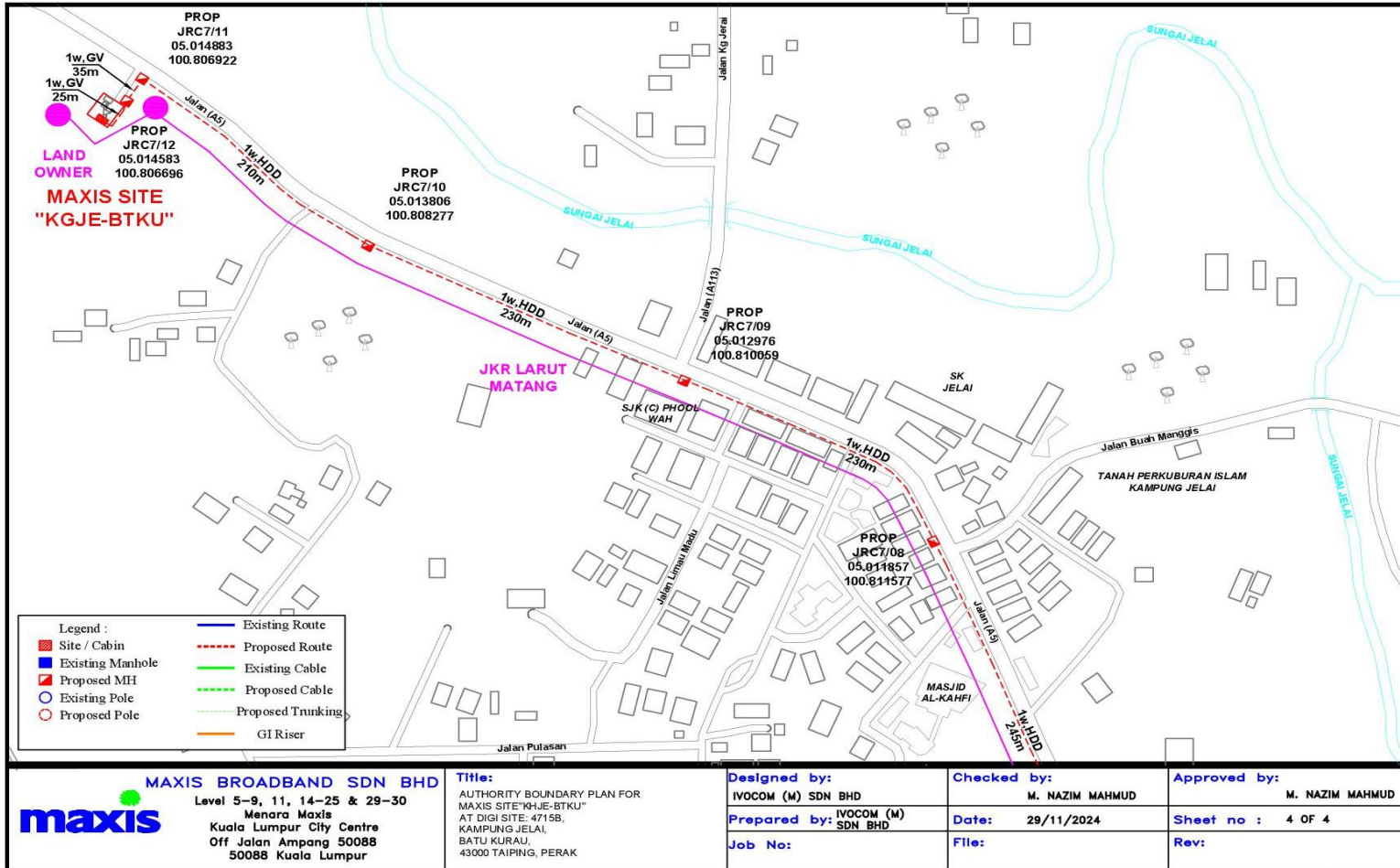


Permit Boundary



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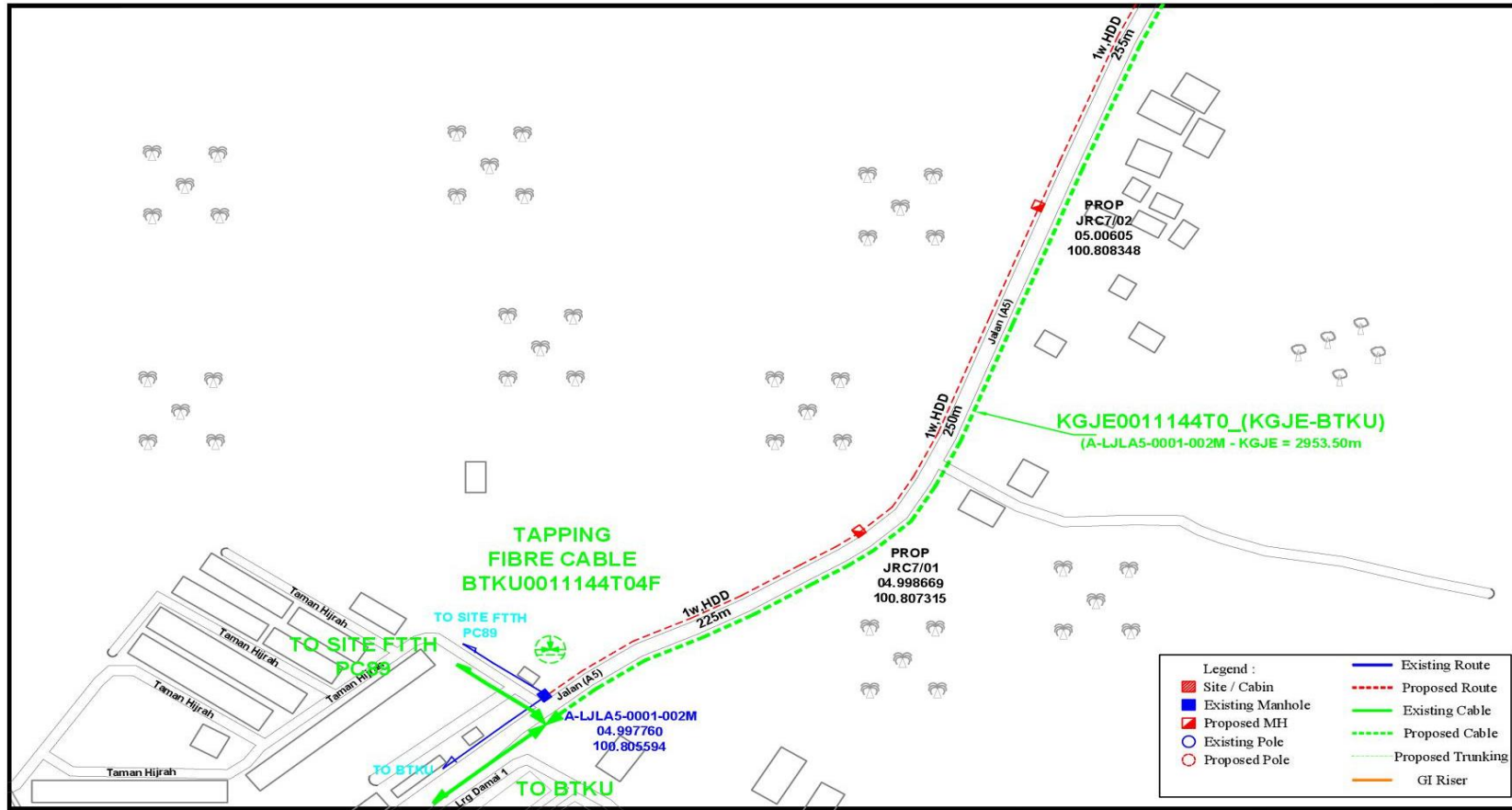
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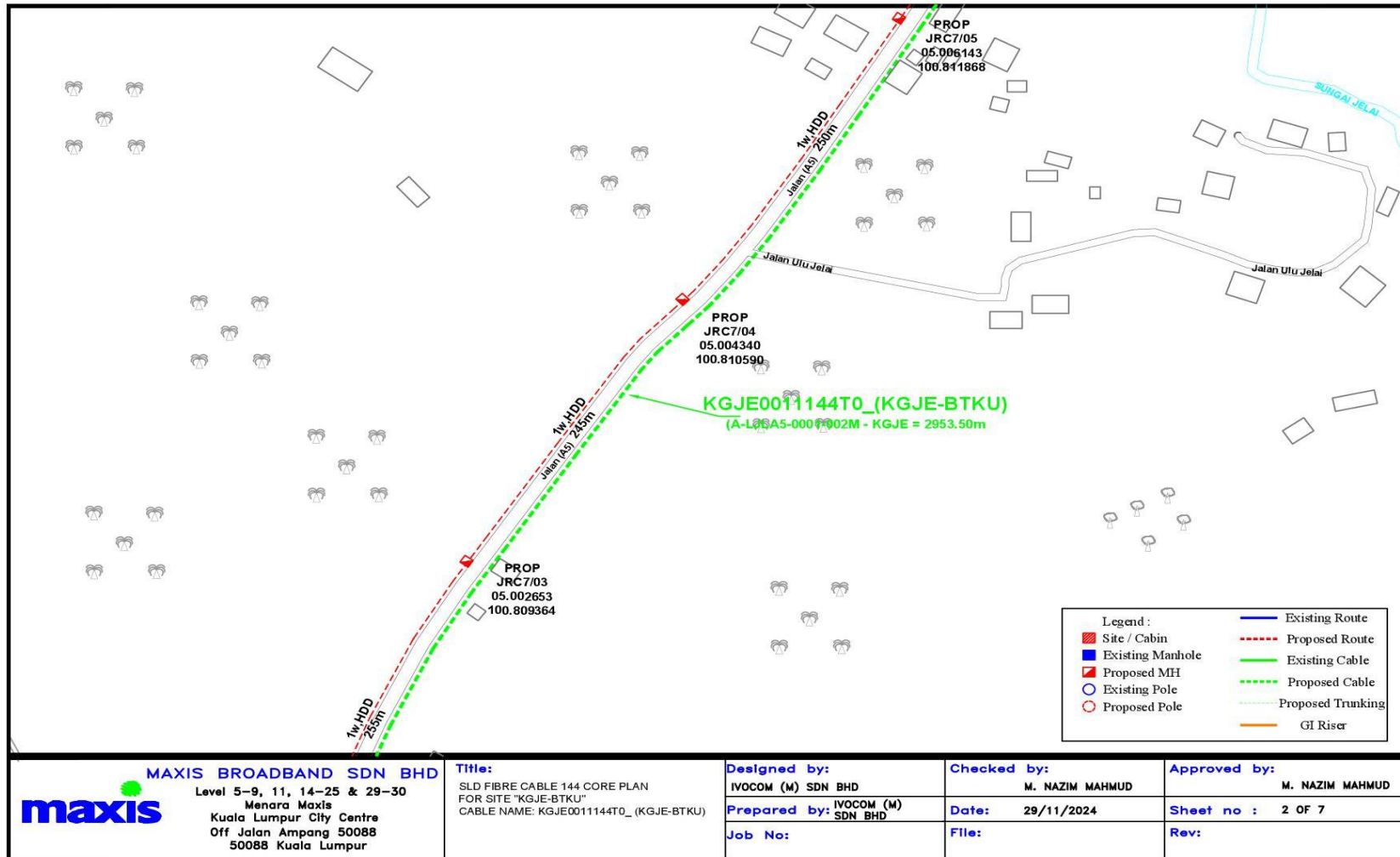
Section 6

**Cable Infrastructure
Route Plan
&
Proposed Cable Plan**





MAXIS BROADBAND SDN BHD Level 5-9, 11, 14-25 & 29-30 Menara Maxis Kuala Lumpur City Centre Off Jalan Ampang 50088 50088 Kuala Lumpur	Title: SLD FIBRE CABLE 144 CORE PLAN FOR SITE "KGJE-BTKU" CABLE NAME: KGJE0011144T0_(KGJE-BTKU)	Designed by: IVOCOM (M) SDN BHD	Checked by: M. NAZIM MAHMUD	Approved by: M. NAZIM MAHMUD
	Prepared by: IVOCOM (M) SDN BHD	Date: 29/11/2024	Sheet no : 1 OF 7	
	Job No:	File:	Rev:	



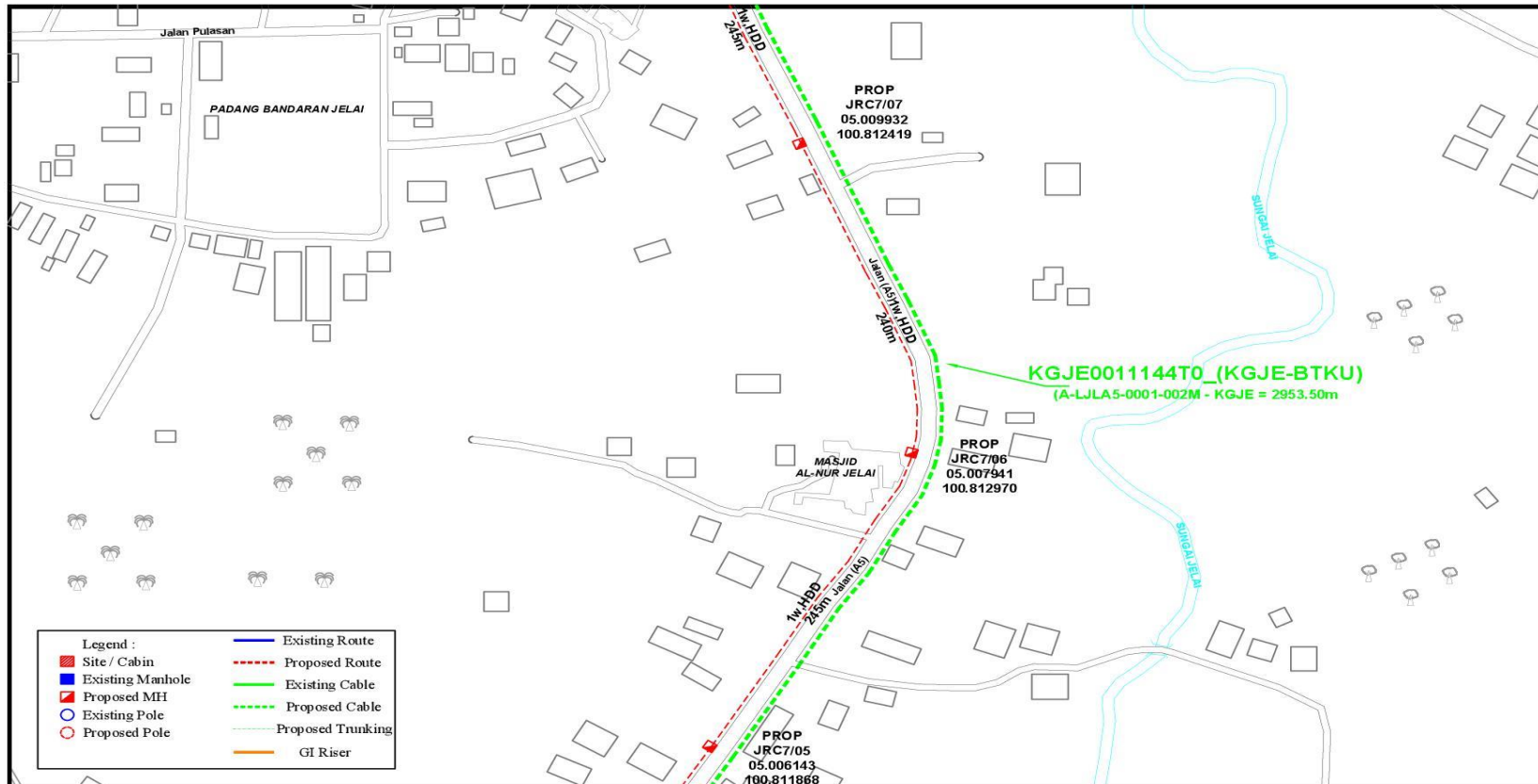
MAXIS BROADBAND SDN BHD
maxis
 Level 5-9, 11, 14-25 & 29-30
 Menara Maxis
 Kuala Lumpur City Centre
 Off Jalan Ampang 50088
 50088 Kuala Lumpur

Title:
 SLD FIBRE CABLE 144 CORE PLAN
 FOR SITE "KGJE-BTKU"
 CABLE NAME: KGJE0011144T0_(KGJE-BTKU)

Designed by:
 IVOCOM (M) SDN BHD
Prepared by: IVOCOM (M) SDN BHD
Job No:

Checked by:
 M. NAZIM MAHMUD
Date: 29/11/2024
File:

Approved by:
 M. NAZIM MAHMUD
Sheet no : 2 OF 7
Rev:



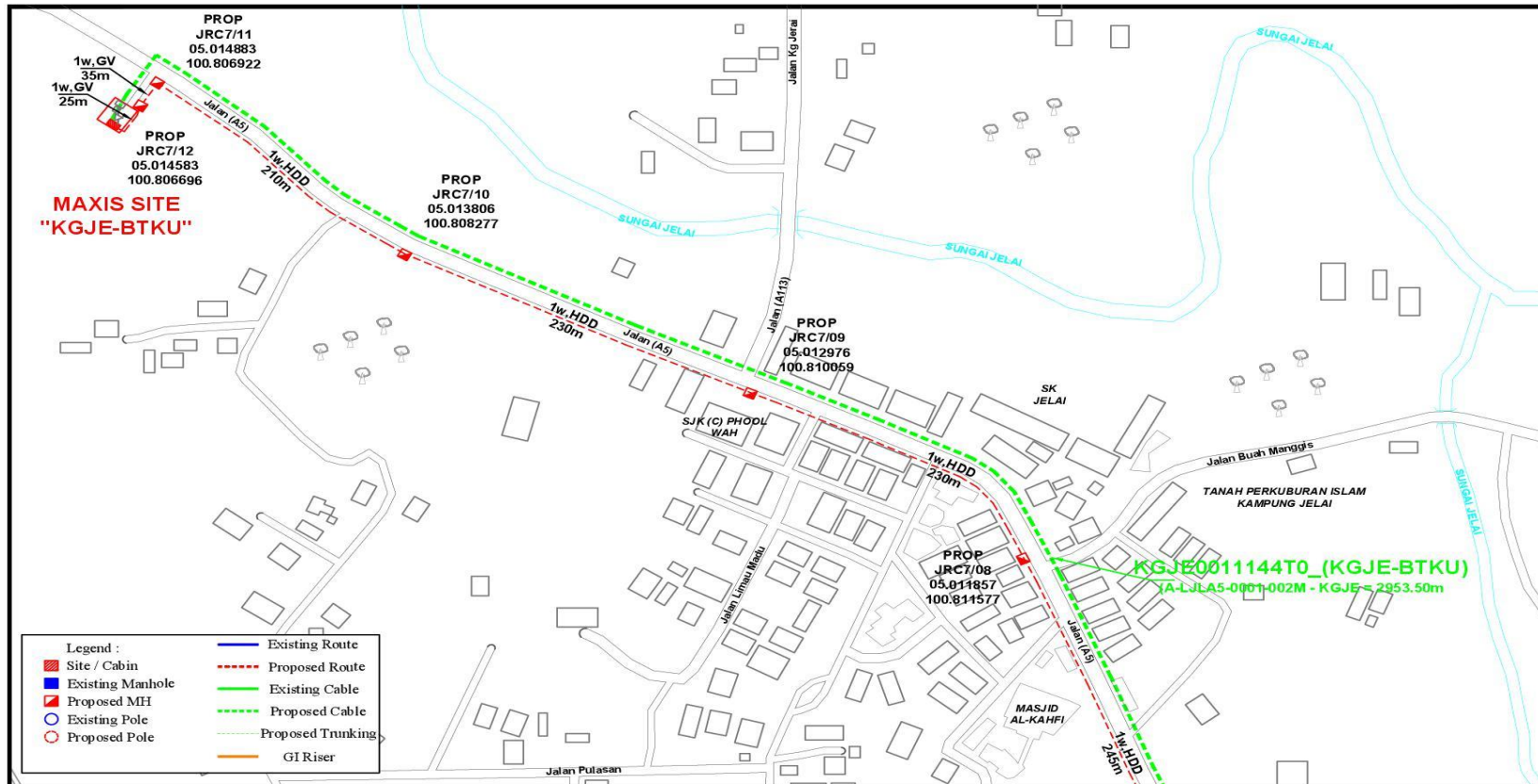
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 Menara Maxis
 Kuala Lumpur City Centre
 Off Jalan Ampang 50088
 50088 Kuala Lumpur

Title:
 SLD FIBRE CABLE 144 CORE PLAN
 FOR SITE "KGJE-BTKU"
 CABLE NAME: KGJE0011144T0_ (KGJE-BTKU)

Designed by:
 IVOCOM (M) SDN BHD
Prepared by:
 IVOCOM (M) SDN BHD
Job No:

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Date: 29/11/2024
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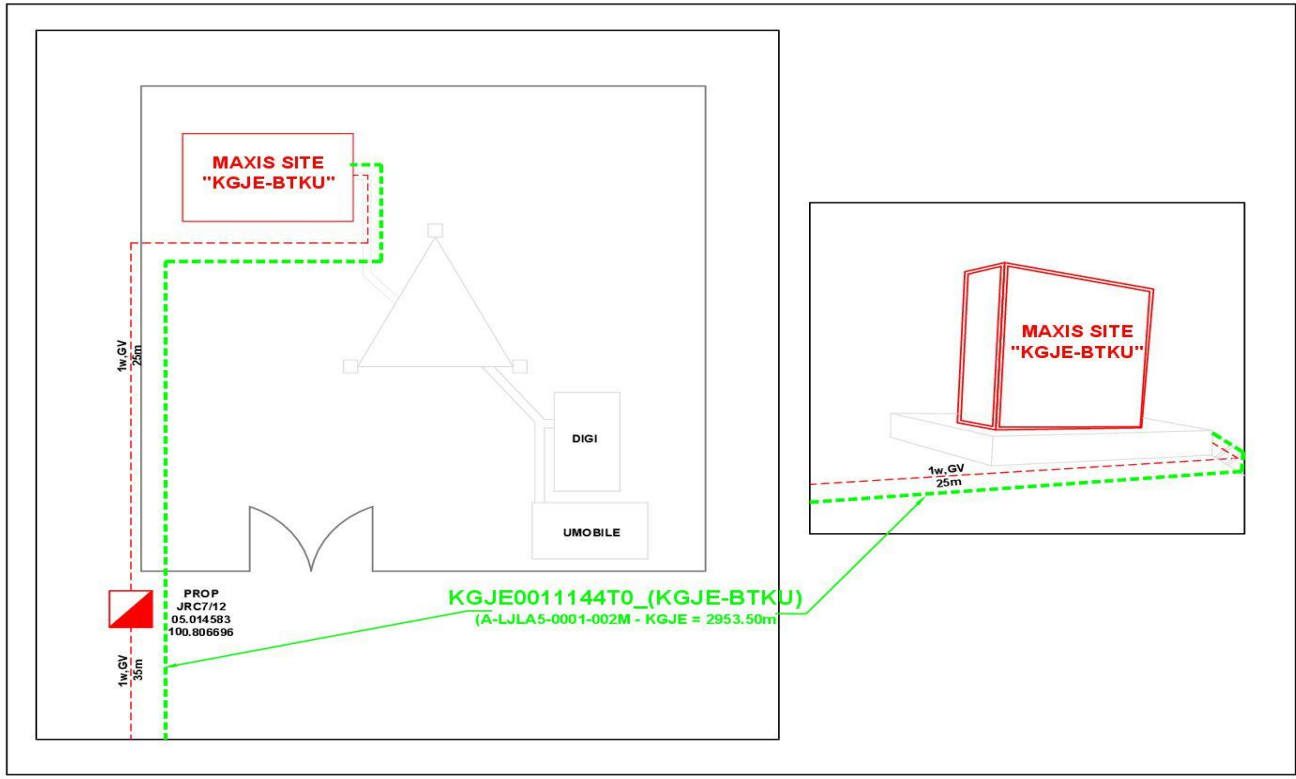
maxis **MAXIS BROADBAND SDN BHD**
 Level 5-9, 11, 14-25 & 29-30
 Menara Maxis
 Kuala Lumpur City Centre
 Off Jalan Ampang 50088
 50088 Kuala Lumpur

Title:
 SLD FIBRE CABLE 144 CORE PLAN
 FOR SITE "KGJE-BTKU"
 CABLE NAME: KGJE001144T0_ (KGJE-BTKU)

Designed by:
 IVOCOM (M) SDN BHD
Prepared by:
 IVOCOM (M) SDN BHD
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Approved by:
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Rev:



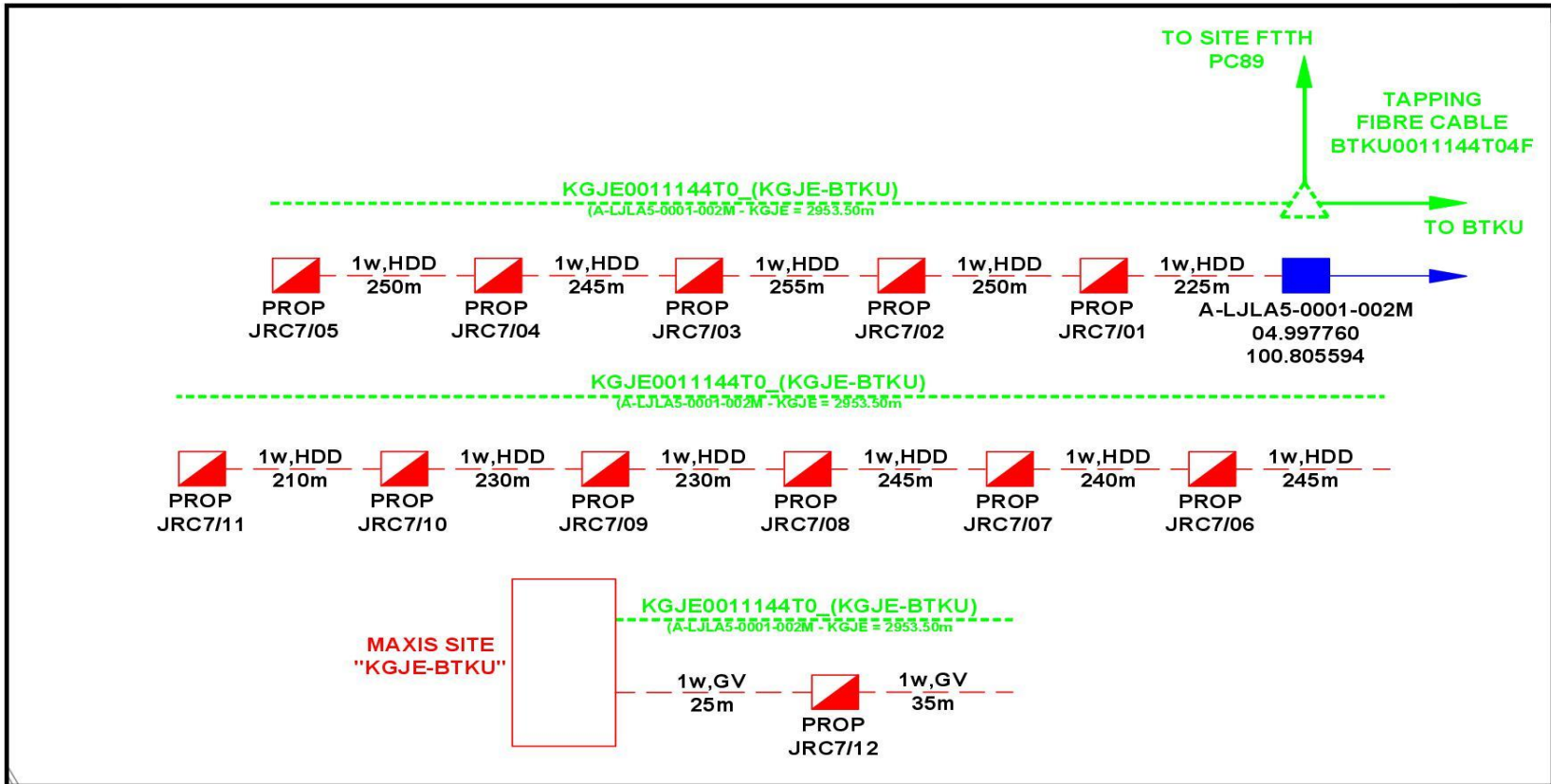

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 Level 5-9, 11, 14-25 & 29-30
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 50088 Kuala Lumpur

Title:
 SLD FIBRE CABLE 144 CORE PLAN
 FOR SITE "KGJE-BTKU"
 CABLE NAME: KGJE0011144T0_(KGJE-BTKU)

Designed by:
 IVOCOM (M) SDN BHD
Prepared by: IVOCOM (M)
 SDN BHD
Job No:

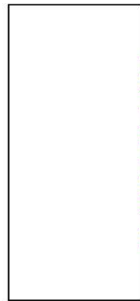
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Approved by:
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 MAXIS BROADBAND SDN BHD Level 5-9, 11, 14-25 & 29-30 Menara Maxis Kuala Lumpur City Centre Off Jalan Ampang 50088 50088 Kuala Lumpur	Title: SLD FIBRE CABLE 144 CORE PLAN FOR SITE "KGJE-BTKU" CABLE NAME: KGJE0011144T0_ (KGJE-BTKU)	Designed by: IVOCOM (M) SDN BHD Prepared by: IVOCOM (M) SDN BHD Job No:	Checked by: M. NAZIM MAHMUD Date: 29/11/2024 File:	Approved by: M. NAZIM MAHMUD Sheet no : 6 OF 7 Rev:

**MAXIS SITE
"KGJE-BTKU"**



- 01 - 12
- 13 - 24
- 25 - 36
- 37 - 48
- 49 - 60
- 61 - 72
- 73 - 84
- 85 - 96
- 97 - 108
- 109 - 120
- 121 - 132
- 133 - 144

KGJE0011144T0_(KGJE-BTKU)
(A-LJLA5-0001-002M - KgJE = 2953.50m)

**TO SITE FTTH
PC89**

**TAPPING
FIBRE CABLE
BTKU0011144T04F**

TO BTKU

**A-LJLA5-0001-002M
04.997760
100.805594**

MAXIS BROADBAND SDN BHD

 Level 5-9, 11, 14-25 & 29-30
 Menara Maxis
 Kuala Lumpur City Centre
 Off Jalan Ampang 50088
 50088 Kuala Lumpur

Title:
 SLD FIBRE CABLE 144 CORE PLAN
 FOR SITE "KGJE-BTKU"
 CABLE NAME: KGJE0011144T0_(KGJE-BTKU)

Designed by:
 IVOCOM (M) SDN BHD
Prepared by: IVOCOM (M)
 SDN BHD
Job No:

Checked by:
 M. NAZIM MAHMUD
Date: 29/11/2024
File:

Approved by:
 M. NAZIM MAHMUD
Sheet no : 7 OF 7
Rev:

MAXIS BROADBAND SDN BHD.

CABLE CUTTING PLAN

PROJECT DETAIL (OSP)	:	
PROJECT NAME	:	PROPOSED NEW CABLE FIBRE 144 CORES TO SITE "KGJE-BTKU"
PROJECT TYPE	:	
TITLE	:	
PROJECT CADE	:	
CONTRACTOR	:	IVOCOM (M) SDN.BHD.
PROJECT MANAGER	:	
LOCATION	:	AT DIGI SITE: 4715B, KAMPUNG JELAI, BATU KURAU, 43000 TAIPING, PERAK
QUANTITY REQUESTED	:	
REQUIRED DATE	:	

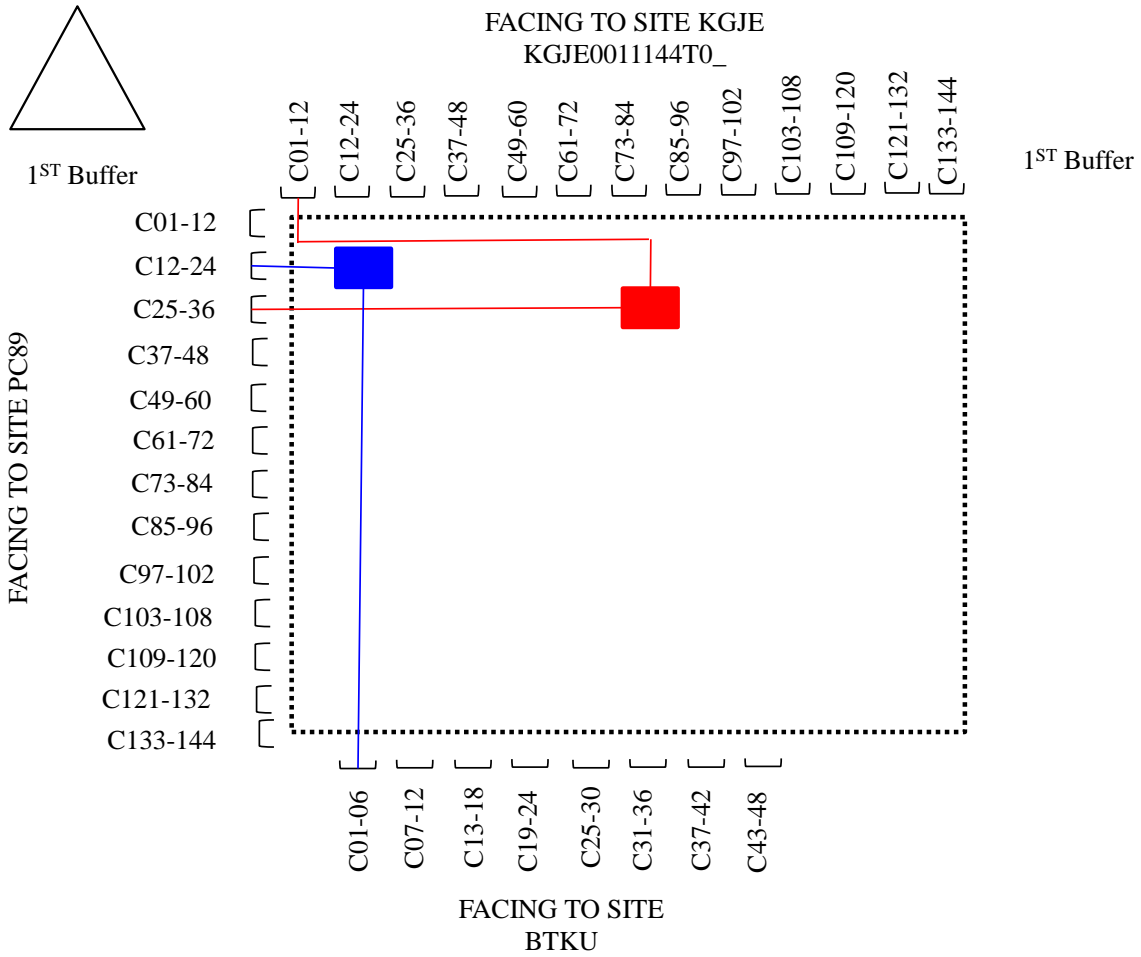
NO	SECTION			CABLE SIZE	ROUTE DISTANCE (METER)	CABLE ALLOWONES (METER)	ACTUAL CABLE LENGTH	SPLICING/TERMINATION POINT	REMARKS
1	A-LJLA5-0001-002M	TO	PROP JRC7/01	144CORE	225	22.50	247.50	TAPING	EXIST MAXIS MH
2	PROP JRC7/01	TO	PROP JRC7/02	144CORE	250	25.00	275.00		
3	PROP JRC7/02	TO	PROP JRC7/03	144CORE	255	25.50	280.50		
4	PROP JRC7/03	TO	PROP JRC7/04	144CORE	245	24.50	269.50		
5	PROP JRC7/04	TO	PROP JRC7/05	144CORE	250	25.00	275.00		
6	PROP JRC7/05	TO	PROP JRC7/06	144CORE	245	24.50	269.50		
7	PROP JRC7/06	TO	PROP JRC7/07	144CORE	240	24.00	264.00		
8	PROP JRC7/07	TO	PROP JRC7/08	144CORE	245	24.50	269.50		
9	PROP JRC7/08	TO	PROP JRC7/09	144CORE	230	23.00	253.00		
10	PROP JRC7/09	TO	PROP JRC7/10	144CORE	230	23.00	253.00		
11	PROP JRC7/10	TO	PROP JRC7/11	144CORE	210	21.00	231.00		
12	PROP JRC7/11	TO	PROP JRC7/12	144CORE	25	2.50	27.50		
13	PROP JRC7/12	TO	MAXIS SITE"KGJE"	144CORE	35	3.50	38.50	TERMINATION	MAXIS SITE"KGJE"
					2,685.00		2,953.50		

Section 7

Core Assignment Plan

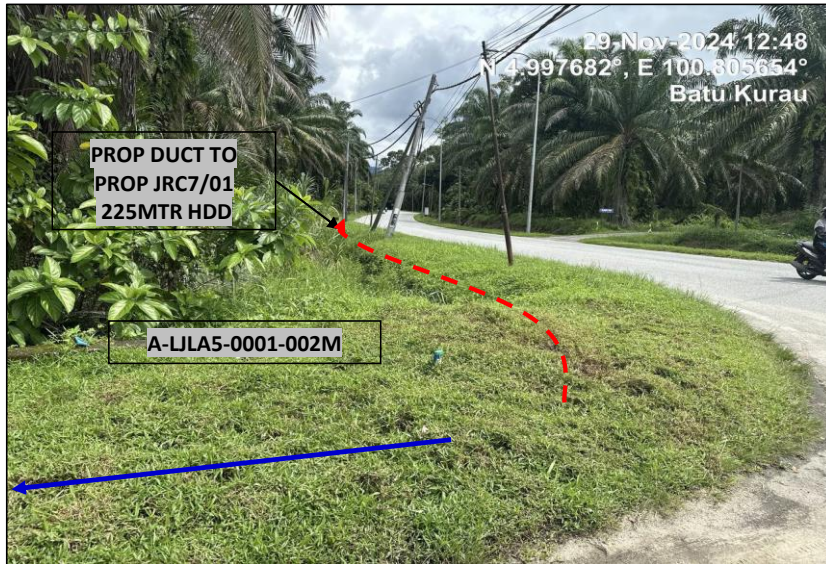


*Legend: *Blue* - existing (black line change to blue), *Red* - Proposed

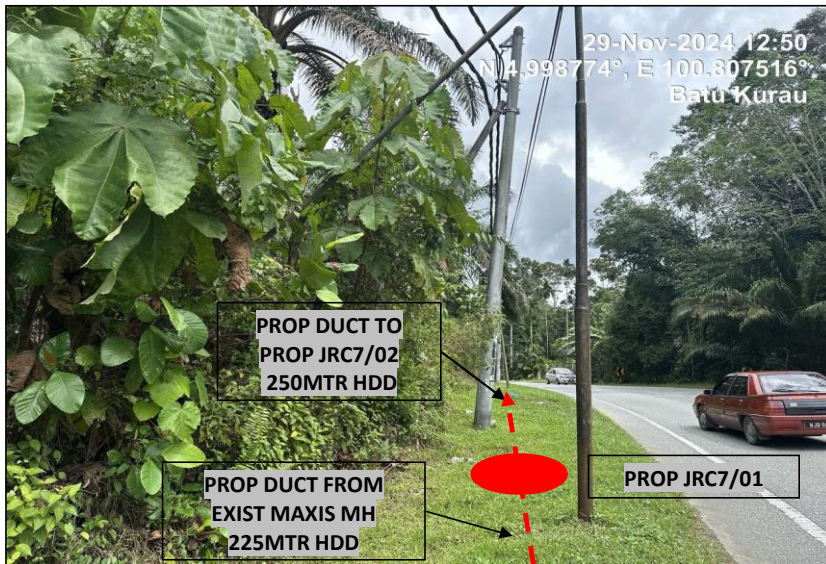


Section 8: Outside Plant Site Snapshot

Photo 1

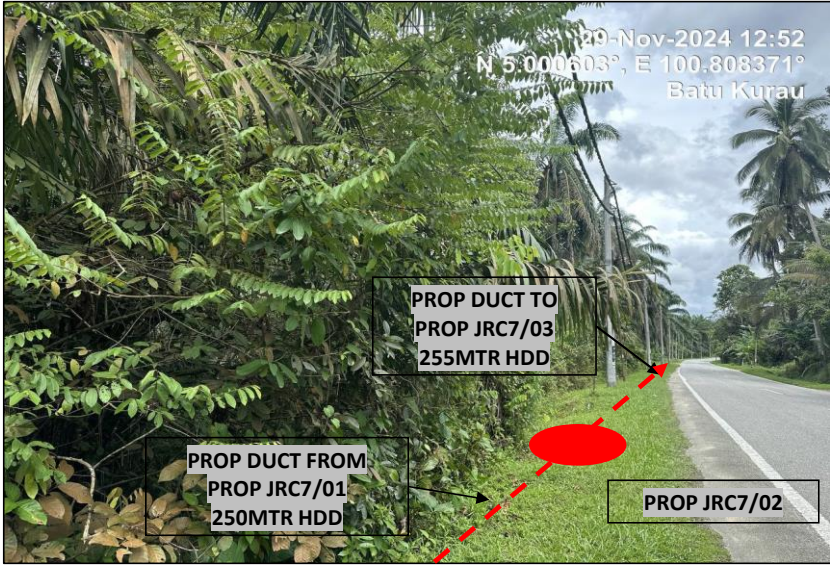


LOCATION AT JALAN (A5)

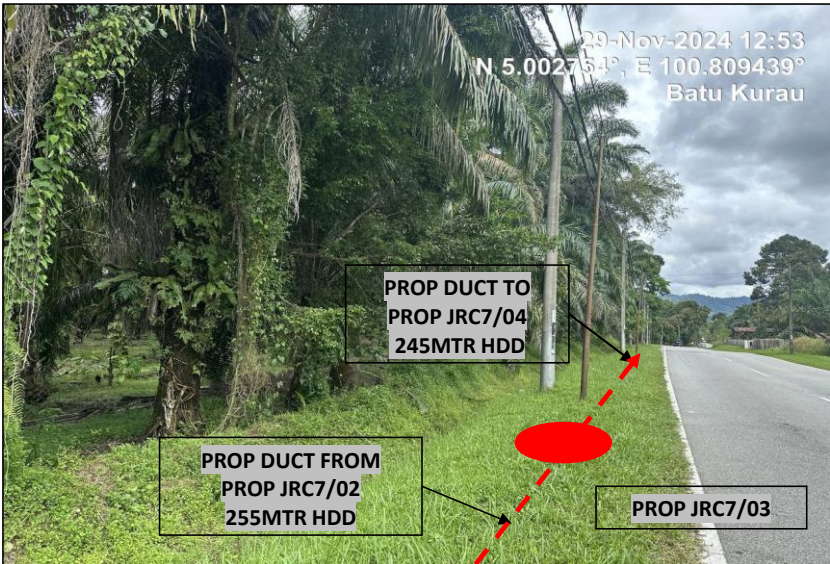


LOCATION AT JALAN (A5)

Photo 2



LOCATION AT JALAN (A5)

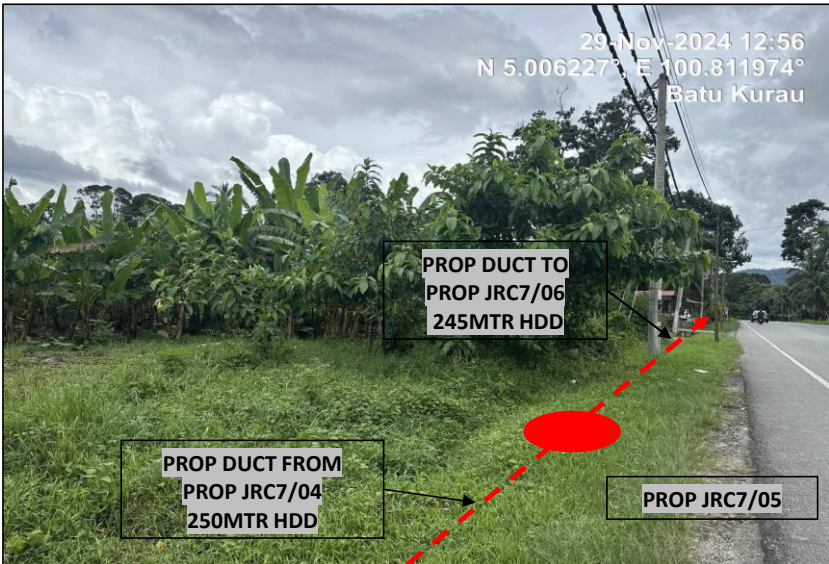


LOCATION AT JALAN (A5)

Photo 3

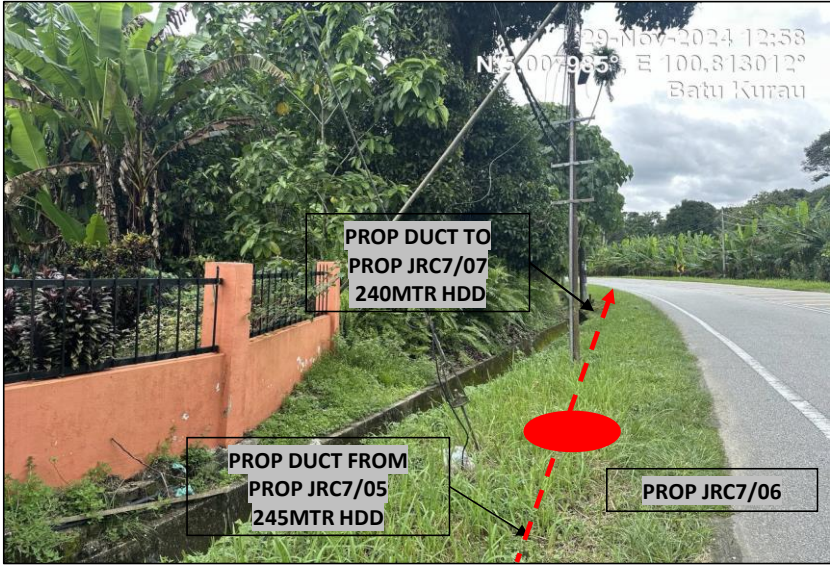


LOCATION AT JALAN (A5)



LOCATION AT JALAN (A5)

Photo 4



LOCATION AT JALAN (A5)



LOCATION AT JALAN (A5)

Photo 5



LOCATION AT JALAN (A5)



LOCATION AT JALAN (A5)



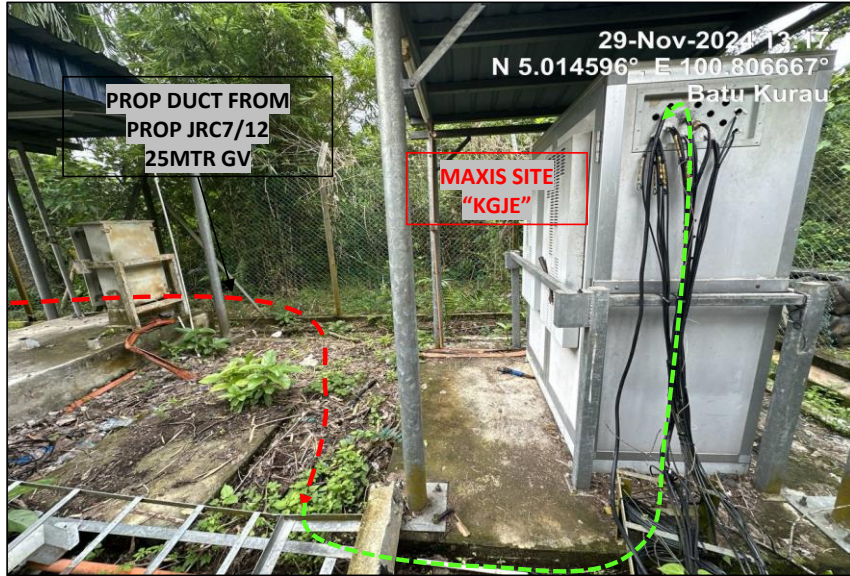
Ivocom (M) Sdn.Bhd.



Section 9: Cabin Snapshot & Floor Plan

Schematic Plan

Photo 1

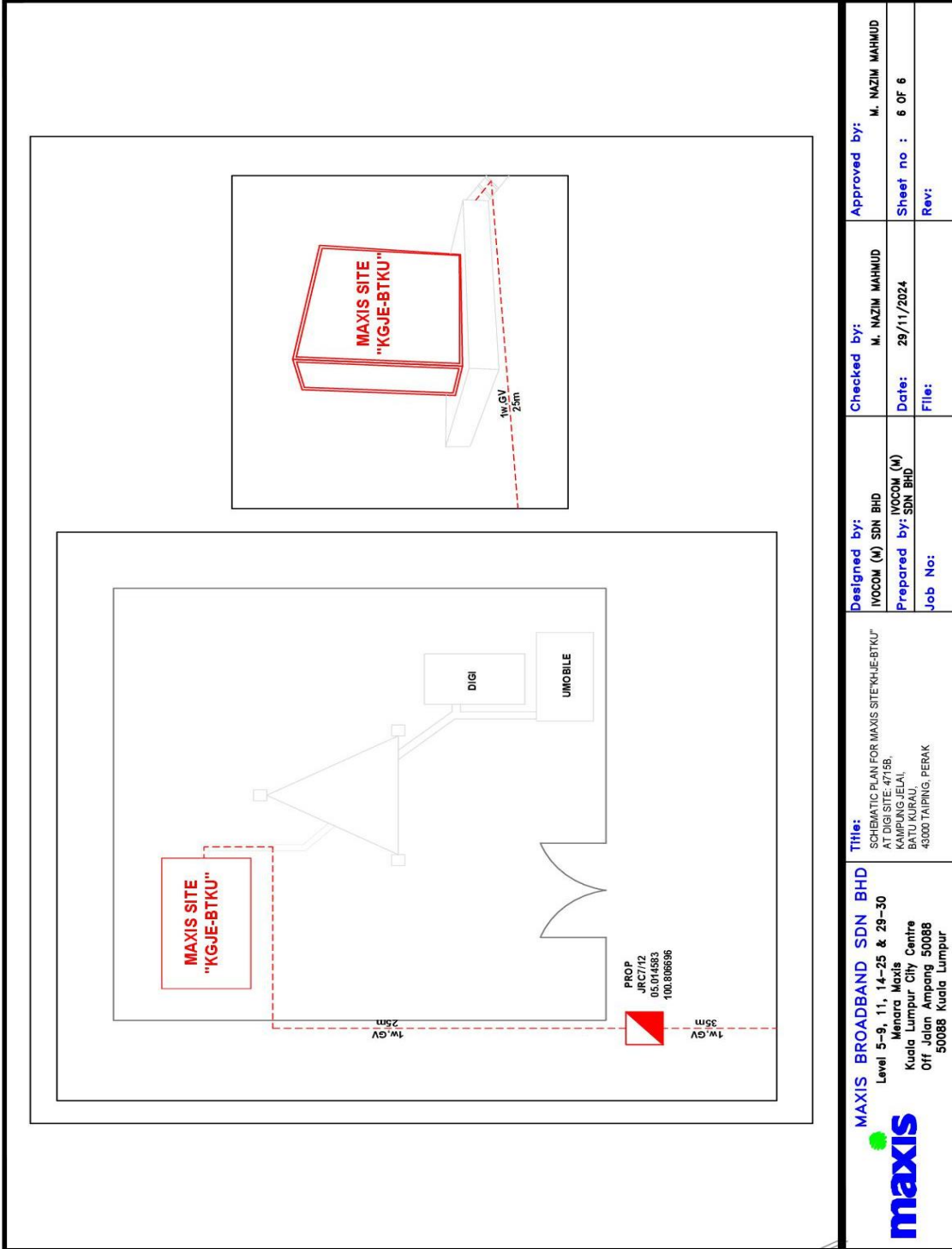


LOCATION AT MAXIS SITE KGJE



LOCATION AT MAXIS SITE KGJE

Floor Plan



 MAXIS BROADBAND SDN BHD Level 5-9, 11, 14-25 & 29-30 Menara Maxis Kuala Lumpur City Centre Off Jalan Ampang 50088 50088 Kuala Lumpur	Title: SCHEMATIC PLAN FOR MAXIS SITE "KGJE-BTKU" AT DIGI SITE- 4715B, KAMPUNG JELAI, BATU KURAU, 43000 TAIPING, PERAK	Designed by: IVOCOM (M) SDN BHD	Checked by: M. NAZIM MAHMUD	Approved by: M. NAZIM MAHMUD
	Prepared by: SDN BHD	Date: 29/11/2024	Job No:	File:
Rev:				

Section 10: Internal Trenching Permit/Snapshot

Photo 1

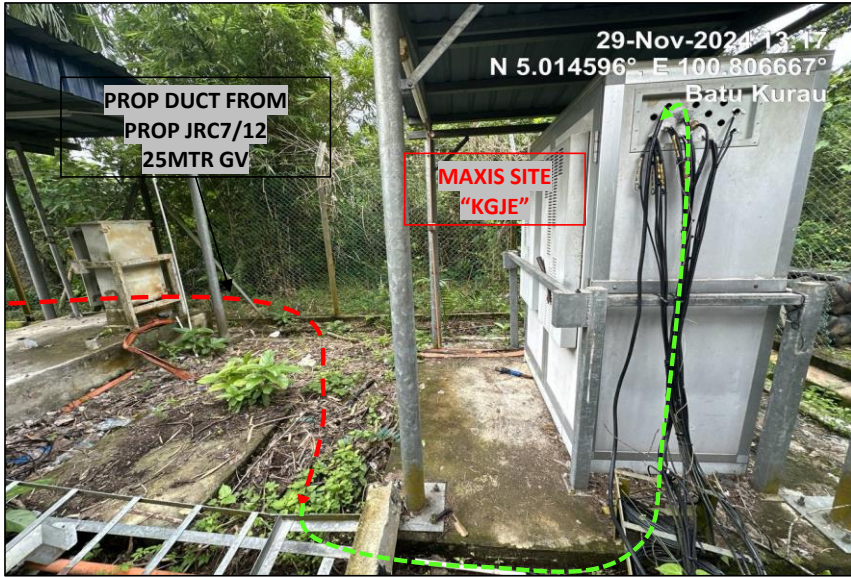


LOCATION AT MAXIS SITE KGJE



LOCATION AT MAXIS SITE KGJE

Photo 2



PROP DUCT FROM
PROP JRC7/12
25MTR GV

MAXIS SITE
"KGJE"

29-Nov-2024 13:17
N 5.014596°, E 100.806667°
Batu Kurau

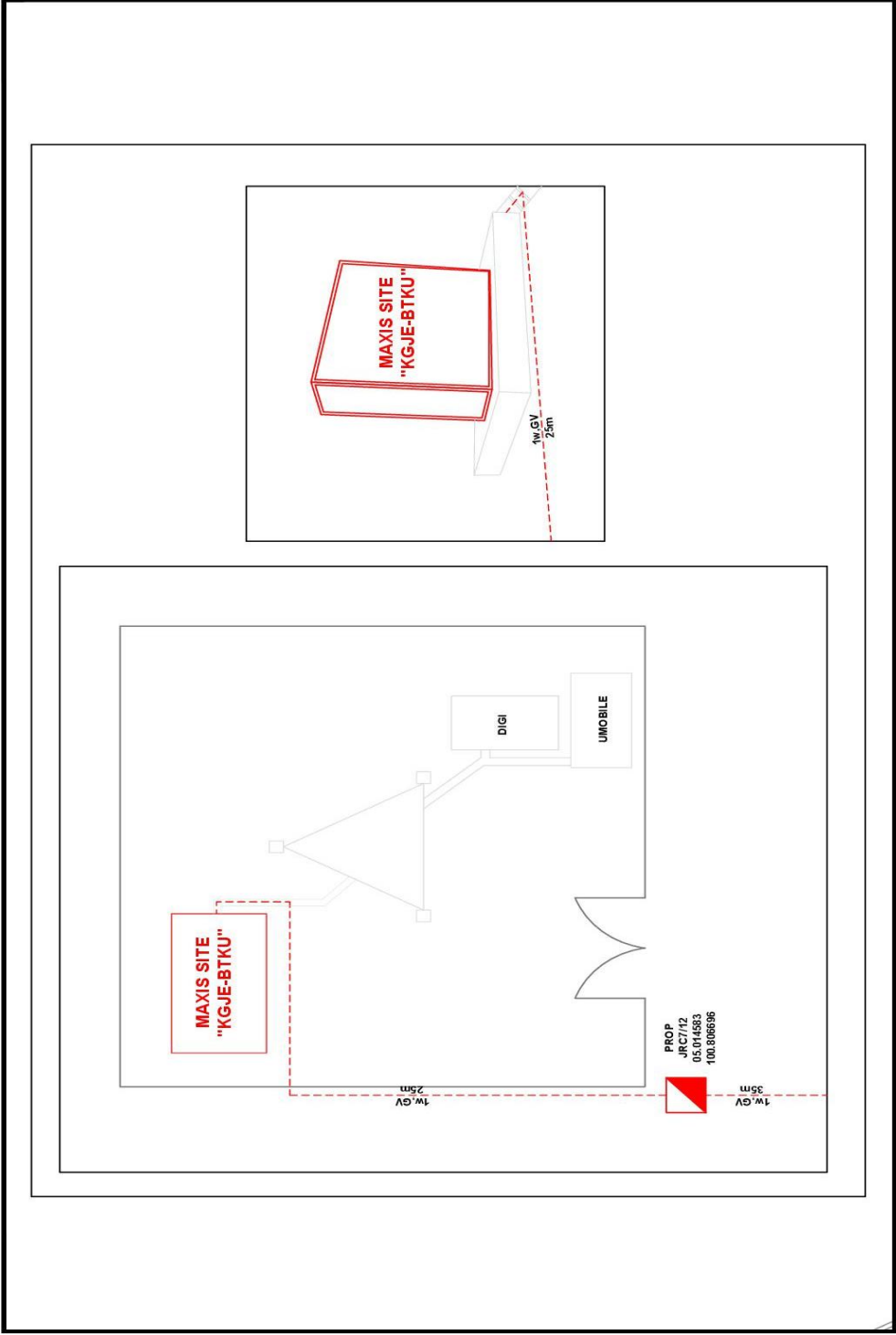
LOCATION AT MAXIS SITE KGJE



MAXIS SITE
"KGJE"

29-Nov-2024 13:15
N 5.014596°, E 100.806667°
Batu Kurau

LOCATION AT MAXIS SITE KGJE



MAXIS BROADBAND SDN BHD Level 5-9, 11, 14-25 & 29-30 Menara Maxis Kuala Lumpur City Centre Off Jalan Ampang 50088 50088 Kuala Lumpur	Title: SCHEMATIC PLAN FOR MAXIS SITE "KGJE-BTKU" AT DIGI SITE: 47158, KAMPUNG JELAI, BATU KURAU, 43000 TAIPIING, PERAK	Designed by: IVOCOM (M) SDN BHD Prepared by: SDN BHD	Checked by: M. MAZIM MAHMUD Date: 29/11/2024 File:	Approved by: M. MAZIM MAHMUD Sheet no : 6 OF 6 Rev:
	Job No:			

