



**TECHNICAL PROPOSAL FOR  
SO: CIVIL & FIBER WORKS AT  
UNIVERSITY PENDIDIKAN SULTAN  
IDRIS (KAMPUS SULTAN AZLAN  
SHAH), PROTON CITY.**

**LOCATION : 3.72272, 101.52664**



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- 4.1 BILL OF QUANTITY (BOQ)



## TP CHECKLIST

<b>Building Name : PUSAT ICT KAMPUS SULTAN AZLAN SHAH</b>				
<b>Date of LOI :</b>				
<b>Date of Survey: 21/05/2024</b>				
	DESCRIPTION	YES	NO	REMARKS
1	TDC existing manhole coordinate	√		Lat: 3.658763, Long: 101.541431
2	Existing building manhole coordinate	√		Lat: 3.725529 Long: 101.528264
3	Any Gas pipe signage seen at site? If YES, attach Photo		√	
4	Any TNB signage seen at site? If YES, attach Photo		√	
5	Any crossing drainage? If YES, attach photo & width of the drainage		√	
6	Any INDAH WATER manhole seen at site? If YES, attach Photo		√	
7	Any crossing traffic light? If YES, attach photo & measurement of the traffic light box		√	
8	Has identified Local Authority? Kindly indicate.	√		JKR TANJUNG MALIM
9	Drawing for outside plant (OSP) survey - Building Access & civil work up to last TIME manhole (.dwg format - autocad & .pdf format) *	√		
10	Drawing for inside plant (ISP) survey - MDF up to riser (.dwg format - AutoCAD & .pdf format) *		√	
11	Prepare the complete 1 copy of Technical Proposal (.pdf format & Word Format) –of softcopy – 1 copy	√		
12	Bill of Quantity for civil, fibre pulling, splicing & termination	√		
13	The latitude & longitude of the building location, last TIME manhole and building manhole in 6 decimal points (xx.xxxxxx, x.xxxxxx) in TP Location Map	√		
14	Open up the manhole at any spot of joint/ring cut & provide duct space record for this project (photo required). Please make sure that there is TIME cable in the manhole (photo required). <b>If unable to open up the manhole, photo of manhole surrounding is required.</b>		√	
15	Survey Acknowledgement Form signed & attached		√	
16	Others			



## GENERAL INFORMATION

### General Information

Building Name : ICT Centre, Sultan Idris Education University  
Full Address: ICT Centre, Sultan Idris Education University, Proton City,  
35950 Proton City, Perak  
Type of Development:  
No of Unit:  
No of Storey per Block:  
No of Blocks per Dev :

### Contact Person

#### Management

Name: Mohd Zaimiruddin Mohamed H/P 019-4547055  
Designation: Penolong Pegawai Tel N/A  
Email Address:

### Maintenance / Security Department

Name: NA H/P NA  
Designation: NA Tel NA  
Email Address: -

### Comments

#### For TimeDotComBhd Use Only

Remarks

Prepared by : TECOM ENERGY SDN BHD  
Date of LOI :  
Date of Survey : 21/05/2024  
Surveyed by : TECOM ENERGY SDN BHD  
Drawing Prepared by : TECOM ENERGY SDN BHD  
Eng. Person In charge : -



Technical Information	
Distance TIME existing manhole to development	
MAN to CAN method	2W HDD 10250M
Number of Hub-Box proposed	0
Number of Sub-Box proposed	0
Number of End-Box proposed	0
Number of Storage Box proposed	0
Number of Single Closure proposed	0
Number of Port proposed	144
Number of closure Ringcut Proposed	1
Number of Distribution Cable proposed	
1- 50m	0
2- 100m	0
3- 150m	0
4- 200m	0
5- 250m	0
6- 300m	0
OLT (Outdoor/Indoor) proposed	
Method of CAN	VIA HDD
Method of CAN exit to HomeConnect	Via existing cable tray

Construction Detail			
Descriptions	Method	Unit(s)	Quantity
Civil	HDD	Meter	10250
	MCT (HDPE)	Meter	
	New JRC7	Each	41
	Hack MH	Each	
	Coring	Each	
Fiber Pulling :			
FOC 144C	NEW Duct	Meter	11140
	New G.I pipe	Meter	
Connector 1C	Ext.duct & pits	Meter	
	Clip on wall	Meter	
	New trunking	Meter	
Others (Please Splecify)			
MCT Crossing Road	G.I 50MM	Meter	
	HDPE 40MM	Meter	
OPCW	HDPE 40MM	Meter	
OPCW (MH)	G.I 100MM	Meter	
OPGV	HDPE 40MM	Meter	
OPGV (MH)	G.I 100MM	Meter	
Install new metal trunking 2x2	New trunking	Meter	

Comment :

For Contractor Use Only :

Based on our detail survey, evaluation study and due diligent conducted,  
We strongly proposed the above stated technical details to be implemented at  
this site.

For Client Use Only



## PROPOSAL FOR FIXED ACCESS

### 1.1 Introduction

1.1.1 TIME dot Com offers a wide variety of fixed-line telecommunications services. As part of our commitment to provide our customers with the best possible solutions to serve all their communications needs; we aim to enhance telecommunication services in your building to offer your tenants with High Speed Internet, Data and Voice connectivity. Your premises will be enhanced today for tomorrow's communication and IT requirements. With that, we provide a choice of Service Providers to your tenants and your building gains a future-proof communication infrastructure.

1.1.2 A physical infrastructure link to the building is the main access to deliver services to the tenants. The typical link required is through fiber optic cable.

1.1.3 In order to support the services, TIME dot Com (TdC) require an access to the building MDF rooms in order to provide services to the end user.

1.1.4 To be able to deliver these services to your building, we will pull our own fiber optic cables from our nearest hub and place our access equipments into building MDF rooms and telephone riser closet.

In order to reach tenants at each floor of the buildings, we will utilize existing D-side internal cabling of building MDF room via telephone riser room before it branches out to each floor/lot of the building.

1.1.5 With this setup we will have TdC connection right up to each floor of the building.

### 1.2 External and Internal Trenching

1.2.1 The propose route will be implemented from proposed TIME MH01 located at Jalan Kuala Lumpur Tanjung Malim to proposed NEW TIME MH41 located at Proton City Hwy.

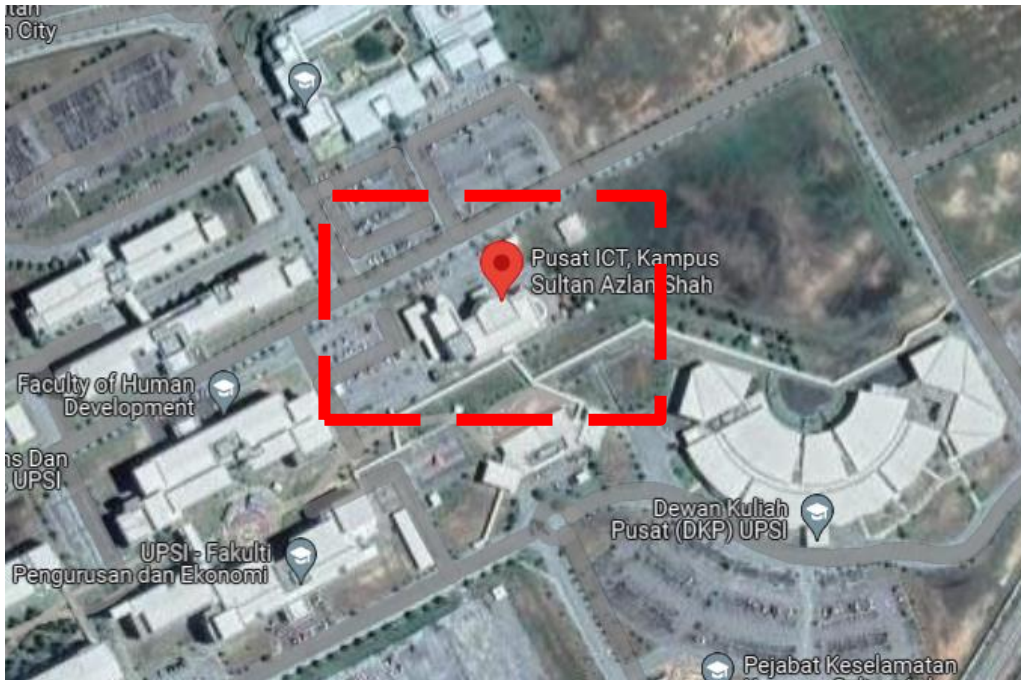
1.2.2 The permission to trench is under the identified local authority jurisdiction (JKRTM) and to be applied separately if necessary.

1.2.3 This proposal based on assumption that there is fiber cable to be connected in the poposed TIME manhole.



### **1.3 Cabling and Ducting**

- 1.3.1 TDC will use the existing duct to pull new 144C optical fiber cable from existing TTdC manhole to the proposed TTdC manhole via HDD 2W proposed route. TTdC also propose to utilize the existing BMH route.
- 1.3.2 In near future, TIME dot Com also like to propose to pull optical fiber cable for GPON services that require optical interface equipment up to customer.



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## 2. APPENDIX A

### 2.1 Product Portfolio

TIME DOT COM CONNECTIONS FOR COMMERCIAL	
<b>Private Data Network</b>	<p>Our Virtual Private Network (VPN) is designed to deliver you an efficient, secured and reliable service. We provide point-to-point technology that directly connects you to your clients and employees. We ensure complete privacy and security, while at the same time, maximizing your speed and bandwidth;</p> <ul style="list-style-type: none"> <li>⇒ Channelized Leased Circuit</li> <li>⇒ Ethernet Leased Circuit</li> <li>⇒ International Private Leased</li> <li>⇒ Circuit (IPLC)</li> <li>⇒ Metro LAN</li> <li>⇒ International Ethernet Private Leased Circuit (IEPLC)</li> </ul>
<b>Internet</b>	<p>TIME Internet services allow you to connect to the world speedily with high scalability, reliability and security. Choose the best solution that suits your need and TIME will take care of the rest;</p> <ul style="list-style-type: none"> <li>⇒ Channelized Direct</li> <li>⇒ Ethernet Direct</li> <li>⇒ Business Broadband</li> <li>⇒ Satellite Broadband</li> <li>⇒ Home Broadband</li> </ul>
<b>Voice</b>	<p>We've got a wide range of services from basic phone line with crystal clear voice quality to our account based postpaid Virtual Call service. We also provide local and International toll free services, and even business or individual calling cards. With TIME, it's so easy to stay in touch;</p> <ul style="list-style-type: none"> <li>⇒ Business Voice Line</li> <li>⇒ ISDN PRI</li> <li>⇒ International Toll Free</li> <li>⇒ Toll Free 1300</li> <li>⇒ Toll Free 1800</li> <li>⇒ Audio Conferencing</li> <li>⇒ Home Fixed Line</li> </ul>
<b>Managed Services</b>	<p>TIME Managed Services deliver end-to-end networking solutions. Focus on your productivity while we provide you with support possible to take your business to the next level;</p> <ul style="list-style-type: none"> <li>⇒ IPVPN</li> <li>⇒ SAN Extension</li> </ul>
<b>Wholesale Service</b>	<p>We are able to offer you unmatched capacity and network resiliency. We aim to ensure seamless connectivity and high availability, thus maximizing your operational capabilities;</p> <ul style="list-style-type: none"> <li>⇒ Wholesale bandwidth</li> <li>⇒ Wholesale Voice (Transit Premium, Transit CLR)</li> <li>⇒ Cross Peninsular Cable System (CPCS)</li> </ul>

## **2.2 DRAWINGS**

**\*Civil Plan & Cable  
route**

**\*Single Line Drawing**

**Refer to attachment**

## 3. APPENDIX

### 3.1 SITE PHOTO



Proposed HDD/2W (30M) and pulling FOC 144C (40M) from TIME MH01 to Prop New TIME MH02



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH02 to Prop New TIME MH03

## 3. APPENDIX

### 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH03 to Prop New TIME MH04



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH04 to Prop New TIME MH05



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH05 to Prop New TIME MH06



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH06 to Prop New TIME MH07

## 3. APPENDIX 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH07 to Prop New TIME MH08



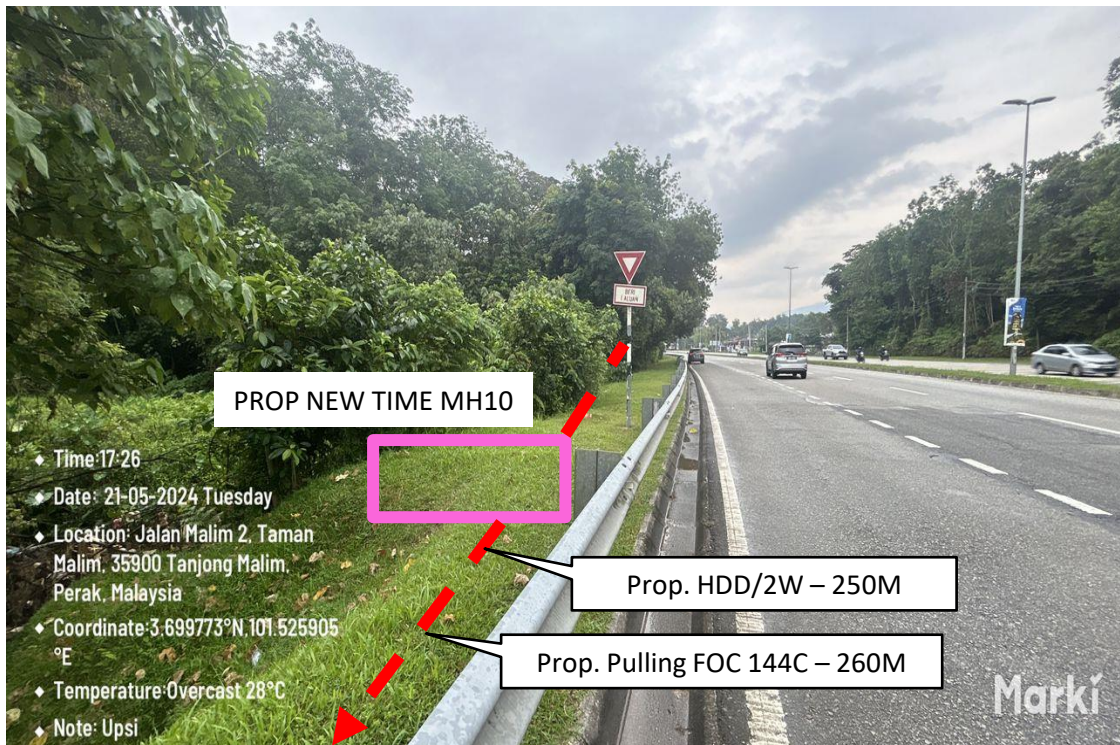
Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH08 to Prop New TIME MH09

## 3. APPENDIX

### 3.1 SITE PHOTO

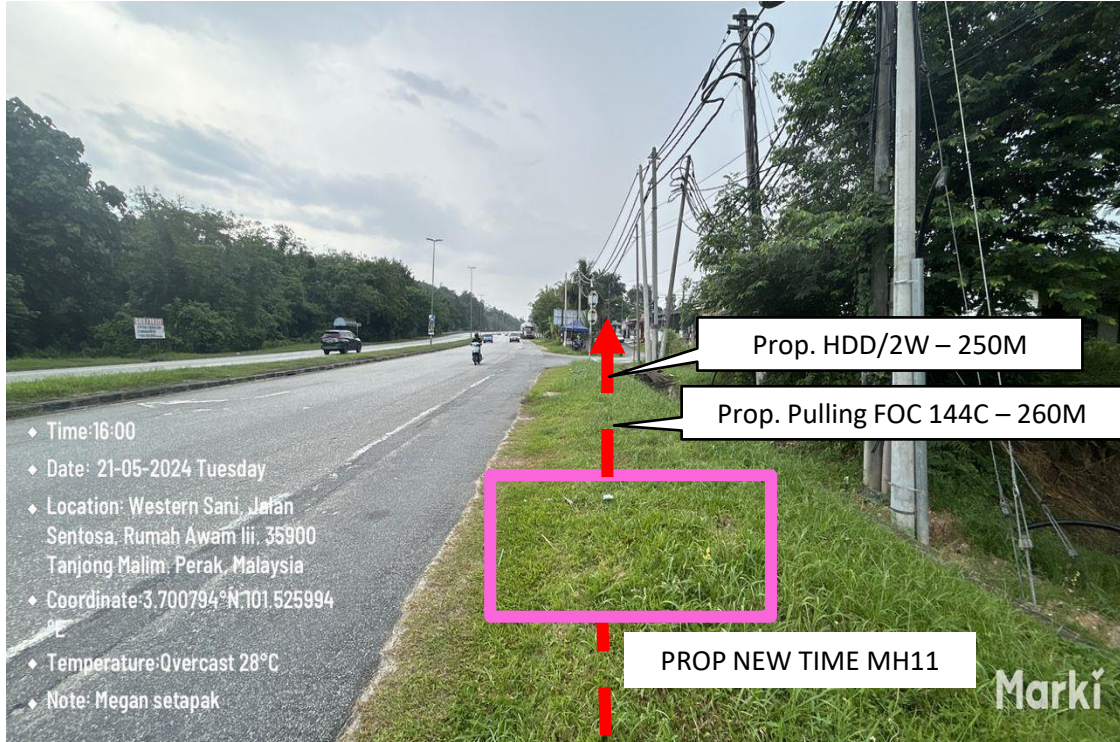


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH09 to Prop New TIME MH10

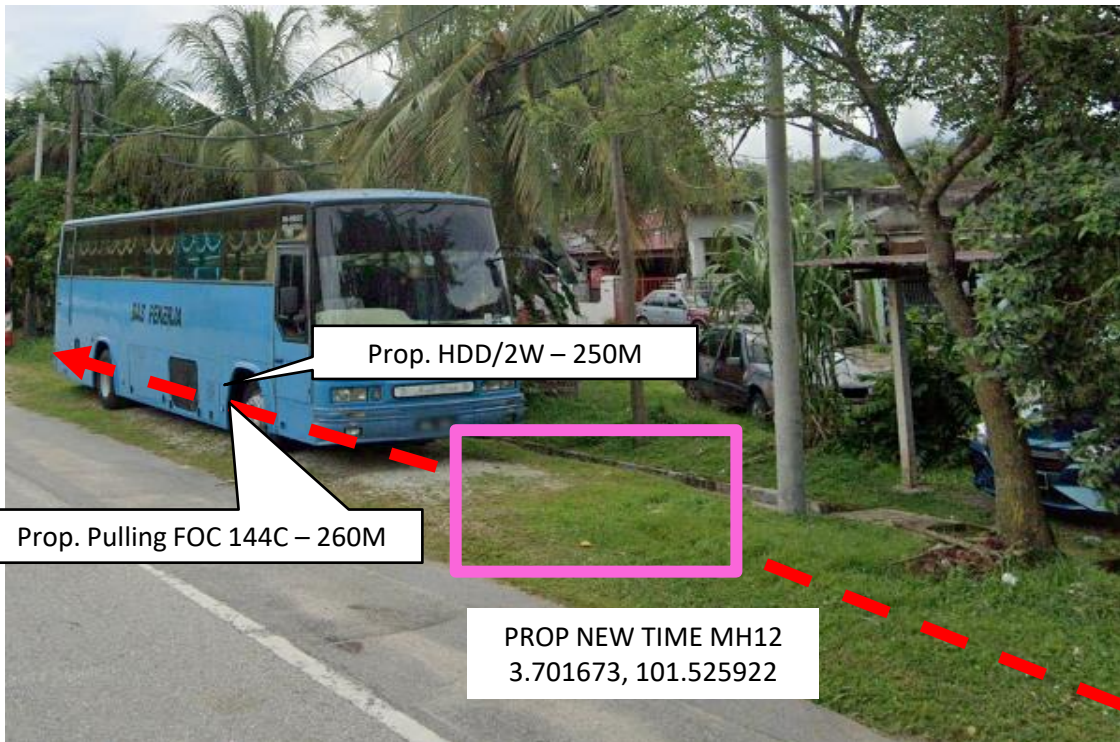


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH10 to Prop New TIME MH11

## 3. APPENDIX 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH11 to Prop New TIME MH12

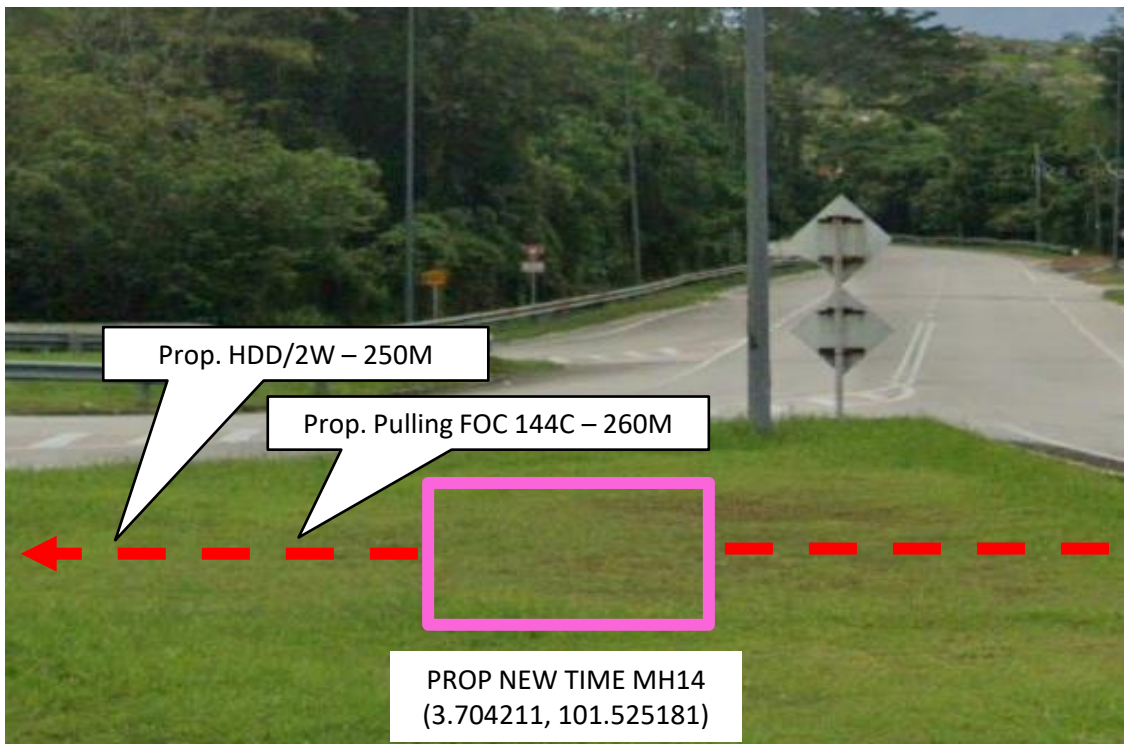


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH12 to Prop New TIME MH13

## 3. APPENDIX 3.1 SITE PHOTO

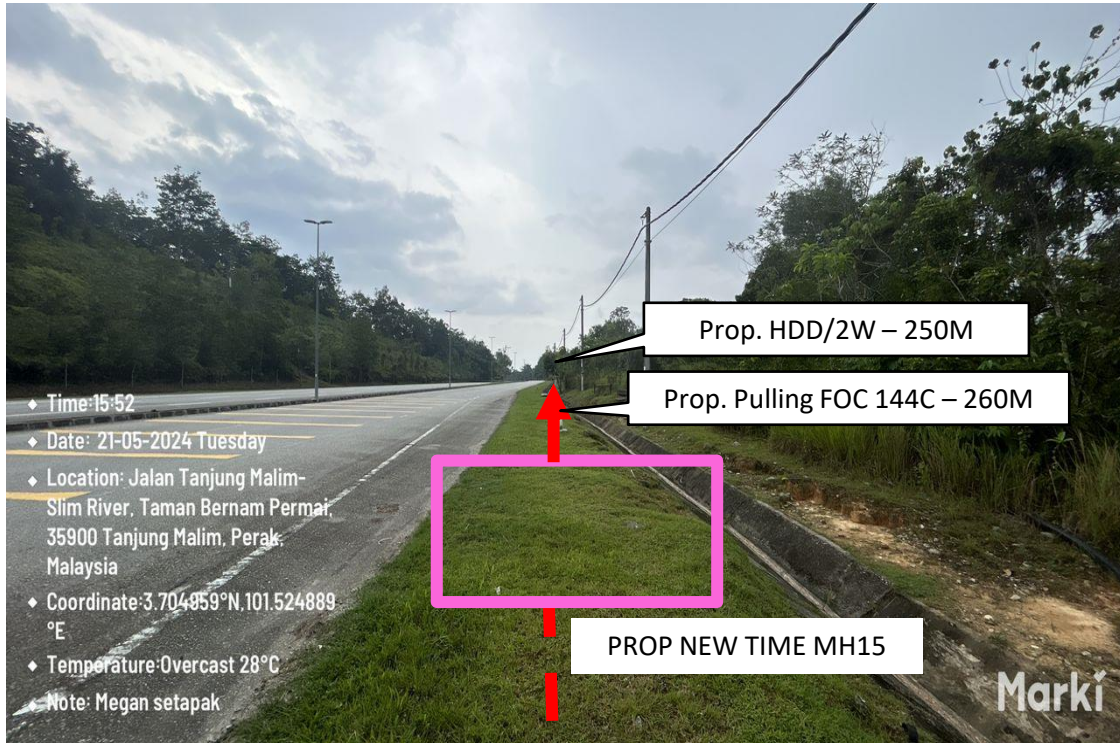


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH13 to Prop New TIME MH14



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH14 to Prop New TIME MH15

## 3. APPENDIX 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH15 to Prop New TIME MH16



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH16 to Prop New TIME MH17

### 3. APPENDIX 3.1 SITE PHOTO

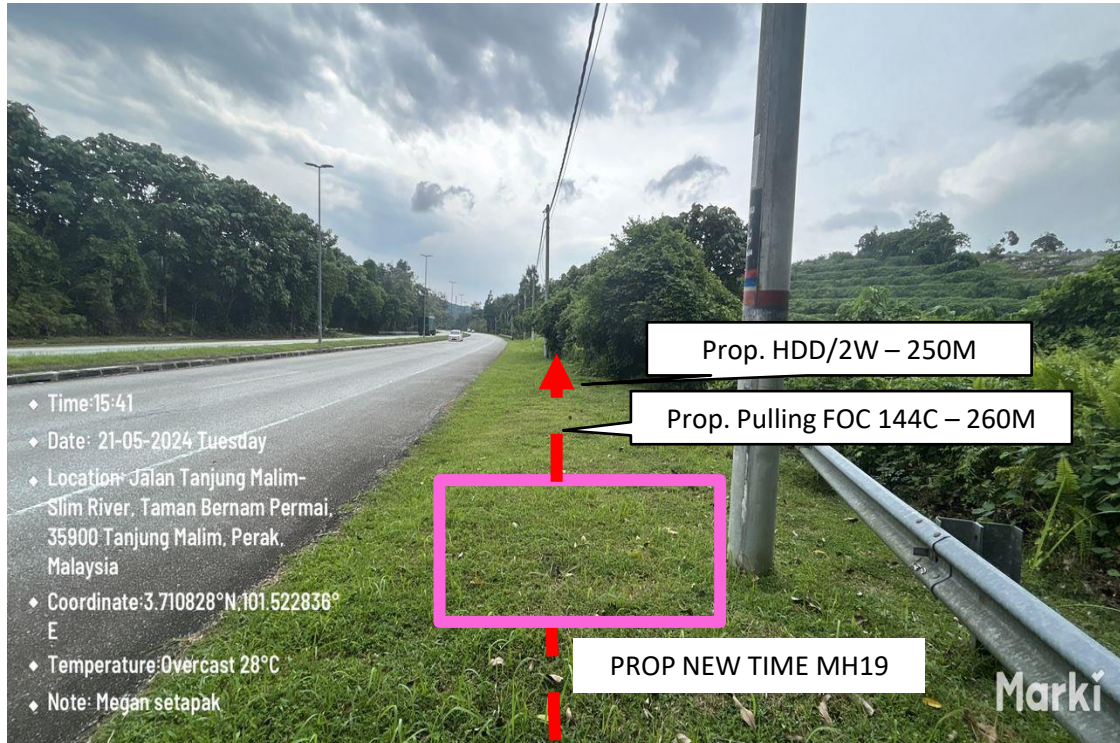


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH17 to Prop New TIME MH18

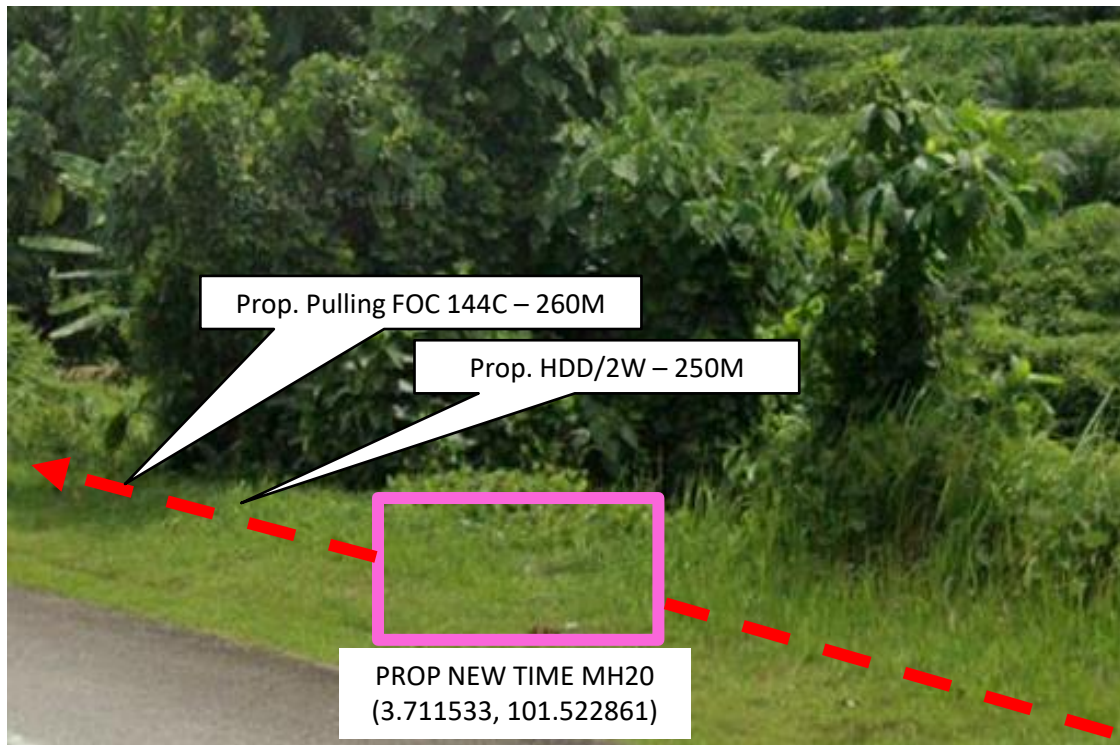


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH18 to Prop New TIME MH19

### 3. APPENDIX 3.1 SITE PHOTO



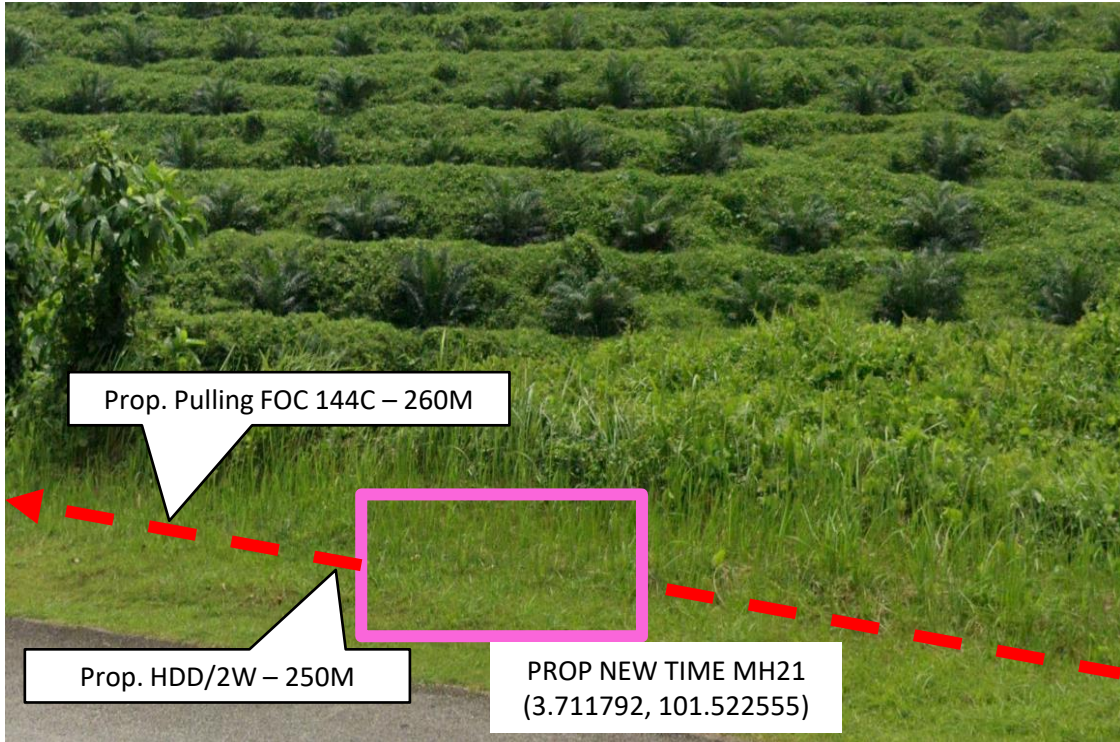
Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH19 to Prop New TIME MH20



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH20 to Prop New TIME MH21

## 3. APPENDIX

### 3.1 SITE PHOTO

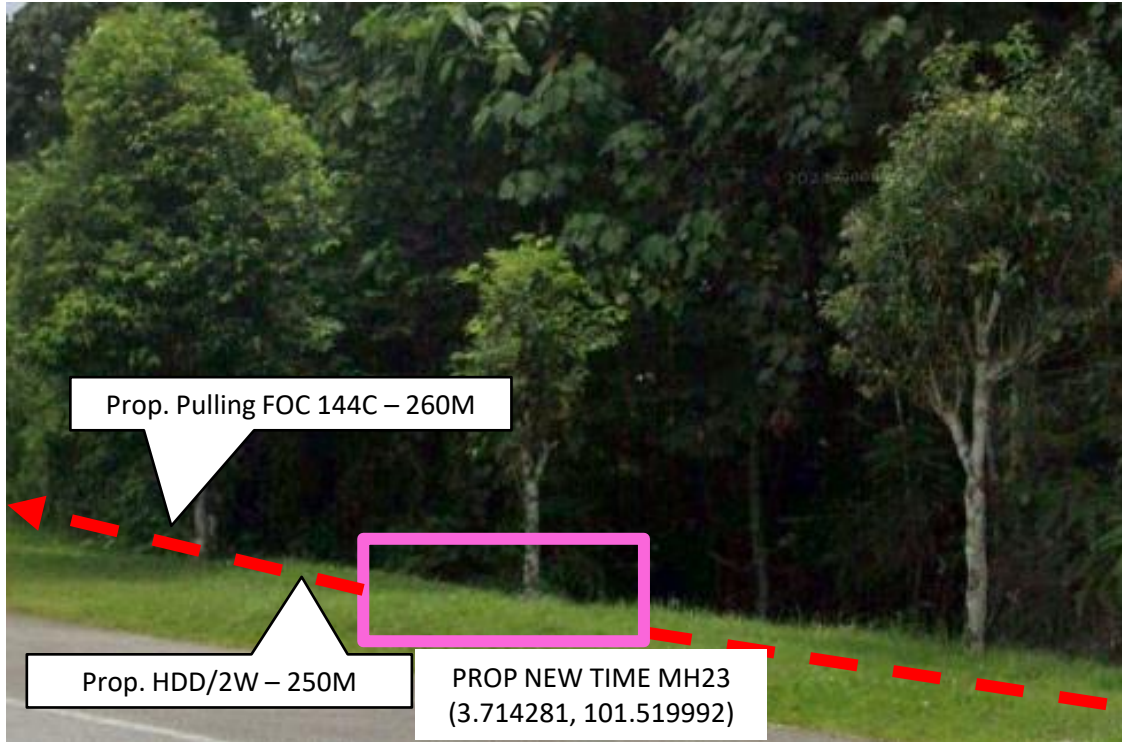


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH21 to Prop New TIME MH22

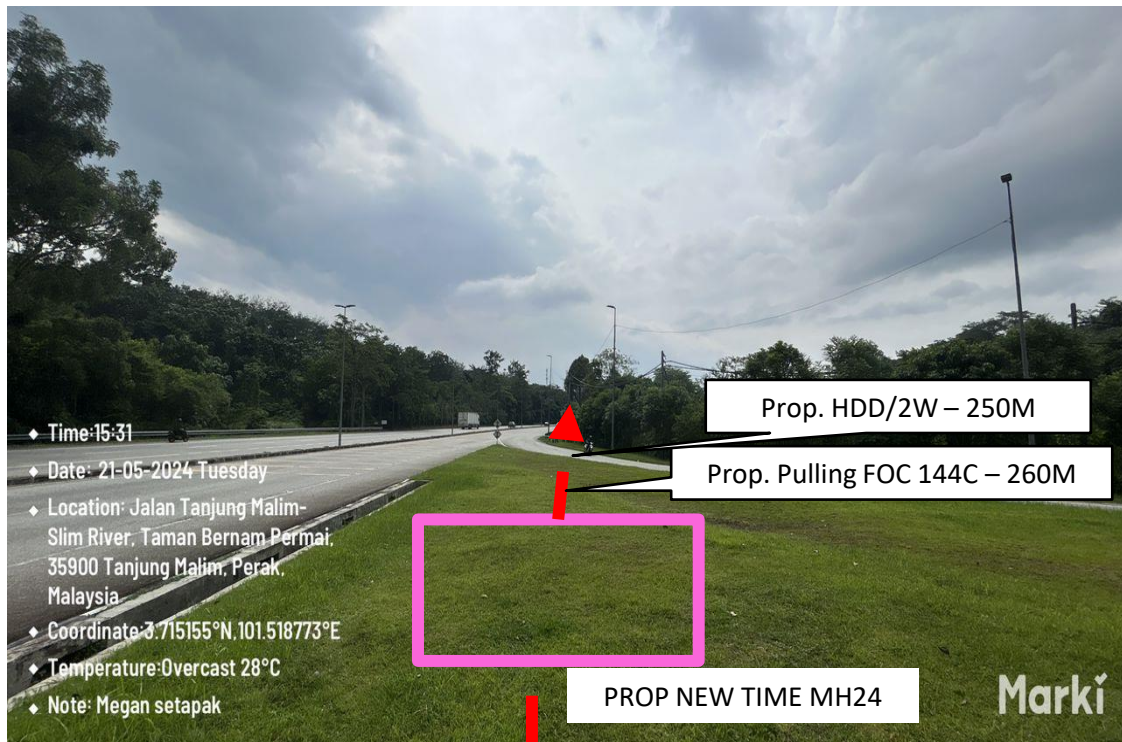


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH22 to Prop New TIME MH23

## 3. APPENDIX 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH23 to Prop New TIME MH24



- ◆ Time: 15:31
- ◆ Date: 21-05-2024 Tuesday
- ◆ Location: Jalan Tanjung Malim-Slim River, Taman Bernam Permai, 35900 Tanjung Malim, Perak, Malaysia
- ◆ Coordinate: 3.715155°N, 101.518773°E
- ◆ Temperature: Overcast 28°C
- ◆ Note: Megan setapak

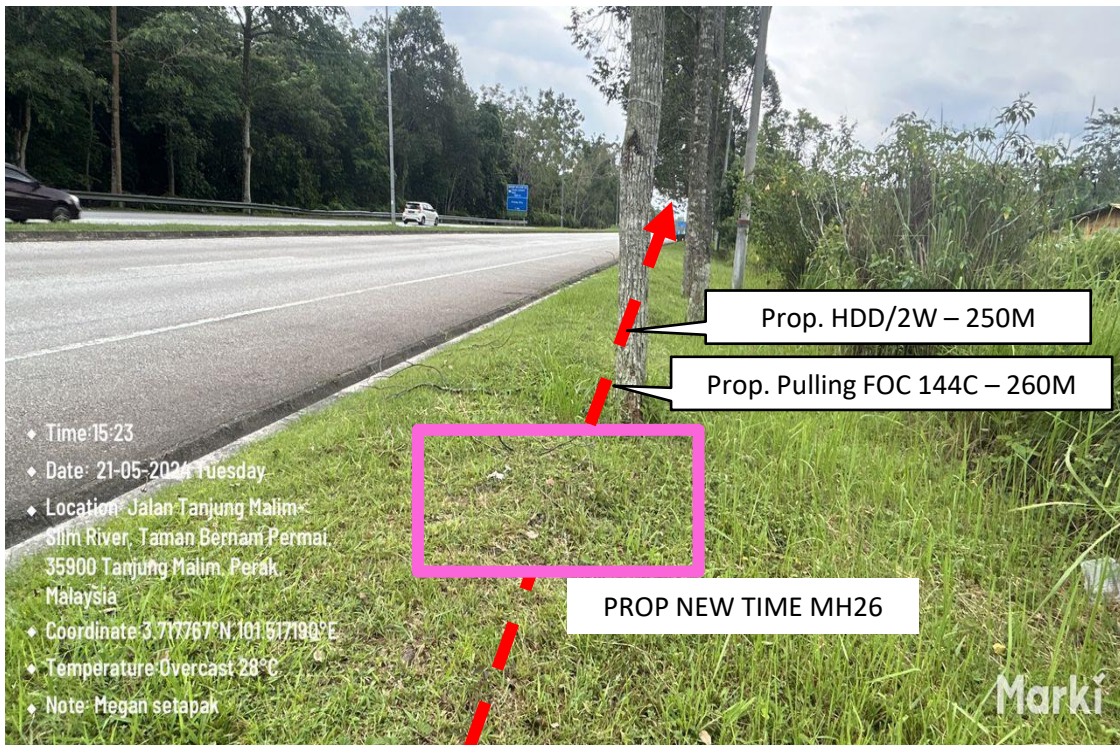
Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH24 to Prop New TIME MH25

## 3. APPENDIX

### 3.1 SITE PHOTO

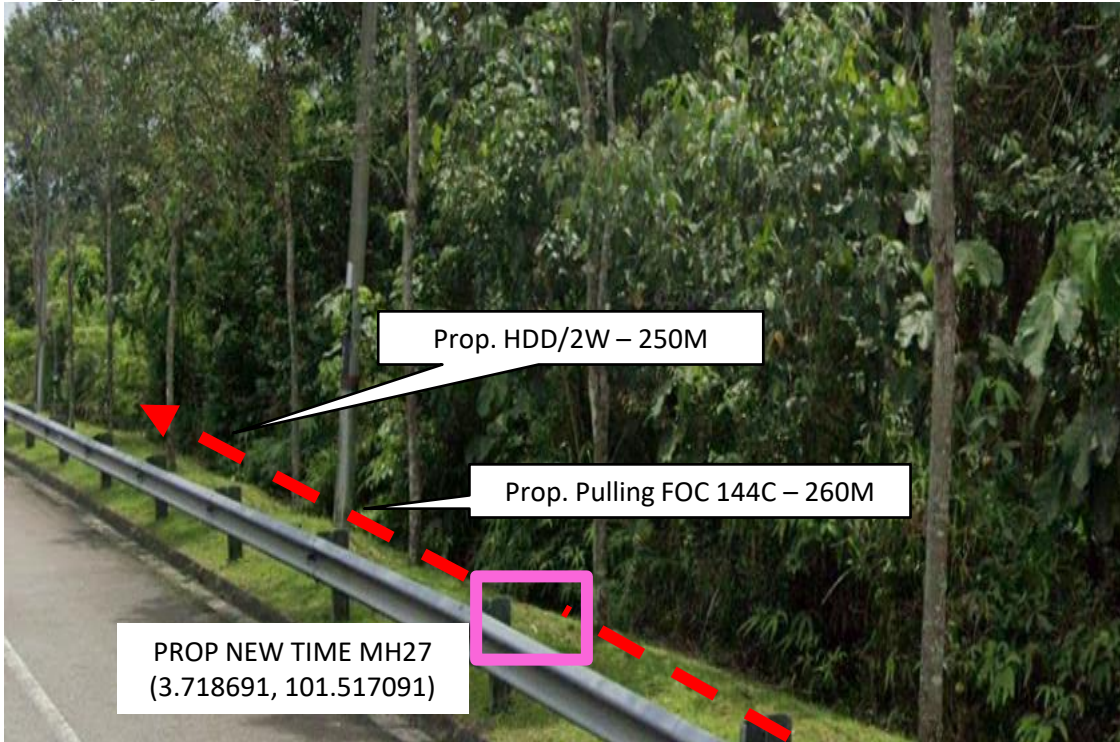


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH25 to Prop New TIME MH26



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH26 to Prop New TIME MH27

3. APPENDIX  
3.1 SITE PHOTO



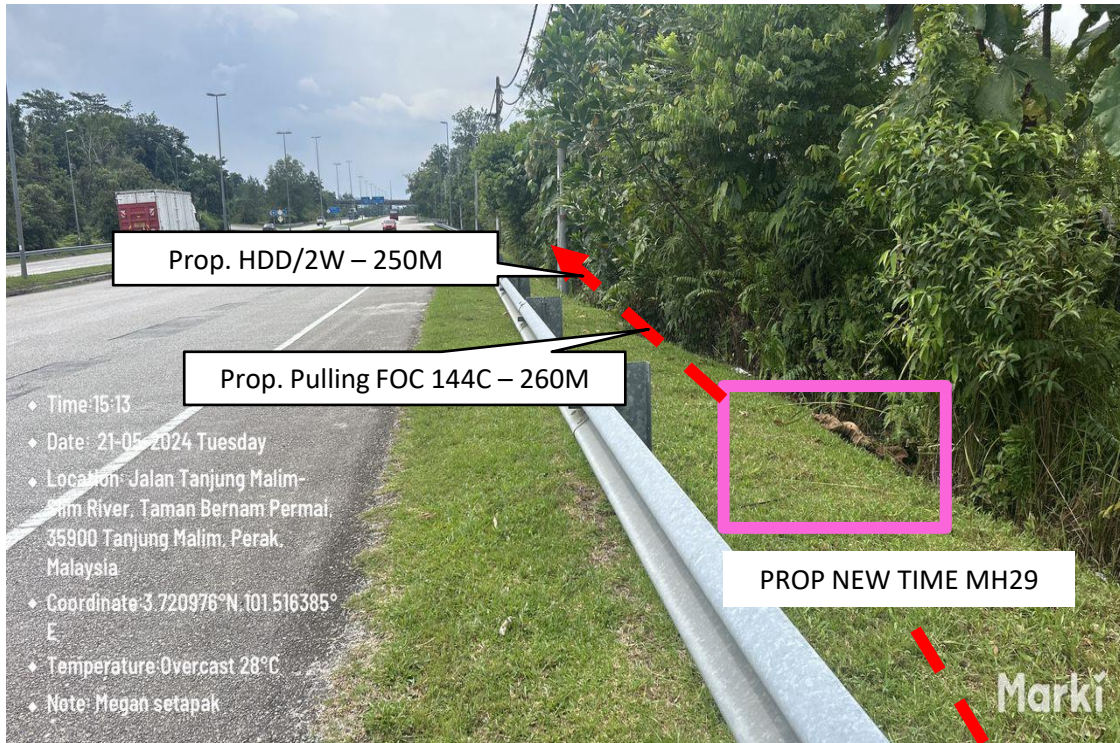
Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH27 to Prop New TIME MH28



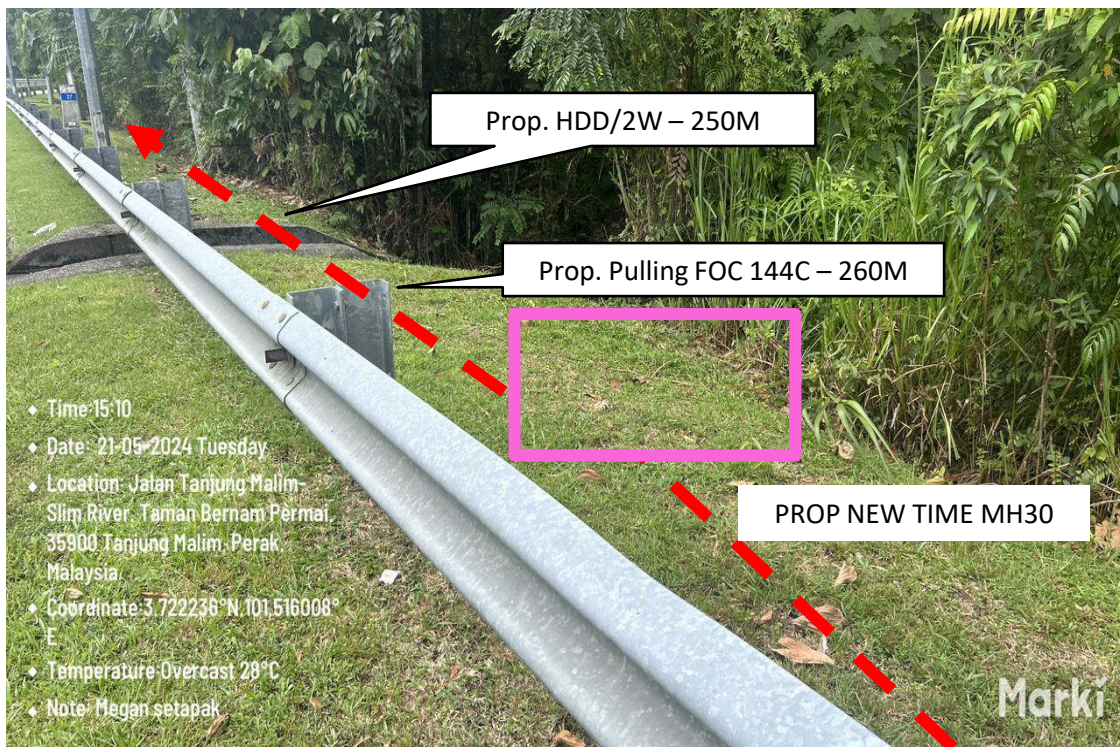
Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH28 to Prop New TIME MH29

## 3. APPENDIX

### 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH29 to Prop New TIME MH30



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH30 to Prop New TIME MH31

## 3. APPENDIX

### 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH31 to Prop New TIME MH32

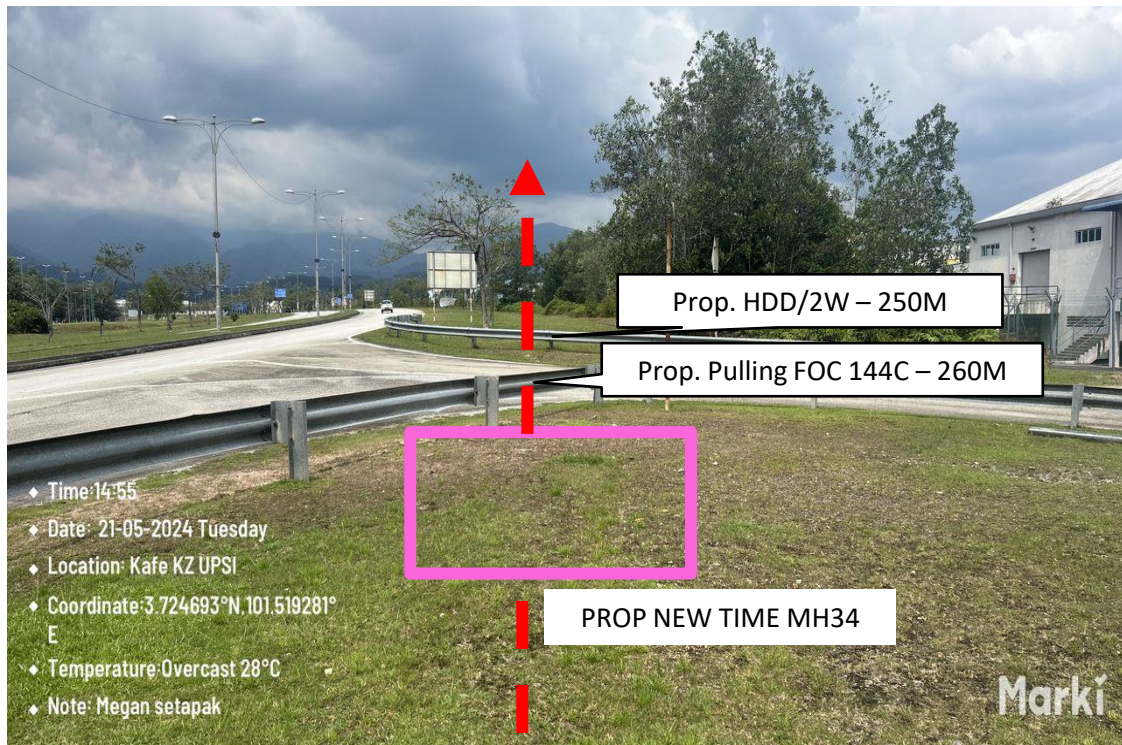


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH32 to Prop New TIME MH33

## 3. APPENDIX 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH33 to Prop New TIME MH34



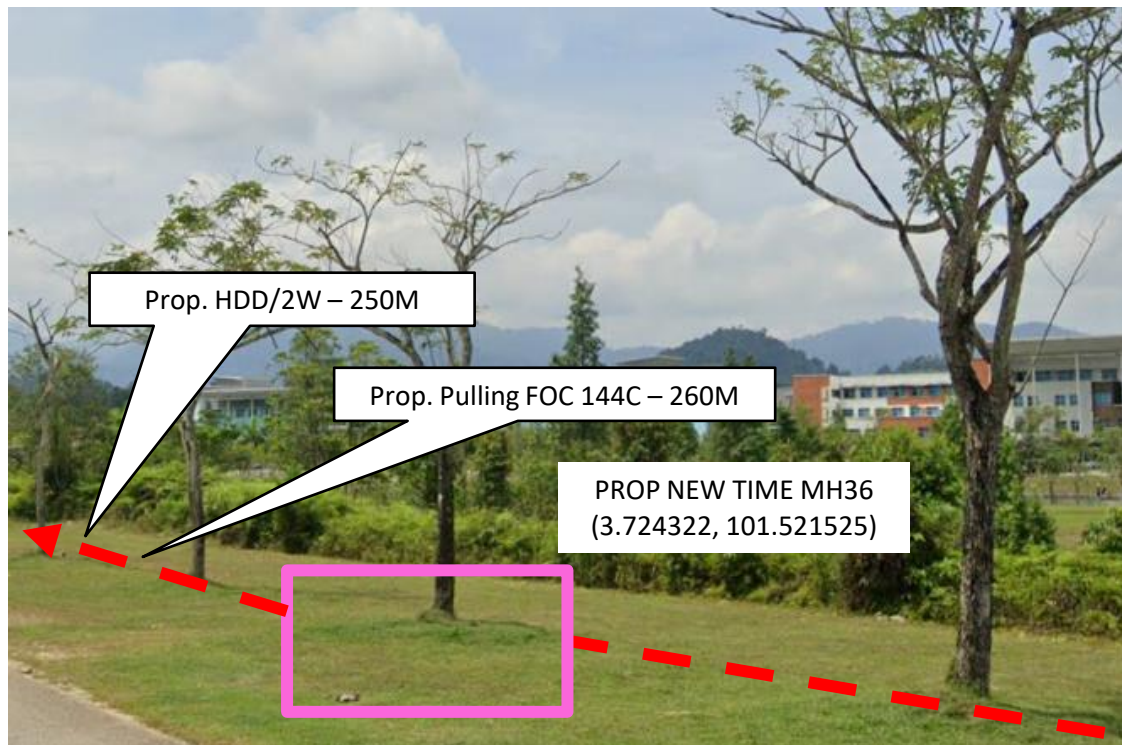
Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH34 to Prop New TIME MH33

3. APPENDIX

3.1 SITE PHOTO

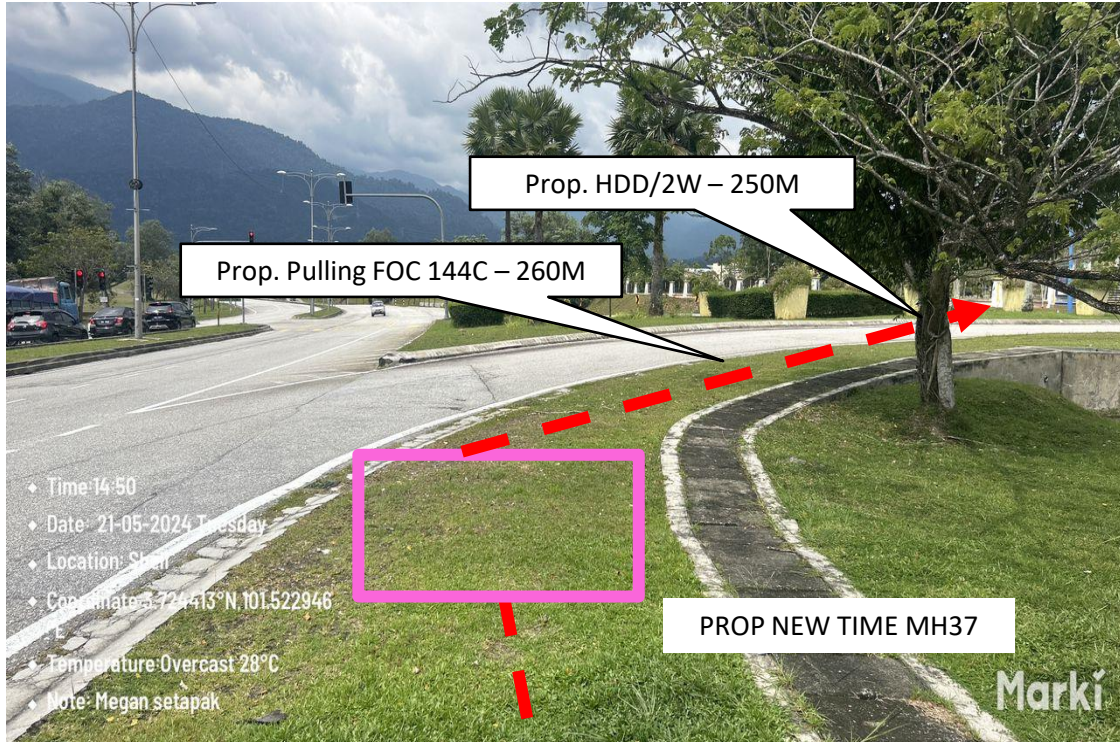


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH35 to Prop New TIME MH36

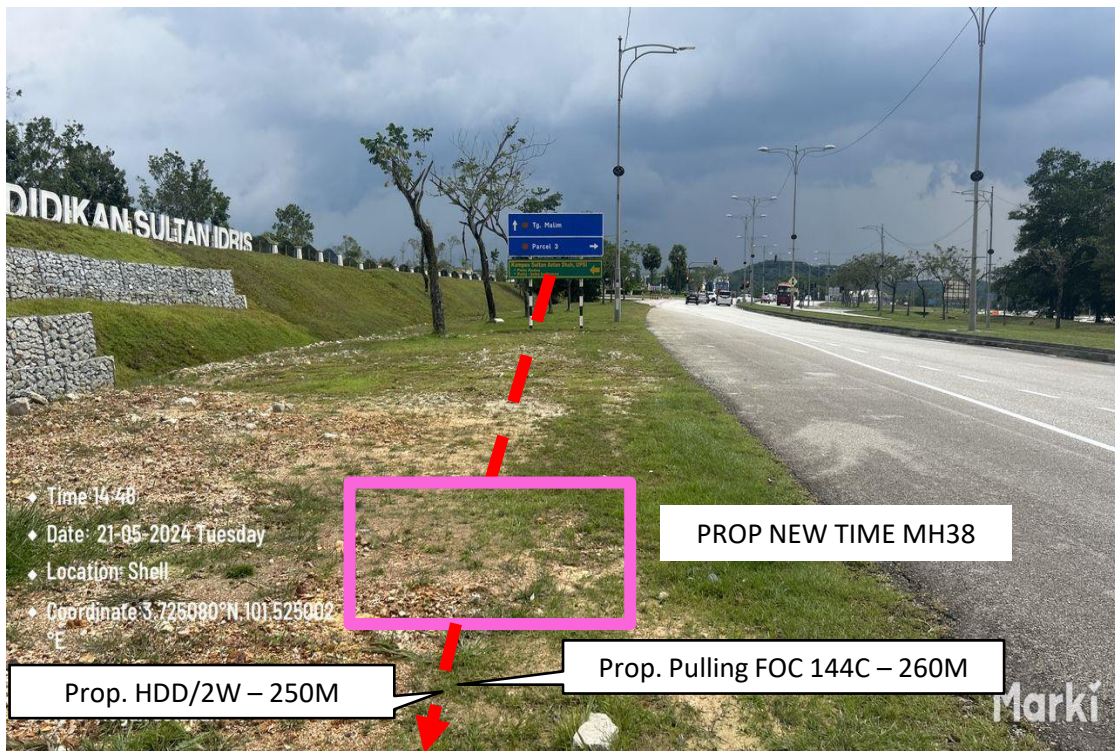


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH36 to Prop New TIME MH37

## 3. APPENDIX 3.1 SITE PHOTO

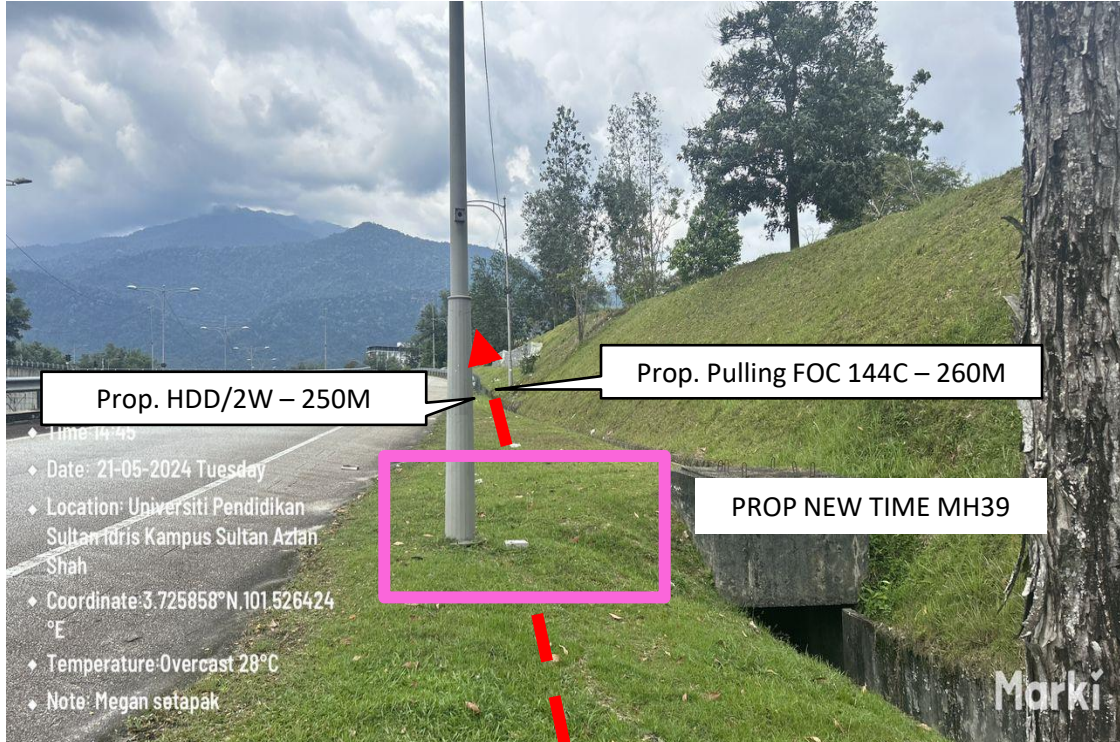


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH37 to Prop New TIME MH38

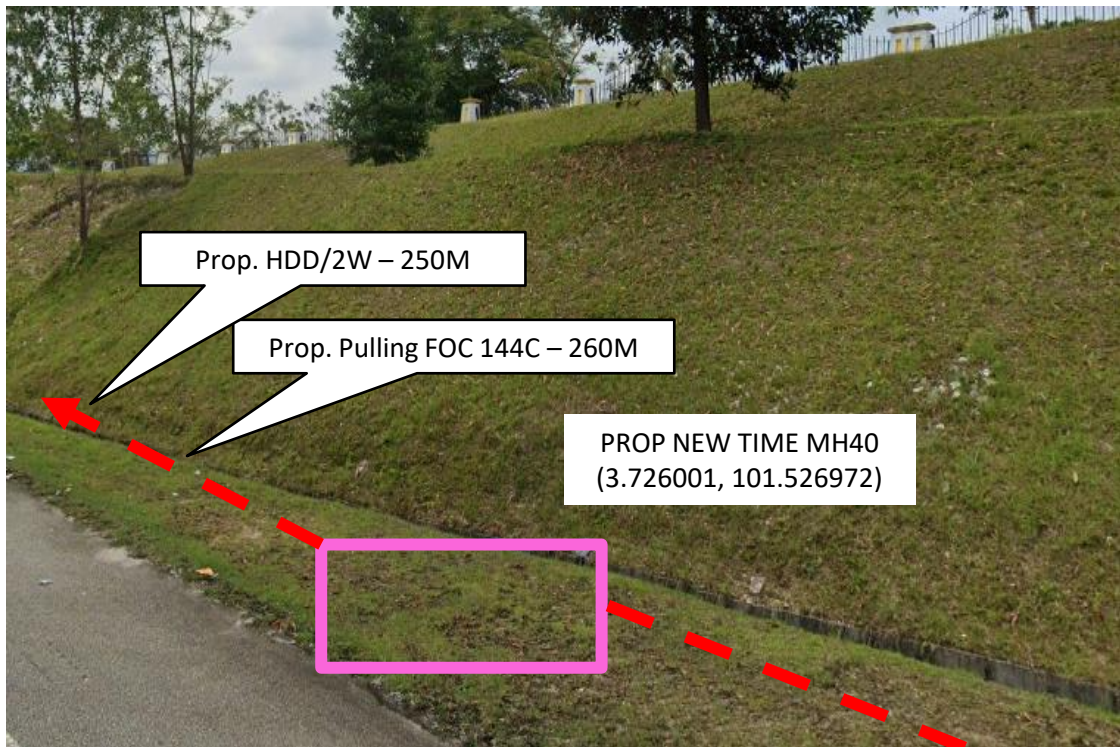


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH38 to Prop New TIME MH39

## 3. APPENDIX 3.1 SITE PHOTO



Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH39 to Prop New TIME MH40



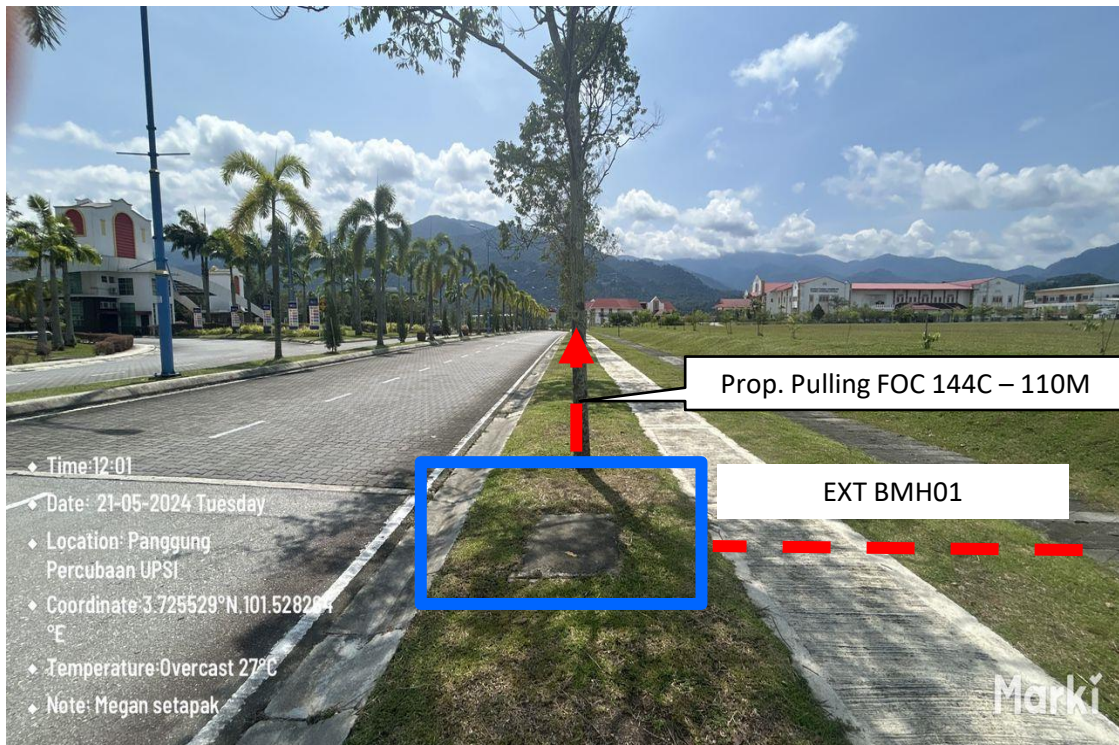
Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH40 to Prop New TIME MH41

## 3. APPENDIX

### 3.1 SITE PHOTO

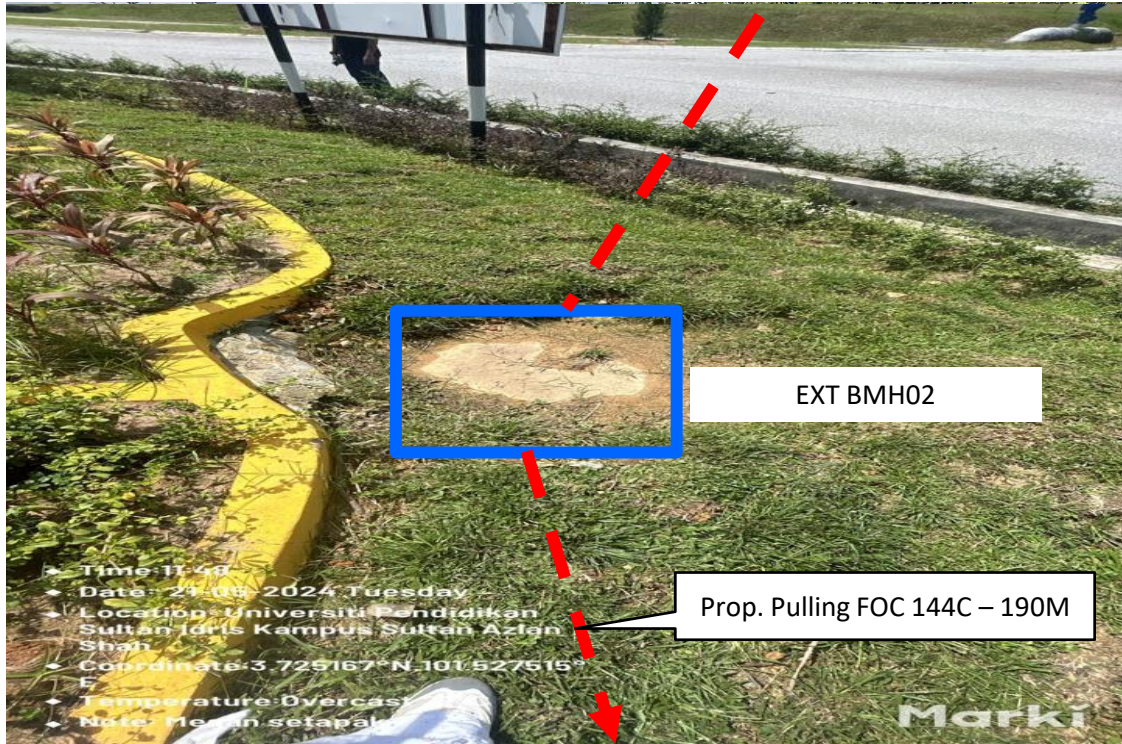


Proposed HDD/2W (250M) and pulling FOC 144C (260M) from Prop New TIME MH41 to EXT BMH01

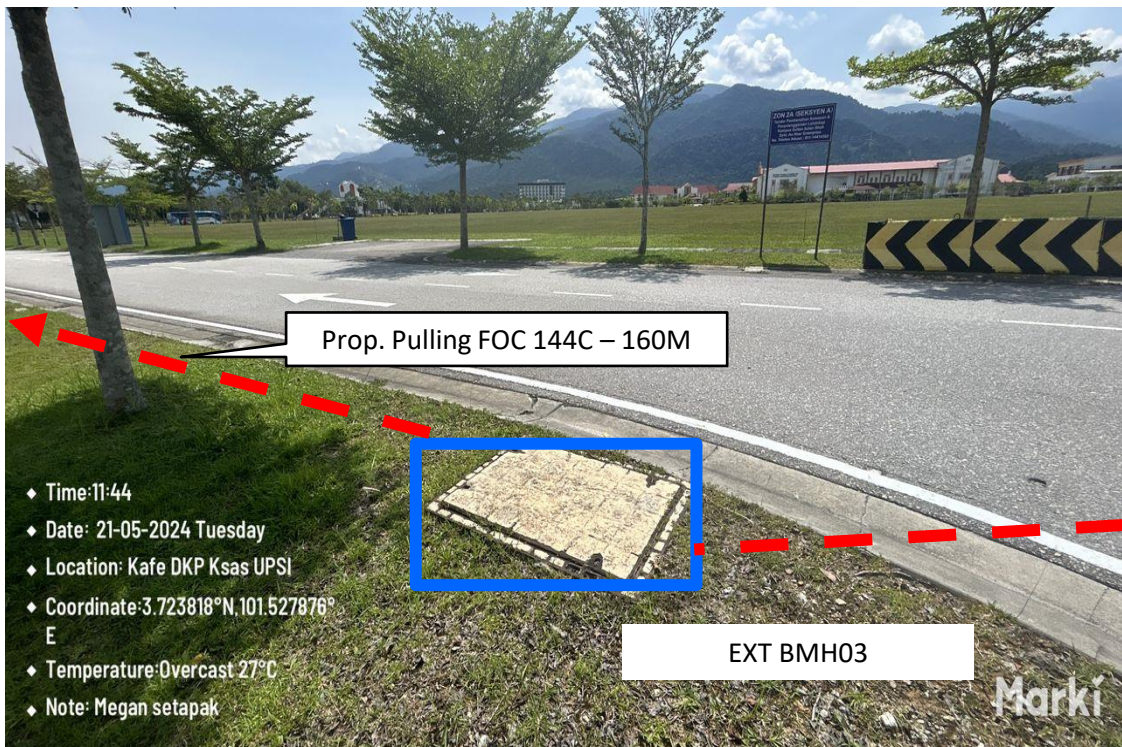


Proposed pulling FOC 144C (110M) from EXT BMH01 to EXT BMH02

## 3. APPENDIX 3.1 SITE PHOTO

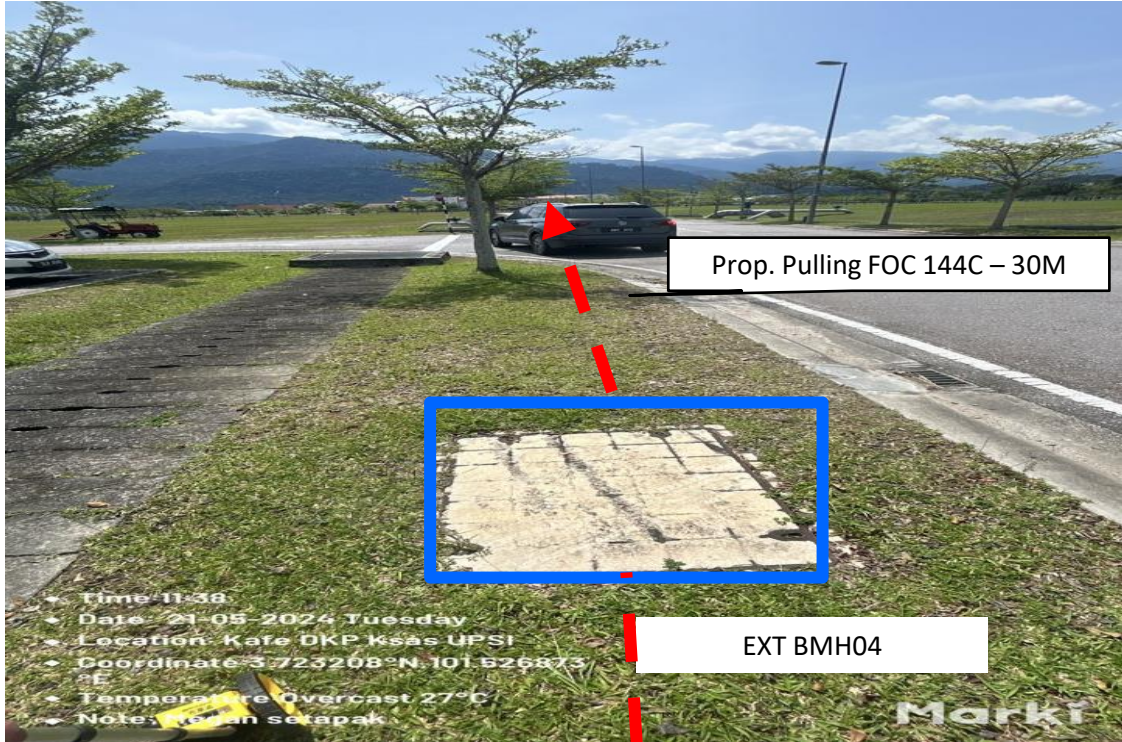


Proposed pulling FOC 144C (190M) from EXT BMH02 to EXT BMH03

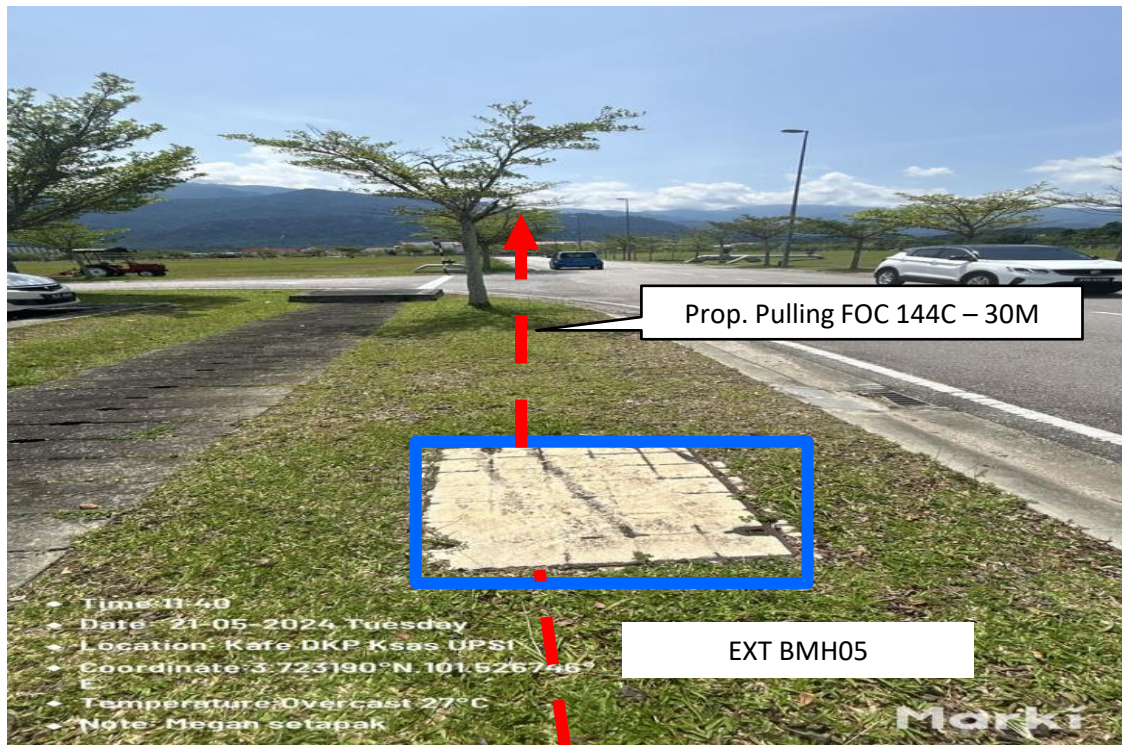


Proposed pulling FOC 144C (160M) from EXT BMH03 to EXT BMH04

## 3. APPENDIX 3.1 SITE PHOTO

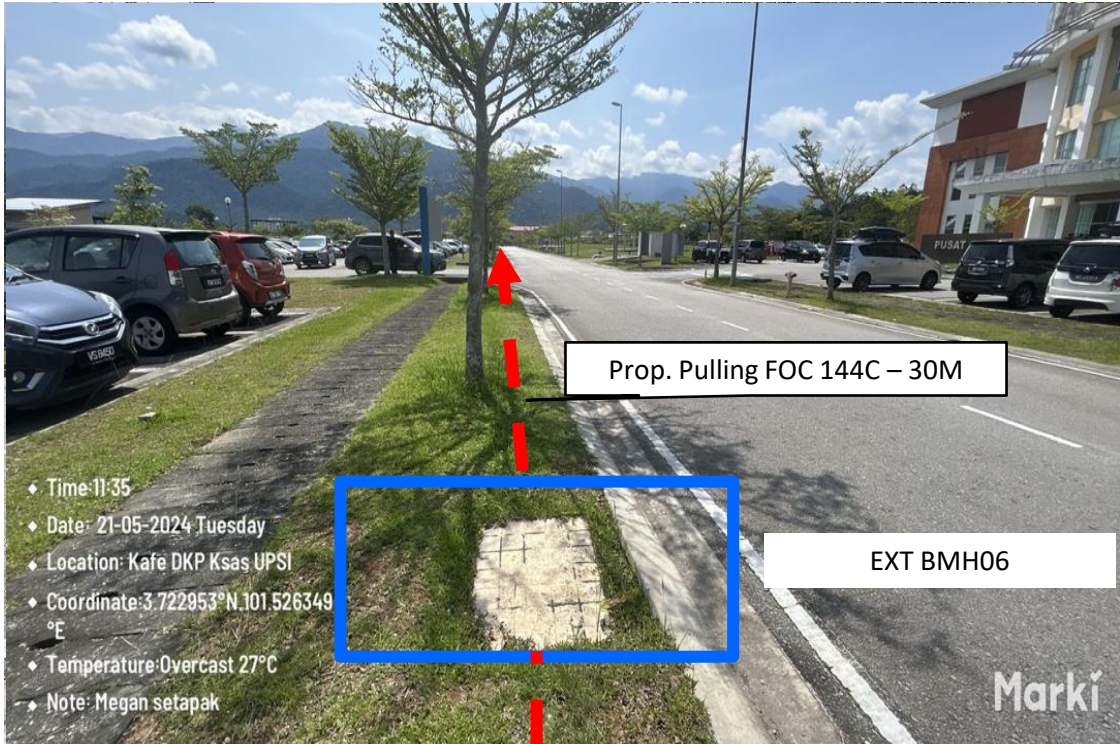


Proposed pulling FOC 144C (30M) from EXT BMH04 to EXT BMH05

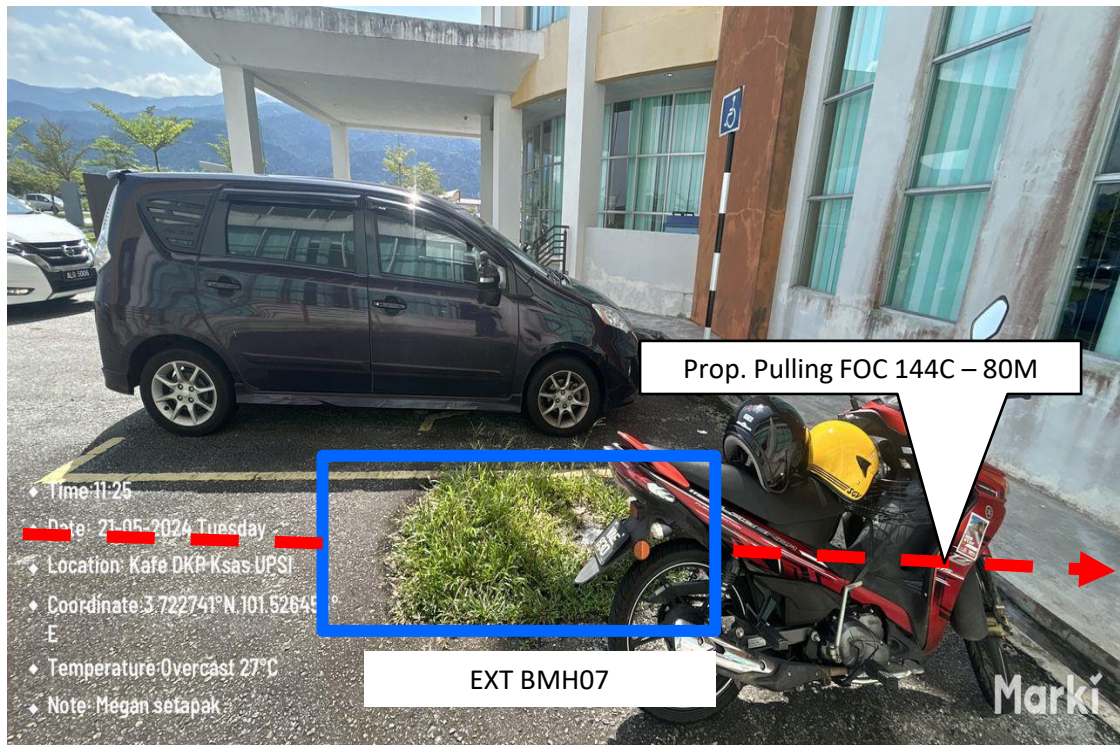


Proposed pulling FOC 144C (30M) from EXT BMH05 to EXT BMH06

## 3. APPENDIX 3.1 SITE PHOTO



Proposed pulling FOC 144C (30M) from EXT BMH06 to EXT BMH07

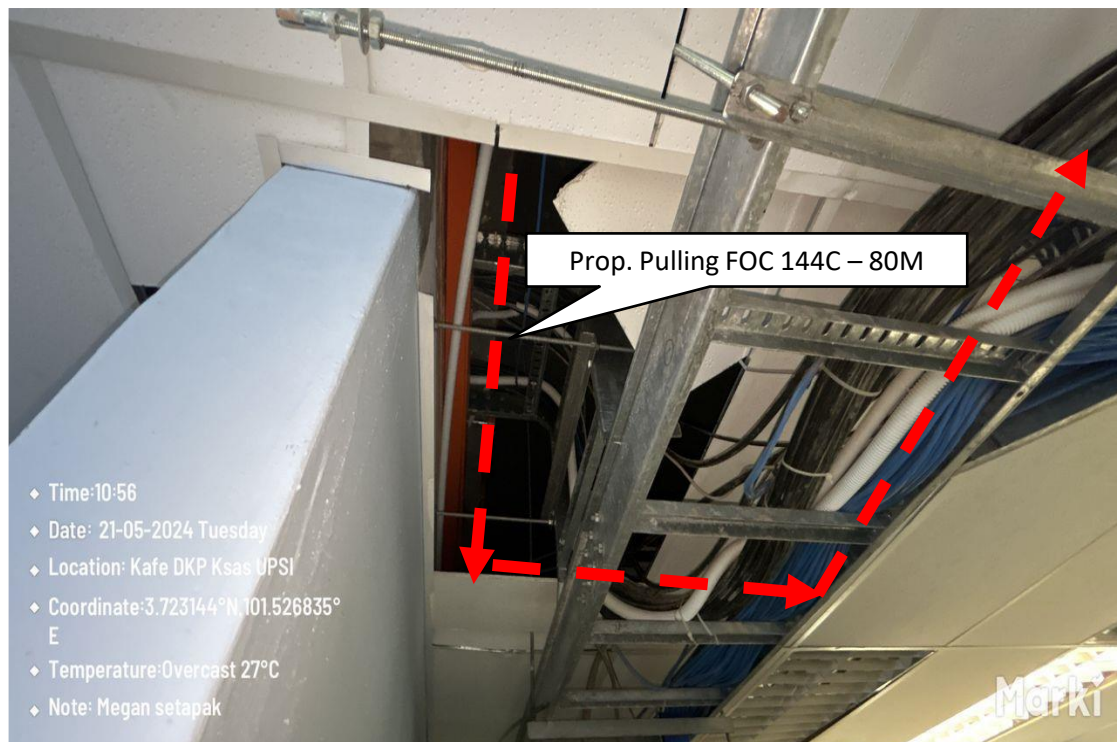


Proposed pulling FOC 144C (80M) from EXT BMH07 to SERVER ROOM

## 3. APPENDIX 3.1 SITE PHOTO

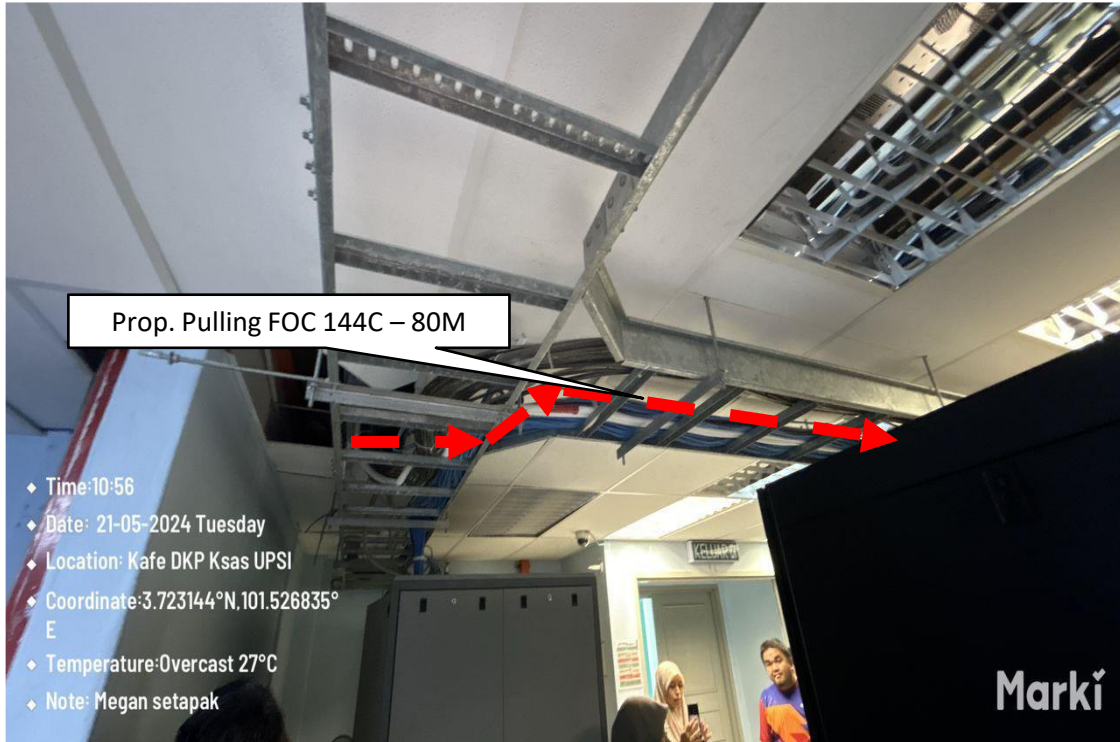


Proposed Route for new Cable 144C from Server Room at Level G, Pusat ICT using existing cable tray – 80m.

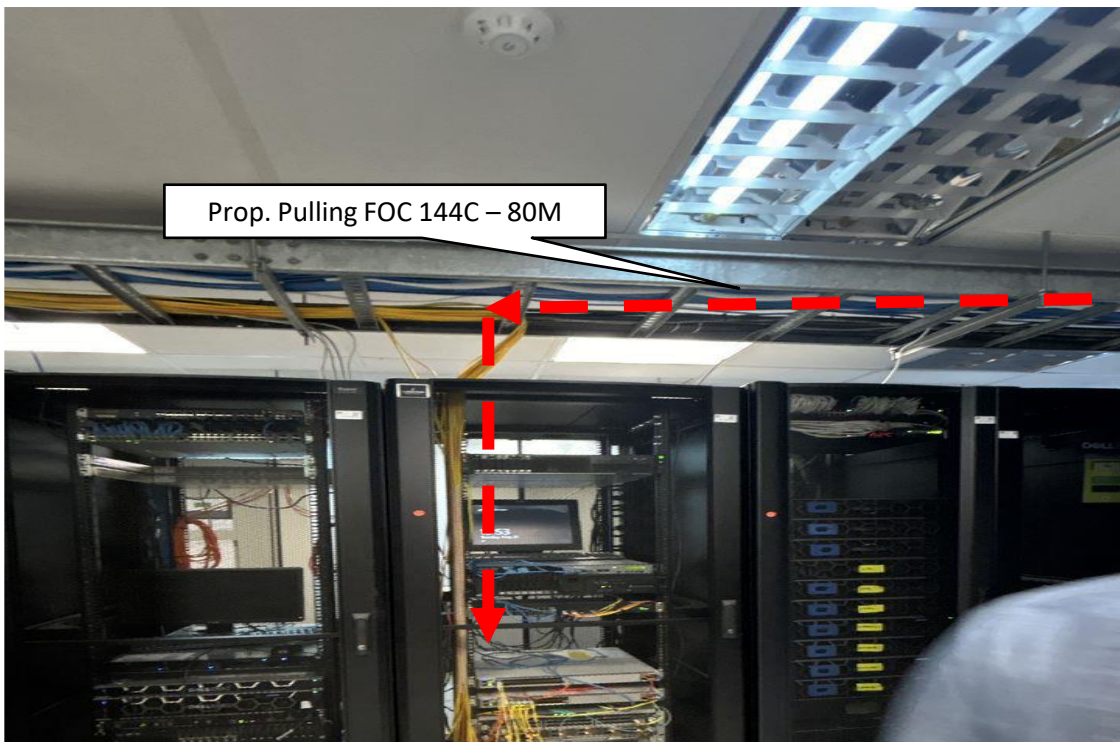


Proposed Route for new Cable 144C from Server Room at Level G, Pusat ICT using existing cable tray – 80m.

## 3. APPENDIX 3.1 SITE PHOTO

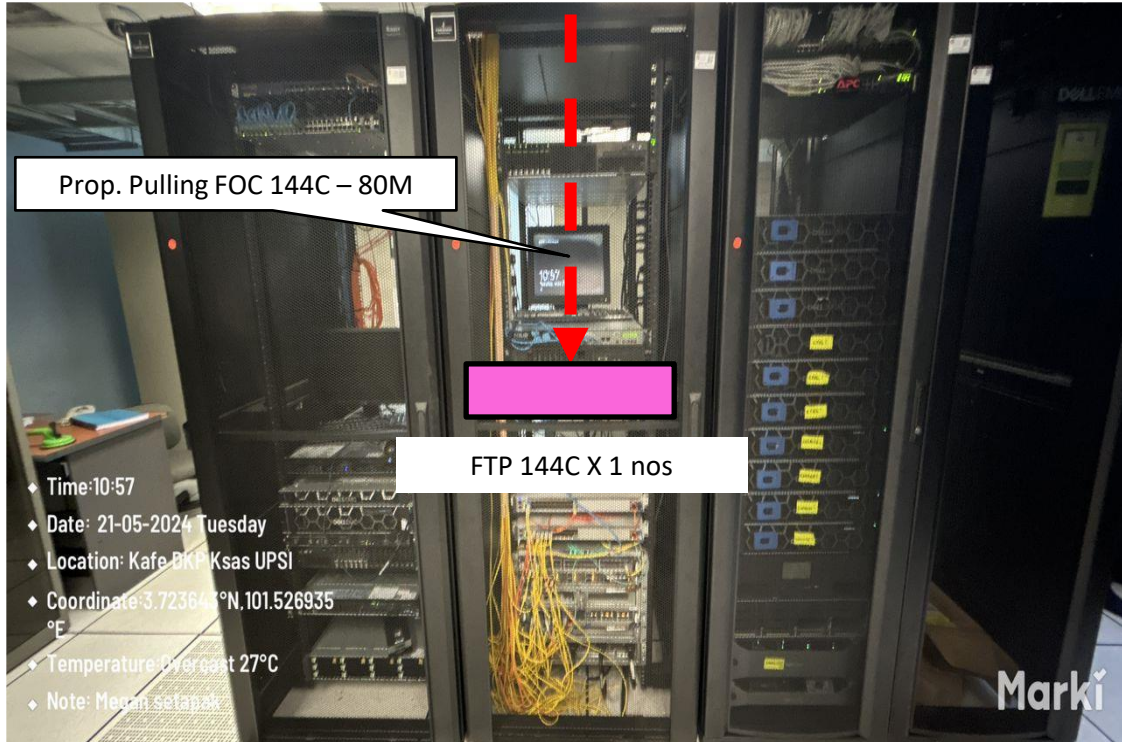


Proposed Route for new Cable 144C from Server Room at Level G, Pusat ICT using existing cable tray– 80m.



Proposed Route for new Cable 144C from Server Room at Level G, Pusat ICT using existing cable tray– 80m.

3. APPENDIX  
3.1 SITE PHOTO



Proposed Installation 1 unit FTP 144C at Existing Building Rack and termination.