



**TECHNICAL PROPOSAL FOR  
FIBRE OPTIC CABLE INSTALLATION**

**at**

**Taman Tronoh Akasia  
31750, Tronoh, Perak**

**Location : 4.404224°, 100.984267°**



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# time™

## TP CHECKLIST

		YES	NO	Remarks
1	TDC existing manhole coordinate	/		
2	Existing premises area manhole coordinate		/	
3	Any Gas pipe signage seen at site? If YES, attach photo.		/	
4	Any TNB cable 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 related Local Authority? Kindly indicate.	/		MBBT
9	Drawing for outside plant (OSP) survey – Residential area & civil work up to last TIME manhole (.dwg format - autocad & .pdf format) *	/		
10	Prepare the complete 1 copy of Technical Proposal (.pdf format & Power point) –of softcopy – 1 copy	/		
11	Bill of Quantity for civil, fibre pulling, splicing & termination	/		
12	The latitude & longitude of the residential area and last TIME manhole in 6 decimal points (xx.xxxxx, x.xxxxx) in TP Location Map.	/		
13	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). If unable to open up the manhole, photo of manhole surrounding is required.		/	
14	Survey Acknowledgement Form signed & attached.		/	
15	Others		/	



**GENERAL INFORMATION**

Prepared by : Fiber & Fiber Solution Sdn Bhd

**Date of LOI : 6/08/2024**

Date of Survey : 12/08/2024

Surveyed by : Nik Mohd Farhan Azizi Bin Baharul Azmi

Drawing Prepared by: Nik Mohd Farhan Azizi Bin Baharul Azmi

Eng. Person In charge : Nik Mohd Farhan Azizi Bin Baharul Azmi

**General Information**

Site Name : **Taman Tronoh Akasia**  
 Full Address: **Taman Tronoh Akasia, 31750, Tronoh, Perak**  
 Type of Development: Residential  
 No of Unit: 280 units  
 No of unit per row/block:  
 No of row/block per Dev :

**Contact Person**

**Management/Dev  
Comittee**

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

**Maintenance / Security  
Department**

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

**Comments**

**For TimeDotComBhd Use Only**

Remarks



<b>Technical Information</b>	
Distance exiting TIME manhole to development	830 meters
MAN to CAN method	Via Pole & New Manhole
Number of Hub-Box proposed	2 pcs
Number of Sub-Box proposed	13 pcs
Number of End-Box proposed	3 pcs
Number of Single Closure proposed	- pcs
Number of Port proposed	128 ports
Number of Closure Ringcut proposed	2 pc
Number of Distribution Cable proposed: 1. 50m 2. 100m 3. 150m 4. 200m 5. 250m 6. 300m	3 pcs 2 pcs 2 pcs 2 pcs 2 pcs 5 pcs
OLT (Outdoor/Indoor) proposed	-
Method of CAN	Via Pole & Building Manhole
Method of CAN exit to HomeConnect	Via New Pole

Descriptions	Method	Unit(s)	Quantity
Civil	HDD	meter	150
	MCT (GI)	meter	-
	MCT (HDPE)	meter	23
	OPCW	meter	-
	OPCW (MH)	meter	-
	OPGV	meter	-
	OPGV (MH)	meter	-
	Coring Drainage	each	-
	Fiber Pulling:		
FOC 48C	Duct/Subduct	meter	830
	Aerial	meter	-
	GI Pipe	meter	-
	MCT (HDPE)	meter	-
	Connector 1C	Drainage	meter
	Aerial	meter	3050
	GI Pipe	meter	36
	MCT (HDPE)	meter	23
	MCT	GI 50mm	meter
	HDPE 40mm	meter	23
OPGV	HDPE 40mm	meter	-
OPGV (MH)	GI 100mm	meter	-
GI Pipe (Pole)	GI 50mm	each	6
Crossing Bridge	GI 50mm	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 :



## **1. PROPOSAL FOR FIXED ACCESS**

### **1.1 Introduction**

- 1.1.1 TIME dot Com (TTdC) offers a wide variety of fixed-line telecommunications services. As part of its commitment to provide the customers with the best possible solutions to serve all their communications needs; TTdC aim to enhance telecommunication services in this residential area to offer the residents with High Speed Internet, Data and Voice connectivity. This residential area will be enhanced today for tomorrow's communication and IT requirements. With that, TTdC provide a choice of Service Providers to the residents and gain a future-proof communication infrastructure.
- 1.1.2 A physical infrastructure link to this residential area is the main access to deliver services to the residents. The typical link required is through fiber optic cable.
- 1.1.3 In order to support the services, TTdC require an access to certain related infrastructure facility in order to provide services to the end user (resident).
- 1.1.4 To be able to deliver these services to the residential area, TTdC will pull its own fiber optic cables from the nearest hub and place its access equipments at certain identified location in the area. In order to reach each of the resident premises (houses), TTdC will lay the required fiber optic cable and drop close to the premises.
- 1.1.5 With this setup we will have TTdC connection right up to each of the resident premises/houses in this residential area.

### **1.2 Trenching**

- 1.2.1 Some trenching works will be proposed in certain routes without connection. The purpose is to lay fiber cable along the trenching route to connect from the existing manhole to the proposed pole.
- 1.2.2 The permission to trench is under the identified local authority jurisdiction (MBI) and is to be applied separately if necessary.
- 1.2.3. This proposal is based on the assumption that there is a fiber cable to be connected to the existing TIME manhole.



### **1.3 Cabling and Ducting**

- 1.3.1 TdC will utilize the existing duct to pull a new 48C optical fiber cable from the existing TdC manhole to the existing building manhole. TdC also proposes new poles to be installed in Taman Star for distribution cable routes.
- 1.3.2 In the near future, TdC plans to pull optical fiber cables for GPON services that require optical interface equipment up to customers' houses.



## Taman Tronoh Akasia Tronoh Perak

Lat: 4.404224°

Long: 100.984267°



**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 Drawing**
  - Site Plan**
  - Single Line Drawing (SLD)**
    - SI Cable Length**

KELULUSAN PLAN

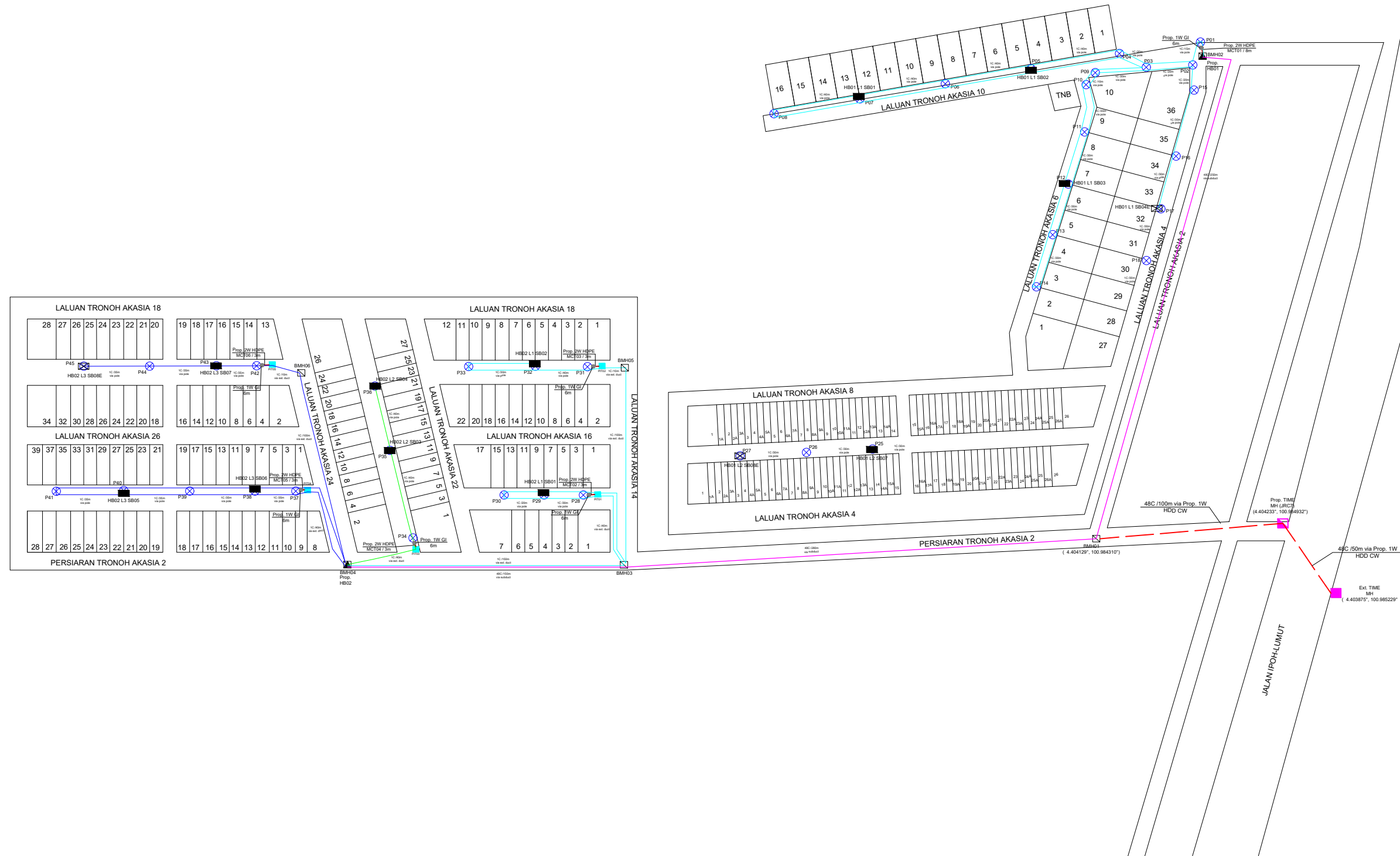
Local Authorities:-

CONFIDENTIALITY

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LEGEND :-

- = EXISTING MANHOLE/PIT
- = EXISTING TIME MANHOLE (JRC7)
- = PROP. TIME MANHOLE (JRC7)
- = EXISTING PIT
- = PROP. POLE
- = PROP. 2W MCT 40mm HDPE
- = PROP. 1W HDD
- = FOC 48C
- = FOC 1C - LINE 1
- = FOC 1C - LINE 2
- = FOC 1C - LINE 3
- = PROP. GI PIPE 50mm
- = SUB BOX
- = END BOX
- = HUB BOX



REV. NO.	REV. DATE	REV. BY	DESCRIPTION:



TT dotCom Sdn Berhad (52371-A)  
 Level 4, No 46 & 64  
 Jalan U1, Hicom Glenmarie  
 40000 Shah Alam, Selangor Darul Ehsan, Malaysia.  
 Tel: +60 3 5032 6000  
 Website: www.time.com.my

PROJECT TITLE: FIBER INSTALLATION AT TAMAN TRONOH AKASIA
DRAWING TITLE: SITE PLAN FOR TAMAN TRONOH AKASIA
DRAWING NO: TTdC <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
SHEET NO: 1

DRAWING SCALE: N.T.S	DRAWING UNITS: METER
PREPARED BY: FIBER & FIBER SOLUTION SDN BHD	INITIAL & DATE: 11/11/2024
DESIGNED BY: FIBER & FIBER SOLUTION SDN BHD	INITIAL & DATE: 11/11/2024
CHECKED BY: -	INITIAL & DATE: -
APPROVED BY: -	INITIAL & DATE: -
















KELULUSAN PLAN

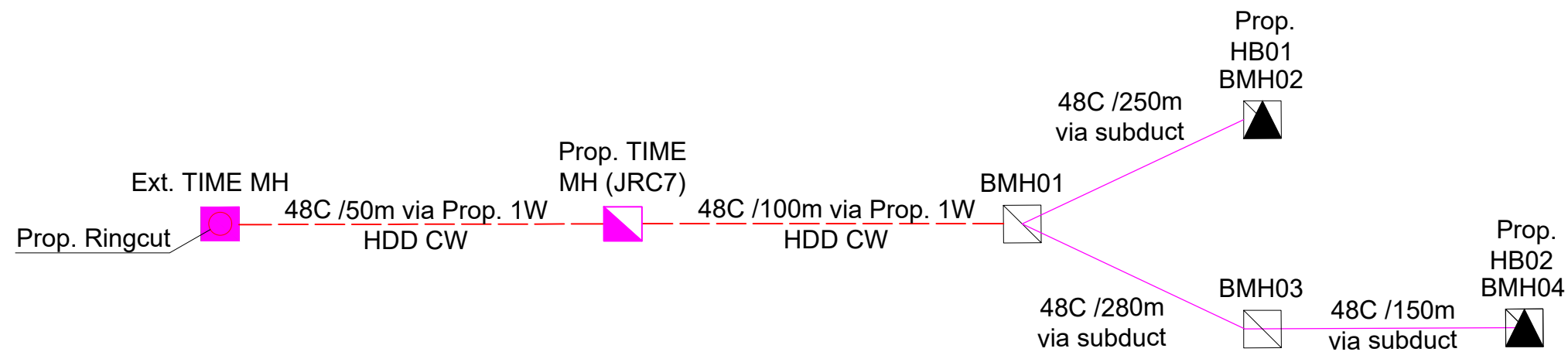
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-  = PROP. TIME MANHOLE (JRC7)
-  = EXISTING PIT
-  = PROP. POLE
-  = PROP. 2W MCT 40mm HDPE
-  = PROP. 1W HDD
-  = FOC 48C
-  = FOC 1C - LINE 1
-  = FOC 1C - LINE 2
-  = FOC 1C - LINE 3
-  = PROP. GI PIPE 50mm
-  = SUB BOX
-  = END BOX
-  = HUB BOX



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PROJECT TITLE: FIBER INSTALLATION AT TAMAN TRONOH AKASIA
DRAWING TITLE: SINGLE LINE DIAGRAM (48C) FOR TAMAN TRONOH AKASIA
DRAWING NO: TTdC <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
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KELULUSAN PLAN

Local Authorities:-

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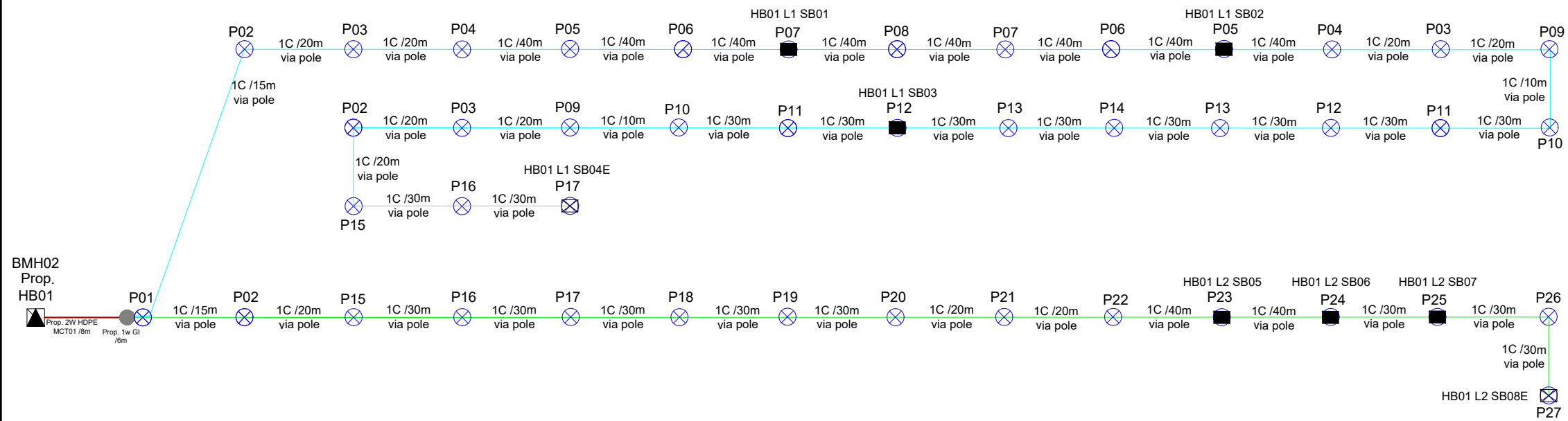
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- = PROP. 1W HDD
- = FOC 48C
- = FOC 1C - LINE 1
- = FOC 1C - LINE 2
- = FOC 1C - LINE 3
- = PROP. GI PIPE 50mm
- = SUB BOX
- = END BOX
- = HUB BOX

SB01 - 250m  
SB02 - 200m  
SB03 - 300m  
SB04E - 250m

SB05 - 300m  
SB06 - 50m  
SB07 - 50m  
SB08E - 100m



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PROJECT TITLE: FIBER INSTALLATION AT TAMAN TRONOH AKASIA
DRAWING TITLE: SINGLE LINE DIAGRAM (HB01) FOR TAMAN TRONOH AKASIA
DRAWING NO: TTdC <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
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APPROVED BY: -	INITIAL & DATE: -
















KELULUSAN PLAN

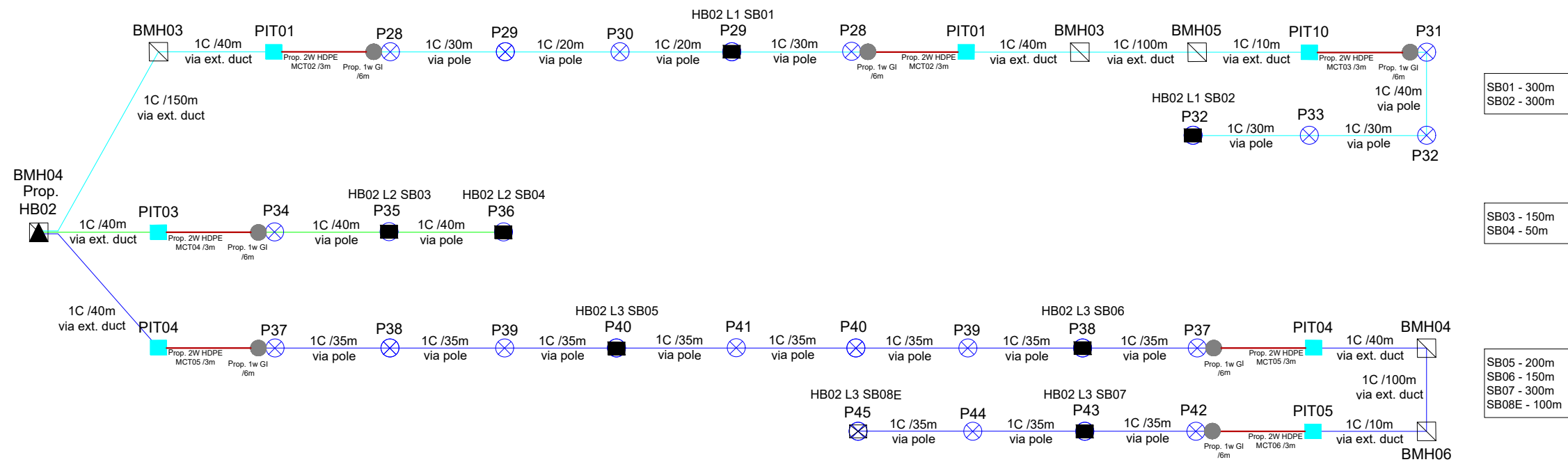
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-  = PROP. 1W HDD
-  = FOC 48C
-  = FOC 1C - LINE 1
-  = FOC 1C - LINE 2
-  = FOC 1C - LINE 3
-  = PROP. GI PIPE 50mm
-  = SUB BOX
-  = END BOX
-  = HUB BOX



SB01 - 300m  
SB02 - 300m

SB03 - 150m  
SB04 - 50m

SB05 - 200m  
SB06 - 150m  
SB07 - 300m  
SB08E - 100m

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PROJECT TITLE: FIBER INSTALLATION AT TAMAN TRONOH AKASIA
DRAWING TITLE: SINGLE LINE DIAGRAM (HB02) FOR TAMAN TRONOH AKASIA
DRAWING NO: TTdC <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
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KELULUSAN PLAN

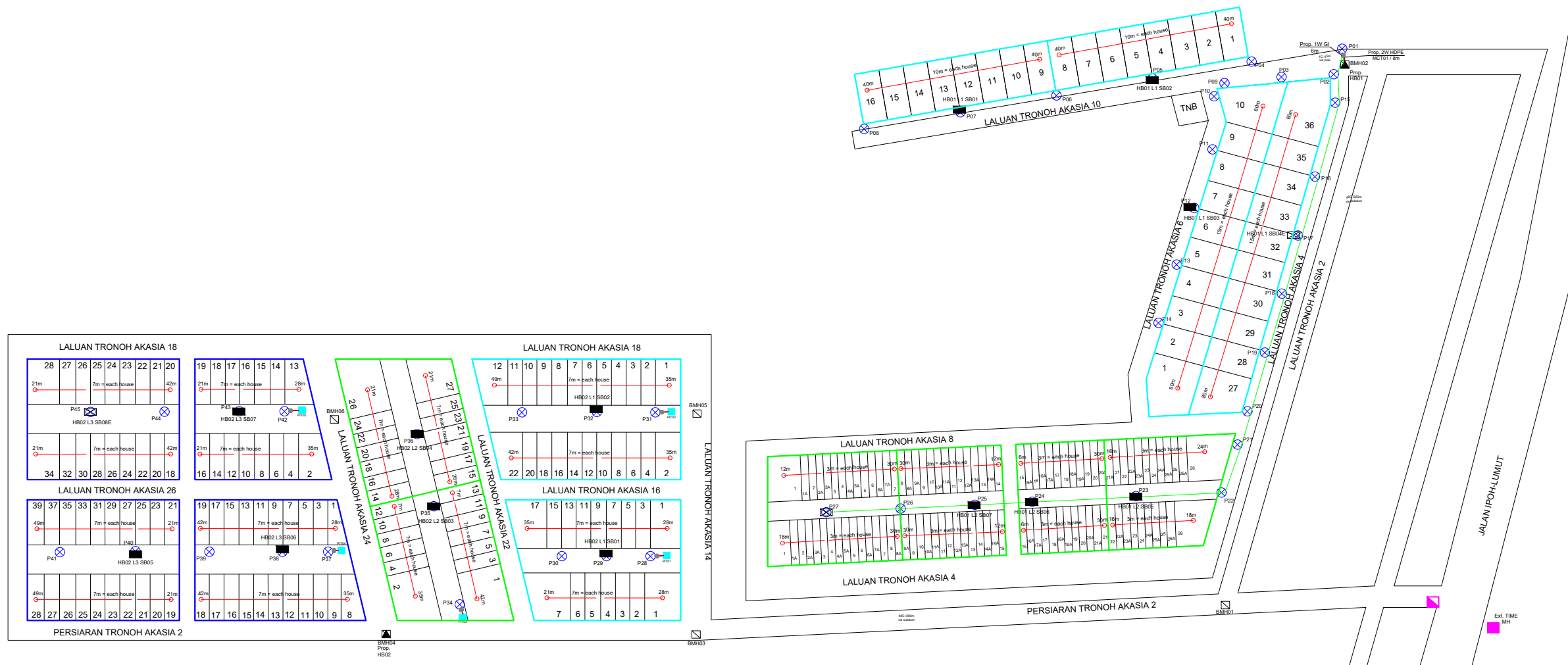
Local Authorities:-

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- = PROP. 2W MCT 40mm HDPE
- = PROP. 1W HDD
- = FOC 48C
- = FOC 1C - LINE 1
- = FOC 1C - LINE 2
- = FOC 1C - LINE 3
- = PROP. GI PIPE 50mm
- = SUB BOX
- = END BOX
- = HUB BOX



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PROJECT TITLE: FIBER INSTALLATION AT TAMAN TRONOH AKASIA
DRAWING TITLE: BOUNDARY FOR TAMAN TRONOH AKASIA
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## **2.3 Total Homepass**

**SDU Taman Tronoh Akasia**

(TOTAL HOMEPASS = 280)

No	Block Name	Address of Resident	Coordinate	No of Unit	Total No of Unit	HB - Line	SB	NISSCODE
1	Laluan Tronoh Akasia 10 (No 9-16)(RDF)	No 9-16, Laluan Tronoh Akasia 10, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.406127°, 100.983189°	No 9-16	8	HB01 - L1	SB01	
2	Laluan Tronoh Akasia 10 (No 1-8)(RDF)	No 1-8, Laluan Tronoh Akasia 10, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.406253°, 100.983924°	No 1-8	8	HB01 - L1	SB02	
3	Laluan Tronoh Akasia 6 (No 1-10)(RDF)	No 1-10, Laluan Tronoh Akasia 6, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.405534°, 100.984075°	No 1-10	10	HB01 - L1	SB03	
4	Laluan Tronoh Akasia 4 (No 27-36)(RDF)	No 27-36, Laluan Tronoh Akasia 4, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.405391°, 100.984461°	No 27-36	10	HB01 - L1	SB04E	
5	Laluan Tronoh Akasia 8 (No 21A-26)(RDF)	No 21A-26, Laluan Tronoh Akasia 8, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404520°, 100.983949°	No 21A-26	12	HB01 - L2	SB05	
6	Laluan Tronoh Akasia 4 (No 22-26)(RDF)	No 22-26, Laluan Tronoh Akasia 4, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404520°, 100.983949°	No 22-26	10	HB01 - L2	SB05	
7	Laluan Tronoh Akasia 8 (No 15-20A)(RDF)	No 15-20A, Laluan Tronoh Akasia 8, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404487°, 100.983549°	No 15-20A	12	HB01 - L2	SB06	
8	Laluan Tronoh Akasia 4 (No 16-21)(RDF)	No 16-21, Laluan Tronoh Akasia 4, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404487°, 100.983549°	No 16-21	12	HB01 - L2	SB06	
9	Laluan Tronoh Akasia 8 (No 8-14)(RDF)	No 8-14, Laluan Tronoh Akasia 8, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404473°, 100.983215°	No 8-14	14	HB01 - L2	SB07	
10	Laluan Tronoh Akasia 4 (No 9A-15)(RDF)	No 9A-15, Laluan Tronoh Akasia 4, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404473°, 100.983215°	No 9A-15	14	HB01 - L2	SB07	
11	Laluan Tronoh Akasia 8 (No 1-7)(RDF)	No 1-7, Laluan Tronoh Akasia 8, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404444°, 100.982798°	No 1-7	14	HB01 - L2	SB08E	
12	Laluan Tronoh Akasia 4 (No 1-8A)(RDF)	No 1-8A, Laluan Tronoh Akasia 4, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404444°, 100.982798°	No 1-8A	16	HB01 - L2	SB08E	
13	Persiarian Tronoh Akasia 2 (No 1-7)(RDF)	No 1-7, Persiarian Tronoh Akasia 2, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404256°, 100.981673°	No 1-7	7	HB02 - L1	SB01	
14	Laluan Tronoh Akasia 16 (No 1-17)(Odd)(RDF)	No 1-17, Laluan Tronoh Akasia 16, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404256°, 100.981673°	No 1-17	9	HB02 - L1	SB01	
15	Laluan Tronoh Akasia 16 (No 2-22)(Even)(RDF)	No 2-22, Laluan Tronoh Akasia 16, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404817°, 100.981633°	No 2-22	11	HB02 - L1	SB02	
16	Laluan Tronoh Akasia 18 (No 1-12)(RDF)	No 1-12, Laluan Tronoh Akasia 18, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404817°, 100.981633°	No 1-12	12	HB02 - L1	SB02	
17	Laluan Tronoh Akasia 22 (No 1-13)(Odd)(RDF)	No 1-13, Laluan Tronoh Akasia 22, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404340°, 100.980975°	No 1-13	7	HB02 - L2	SB03	
18	Laluan Tronoh Akasia 24 (No 2-12)(Even)(RDF)	No 2-12, Laluan Tronoh Akasia 24, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404340°, 100.980975°	No 2-12	6	HB02 - L2	SB03	
19	Laluan Tronoh Akasia 22 (No 15-27)(Odd)(RDF)	No 15-27, Laluan Tronoh Akasia 22, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404649°, 100.980887°	No 15-27	7	HB02 - L2	SB04	
20	Laluan Tronoh Akasia 24 (No 14-26)(Even)(RDF)	No 14-26, Laluan Tronoh Akasia 24, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404649°, 100.980887°	No 14-26	7	HB02 - L2	SB04	
21	Persiarian Tronoh Akasia 2 (No 19-28)(RDF)	No 19-28, Persiarian Tronoh Akasia 2, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404350°, 100.979578°	No 19-28	10	HB02 - L3	SB05	
22	Laluan Tronoh Akasia 26 (No 21-39)(Odd)(RDF)	No 21-39, Laluan Tronoh Akasia 26, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404350°, 100.979578°	No 21-39	10	HB02 - L3	SB05	
23	Persiarian Tronoh Akasia 2 (No 8-18)(RDF)	No 8-18, Persiarian Tronoh Akasia 2, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404310°, 100.980240°	No 8-18	11	HB02 - L3	SB06	
24	Laluan Tronoh Akasia 26 (No 1-19)(Odd)(RDF)	No 1-19, Laluan Tronoh Akasia 26, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404310°, 100.980240°	No 1-19	10	HB02 - L3	SB06	
25	Laluan Tronoh Akasia 26 (No 2-16)(Even)(RDF)	No 2-16, Laluan Tronoh Akasia 26, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404830°, 100.980207°	No 2-16	8	HB02 - L3	SB07	
26	Laluan Tronoh Akasia 18 (No 13-19)(RDF)	No 13-19, Laluan Tronoh Akasia 18, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404830°, 100.980207°	No 13-19	7	HB02 - L3	SB07	
27	Laluan Tronoh Akasia 26 (No 18-34)(Even)(RDF)	No 18-34, Laluan Tronoh Akasia 26, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404876°, 100.979607°	No 18-34	9	HB02 - L3	SB08E	
28	Laluan Tronoh Akasia 18 (No 20-28)(RDF)	No 20-28, Laluan Tronoh Akasia 18, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.404876°, 100.979607°	No 20-28	9	HB02 - L3	SB08E	
29	HB01 - Laluan Tronoh Akasia 4	Laluan Tronoh Akasia 4, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.406260°, 100.984614°					
30	HB02 - Persiarian Tronoh Akasia 2	Persiarian Tronoh Akasia 2, Taman Tronoh Akasia, 31750 Tronoh, Perak	4.403955°, 100.980736°					
<b>TOTAL</b>					<b>280</b>			



**3. APPENDIX B**

# **3.1 Site Photos**

## 1. Manhole



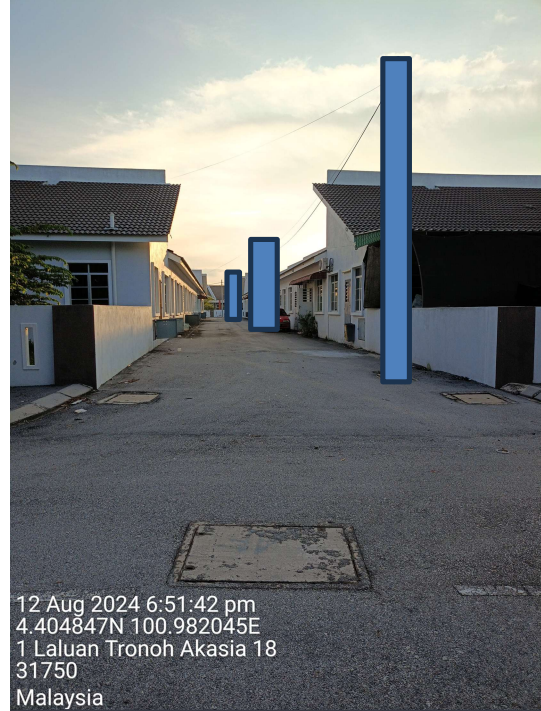
## 2. Pole – HB01 Line 1



3. Pole – HB01 Line 2



4. Pole – HB02 Line 1



5. Pole – HB02 Line 2



## 6. Pole – HB02 Line 3

