

	Contractor	SAL Network Design Sdn Bhd		
	SOW Ref	B12 - OSP Construction & Commissioning		
	LRD	ROUTE 1 (NORTHERN) LINK (SIMP-RLOH)		
	Subject	Fiber Technical Proposal		



Region	Northern		
KV/OKV	OKV		
Point A	SIMP	Point B	RLOH
Address	SIMP- LOT 2142, MUKIM JEBONG, SIMPANG, 34700 DAERAH LARUT & MATANG, PERAK RLOH: KAMPUNG TEMERLOH TEJA. 38000		
SIMP	4.873065, 100.674011		
RLOH	4.653388, 100.693416		
Structure Owner	MAXIS		

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Section 1: Proposal Sign-off Sheet

This proposal is contains the civil design proposal for **ROUTE 1 (NORTHERN) LINK (SIMP-RLOH) AT SIMP- LOT 2142, MUKIM JEBONG, SIMPANG, 34700 DAERAH LARUT & MATANG, PERAK RLOH: KAMPUNG TEMERLOH TEJA, 38000 LARUT MATANG, 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.

SAL NETWORK DESIGN SDN.BHD.

Name: _____

Designation: _____

Signature: _____

Check & Approved by: _____

Signature: _____

Submission Date: _____

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	17560	meter
a. Horizontal directional drilling	14480	meter
b. Carriage way open cut trenching	0	meter
c. Grass verge open cut trenching	3080	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. Ext Cable Ladder	0	meter
i. Existing Duct	0	meter

ITP trunking/riser length	0	meter
ITP cable length from Maxis fiber tapping point to new termination point at building/cabin	19,316.00	meter
No. of Proposed manhole	75	pc
No. of Total Existing manhole	3	pc
No. of Existing manhole	1	pc
No. of Existing missing manhole	0	pc
No. of Existing covered manhole	2	pc

Local council & authority approval requirement	17560	meter
a. JKR DAERAH LARUT, MATANG DAN SELAMA	7650	meter
b. MAJLIS PERBANDARAN TAIPING	7290	meter
c. LAND OWNER (LADANG SUNGAI LIMAU)	2620	meter

Estimated Cost of the Scheme/Project	0.00	RM
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Type of building:	TOWER
Address:	SIMP- LOT 2142, MUKIM JEBONG, SIMPANG, 34700 DAERAH LARUT & MATANG, PERAK RLOH: KAMPUNG TEMERLOH TEJA, 38000 LARUT MATANG, PERAK
Contact person:	
Contact no.:	

Existing Infrastructure Information

Preceding duct/sub-duct space	TAPPING EXIST MAXIS MH at JALAN BESAR (60) and JALAN KAMPUNG DEW (1)
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)
19	14

Implementation

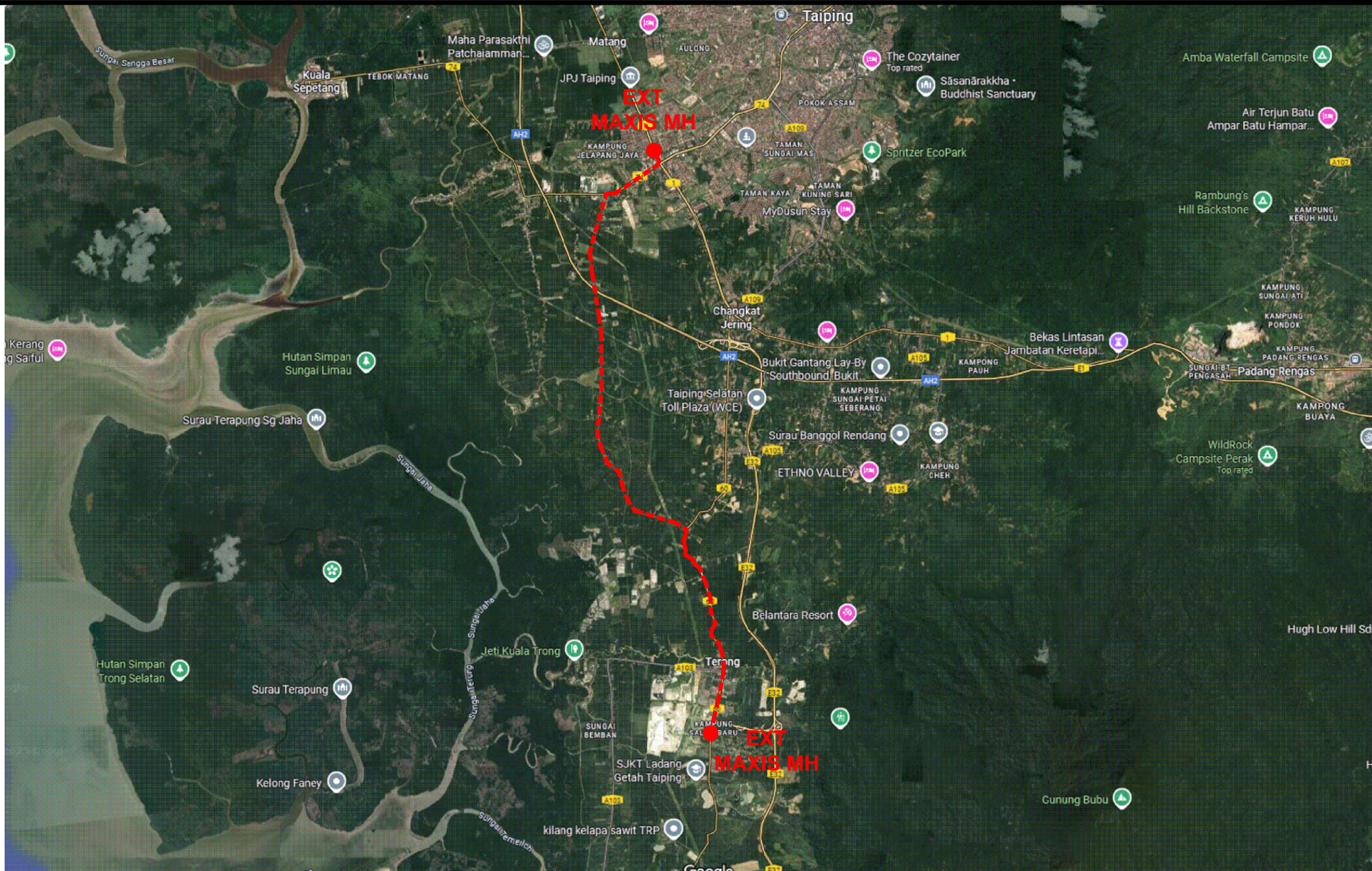
Method	Distance (m)	CW (Days)
Underground	17560	119
Pole	0	0
Total	17560	119

Date TP Submission
 Date CW Completed

Section 3

Vicidnity Map





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 50088 Kuala Lumpur

Title:

LOCATION PLAN FOR ROUTE 1 (NORTHERN) LINK (SIMP-RLOH)
 SIMP- LOT 2142, MUKIM JEBONG, SIMPANG, 34700 DAERAH LARUT & MATANG, PERAK
 RLOH: KAMPUNG TEMERLOH TEJA, 38000 LARUT MATANG, PERAK

Designed by:

SAL NETWORK DESIGN SDN BHD

Prepared by:

SAL NETWORK DESIGN SDN BHD

Job No:

Checked by:

M NAZIM

Date:

20/08/2025

File:

Approved by:

M NAZIM

Sheet no : 1 OF 11

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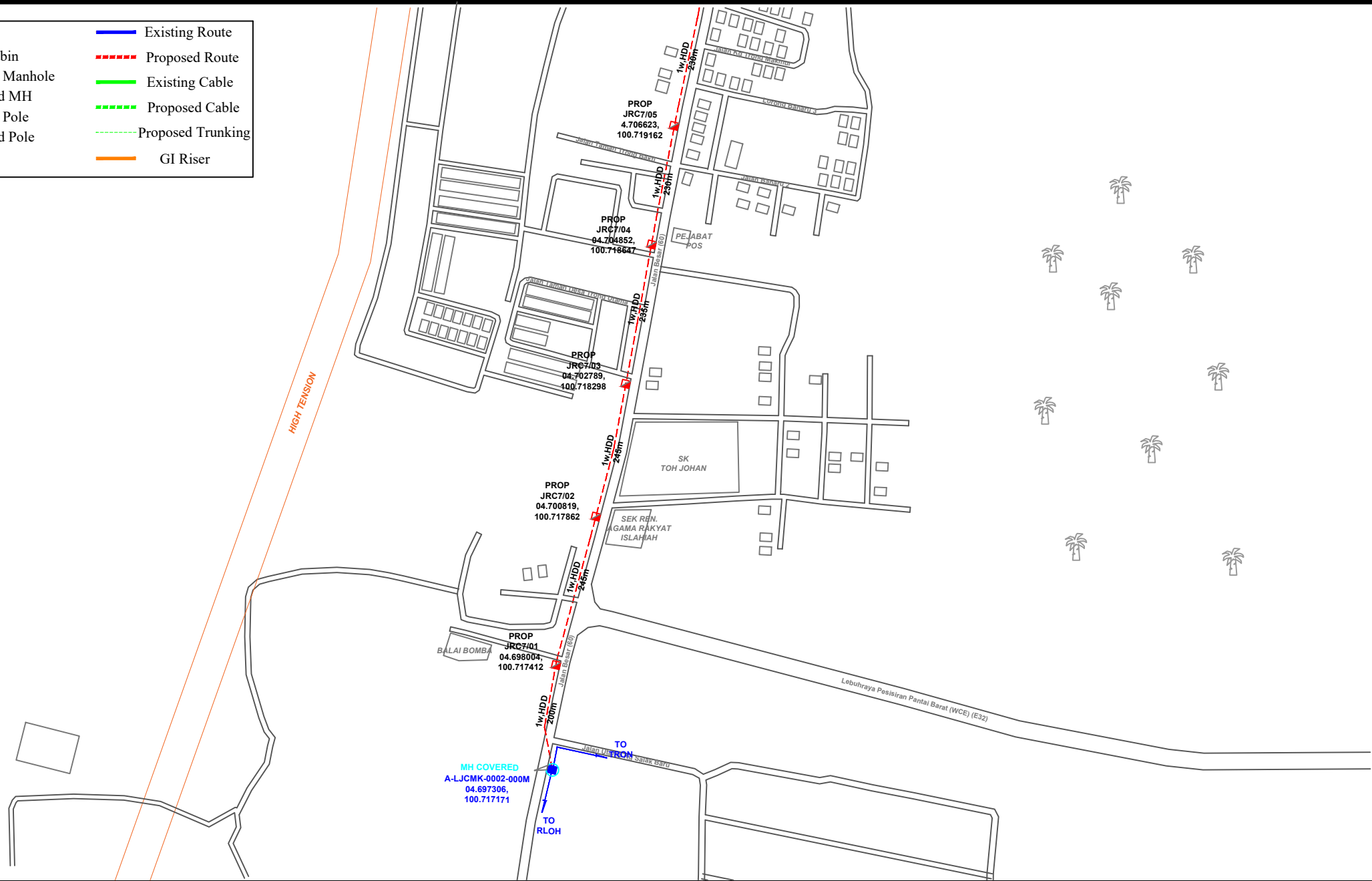
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Civil Infrastructure Route Plan & Permit



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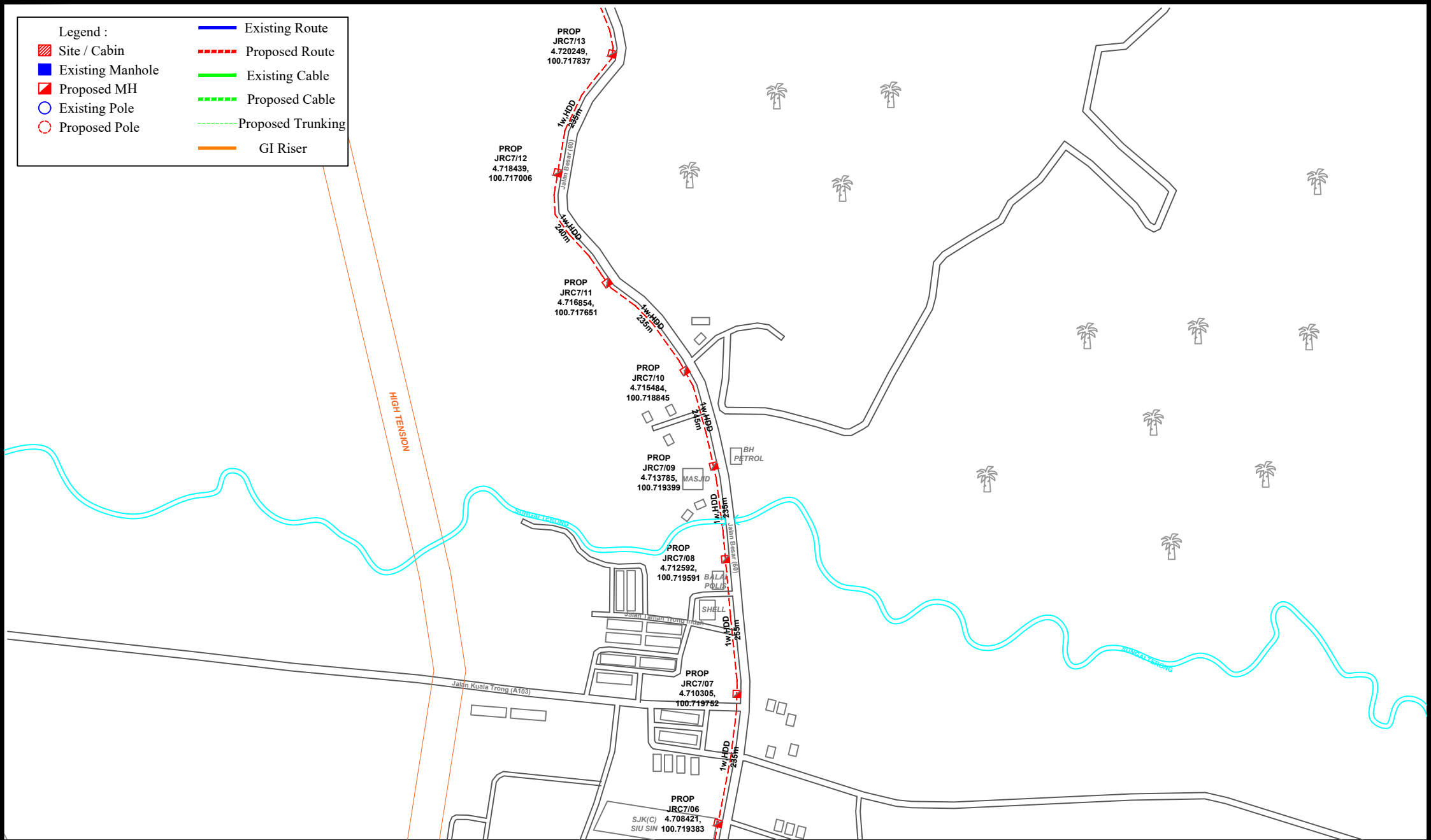
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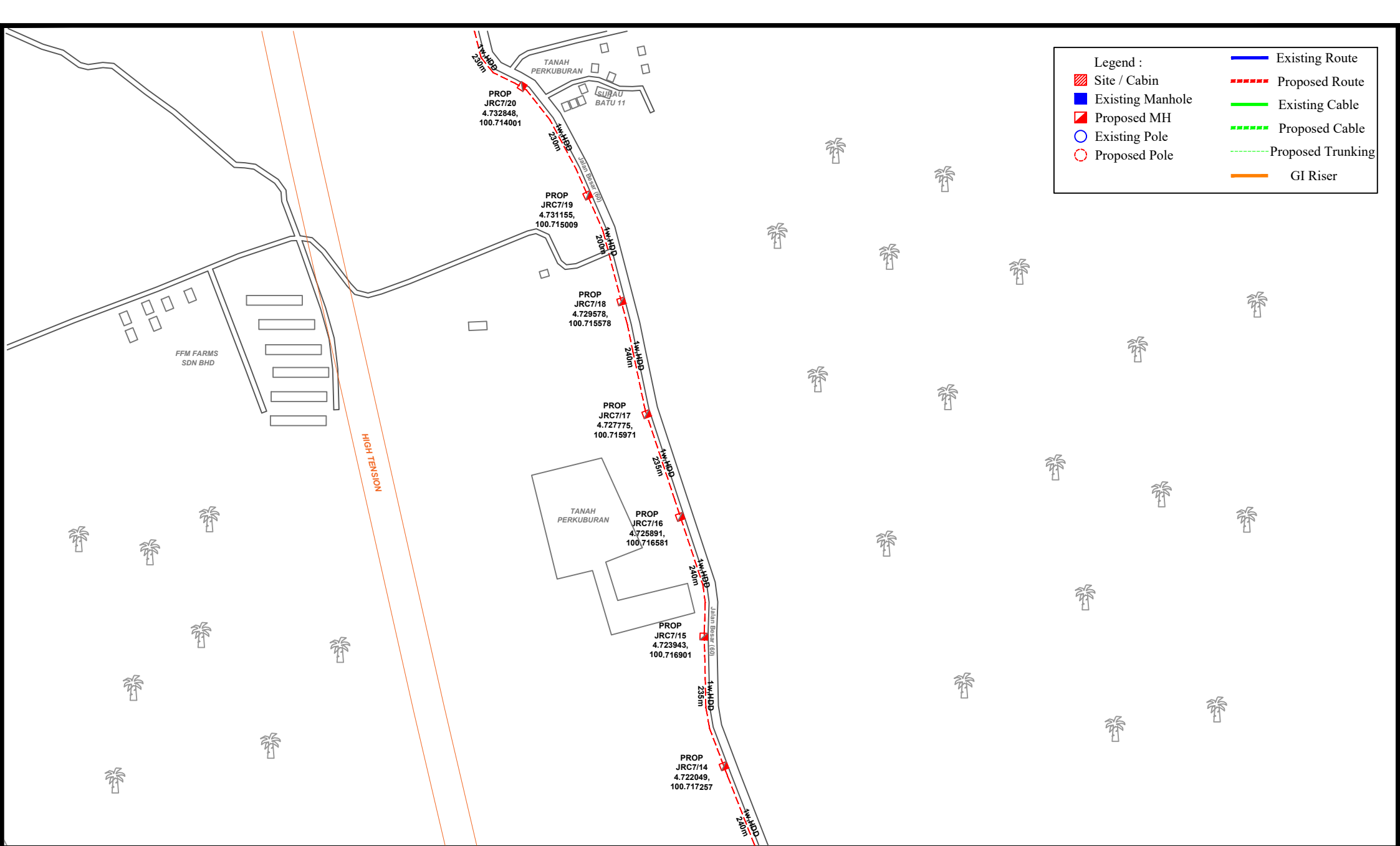
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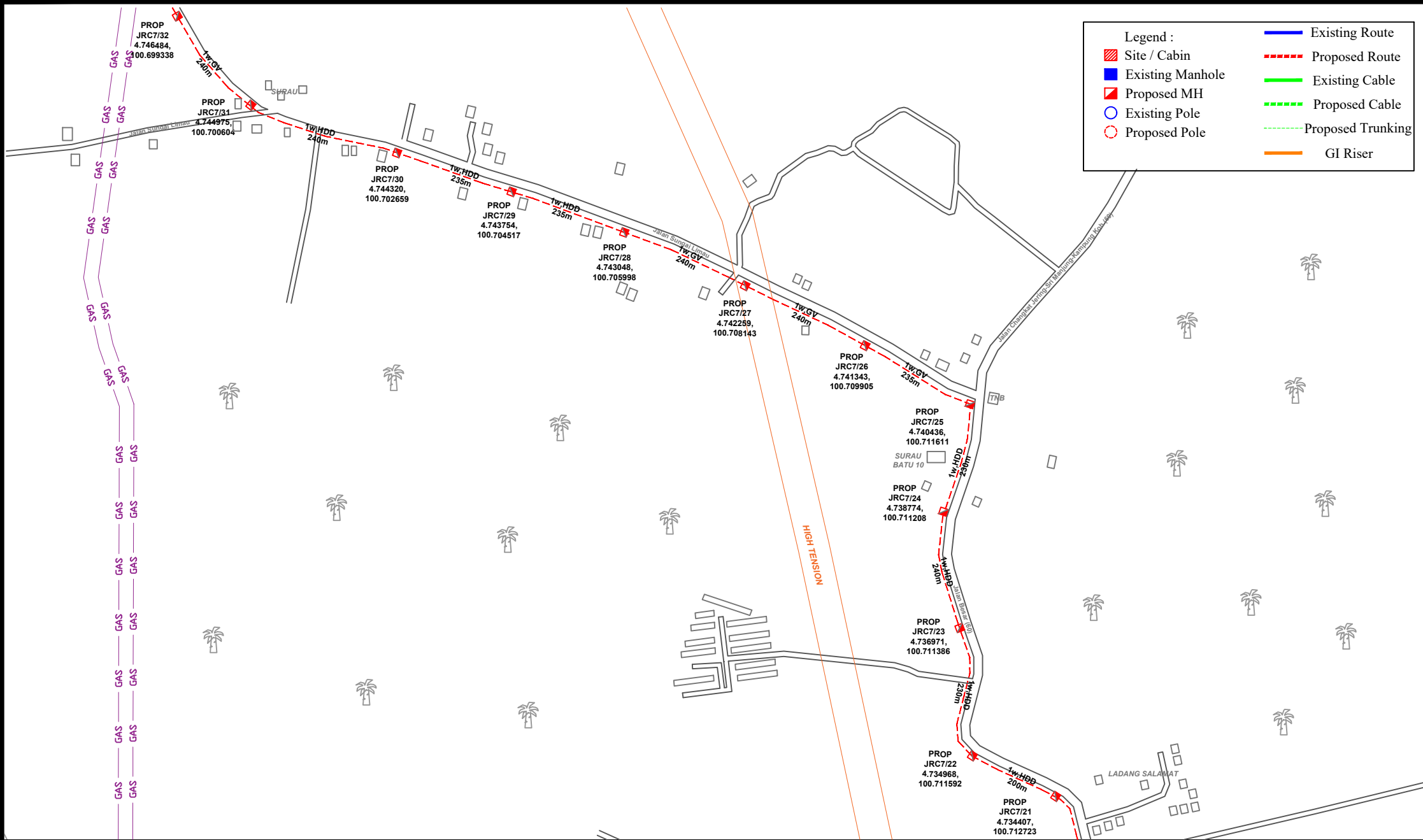


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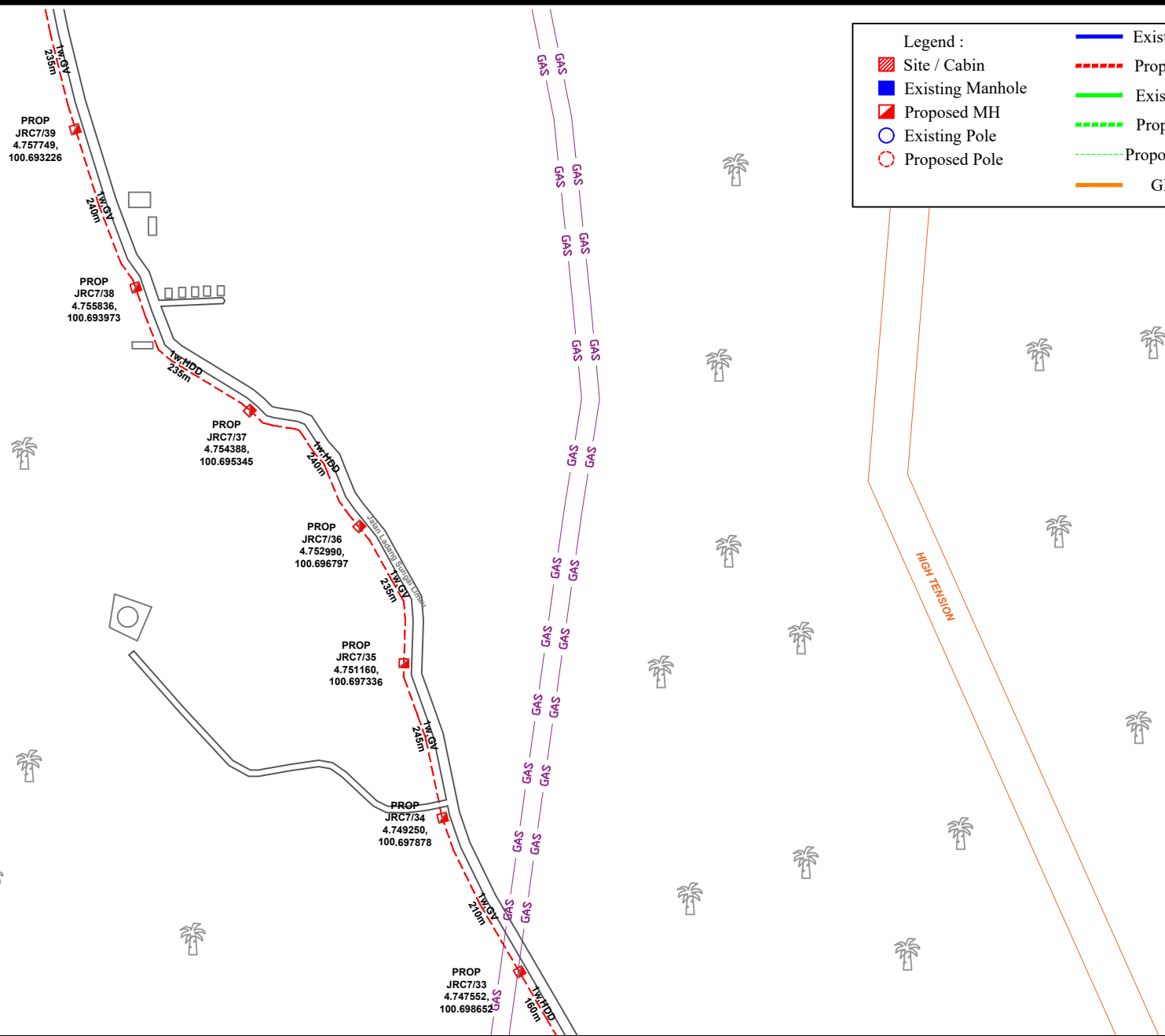
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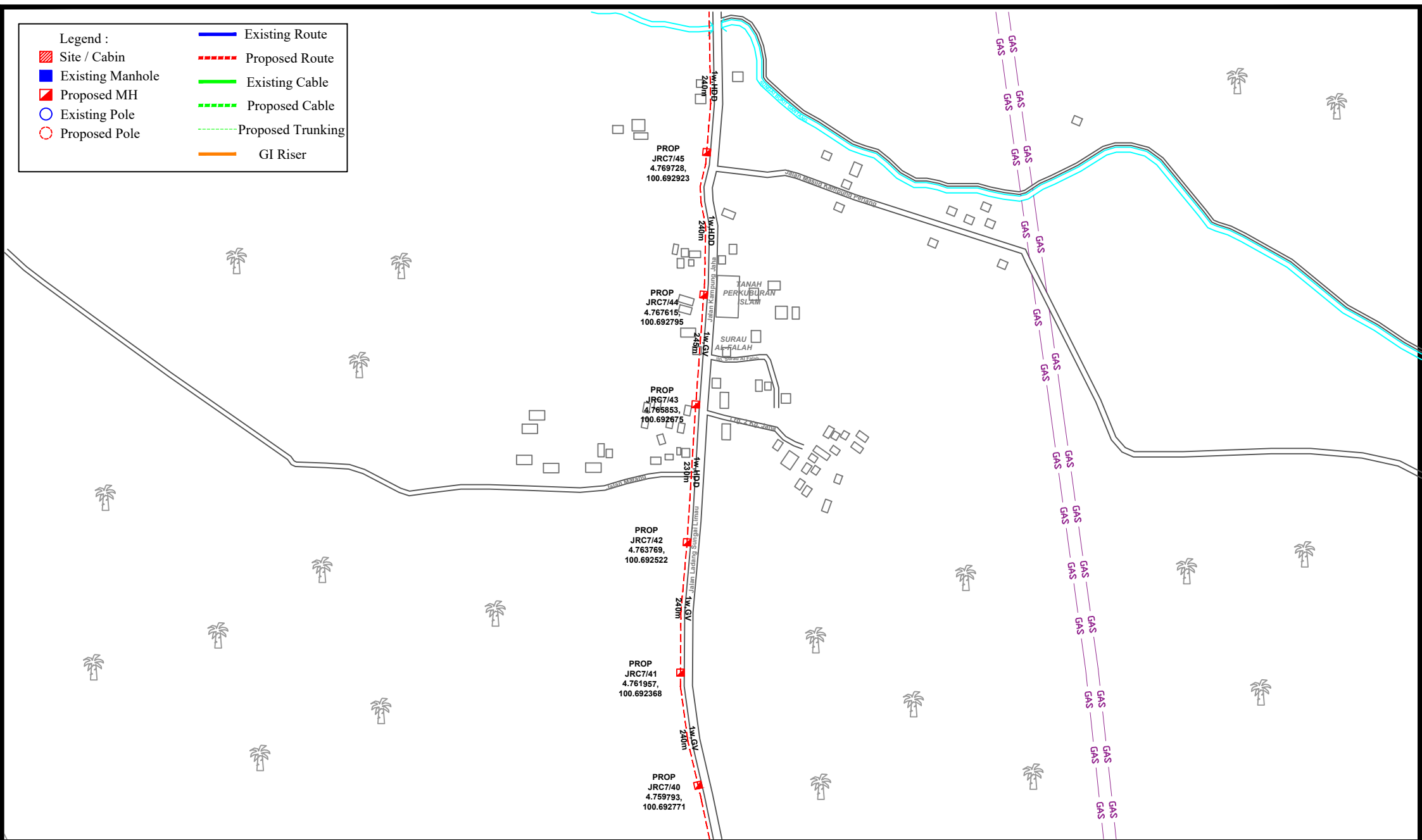
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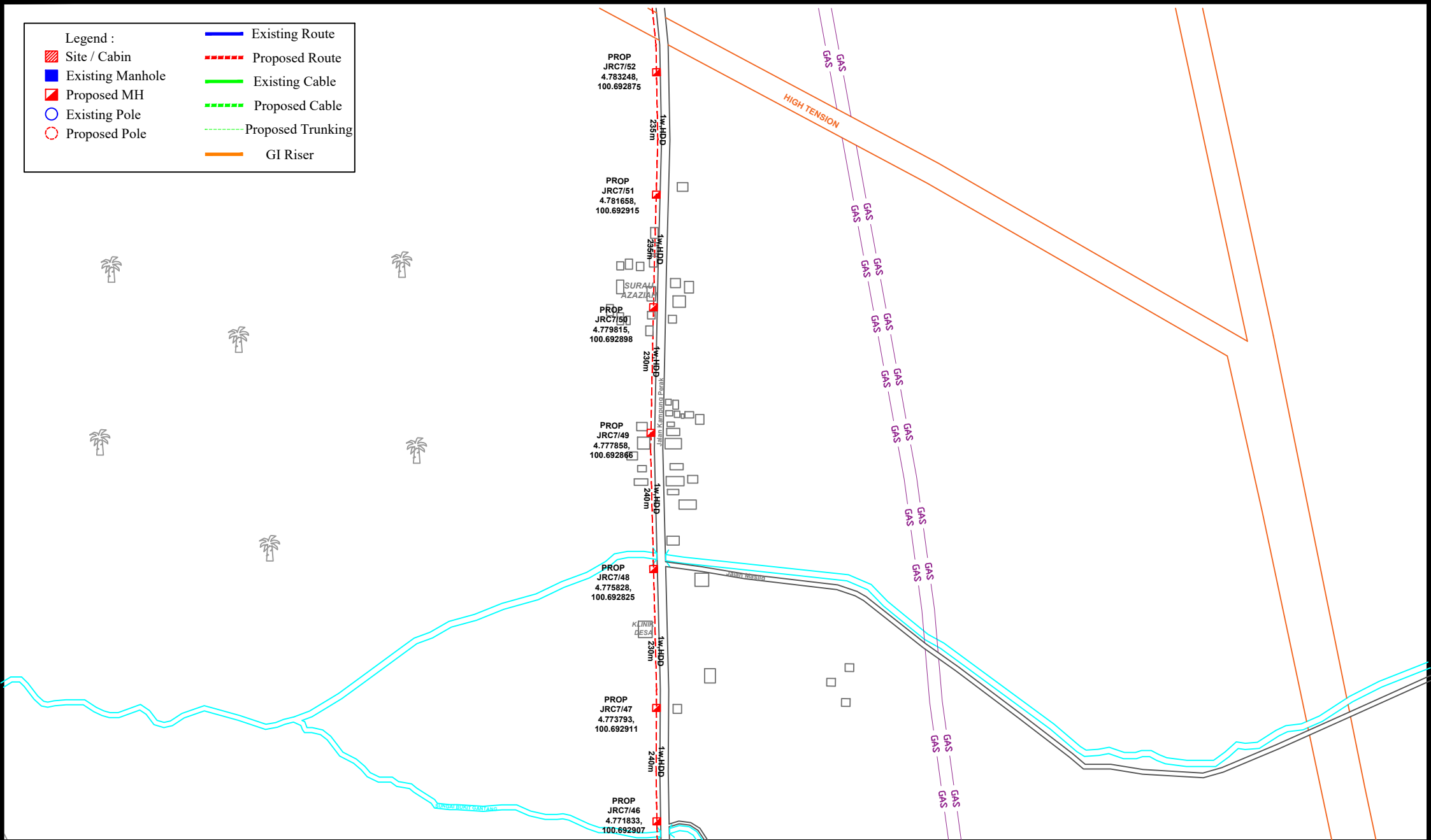
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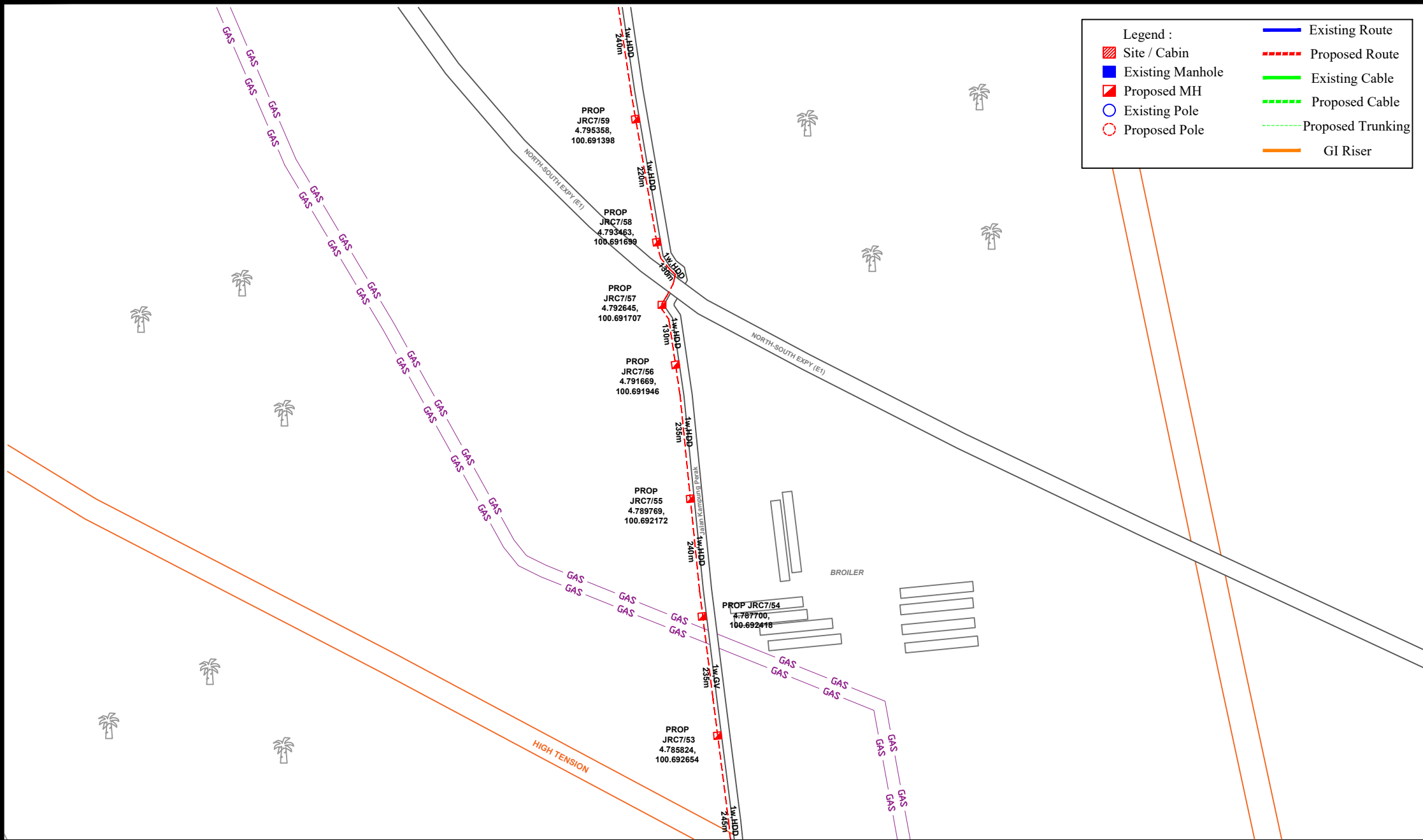
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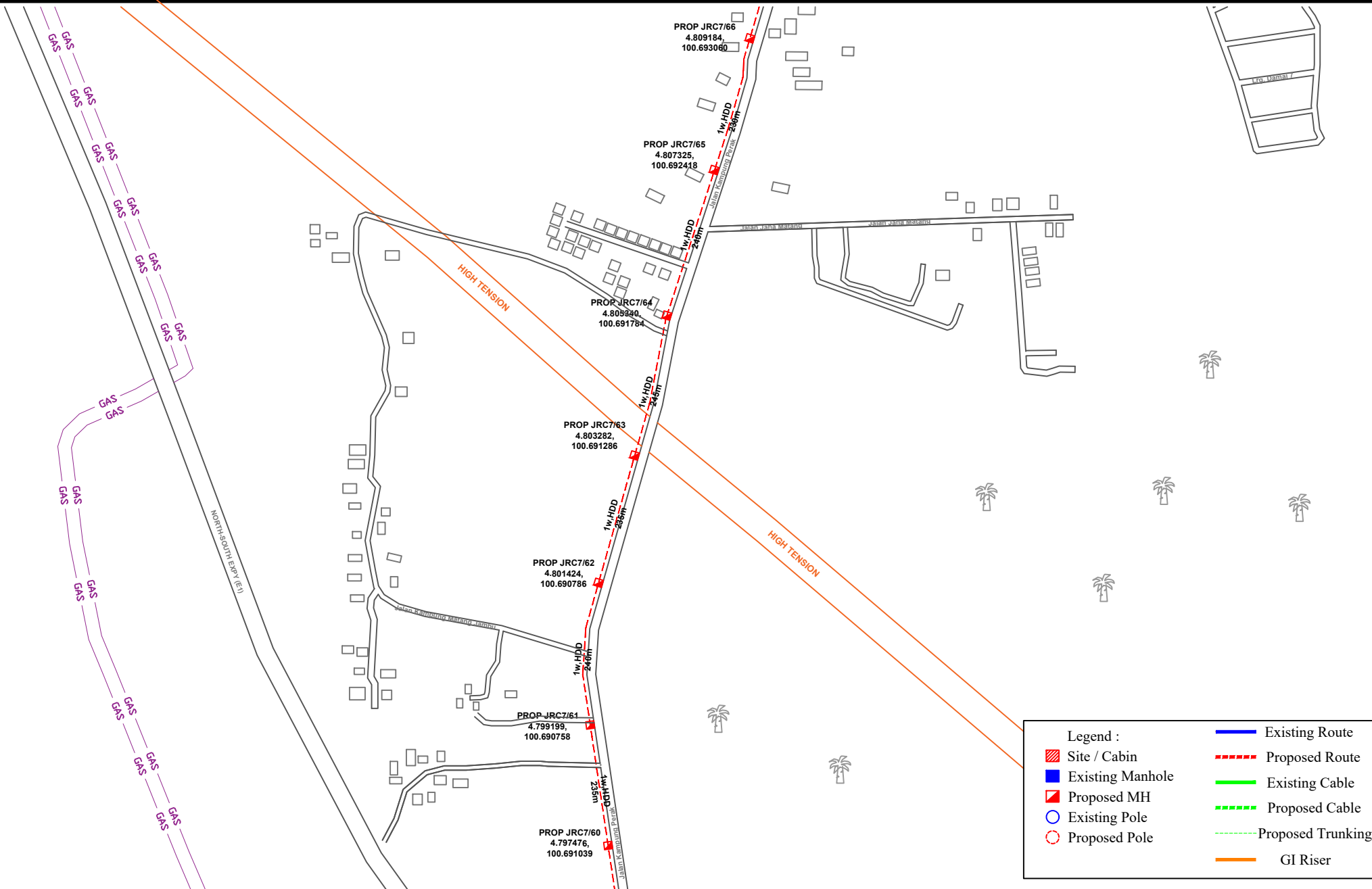
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50088 Kuala Lumpur

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RLOH: KAMPUNG TEMERLOH TEJA, 38000 LARUT
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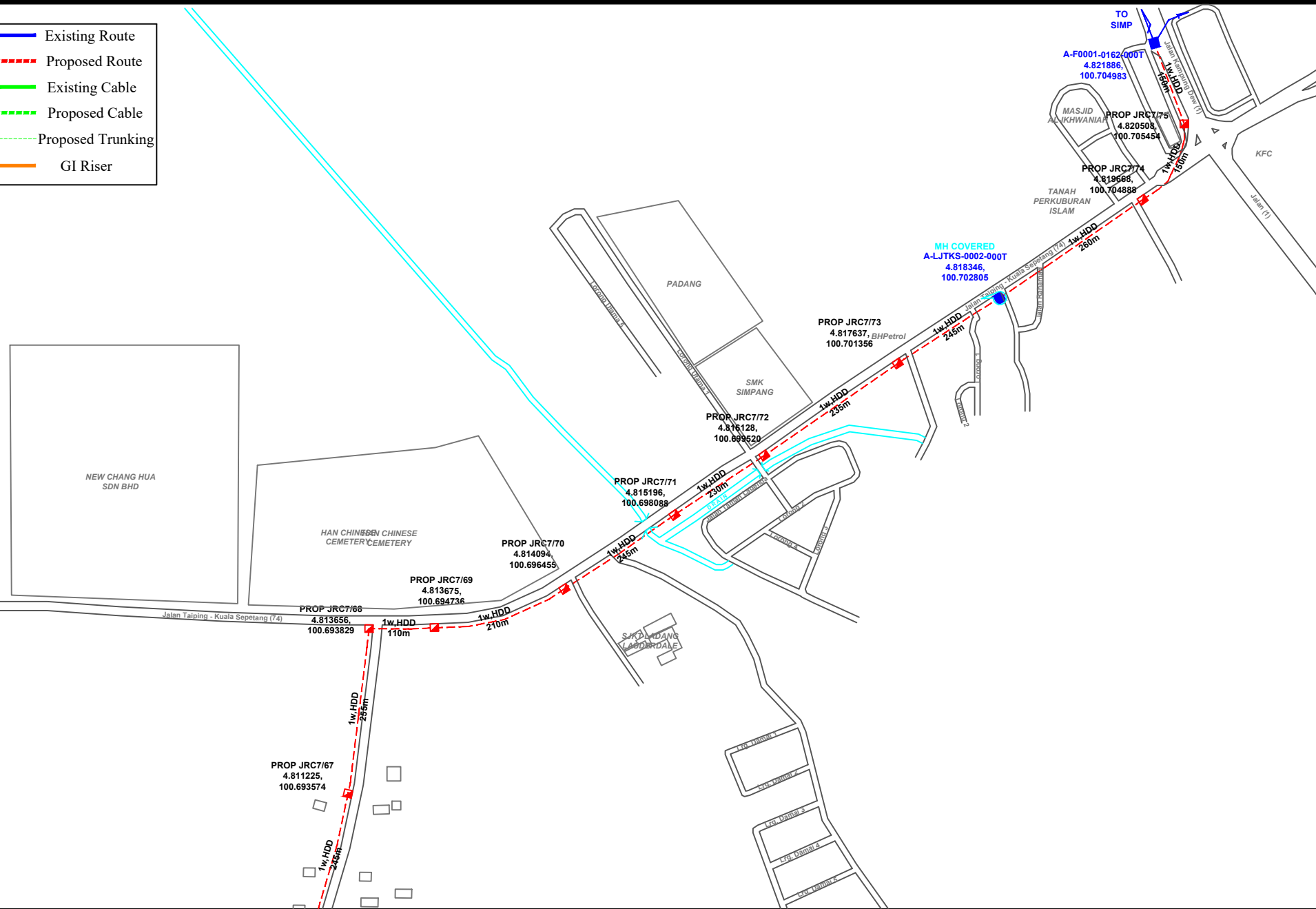
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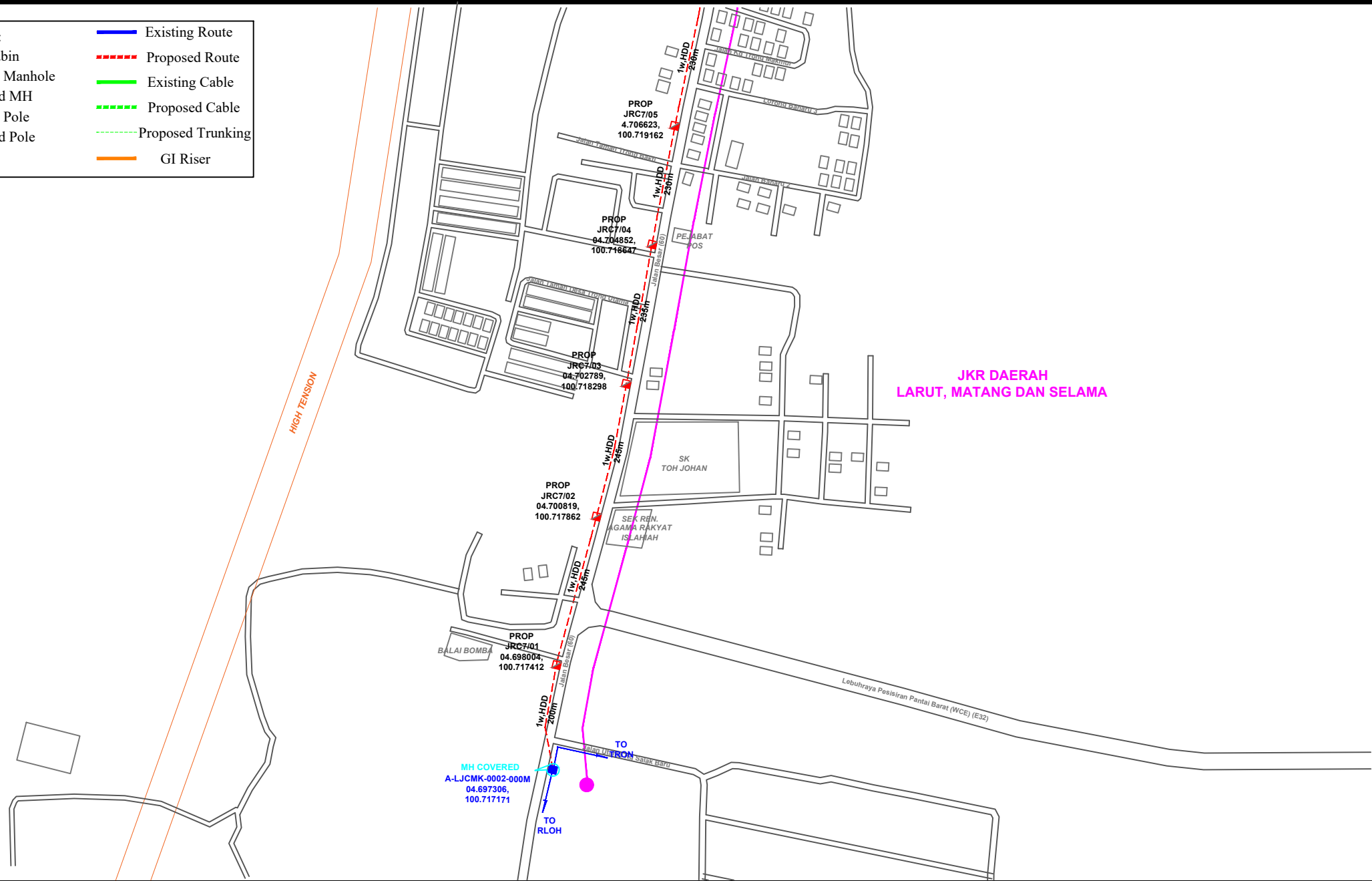
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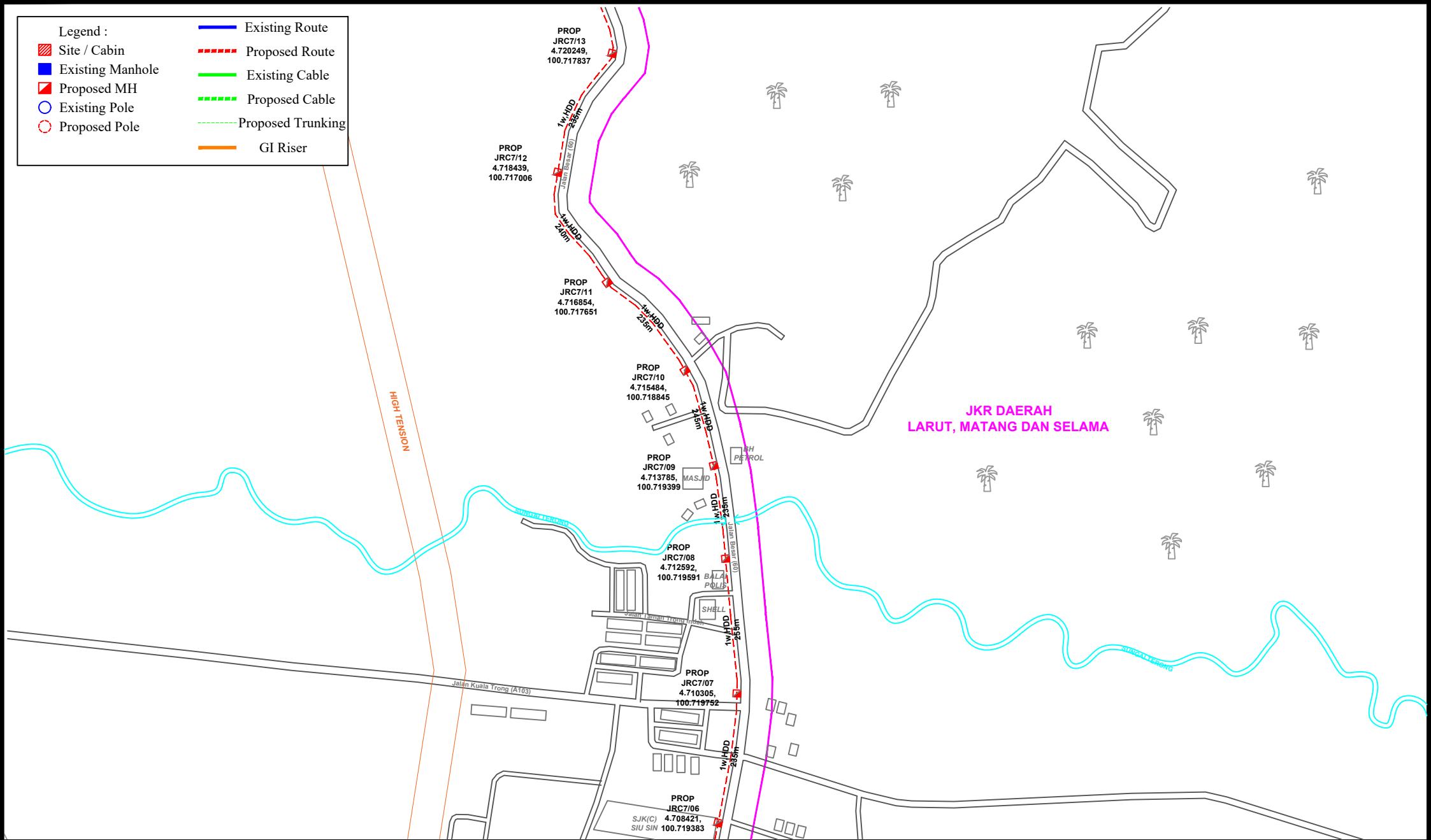
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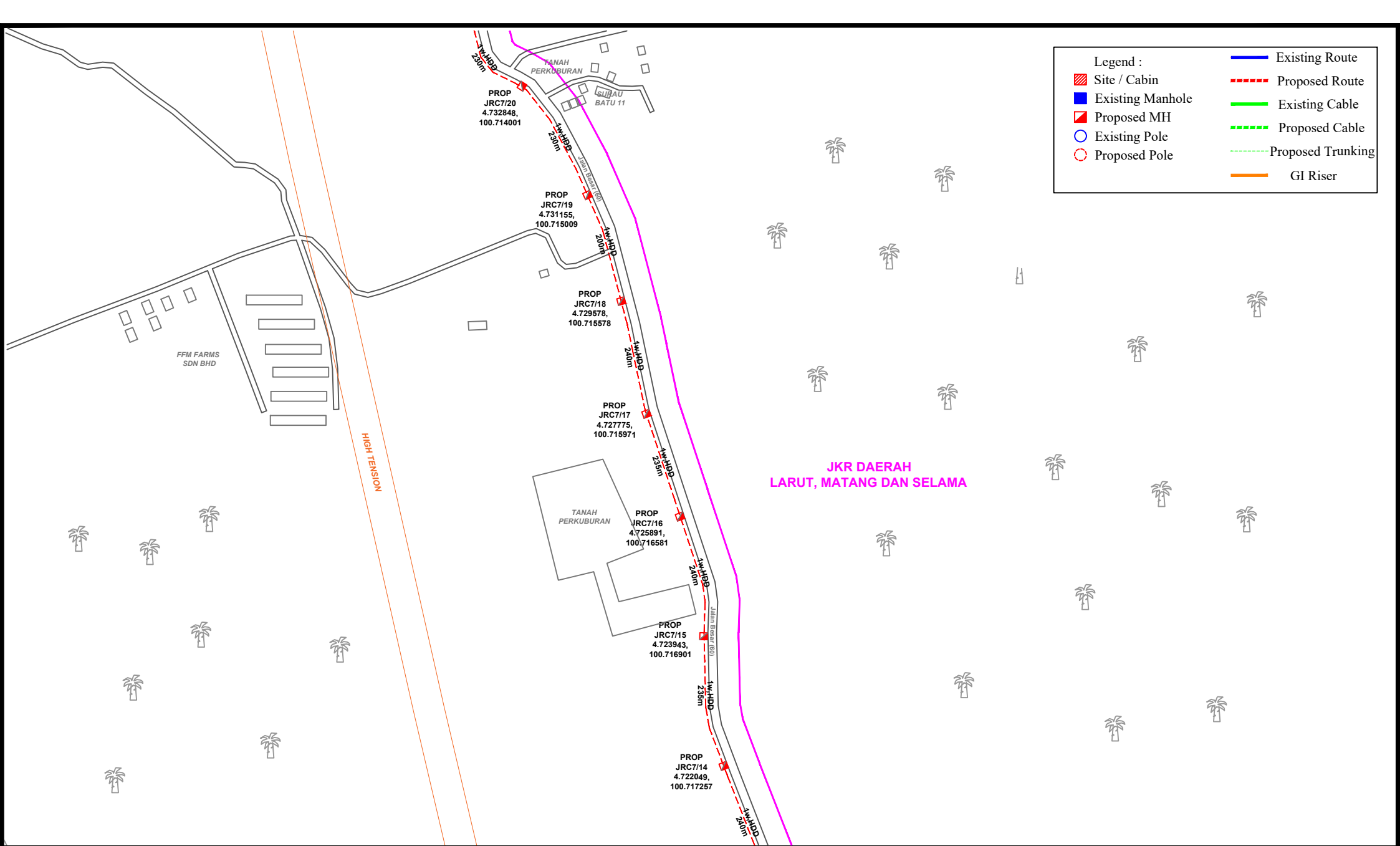
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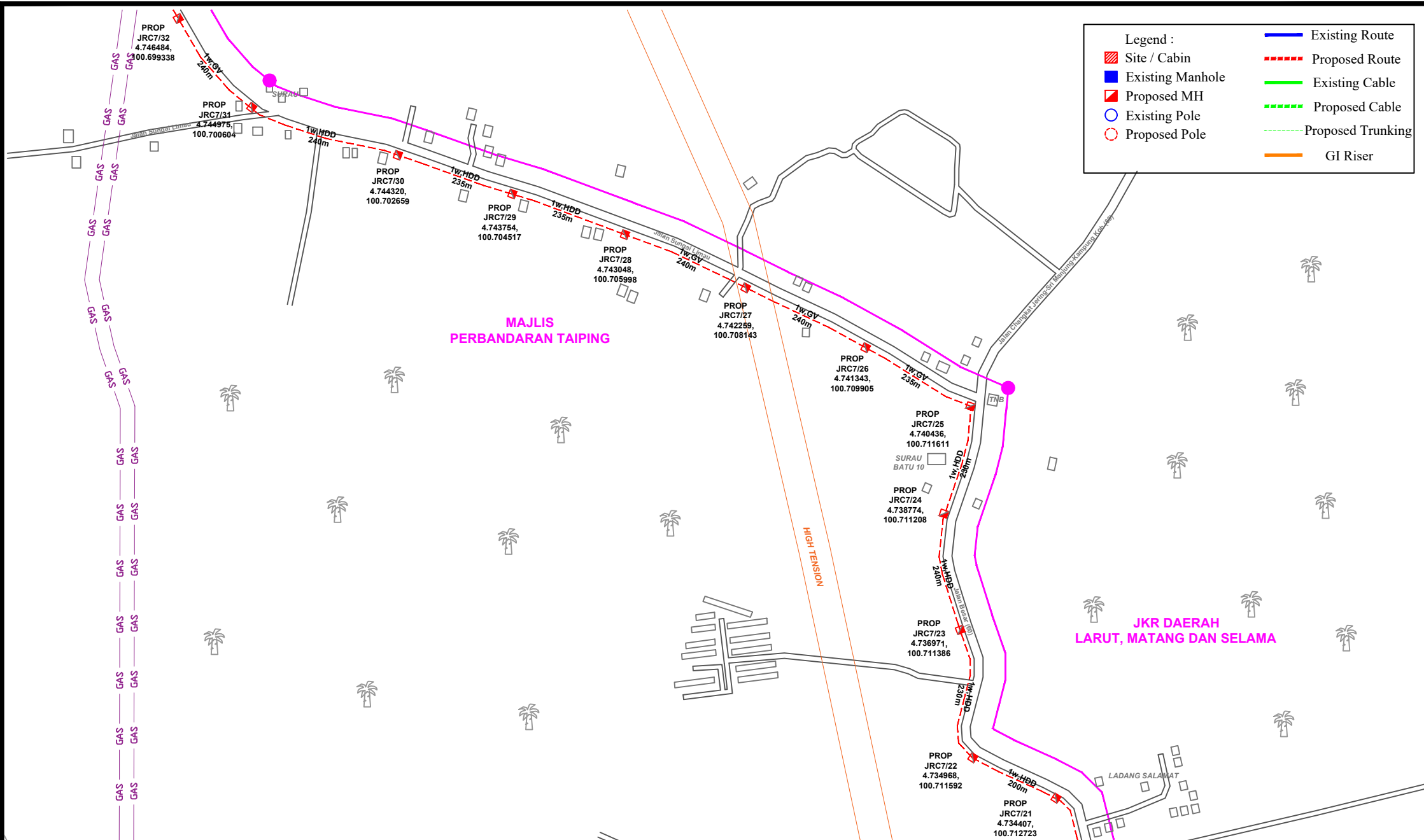
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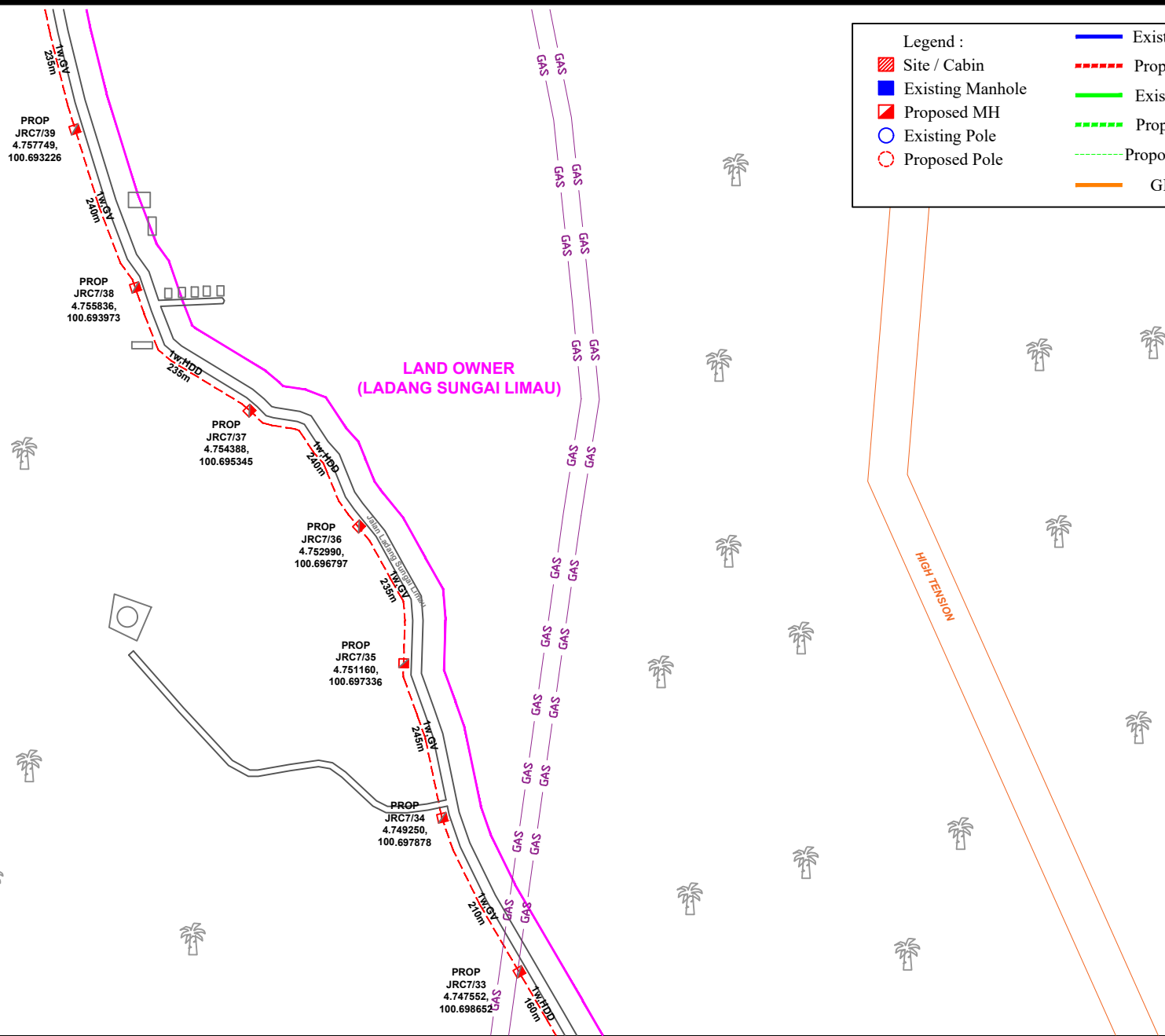
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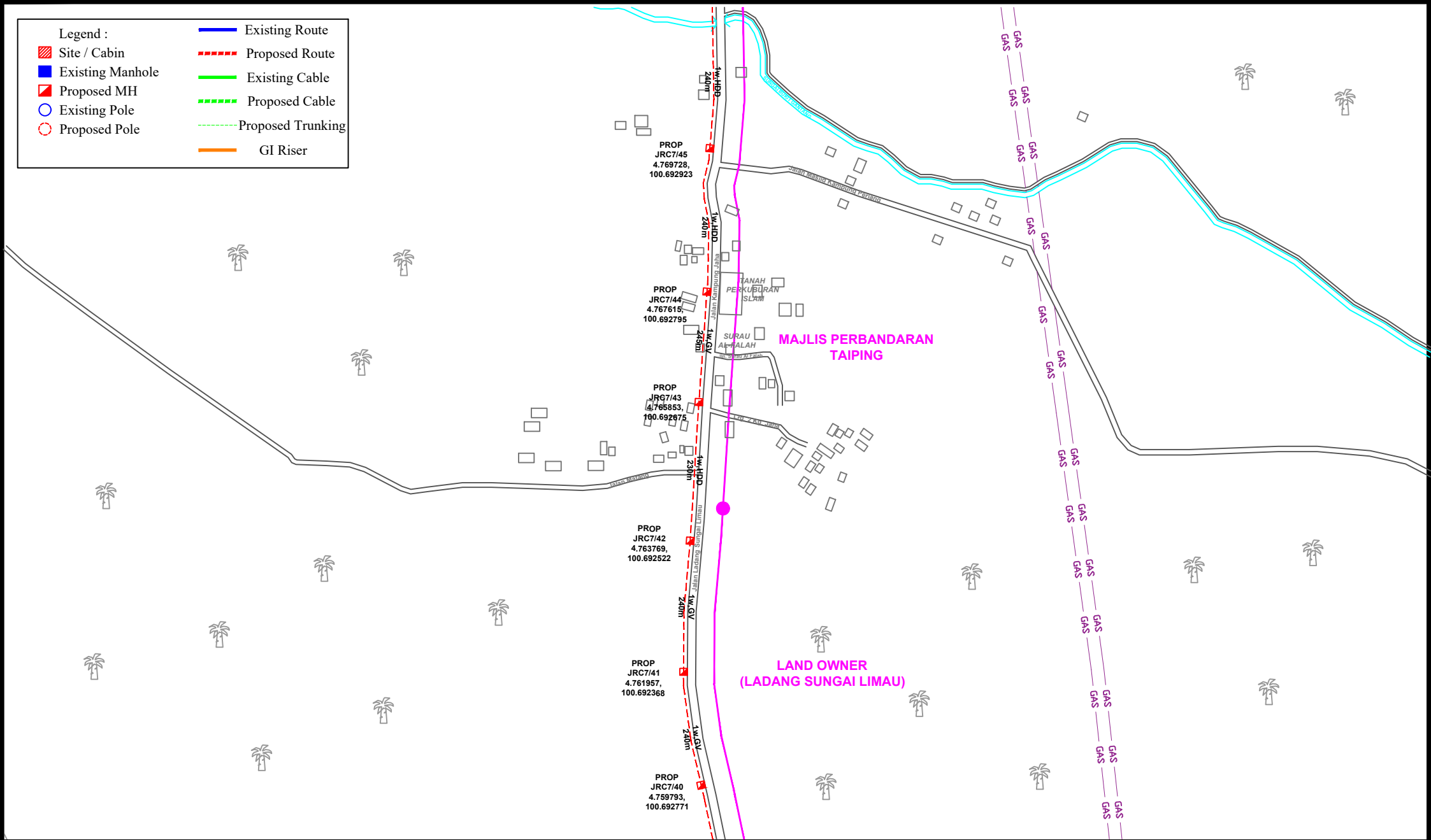
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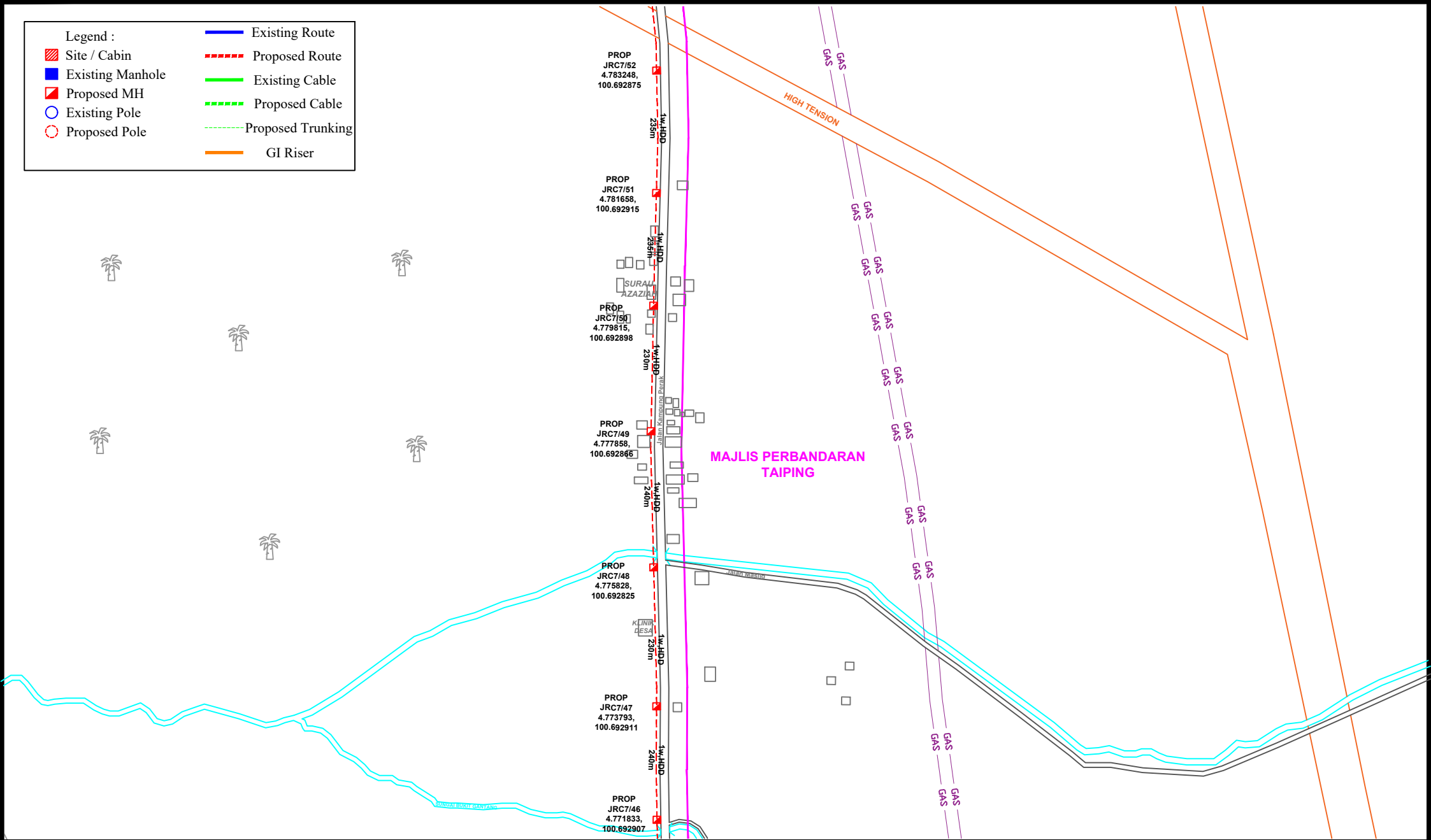
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	Job No:		File:	Rev:	

Legend :

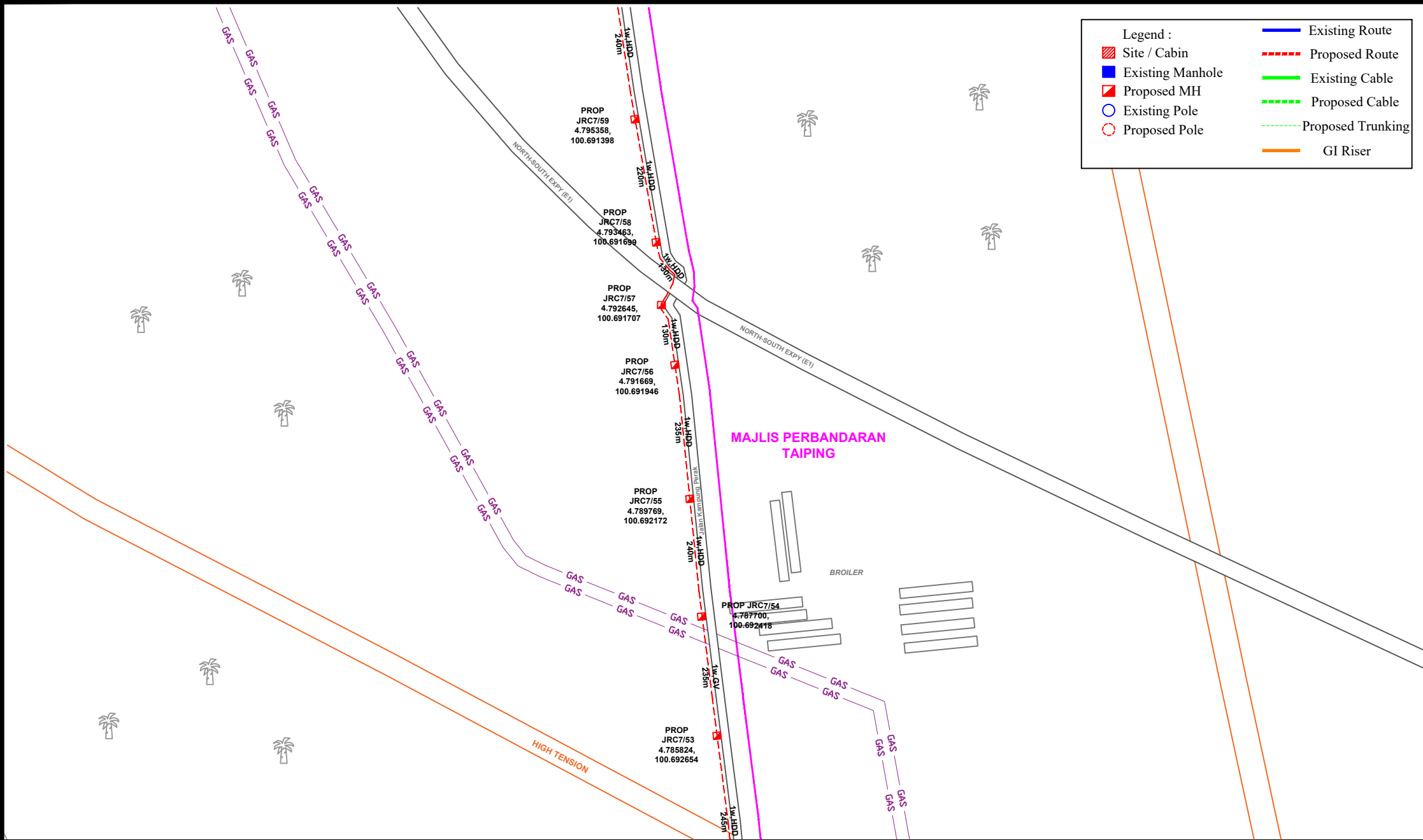
- Site / Cabin
- Existing Manhole
- Proposed MH
- Existing Pole
- Proposed Pole
- Existing Route
- Proposed Route
- Existing Cable
- Proposed Cable
- Proposed Trunking
- GI Riser



	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: AUTHORITY BOUNDARY PLAN FOR ROUTE 1 (NORTHERN) LINK (SIMP-ROH) SIMP- LOT 2142, MUKIM JEBONG, SIMPANG, 34700 DAERAH LARUT & MATANG, PERAK RLOH: KAMPUNG TEMERLOH TEJA, 38000 LARUT MATANG, PERAK	Designed by: SAL NETWORK DESIGN SDN BHD Prepared by: SAL NETWORK DESIGN SDN BHD Job No:	Checked by: M NAZIM Date: 20/08/2025 File:	Approved by: M NAZIM Sheet no : 7 OF 10 Rev:	

Legend :

- Site / Cabin
- Existing Manhole
- Proposed MH
- Existing Pole
- Proposed Pole
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- Proposed Route
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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:
 AUTHORITY BOUNDARY PLAN FOR ROUTE 1
 (NORTHERN) LINK (SIMP-RLOH)
 SIMP- LOT 2142, MUKIM JEBONG, SIMPANG, 34700
 DAERAH LARUT & MATANG, PERAK
 RLOH: KAMPUNG TEMERLOH TEJA, 38000 LARUT
 MATANG, PERAK

Designed by:
 SAL NETWORK DESIGN SDN BHD

Prepared by: SAL NETWORK DESIGN SDN BHD

Job No:

Checked by:
 M NAZIM

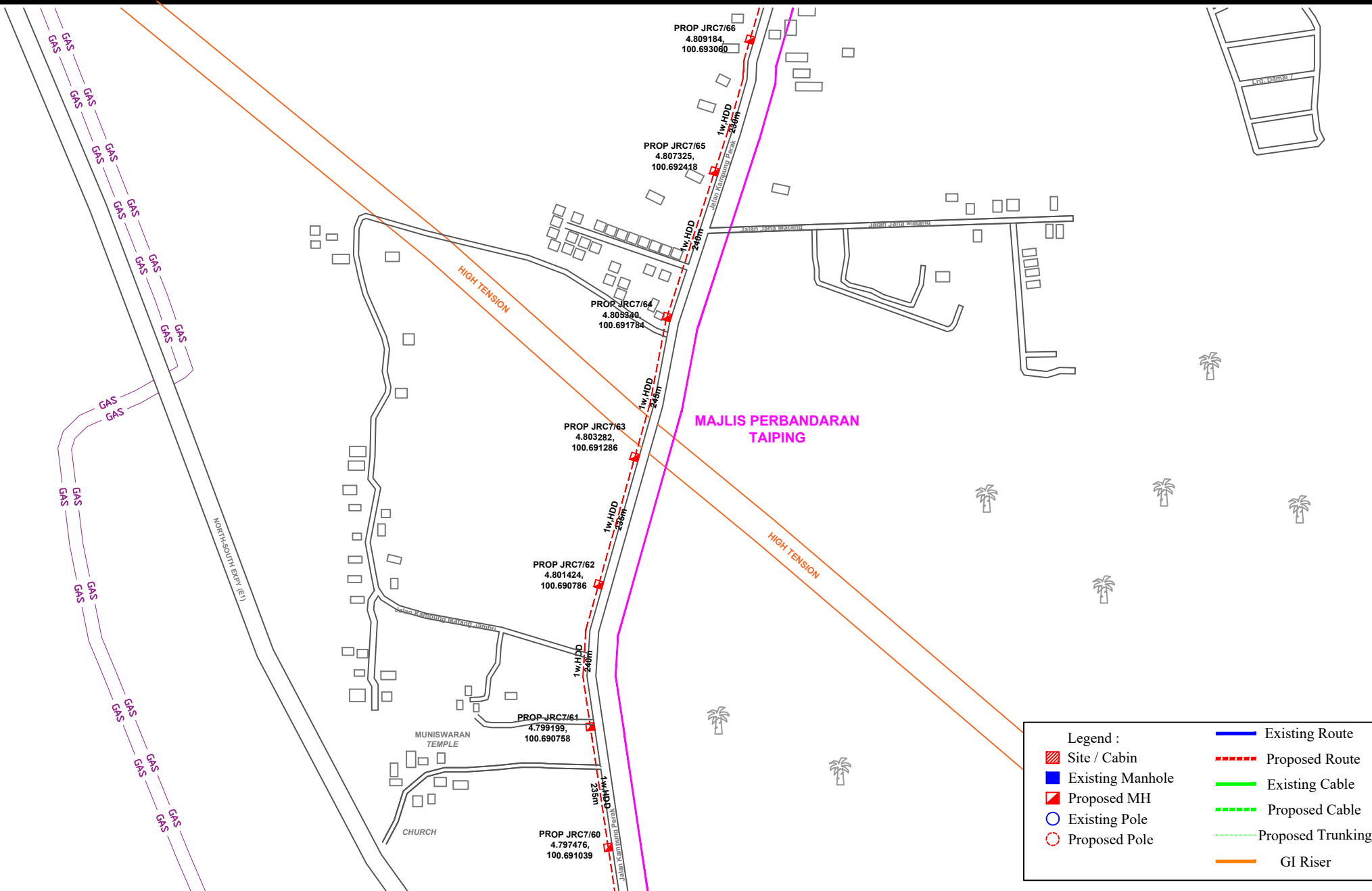
Date: 20/08/2025

File:

Approved by:
 M NAZIM

Sheet no : 8 OF 10

Rev:



Legend :	
	Site / Cabin
	Existing Manhole
	Proposed MH
	Existing Pole
	Proposed Pole
	Existing Route
	Proposed Route
	Existing Cable
	Proposed Cable
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MAXIS BROADBAND SDN BHD

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Designed by:

SAL NETWORK DESIGN SDN BHD

Prepared by:

SAL NETWORK
 DESIGN SDN BHD

Job No:

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M NAZIM

Date:

20/08/2025

File:

Approved by:

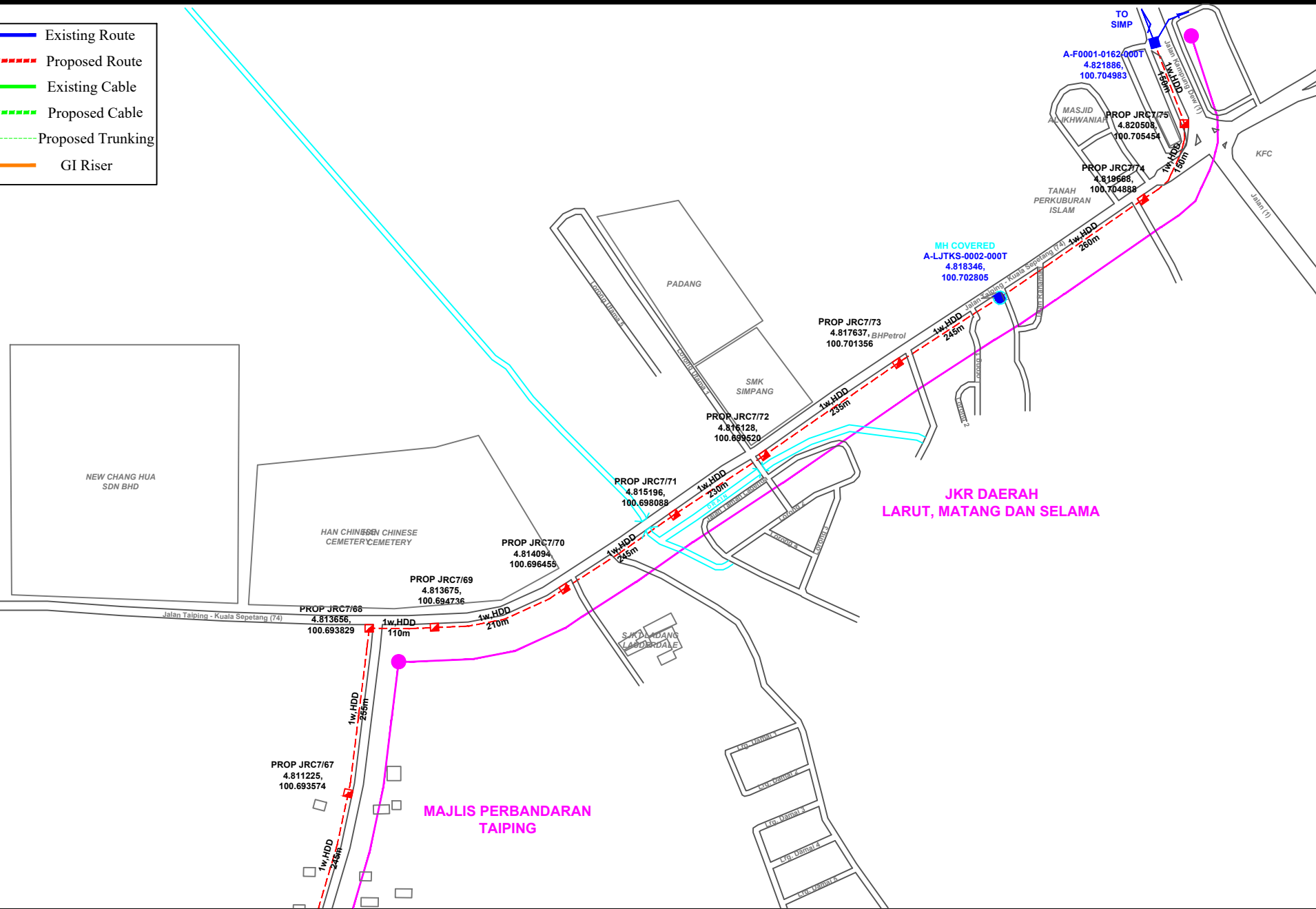
M NAZIM

Sheet no : 9 OF 10

Rev:

Legend :

- Site / Cabin
- Existing Manhole
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 SAL NETWORK DESIGN SDN BHD

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 M NAZIM

Date: 20/08/2025

File:

Approved by:
 M NAZIM

Sheet no : 10 OF 10

Rev:

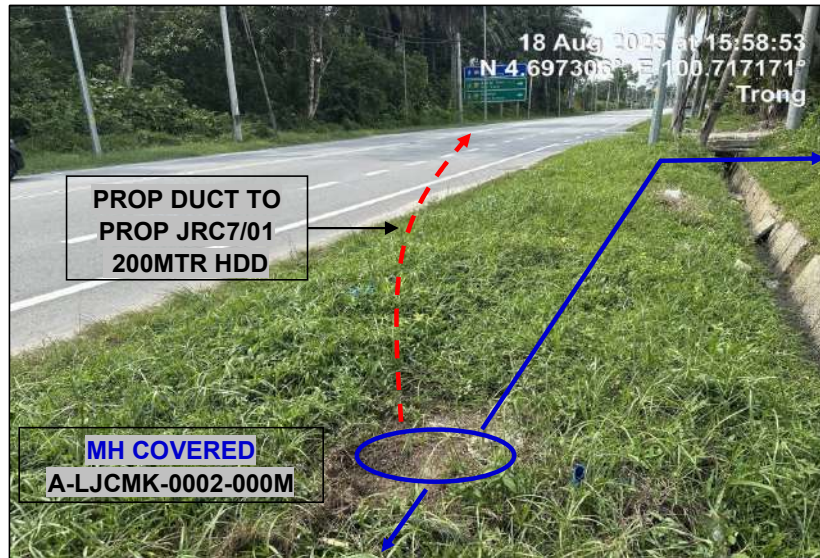
Section 5: Proposed Manhole GPS Coordinate

Structure A	Structure B	Lat. A (Dec)	Long. A (Dec)	Proposed Method	Distance Breakdown
A-LJCMK-0002-000M	PROP JRC7/01	4.697306,	100.717171	HDD	200
PROP JRC7/01	PROP JRC7/02	4.698004	100.717412	HDD	245
PROP JRC7/02	PROP JRC7/03	4.700819	100.717862	HDD	245
PROP JRC7/03	PROP JRC7/04	4.702789	100.718298	HDD	235
PROP JRC7/04	PROP JRC7/05	4.704852	100.718647	HDD	230
PROP JRC7/05	PROP JRC7/06	4.706623	100.719162	HDD	230
PROP JRC7/06	PROP JRC7/07	4.708421	100.719383	HDD	235
PROP JRC7/07	PROP JRC7/08	4.710305	100.719752	HDD	255
PROP JRC7/08	PROP JRC7/09	4.712592	100.719591	HDD	235
PROP JRC7/09	PROP JRC7/10	4.713785	100.719399	HDD	245
PROP JRC7/10	PROP JRC7/11	4.715484	100.718845	HDD	235
PROP JRC7/11	PROP JRC7/12	4.716854	100.717651	HDD	240
PROP JRC7/12	PROP JRC7/13	4.718439	100.717006	HDD	235
PROP JRC7/13	PROP JRC7/14	4.720249	100.717837	HDD	240
PROP JRC7/14	PROP JRC7/15	4.722049	100.717257	HDD	235
PROP JRC7/15	PROP JRC7/16	4.723943	100.716901	HDD	240
PROP JRC7/16	PROP JRC7/17	4.725891	100.716581	HDD	235
PROP JRC7/17	PROP JRC7/18	4.727775	100.715971	HDD	240
PROP JRC7/18	PROP JRC7/19	4.729578	100.715578	HDD	200
PROP JRC7/19	PROP JRC7/20	4.731155	100.715009	HDD	230
PROP JRC7/20	PROP JRC7/21	4.732848	100.714001	HDD	230
PROP JRC7/21	PROP JRC7/22	4.734407	100.712723	HDD	200
PROP JRC7/22	PROP JRC7/23	4.734968	100.711592	HDD	230
PROP JRC7/23	PROP JRC7/24	4.736971	100.711386	HDD	240
PROP JRC7/24	PROP JRC7/25	4.738774	100.711208	HDD	230
PROP JRC7/25	PROP JRC7/26	4.740436	100.711611	GV	235
PROP JRC7/26	PROP JRC7/27	4.741343	100.709905	GV	240
PROP JRC7/27	PROP JRC7/28	4.742259	100.708143	GV	240
PROP JRC7/28	PROP JRC7/29	4.743048	100.705998	HDD	235
PROP JRC7/29	PROP JRC7/30	4.743754	100.704517	HDD	235
PROP JRC7/30	PROP JRC7/31	4.74432	100.702659	HDD	240
PROP JRC7/31	PROP JRC7/32	4.744975	100.700604	GV	240
PROP JRC7/32	PROP JRC7/33	4.746484	100.699338	HDD	160
PROP JRC7/33	PROP JRC7/34	4.747552	100.698652	GV	210
PROP JRC7/34	PROP JRC7/35	4.74925	100.697878	GV	245
PROP JRC7/35	PROP JRC7/36	4.75116	100.697336	GV	235
PROP JRC7/36	PROP JRC7/37	4.75299	100.696797	HDD	240
PROP JRC7/37	PROP JRC7/38	4.754388	100.695345	HDD	235
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PROP JRC7/39	PROP JRC7/40	4.757749	100.693226	GV	235
PROP JRC7/40	PROP JRC7/41	4.759793	100.692771	GV	240
PROP JRC7/41	PROP JRC7/42	4.761957	100.692368	GV	240
PROP JRC7/42	PROP JRC7/43	4.763769	100.692522	HDD	230
PROP JRC7/43	PROP JRC7/44	4.765853	100.692675	GV	245
PROP JRC7/44	PROP JRC7/45	4.767615	100.692795	HDD	240
PROP JRC7/45	PROP JRC7/46	4.769728	100.692923	HDD	240
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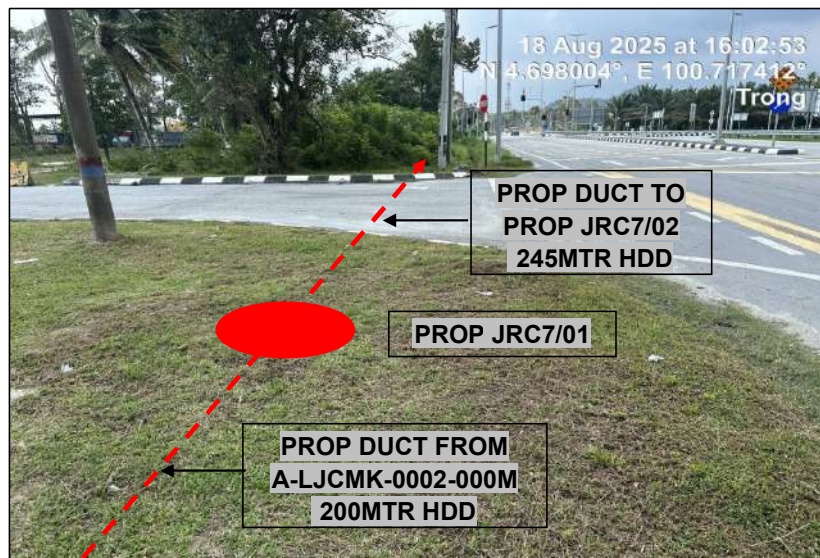
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PROP JRC7/50	PROP JRC7/51	4.779815	100.692898	HDD	235
PROP JRC7/51	PROP JRC7/52	4.781658	100.692915	HDD	235
PROP JRC7/52	PROP JRC7/53	4.783248	100.692875	HDD	245
PROP JRC7/53	PROP JRC7/54	4.785824	100.692654	GV	235
PROP JRC7/54	PROP JRC7/55	4.7877	100.692418	HDD	240
PROP JRC7/55	PROP JRC7/56	4.789769	100.692172	HDD	235
PROP JRC7/56	PROP JRC7/57	4.791669	100.691946	HDD	130
PROP JRC7/57	PROP JRC7/58	4.792645	100.691707	HDD	130
PROP JRC7/58	PROP JRC7/59	4.793463	100.691699	HDD	220
PROP JRC7/59	PROP JRC7/60	4.795358	100.691398	HDD	240
PROP JRC7/60	PROP JRC7/61	4.797476	100.691039	HDD	235
PROP JRC7/61	PROP JRC7/62	4.799199	100.690758	HDD	240
PROP JRC7/62	PROP JRC7/63	4.801424	100.690786	HDD	235
PROP JRC7/63	PROP JRC7/64	4.803282	100.691286	HDD	245
PROP JRC7/64	PROP JRC7/65	4.80534	100.691784	HDD	240
PROP JRC7/65	PROP JRC7/66	4.807325	100.692418	HDD	230
PROP JRC7/66	PROP JRC7/67	4.809184	100.69306	HDD	245
PROP JRC7/67	PROP JRC7/68	4.811225	100.693574	HDD	255
PROP JRC7/68	PROP JRC7/69	4.813656	100.693829	HDD	110
PROP JRC7/69	PROP JRC7/70	4.813675	100.694736	HDD	210
PROP JRC7/70	PROP JRC7/71	4.814094	100.696455	HDD	245
PROP JRC7/71	PROP JRC7/72	4.815196	100.698088	HDD	230
PROP JRC7/72	PROP JRC7/73	4.816128	100.69952	HDD	235
PROP JRC7/73	A-LJTKS-0002-000T	4.817637	100.701356	HDD	245
A-LJTKS-0002-000T	PROP JRC7/74	4.818346	100.702805	HDD	260
PROP JRC7/74	PROP JRC7/75	4.819668	100.704888	HDD	150
PROP JRC7/75	A-F0001-0162-000T	4.820508	100.705454	HDD	150

Section 8: Outside Plant Site Snapshot

Photo 1

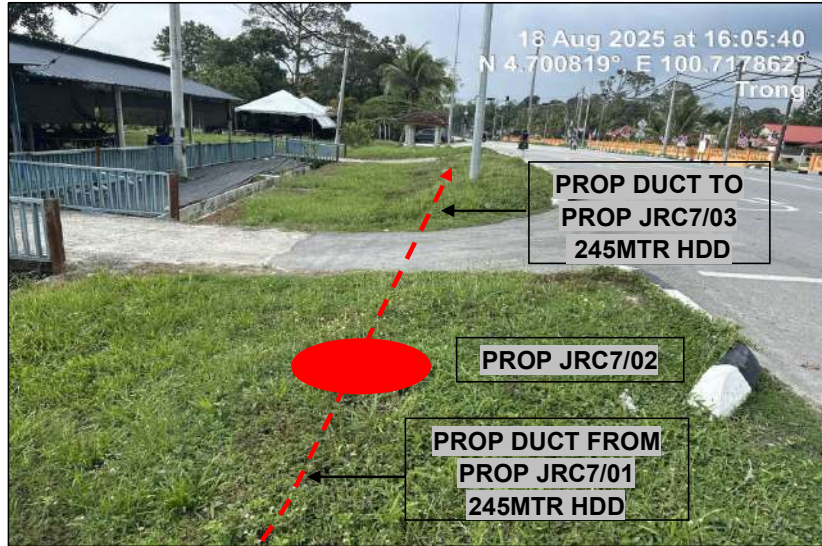


LOCATION AT JALAN BESAR (60)

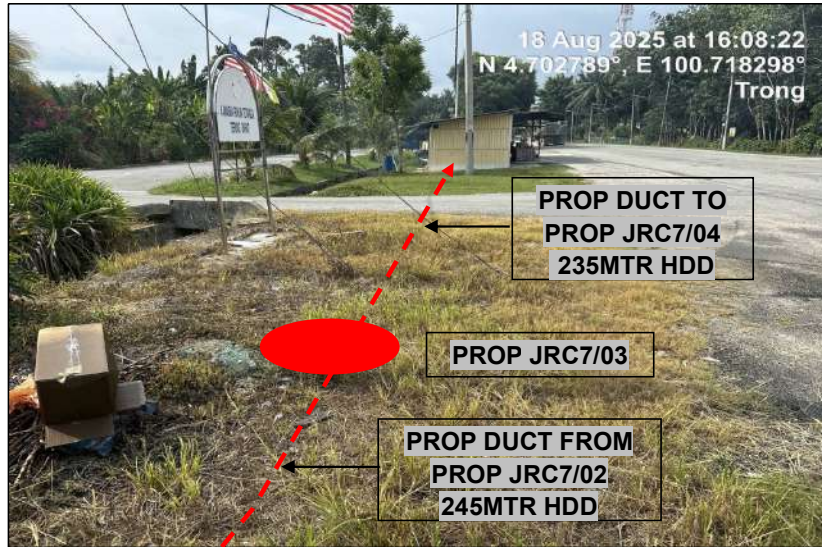


LOCATION AT JALAN BESAR (60)

Photo 2

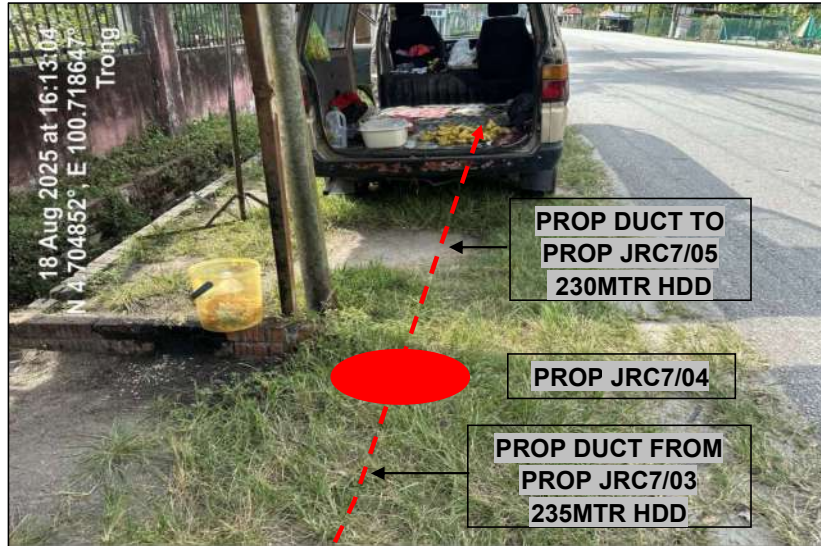


LOCATION AT JALAN BESAR (60)



LOCATION AT JALAN BESAR (60)

Photo 3

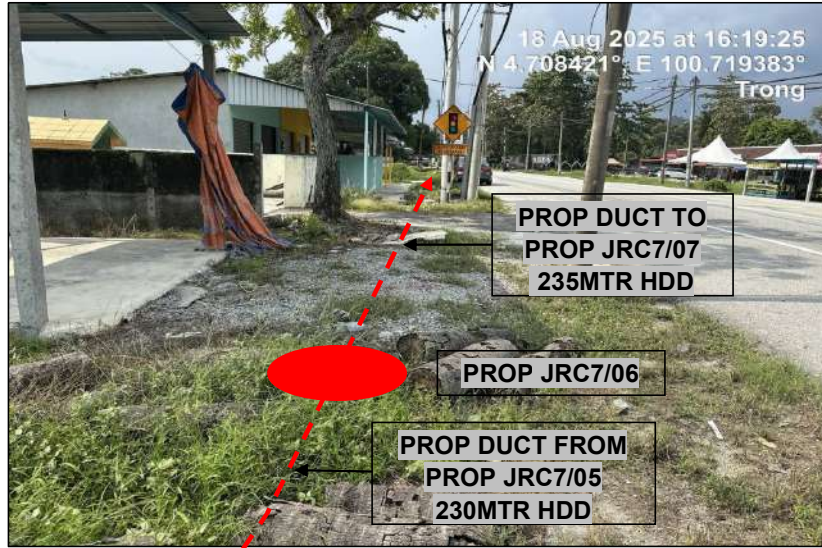


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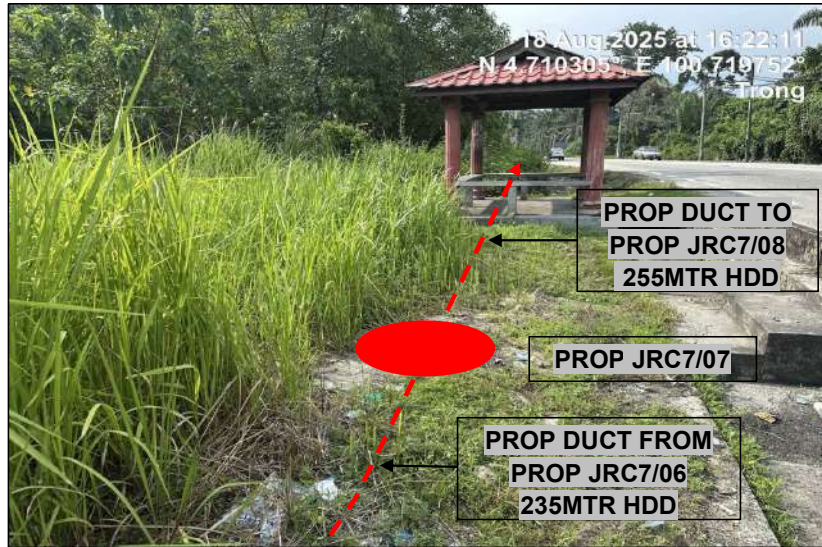


LOCATION AT JALAN BESAR (60)

Photo 4

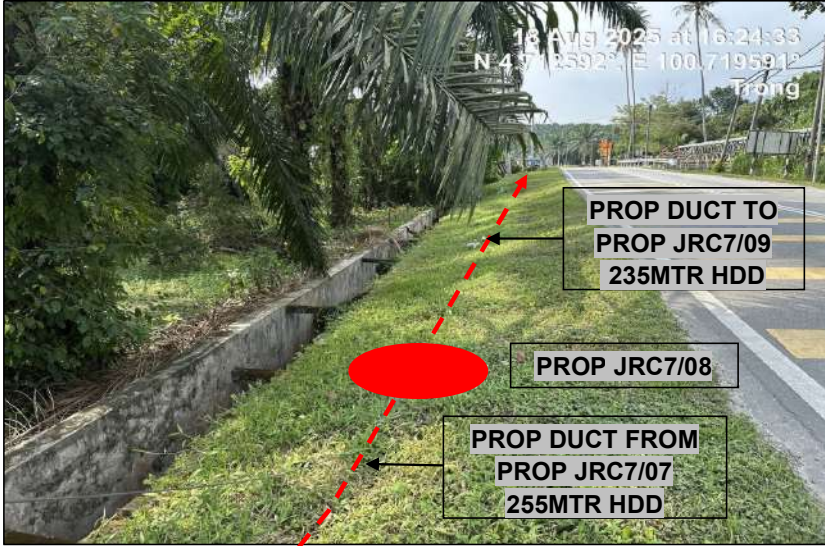


LOCATION AT JALAN BESAR (60)



LOCATION AT JALAN BESAR (60)

Photo 5



LOCATION AT JALAN BESAR (60)



LOCATION AT JALAN BESAR (60)

Photo 7



LOCATION AT JALAN BESAR (60)

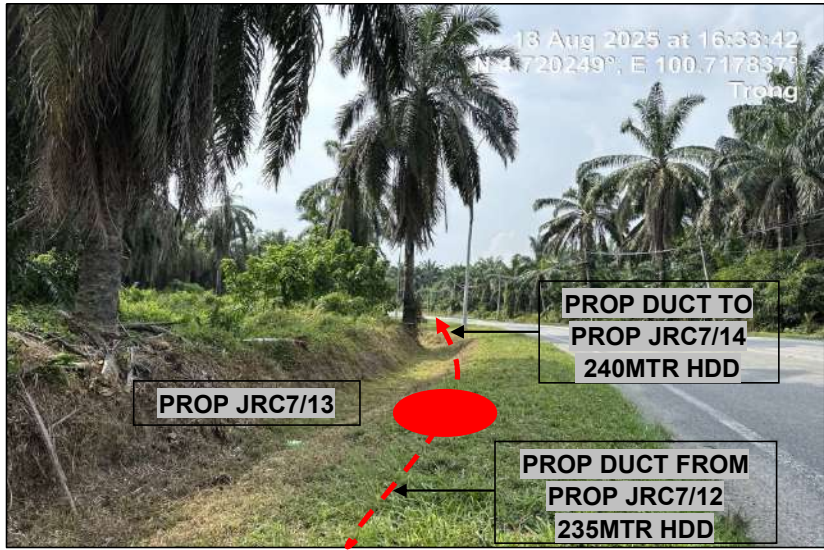


LOCATION AT JALAN BESAR (60)

Photo 8



LOCATION AT JALAN BESAR (60)

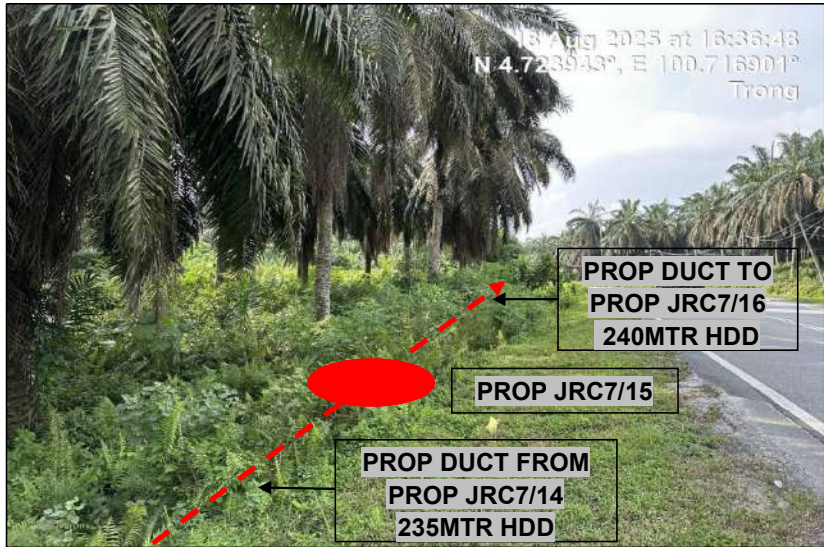


LOCATION AT JALAN BESAR (60)

Photo 9

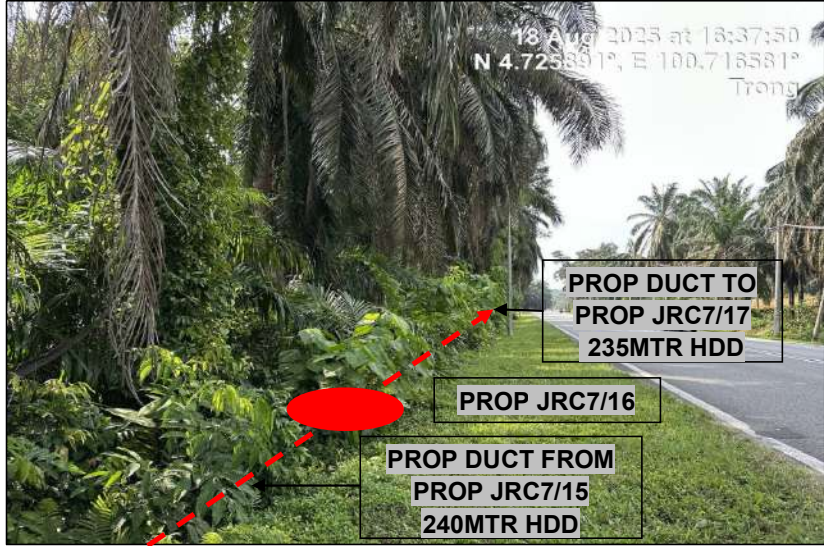


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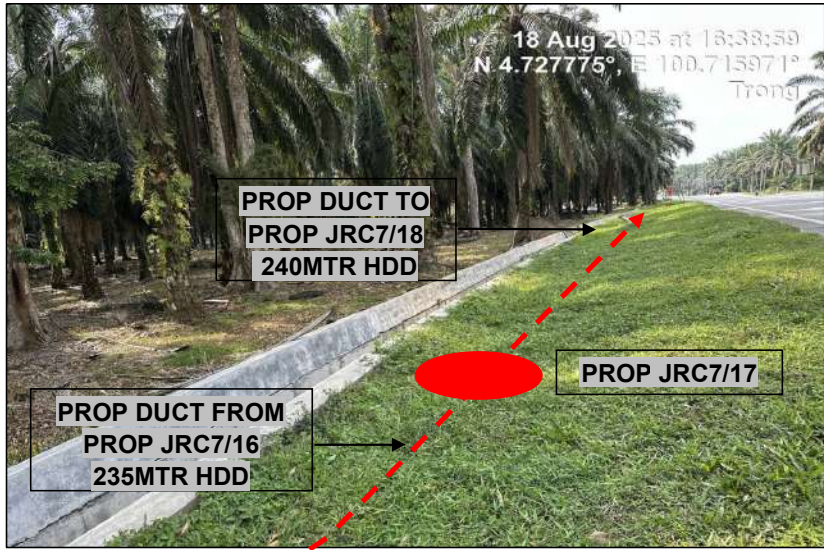


LOCATION AT JALAN BESAR (60)

Photo 10

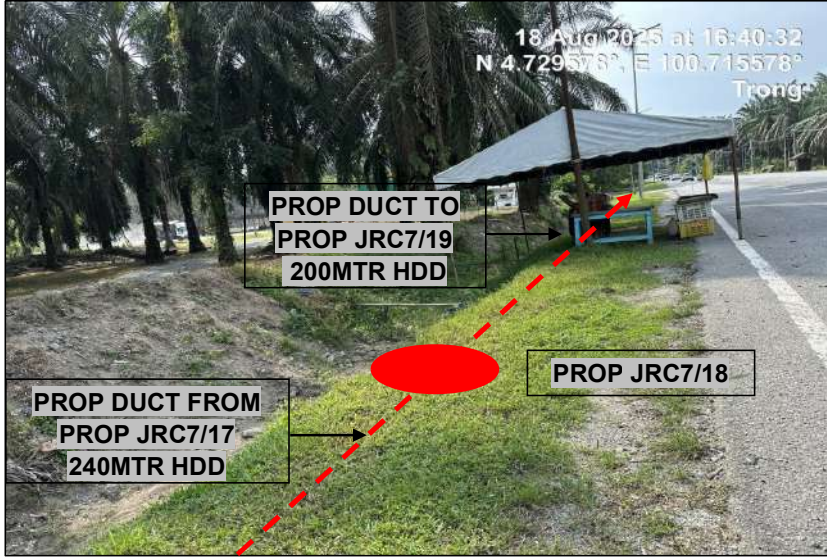


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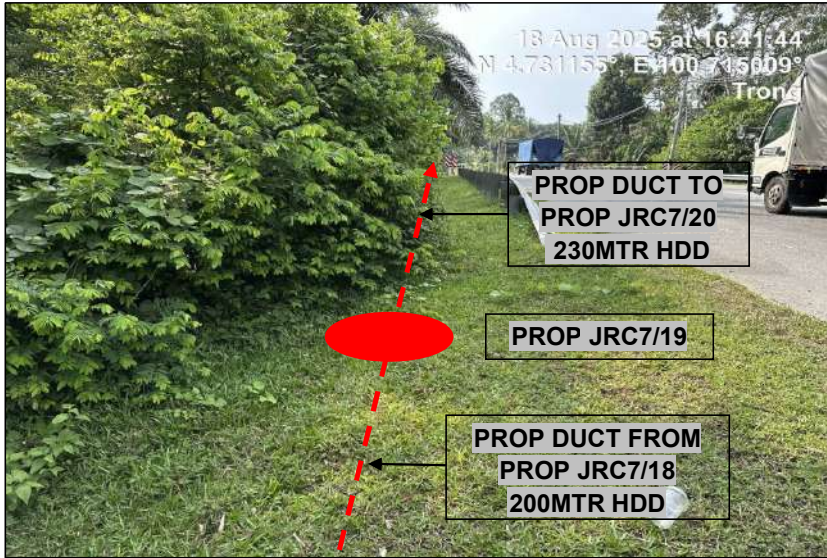


LOCATION AT JALAN BESAR (60)

Photo 11

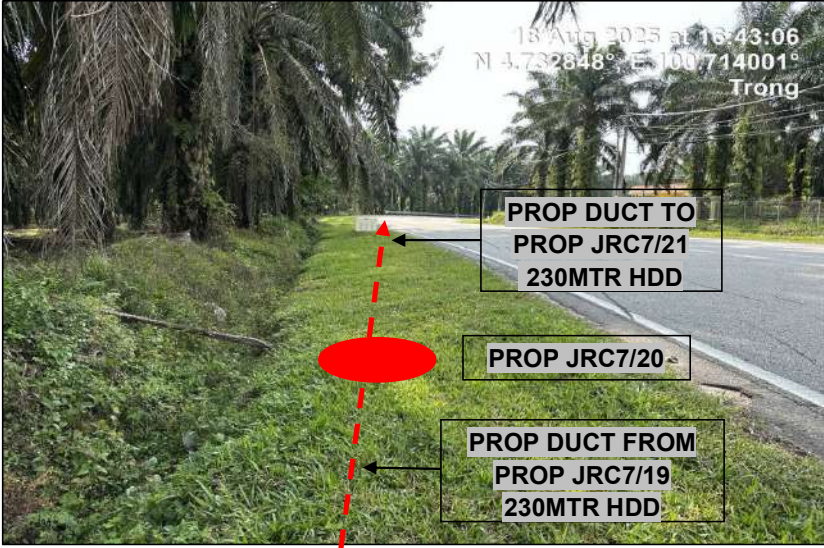


LOCATION AT JALAN BESAR (60)

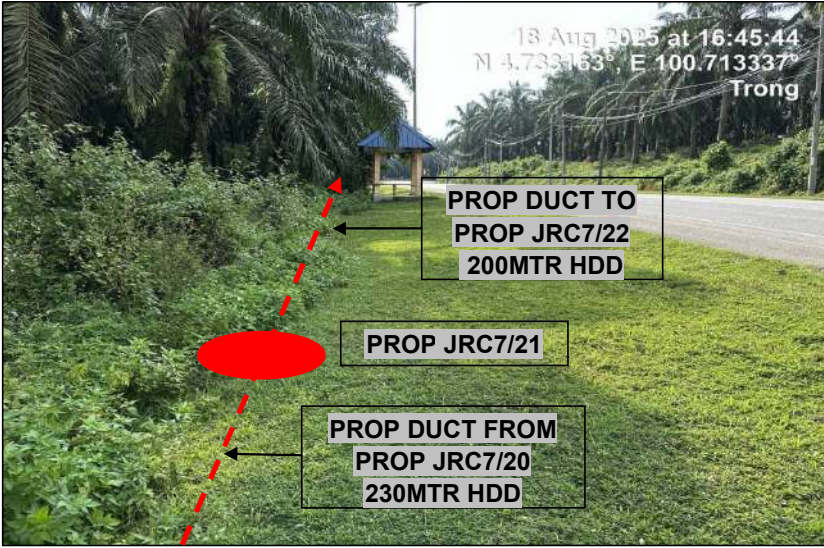


LOCATION AT JALAN BESAR (60)

Photo 12

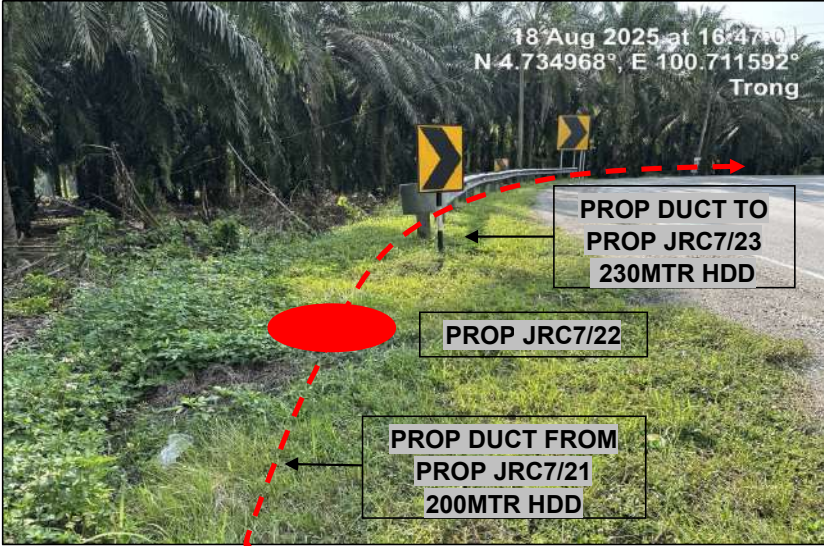


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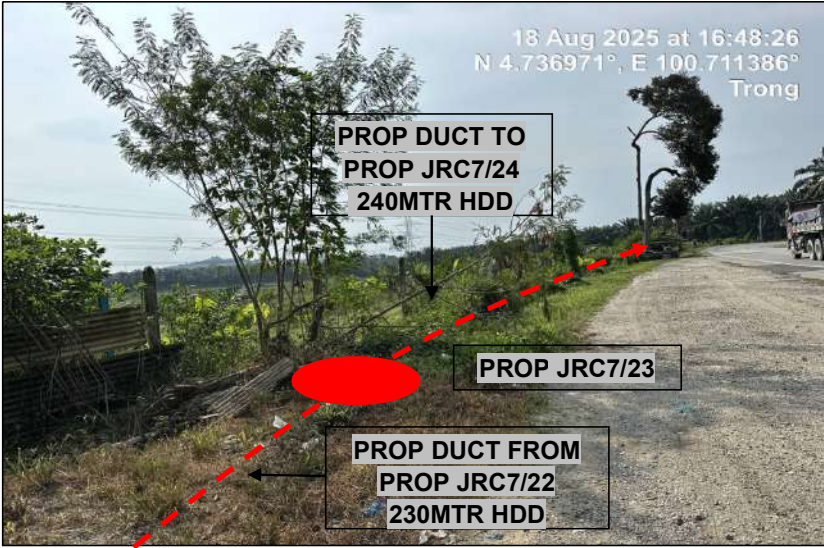


LOCATION AT JALAN BESAR (60)

Photo 13



LOCATION AT JALAN BESAR (60)



LOCATION AT JALAN BESAR (60)

Photo 14



LOCATION AT JALAN BESAR (60)

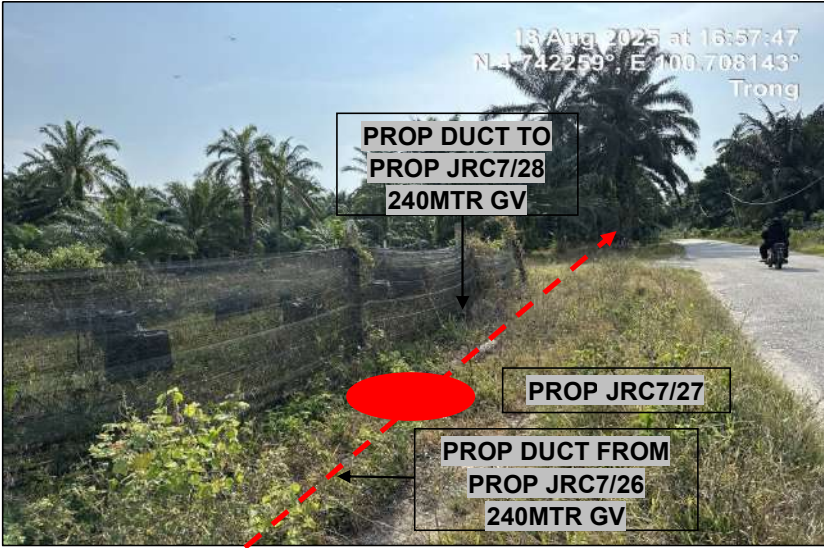


LOCATION AT JALAN SUNGAI LIMAU

Photo 15

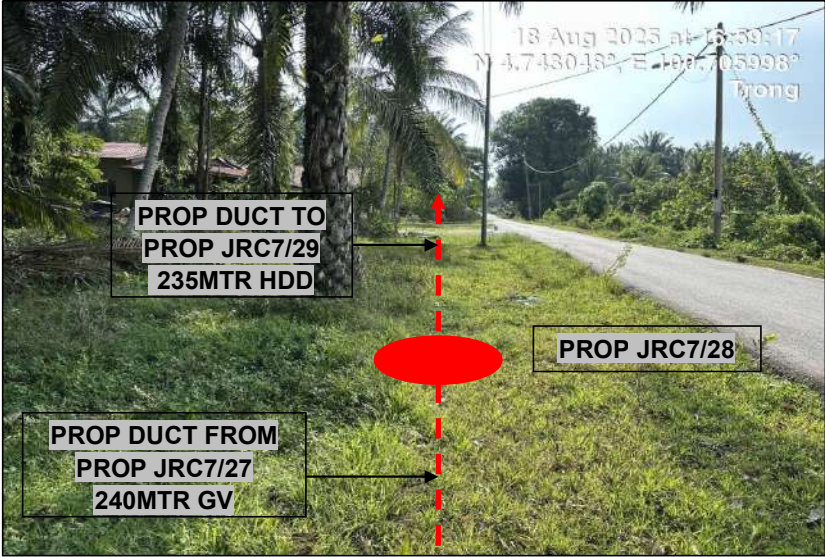


LOCATION AT JALAN SUNGAI LIMAU



LOCATION AT JALAN SUNGAI LIMAU

Photo 16

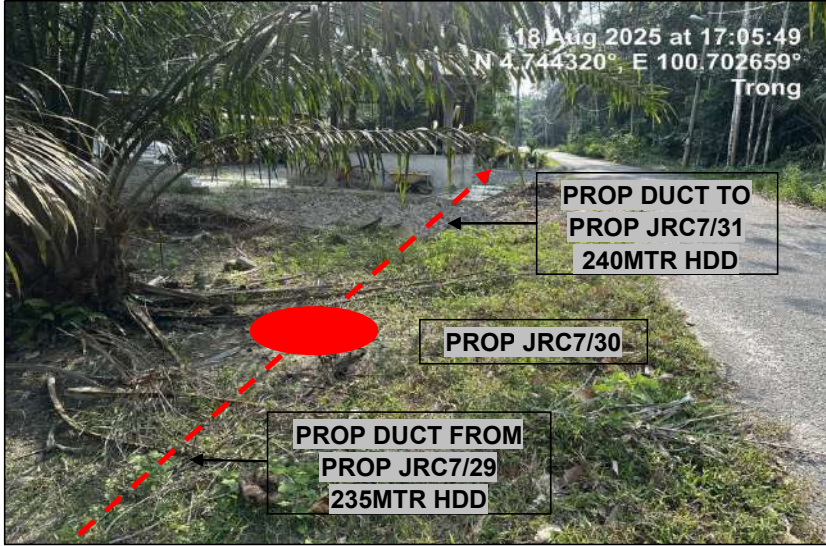


LOCATION AT JALAN SUNGAI LIMAU

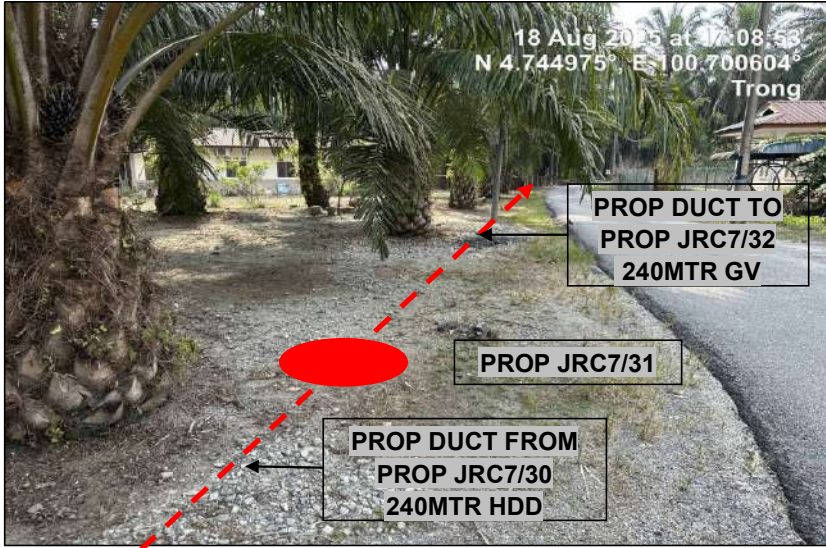


LOCATION AT JALAN SUNGAI LIMAU

Photo 17



LOCATION AT JALAN SUNGAI LIMAU

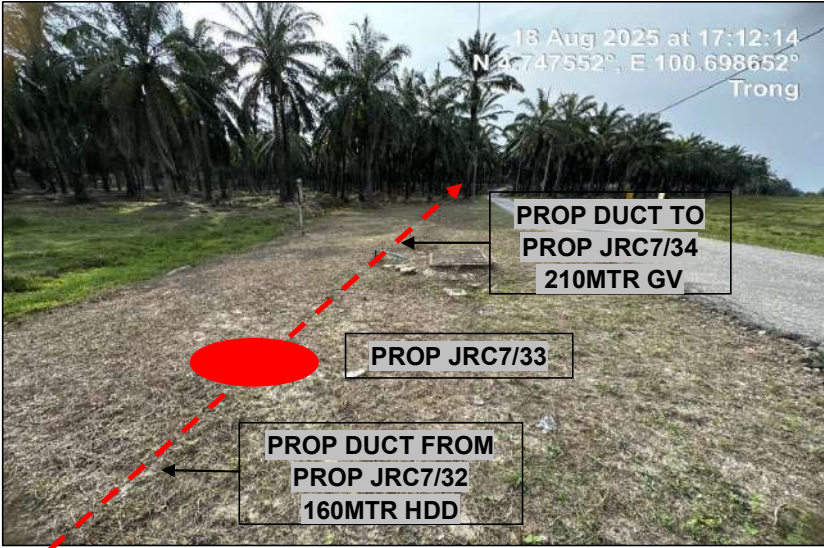


LOCATION AT JALAN SUNGAI LIMAU

Photo 18

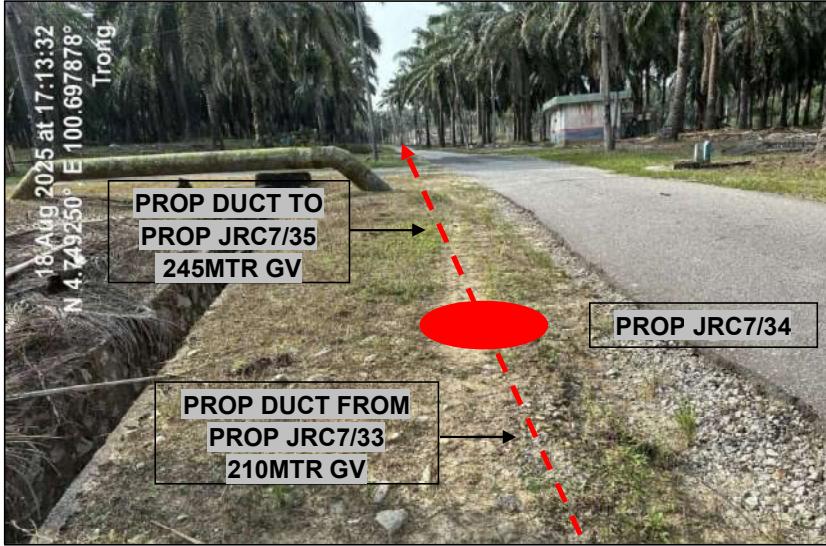


LOCATION AT JALAN LADANG SUNGAI LIMAU

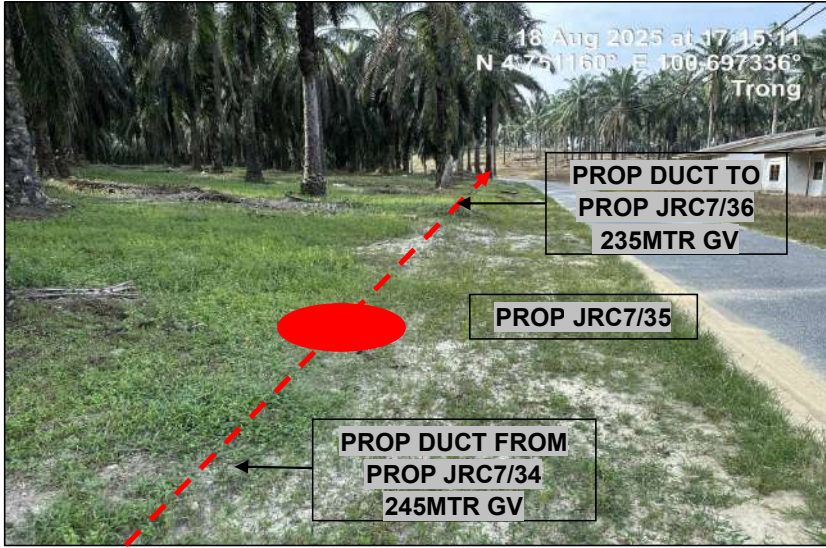


LOCATION AT JALAN LADANG SUNGAI LIMAU

Photo 19



LOCATION AT JALAN LADANG SUNGAI LIMAU

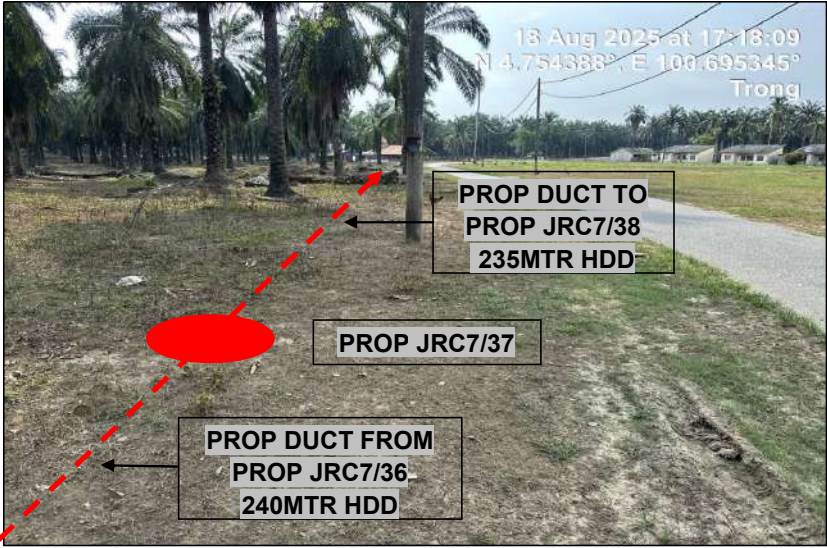


LOCATION AT JALAN LADANG SUNGAI LIMAU

Photo 20

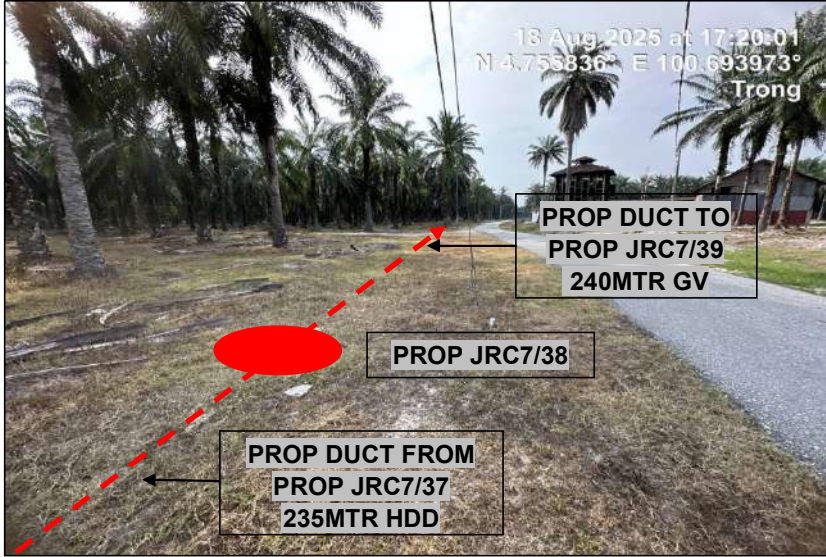


LOCATION AT JALAN LADANG SUNGAI LIMAU

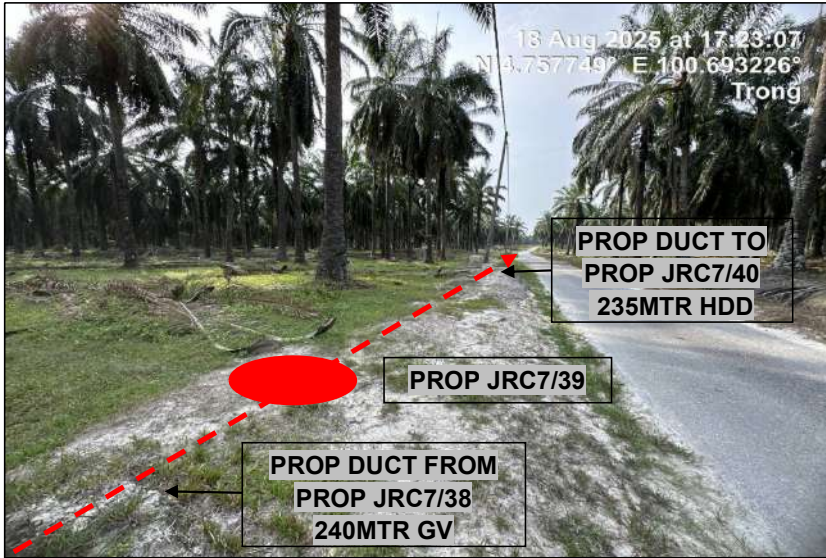


LOCATION AT JALAN LADANG SUNGAI LIMAU

Photo 21

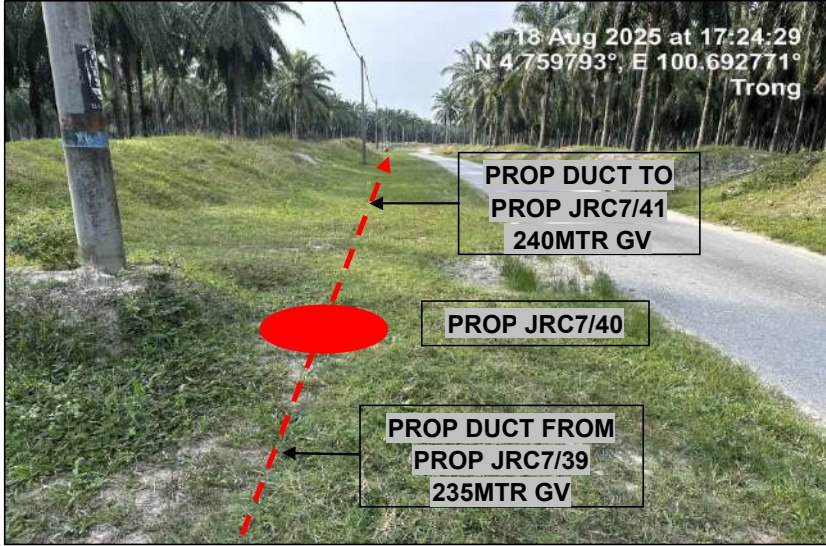


LOCATION AT JALAN LADANG SUNGAI LIMAU

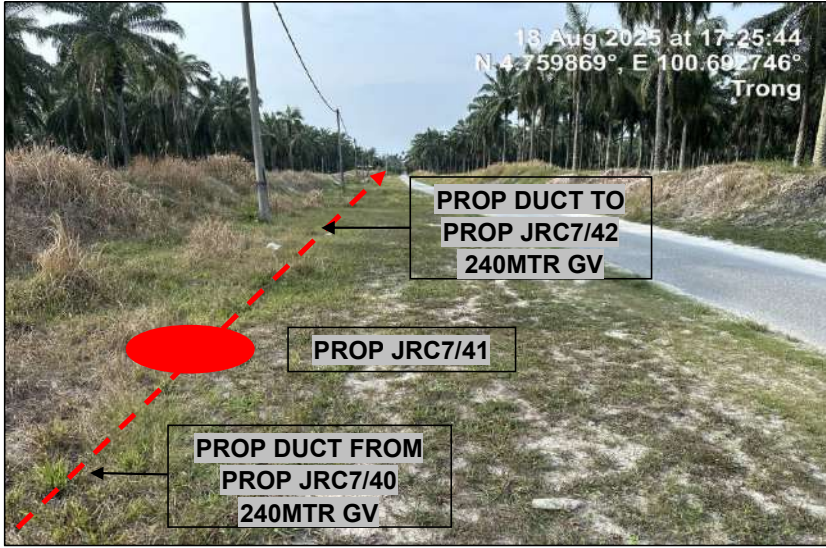


LOCATION AT JALAN LADANG SUNGAI LIMAU

Photo 22

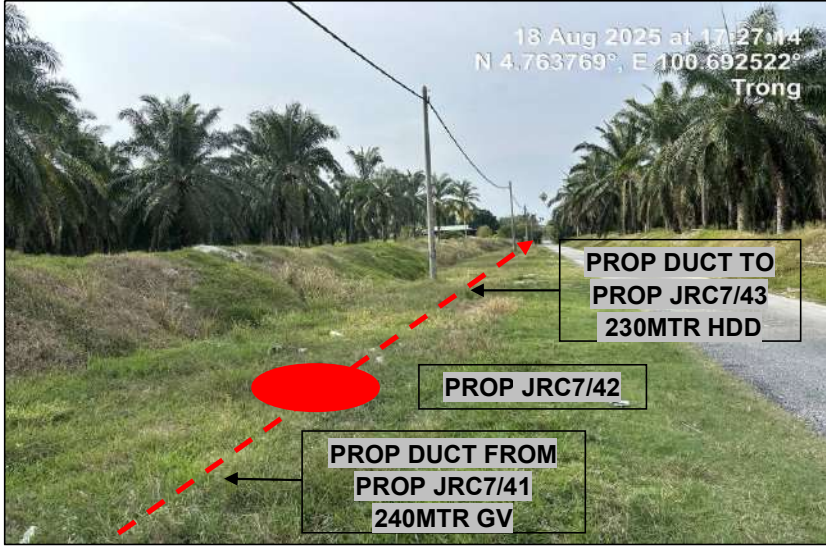


LOCATION AT JALAN LADANG SUNGAI LIMAU



LOCATION AT JALAN LADANG SUNGAI LIMAU

Photo 23



LOCATION AT JALAN LADANG SUNGAI LIMAU



LOCATION AT JALAN KAMPUNG JAHA

Photo 24



LOCATION AT JALAN KAMPUNG JAHA

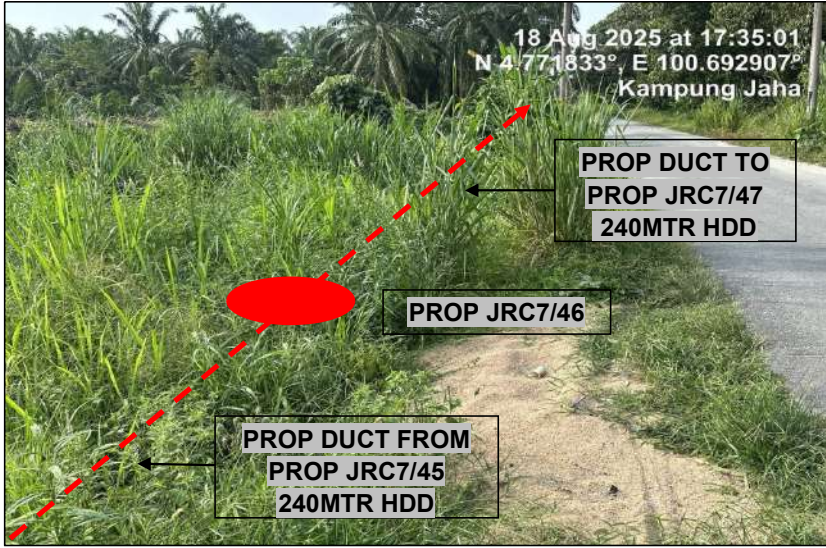


LOCATION AT JALAN KAMPUNG JAHA

Photo 25

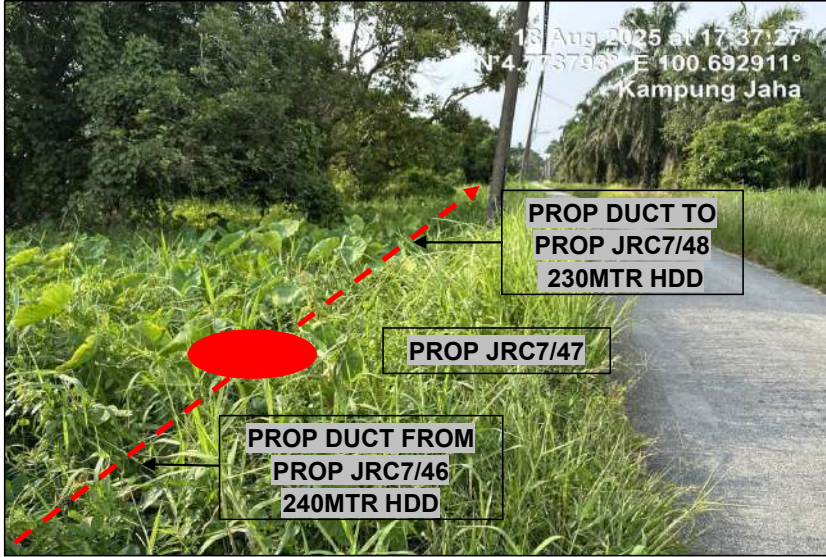


LOCATION AT JALAN KAMPUNG PERAK

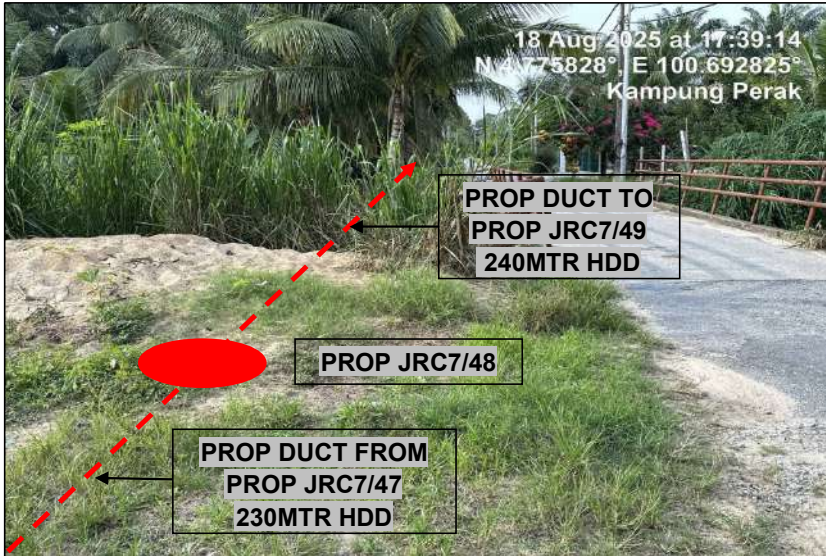


LOCATION AT JALAN KAMPUNG PERAK

Photo 26

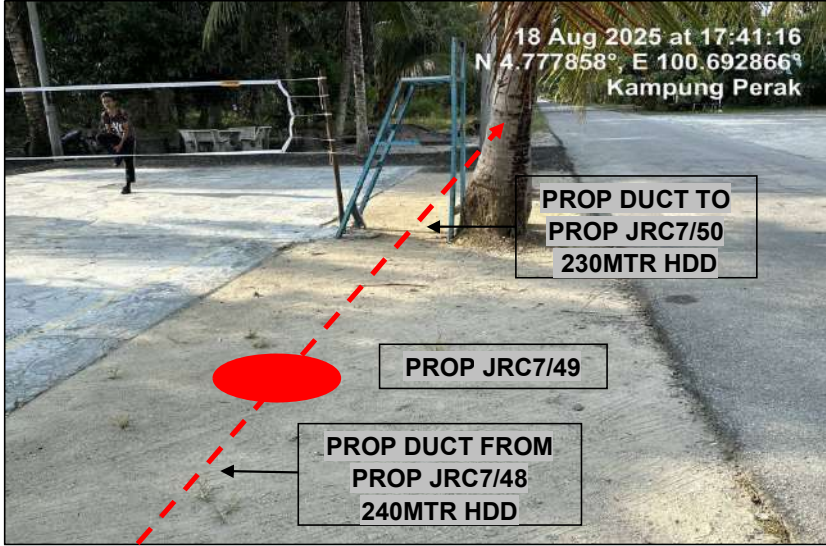


LOCATION AT JALAN KAMPUNG PERAK



LOCATION AT JALAN KAMPUNG PERAK

Photo 27

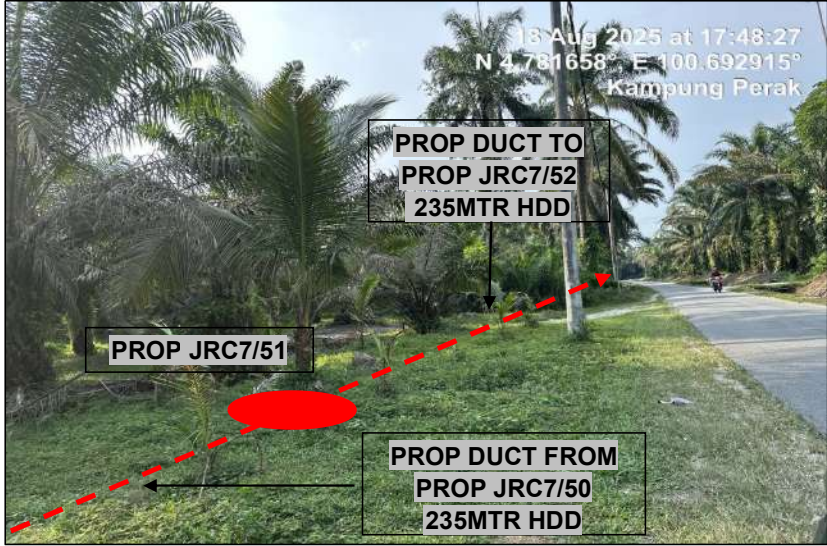


LOCATION AT JALAN KAMPUNG PERAK



LOCATION AT JALAN KAMPUNG PERAK

Photo 28

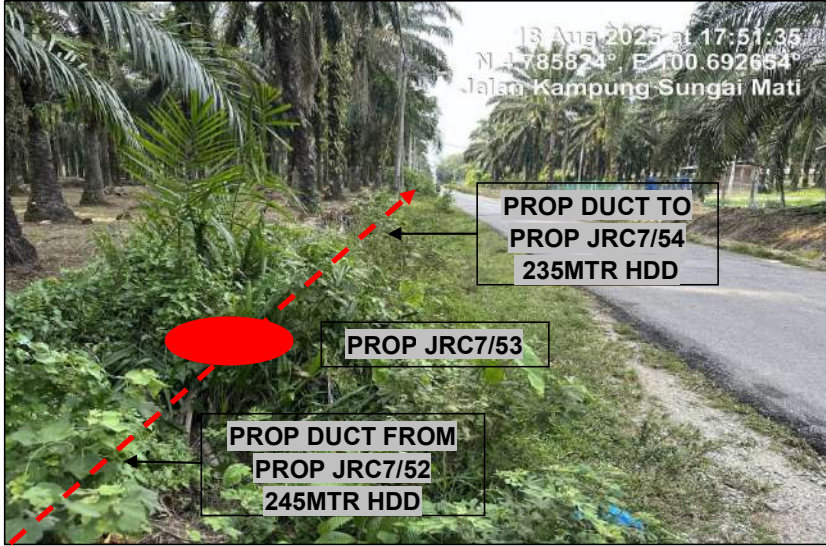


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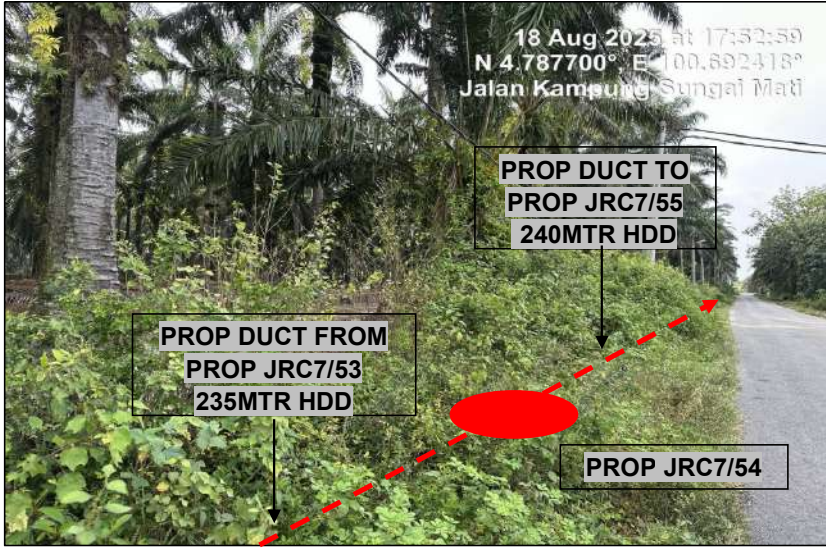


LOCATION AT JALAN KAMPUNG PERAK

Photo 29



LOCATION AT JALAN KAMPUNG PERAK

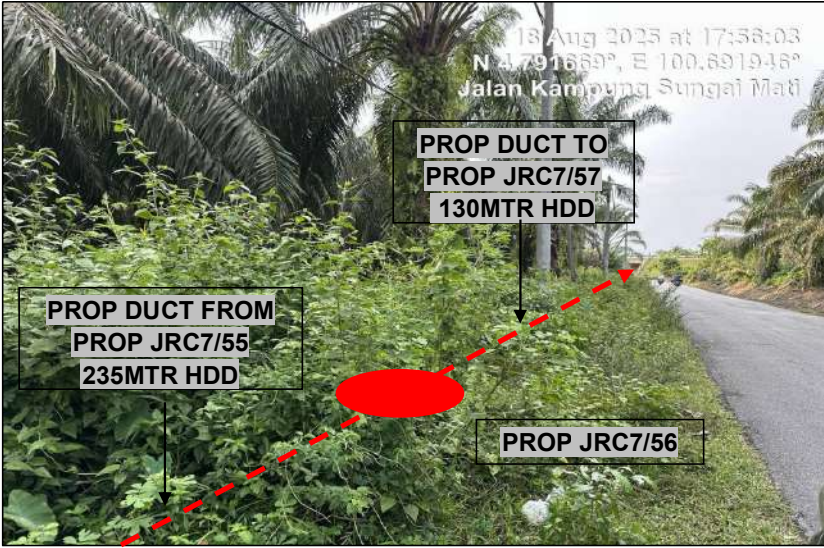


LOCATION AT JALAN KAMPUNG PERAK

Photo 30

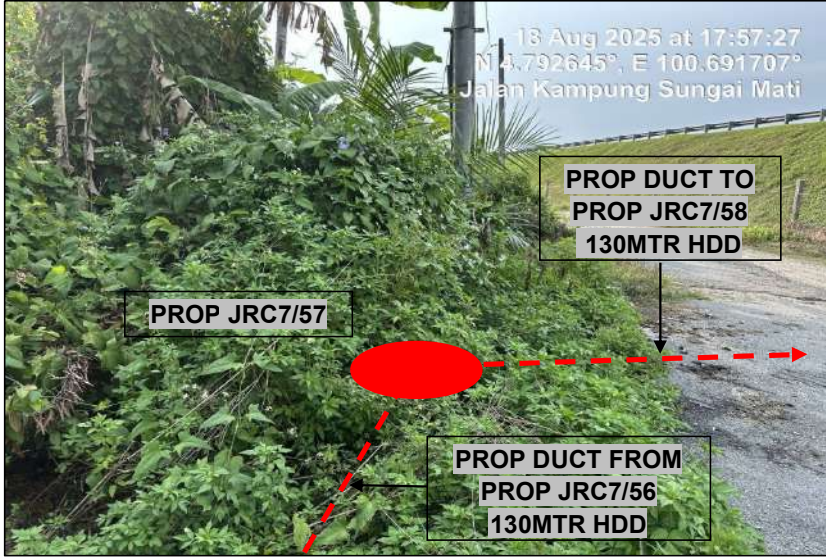


LOCATION AT JALAN KAMPUNG PERAK



LOCATION AT JALAN KAMPUNG PERAK

Photo 31



LOCATION AT JALAN KAMPUNG PERAK



LOCATION AT JALAN KAMPUNG PERAK

Photo 32

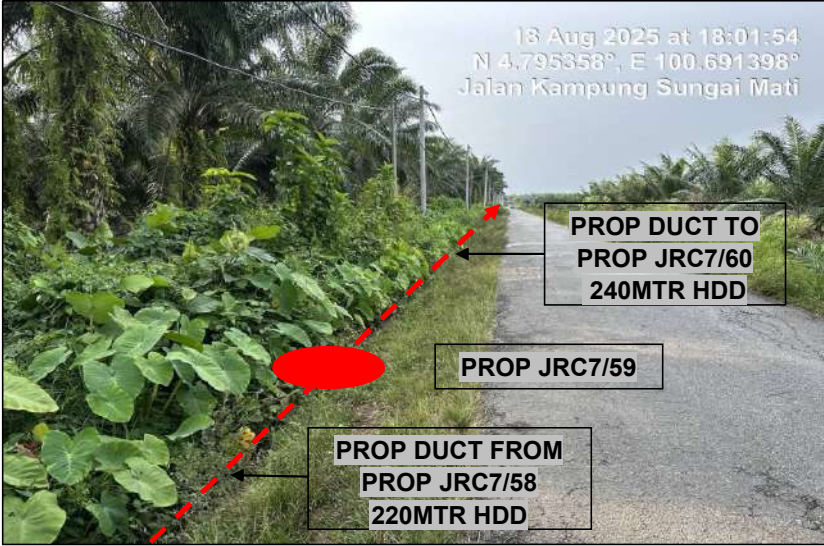


LOCATION AT JALAN KAMPUNG PERAK

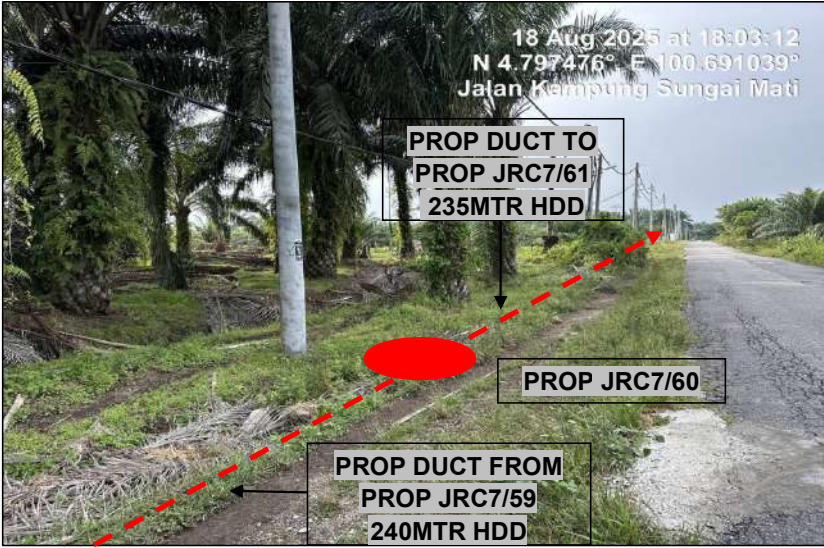


LOCATION AT JALAN KAMPUNG PERAK

Photo 33



LOCATION AT JALAN KAMPUNG PERAK

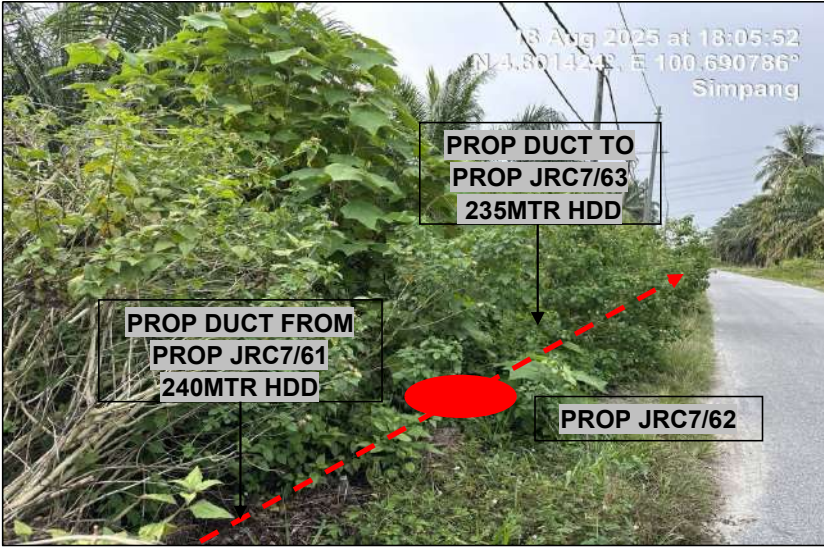


LOCATION AT JALAN KAMPUNG PERAK

Photo 34

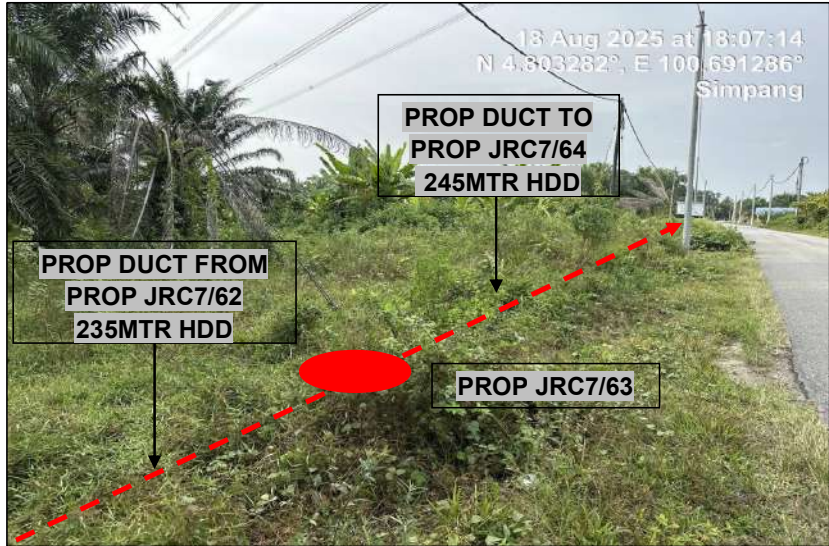


LOCATION AT JALAN KAMPUNG PERAK



LOCATION AT JALAN KAMPUNG PERAK

Photo 35

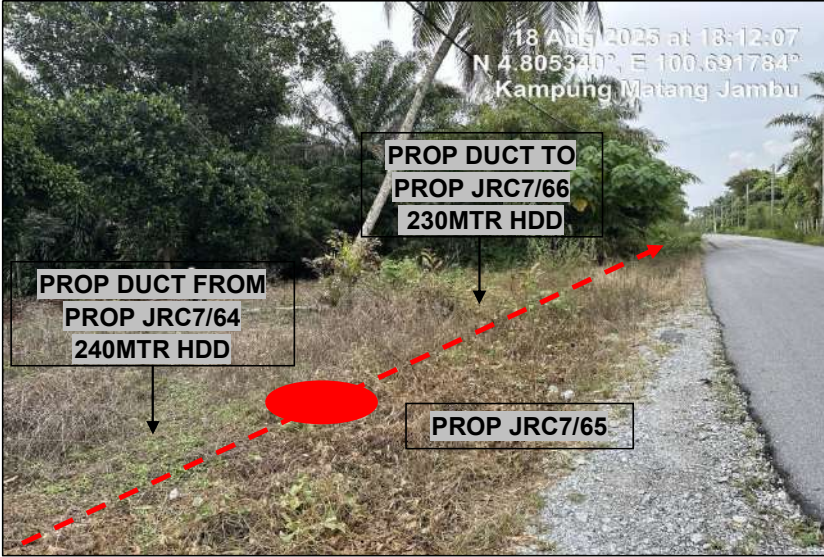


LOCATION AT JALAN KAMPUNG PERAK

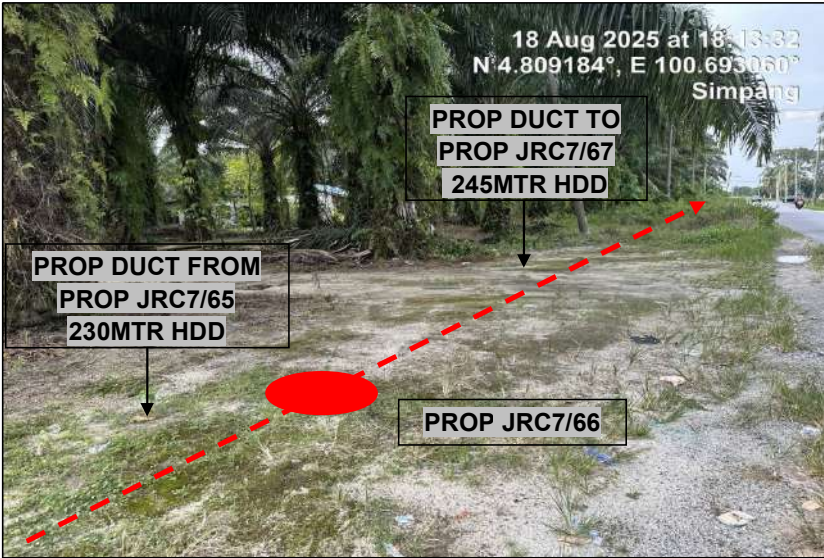


LOCATION AT JALAN KAMPUNG PERAK

Photo 36

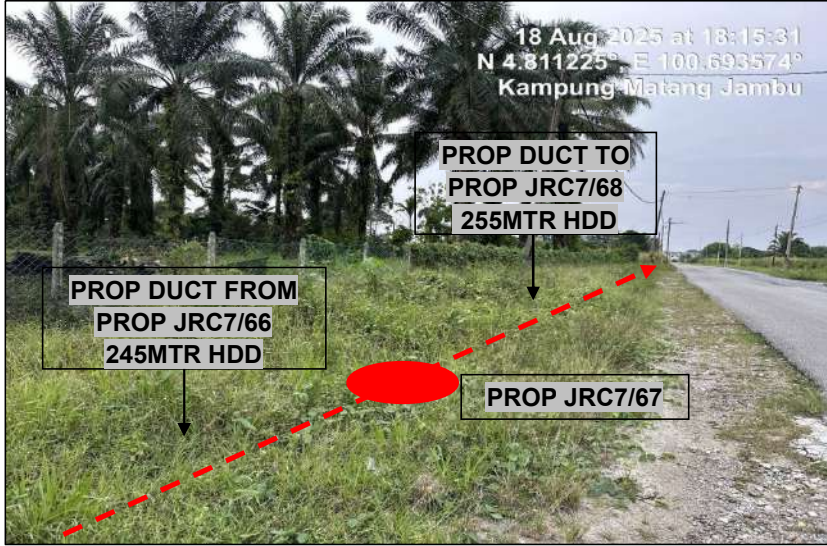


LOCATION AT JALAN KAMPUNG PERAK

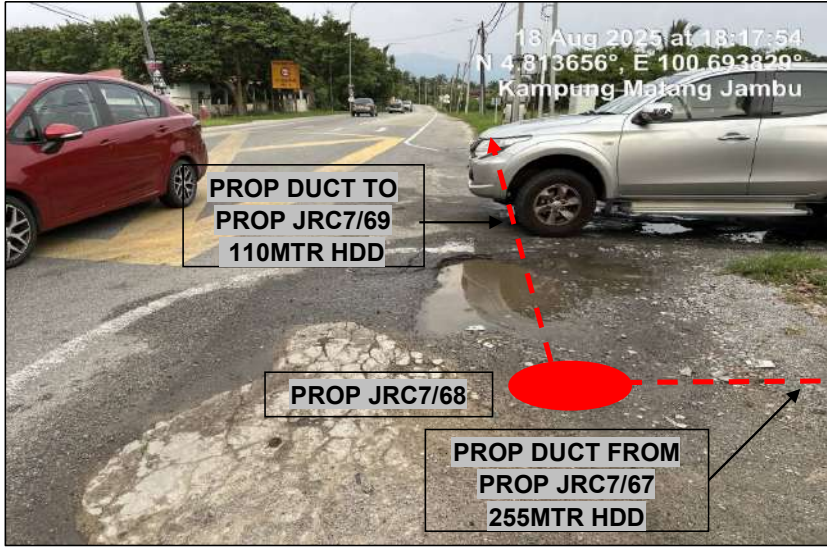


LOCATION AT JALAN KAMPUNG PERAK

Photo 37

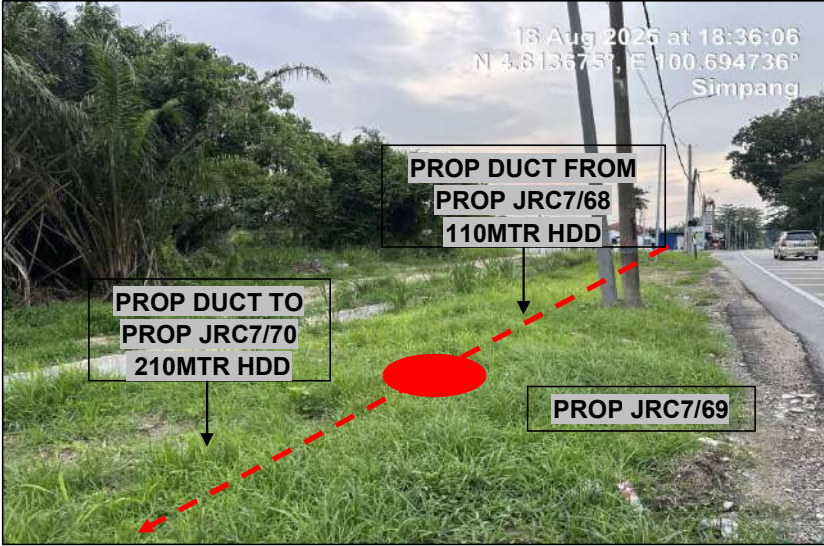


LOCATION AT JALAN KAMPUNG PERAK



LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)

Photo 38



LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)

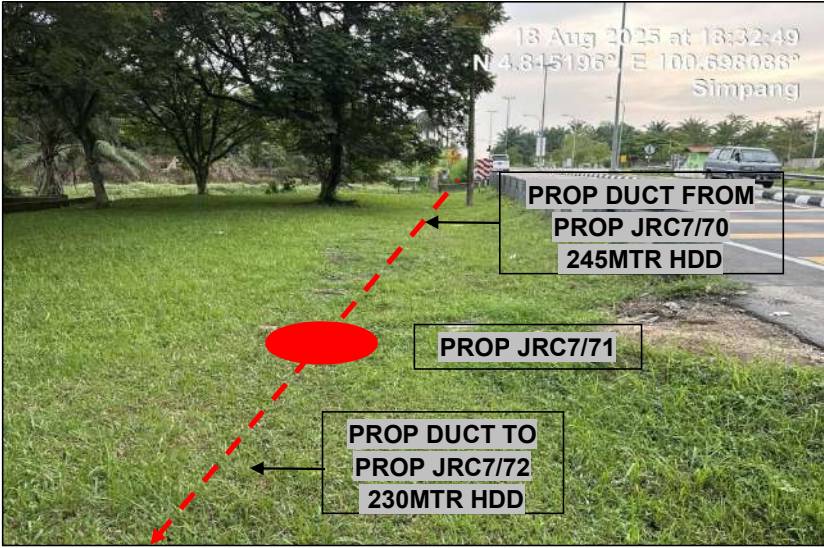


LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)

Photo 39



LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)

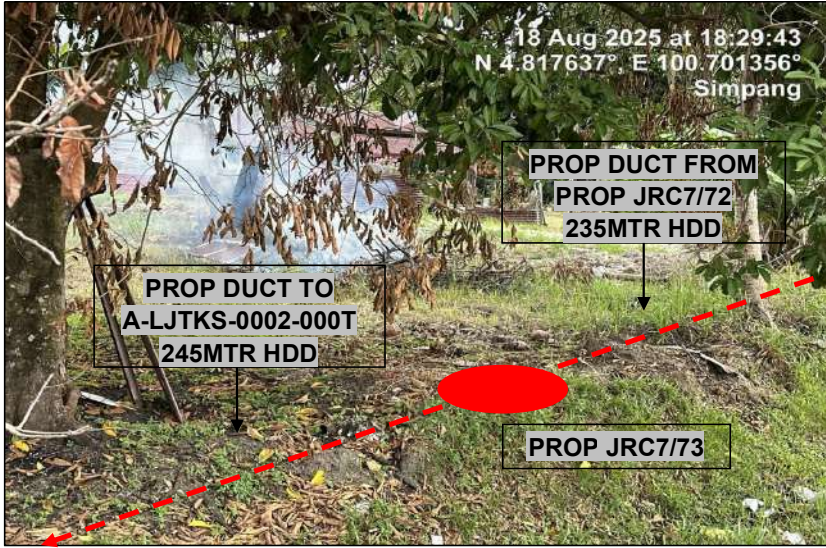


LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)

Photo 40

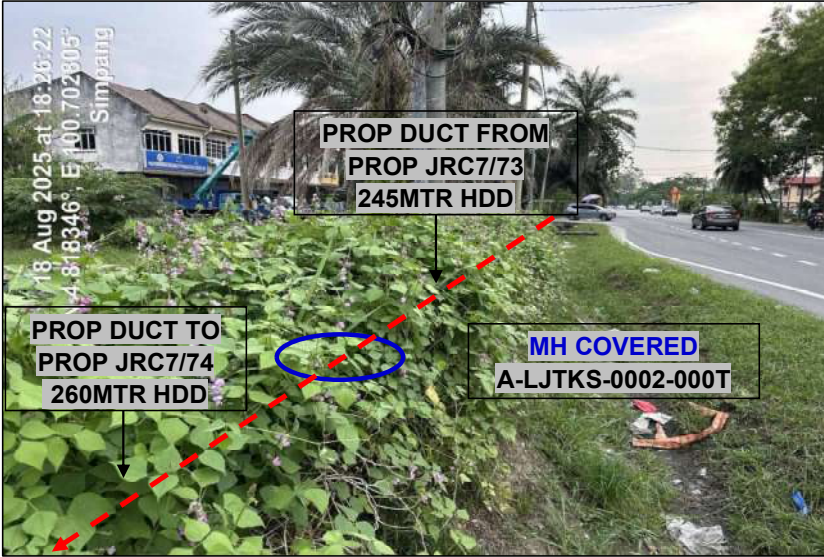


LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)



LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)

Photo 41

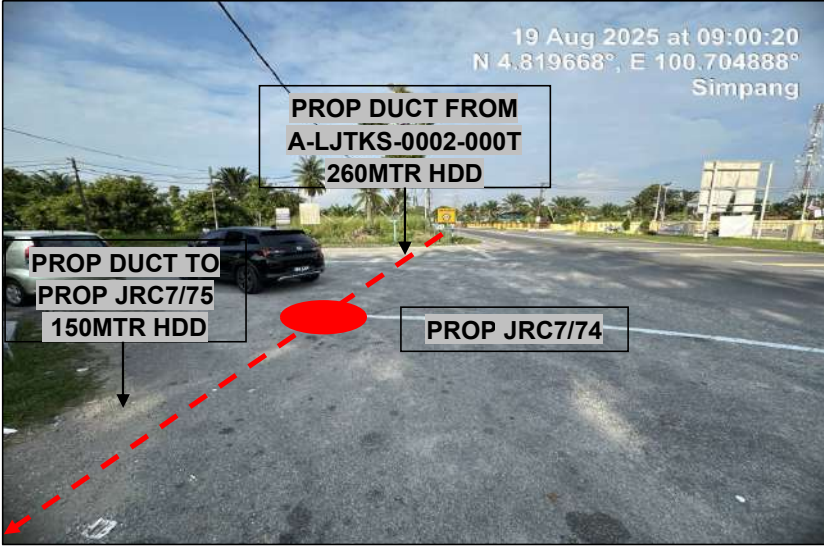


LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)



LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)
(PHOTO GOOGLE STREET 2021)

Photo 42



LOCATION AT JALAN TAIPING-KUALA SEPETANG (74)



LOCATION AT JALAN KAMPUNG DEW (1)

Photo 43



LOCATION AT JALAN KAMPUNG DEW (1)