



PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENSE (POP) FASA 2: HUB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))



TECHNICAL PROPOSAL

POP2 ABA8224 SEKOLAH KEBANGSAAN PADANG CHANGKAT (D-SIDE)

Company Name	:	WCWL COMMUNICATIONS SDN BHD
Company Address	:	127, Jalan PUJ 3/3, Taman Puncak Jalil 43300 Subang Jaya Selangor
Prepared By	:	Zhahin
Date	:	25/02/2025



POINT A

POINT B

Starting Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN PADANG CHANGKAT
Address	:	No.8 Kampung Padang Kunchur
District	:	Bota
Postcode	:	32600
State	:	Perak
GPS Coordinate	:	4.326226, 100.907064
LRD	:	A

End Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN PADANG CHANGKAT
Address	:	Jalan Klinik
District	:	Bota
Postcode	:	32600
State	:	Perak
GPS Coordinate	:	4.326948, 100.900997
		B



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Work Summary

No	Proposed Distance and Method	Unit	Qty
1	Horizontal Directional Drilling (HDD)	m	1508
2	Carriage Way Open trench (CW)	m	0
3	Grass Verge Open Trenching (GV)	m	0
4	Micro trenching (MT)	m	0
	Total		1508

	Other Information	Unit	Qty
1	Proposed Manhole	EA	9
2	Proposed Pole	EA	22
3	Joint Closure	EA	2
4	Estimated time required for completion	days	30



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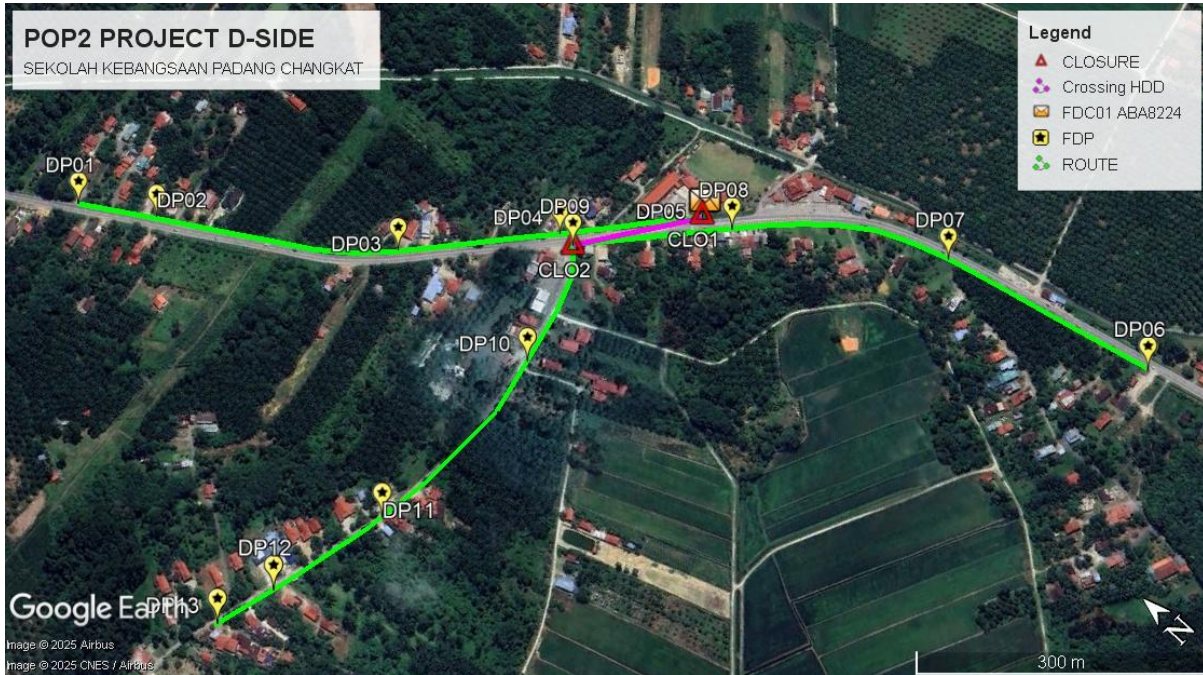
Local Authority Summary

1. Perak Tengah

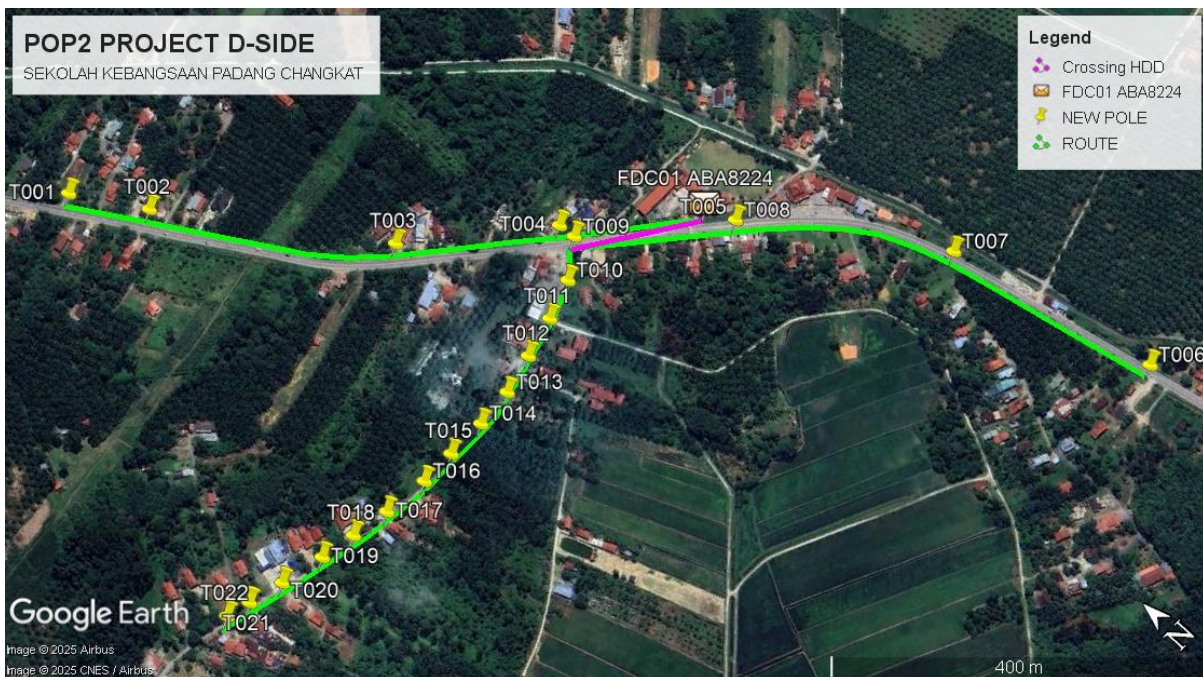
Bil	Items	Owner	Quantity	Distance
1	HDD	JKR	1	1508m
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	9	-
		Majlis	13	585m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				2093m

Site Plan – KMZ (Overview site area)

Proposed FDP and Closure



Proposed New Pole

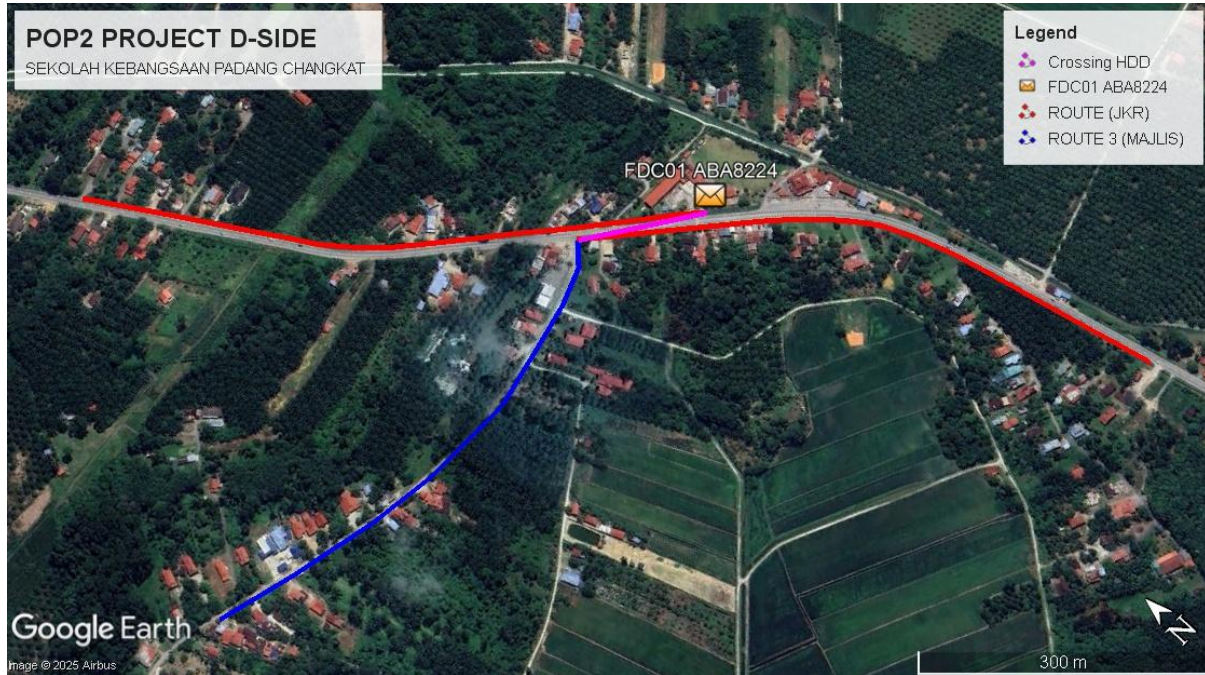




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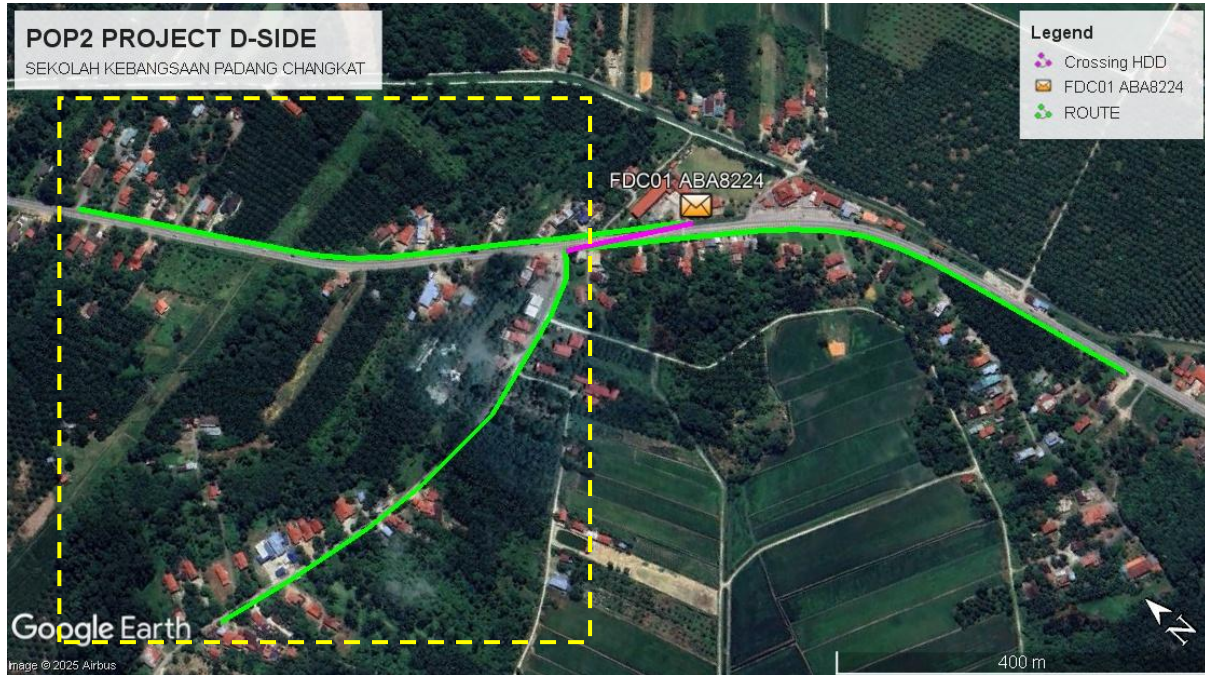
Site Plan – KMZ Routing (All Local Authority)



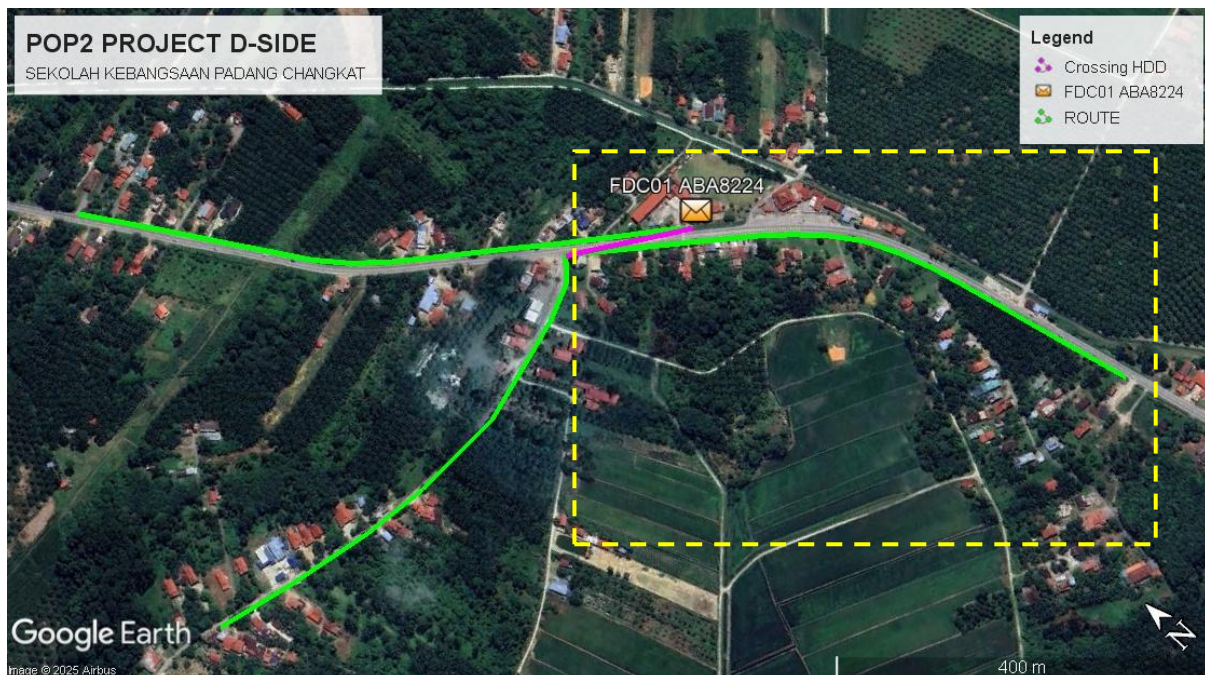
Blue Colour – Majlis Daerah Perak Tengah

Red Colour – JKR Perak

Route 1



Route 2



Site Plan – KMZ Routing (Prop New Manhole)

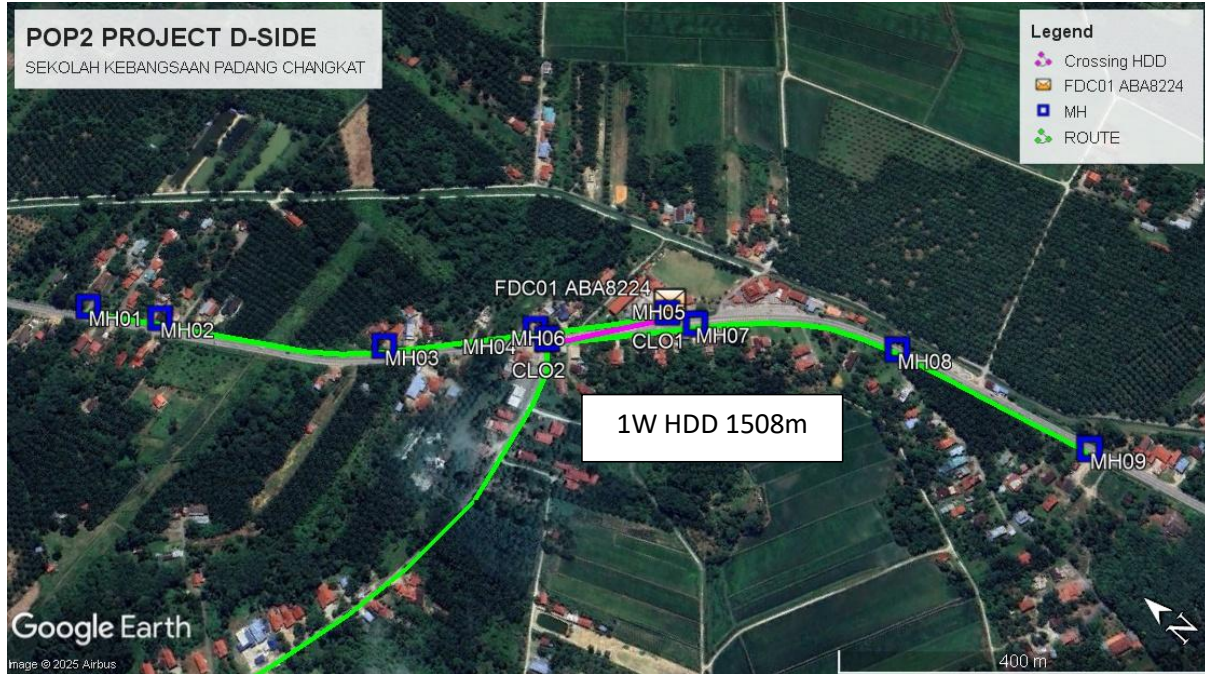


Figure 1: Location 1 (MH1- 4.330992,100.902855)

(MH2- 4.330304,100.903294)

(MH3- 4.328261,100.904711)

(MH4- 4.327191,100.905947)

(MH5- 4.326245,100.907051)

(MH6- 4.327015,100.905949)

(MH7- 4.325939,100.907159)

(MH8- 4.324132,100.908391)

(MH9- 4.321989,100.908851)



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Proposed New Pole Lat & Long Table

No.	Pole Number	Distance	Latitude	Longitude	Local Authority
1	FDC01 ABA8224	0	4.335898	100.899966	JKR Perak
2	T001	45	4.330992	100.90286	JKR Perak
3	T002	45	4.33065	100.903068	JKR Perak
4	T003	45	4.330293	100.90329	JKR Perak
5	T004	45	4.327196	100.905939	JKR Perak
6	T005	45	4.326248	100.907052	JKR Perak
7	T006	45	4.322004	100.90886	JKR Perak
8	T007	45	4.324156	100.908399	JKR Perak
9	T008	45	4.325951	100.907165	JKR Perak
10	T009	45	4.327014	100.905957	JKR Perak
11	T010 (9m)	45	4.326762	100.905592	Majlis Daerah Perak Tengah
12	T011 (9m)	45	4.326635	100.905193	Majlis Daerah Perak Tengah
13	T012 (9m)	45	4.326537	100.904781	Majlis Daerah Perak Tengah
14	T013 (9m)	45	4.326447	100.90438	Majlis Daerah Perak Tengah
15	T014	45	4.326425	100.903982	Majlis Daerah Perak Tengah
16	T015	45	4.32644	100.903572	Majlis Daerah Perak Tengah
17	T016	45	4.326448	100.903202	Majlis Daerah Perak Tengah
18	T017	45	4.326512	100.902741	Majlis Daerah Perak Tengah
19	T018	45	4.326592	100.902357	Majlis Daerah Perak Tengah
20	T019	45	4.32667	100.902002	Majlis Daerah Perak Tengah
21	T020	45	4.326785	100.901564	Majlis Daerah Perak Tengah
22	T021	45	4.326887	100.901215	Majlis Daerah Perak Tengah
23	T022	45	4.326955	100.900977	Majlis Daerah Perak Tengah

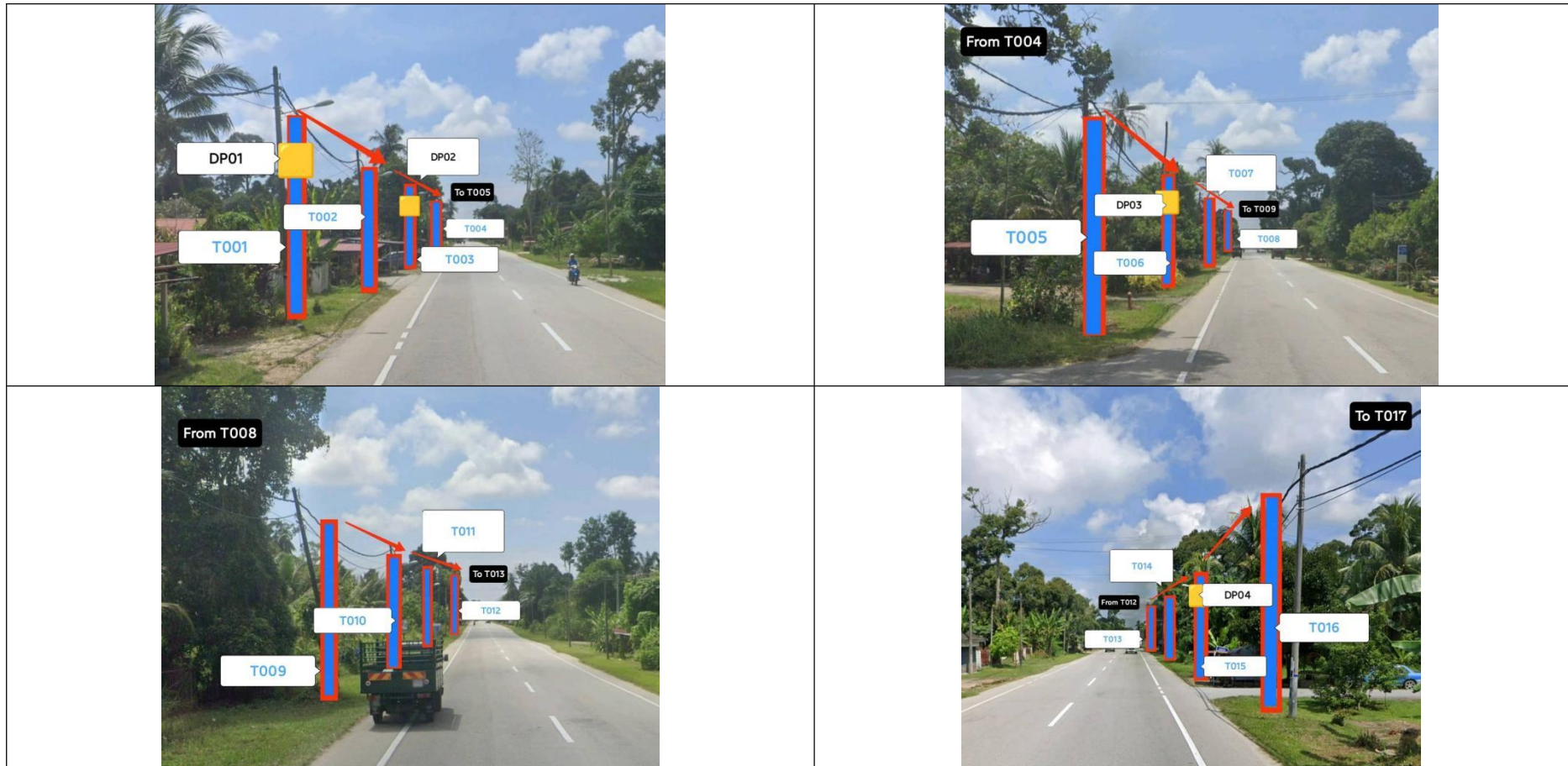
Bil	Type	7.5m	9m	Total
1	No Of Pole	18	4	22



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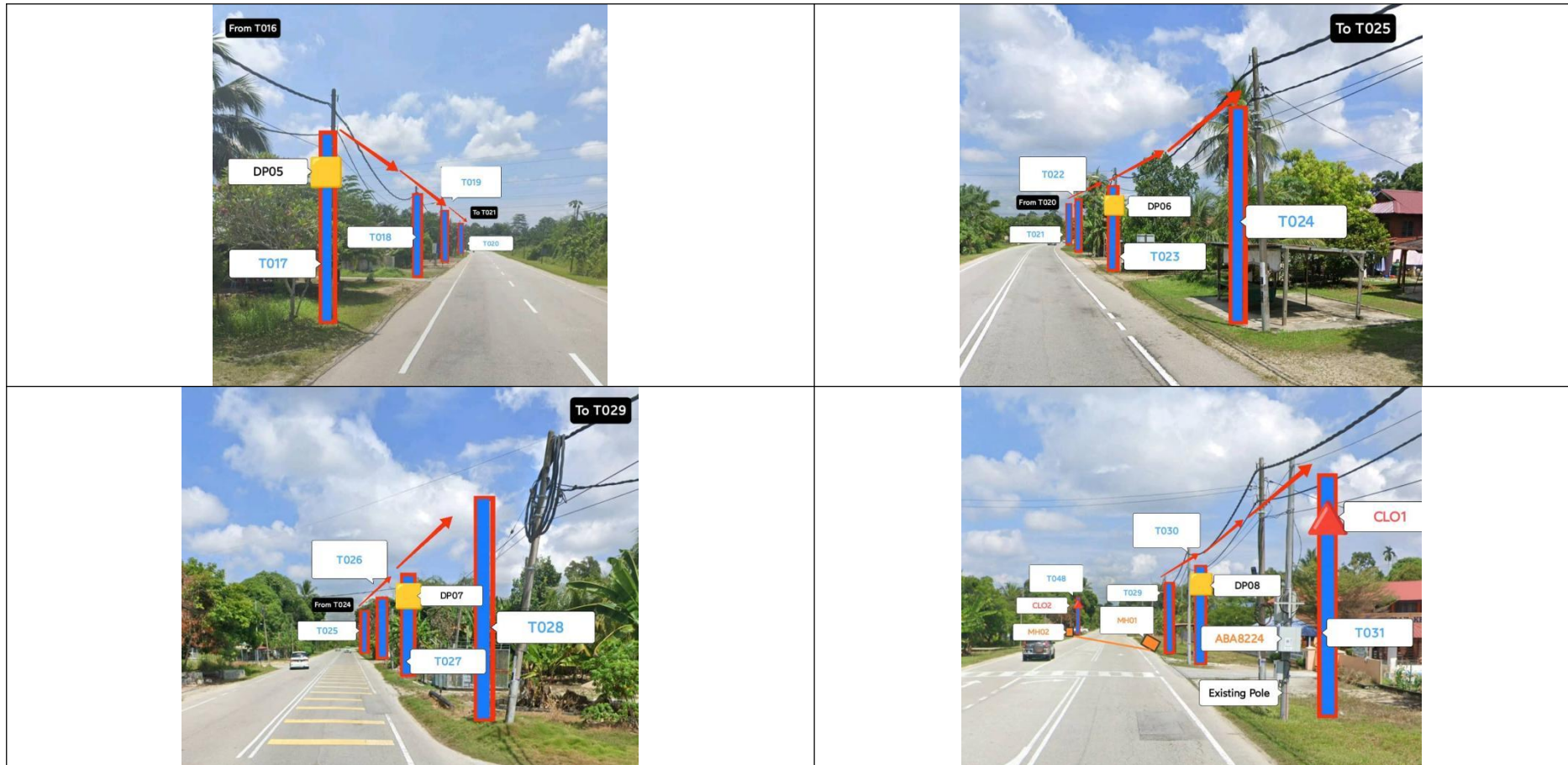


Site Photos – Proposed to install pole 7.5m



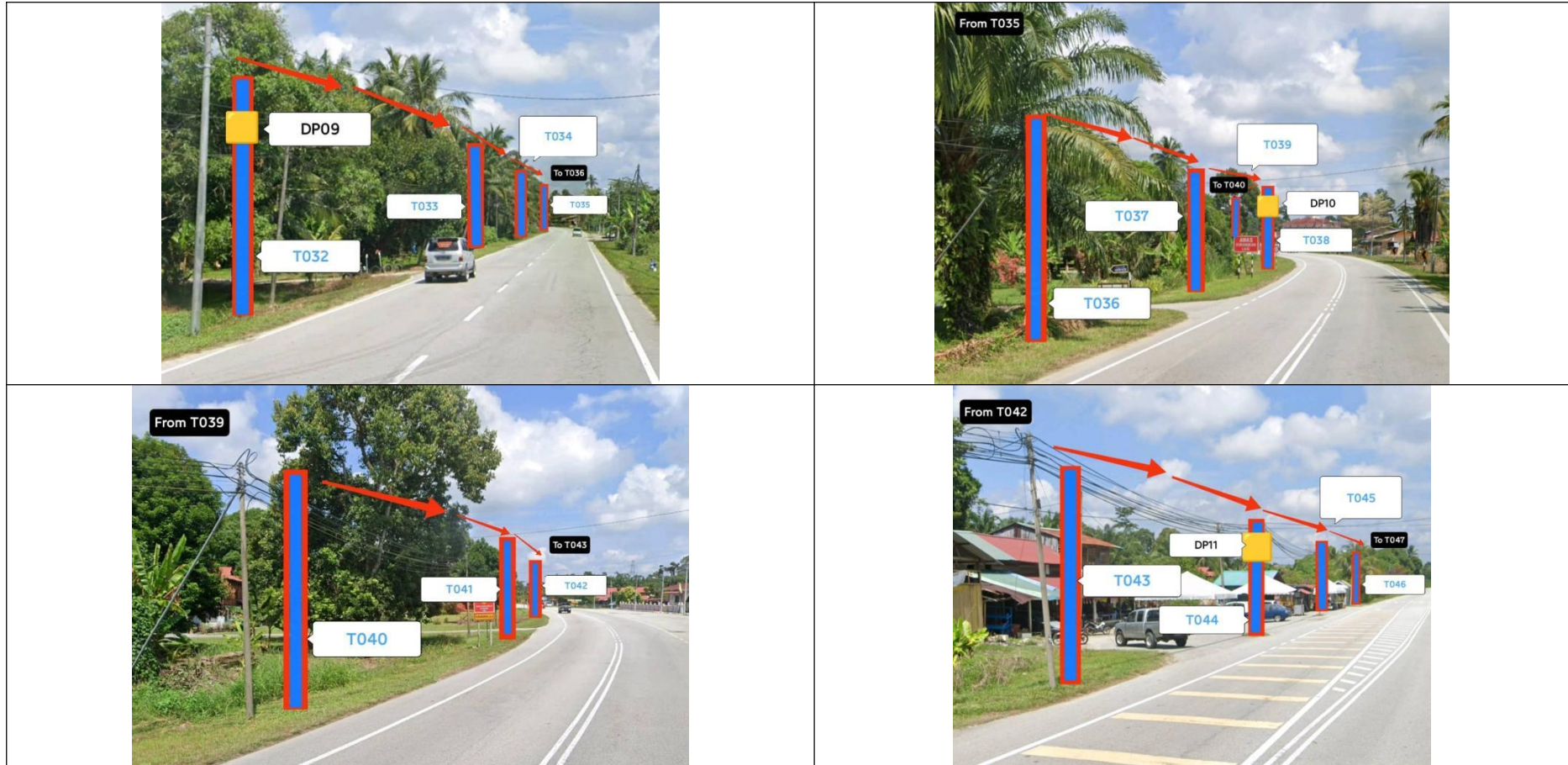


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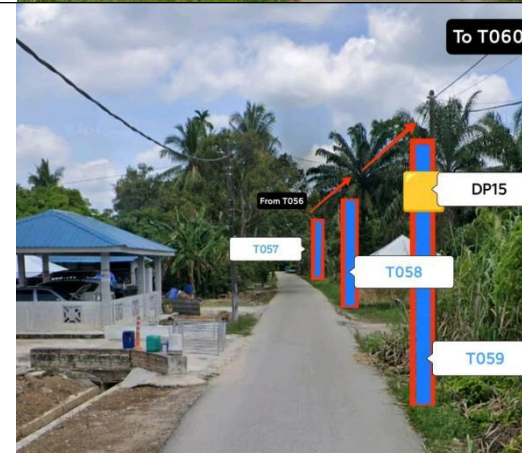
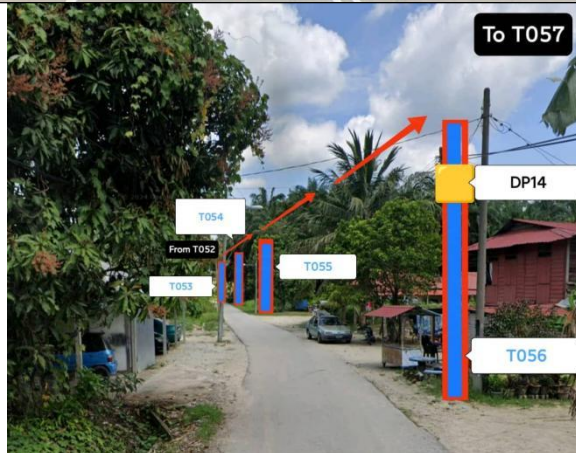
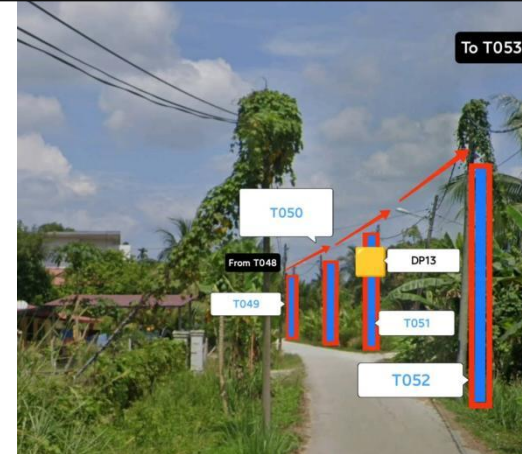
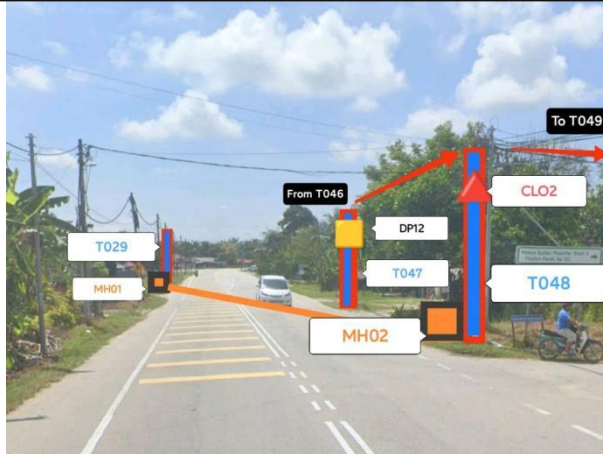


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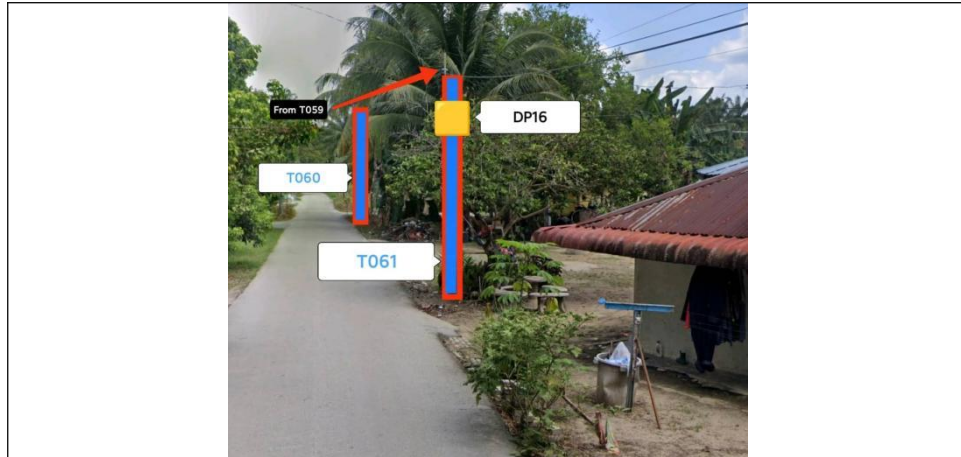


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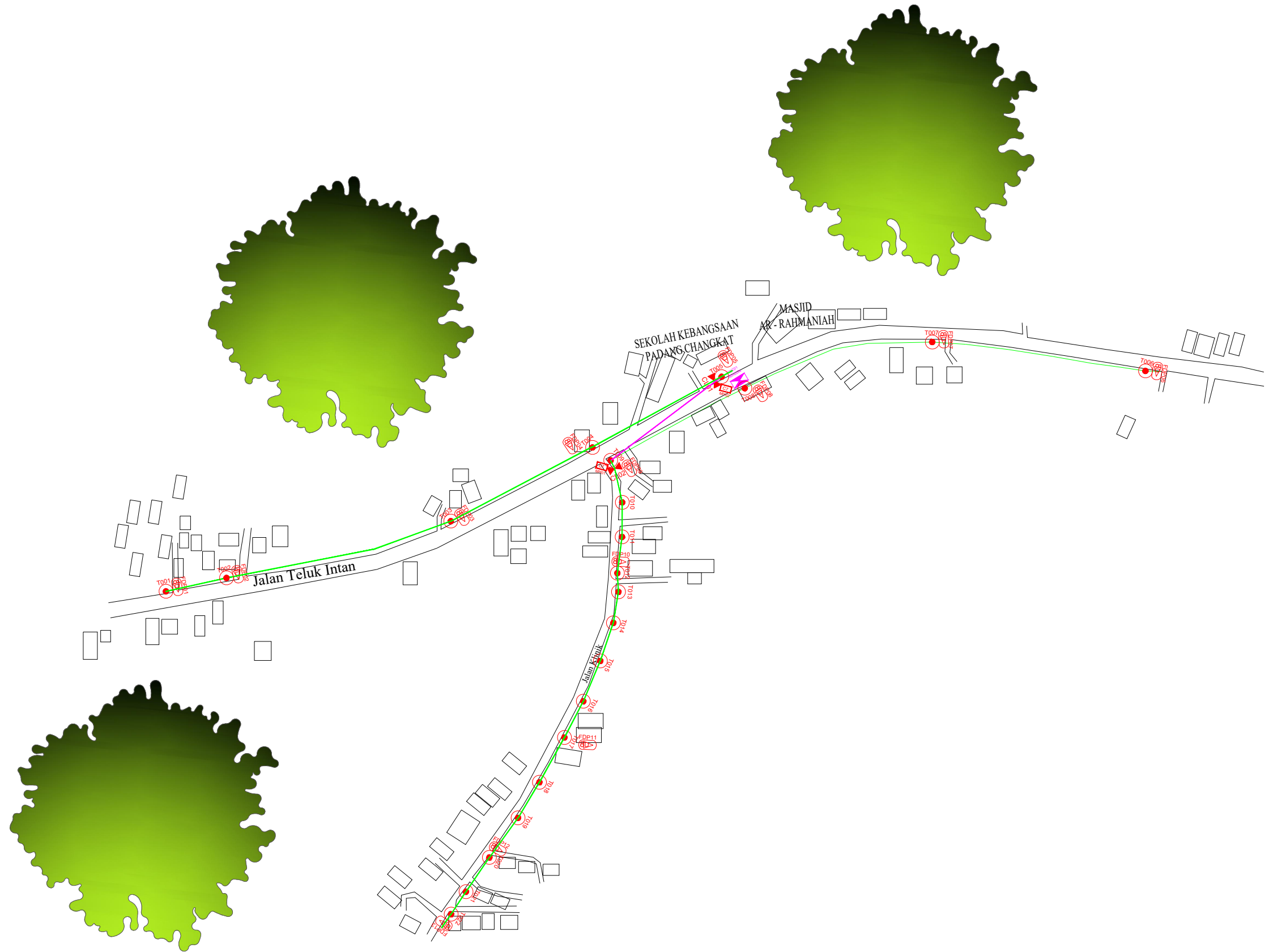


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3rd Parties Dependencies

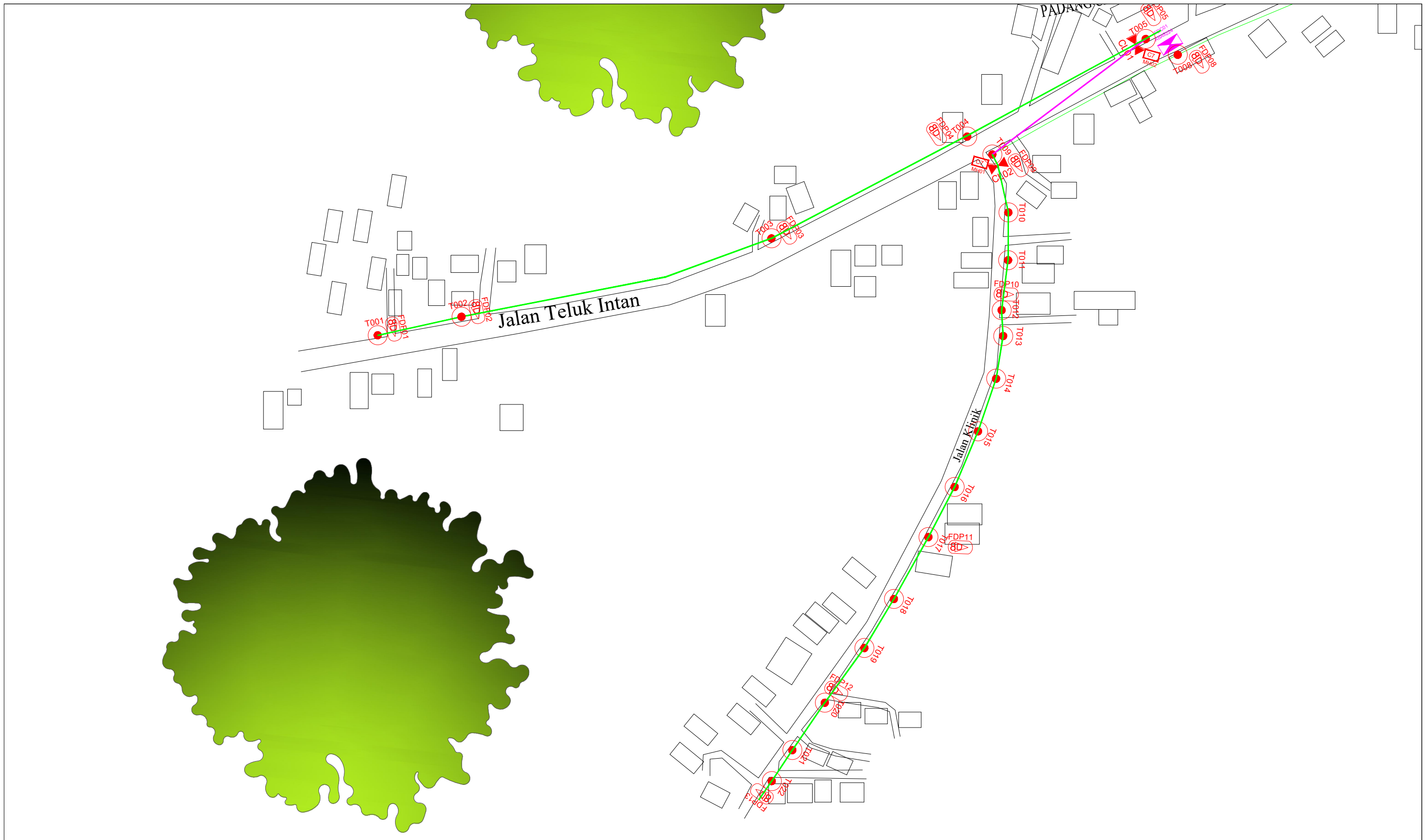
No.	Local Council/ Authority	Remark
1	Majlis Daerah Perak Tengah	
2	JKR Perak	
3		
4		
5		
6		



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.			
	12C FOC	Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		New Manhole (PIT)		Micro-Trenching (Meter)		MH NO.
	24C FOC	Installed Patch Cord		Installed Pole (7.5M)		Tension		New Manhole(JRC7)		Temporary Infra (Meter)		Existing TNB Pole NO.
	48C FOC		1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		New Pole NO.
	96C FOC		4	Existing TNB Pole		FDP with (1:8) splitter		HDD (Meter)		Active Outdoor Cabinet		Closure NO.
	144C FOC			Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.		FDP NO.

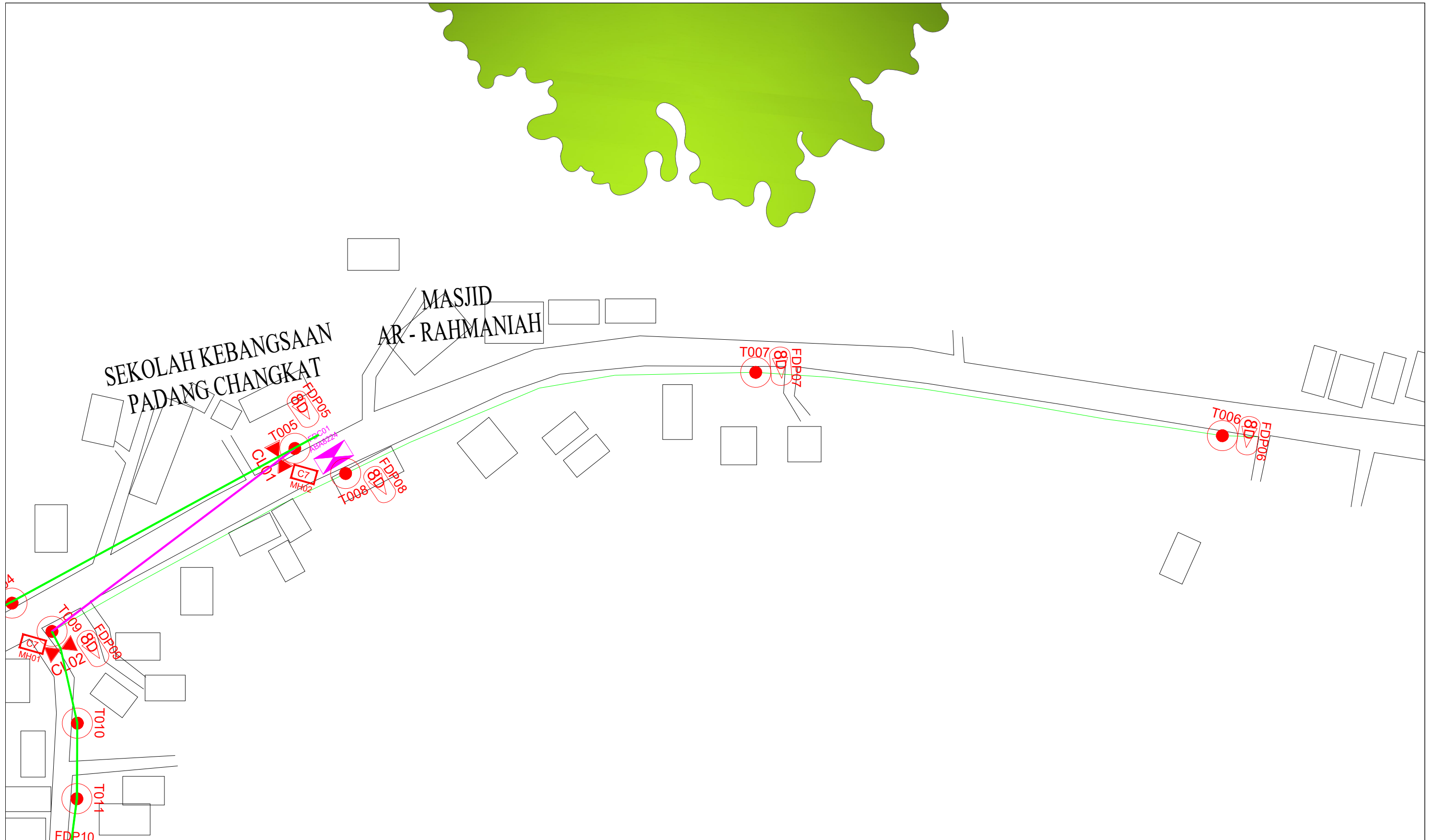
ACTUAL HOMEPASS :

<p>KEY PLAN :</p> <p>POP2 PROJECT IN PERAK</p>	<p>OWNER/DEVELOPOR :</p> <p>APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR</p>	<p>MAIN CONTRACTOR :</p> <p>WCWL COMMUNICATIONS SDN BHD 127, JALAN PUJ 3/3, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43300 SERI KEMBANGAN, SELANGOR TEL: +603 6888 5983 E-MAIL: info@wcwcommunications.com.my WEBSITE: https://wcwl.com.my</p>	<p>PROJECT TITLE :</p> <p>CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT</p>	<p>DRAWING TITLE:</p> <p>AS - BUILT DRAWING SITE PLAN DRAWING ABA8224 SEKOLAH KEBANGSAAN PADANG CHANGKAT</p>	<p>Design By : ENGINEER</p> <p>Drawn By : ENGINEER</p> <p>Checked By : ENGINEER</p>	<p>Date : MAC 2025</p> <p>Scale : NOT TO SCALE</p> <p>Job Number :</p>
				<p>PROJECT PHASE:</p> <p>POP 2</p>	<p>DRAWING NUMBER :</p> <p>ABA8201 - ABD - 01</p>	<p>Sheet :</p> <p>1/1</p>



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter	Installed Pole (9m)	S	Suspension	UB30	New Manhole (PIT)	Micro-Trenching (Meter)	MH1	MH NO.
24C FOC	2797	Installed Patch Cord	Installed Pole (7.5M)	90	T	Tension	C7	New Manhole(JRC7)	TKS-1	Existing TNB Pole NO.
48C FOC		FDC	Installed Pole (6.7M)	1	Pole Ring	FDP Boundary	HDD (Meter)	Loop / Coil (Meter)	P001	New Pole NO.
96C FOC		Closure	Existing TNB Pole	4	Existing TNB Pole	FDP with (1:8) splitter	17	Active Outdoor Cabinet	CL01	Closure NO.
144C FOC		Existing Closure	Installed Riser		Installed Riser	Existing Manhole		FDC NO.	DP1	FDP NO.

KEY PLAN :	OWNER/DEVELOPOR :	MAIN CONTRACTOR :	PROJECT TITLE :	DRAWING TITLE:	Design By : ENGINEER	Date : MAC 2025
POP2 PROJECT IN PERAK			CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT	AS - BUILT DRAWING SITE PLAN DRAWING ABA8224 SEKOLAH KEBANGSAAN PADANG CHANGKAT	Drawn By : ENGINEER	Scale : NOT TO SCALE
	APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR	WCWL COMMUNICATIONS SDN BHD 127, JALAN PUI 3/3, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43500 SERI KEMBANGAN, SELANGOR TEL: +603 5888 5983 E-MAIL: info@wcwcommunications.com.my WEBSITE: https://wcwl.com.my		PROJECT PHASE: POP 2	Checked By : ENGINEER	Job Number :
					DRAWING NUMBER : ABA8201 - ABD - 01	Sheet : 1/1
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LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.				
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		New Manhole (PIT)		Micro-Trenching (Meter)		MH1	MH NO.
24C FOC	2797	Installed Patch Cord		Installed Pole (7.5M)	90	Tension		New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1	Existing TNB Pole NO.
48C FOC		FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		P001	New Pole NO.
96C FOC		Closure	4	Existing TNB Pole		FDP with (1:8) splitter	17	HDD (Meter)		Active Outdoor Cabinet		CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.		DP1	FDP NO.

KEY PLAN :	OWNER/DEVELOPOR :	MAIN CONTRACTOR :	PROJECT TITLE :	DRAWING TITLE:	Design By : ENGINEER	Date : MAC 2025
POP2 PROJECT IN PERAK			CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT	AS - BUILT DRAWING SITE PLAN DRAWING ABA8224 SEKOLAH KEBANGSAAN PADANG CHANGKAT	Drawn By : ENGINEER	Scale : NOT TO SCALE
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ACTUAL HOMEPASS :