



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 ABA8228 SEKOLAH KEBANGSAAN DATO' SAGOR (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	:	13/02/2025



POINT A

POINT B

Starting Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN DATO' SAGOR
Address	:	No. 14, Jalan Setia 1
District	:	Kampung Gajah
Postcode	:	36800
State	:	Perak
GPS Coordinate	:	4.193898, 100.953225
LRD	:	A

End Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN DATO' SAGOR
Address	:	Jalan Tanjung Tualang
District	:	Kampung Gajah
Postcode	:	36800
State	:	Perak
GPS Coordinate	:	4.196040, 100.948688
	:	B



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Work Summary

No	Proposed Distance and Method	Unit	Qty
1	Horizontal Directional Drilling (HDD)	m	67
2	Carriage Way Open trench (CW)	m	0
3	Grass Verge Open Trenching (GV)	m	0
4	Micro trenching (MT)	m	0
	Total		67

	Other Information	Unit	Qty
1	Proposed Manhole	EA	2
2	Proposed Pole	EA	41
3	Joint Closure	EA	3
4	Estimated time required for completion	days	30



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Local Authority Summary

1. Perak Tengah

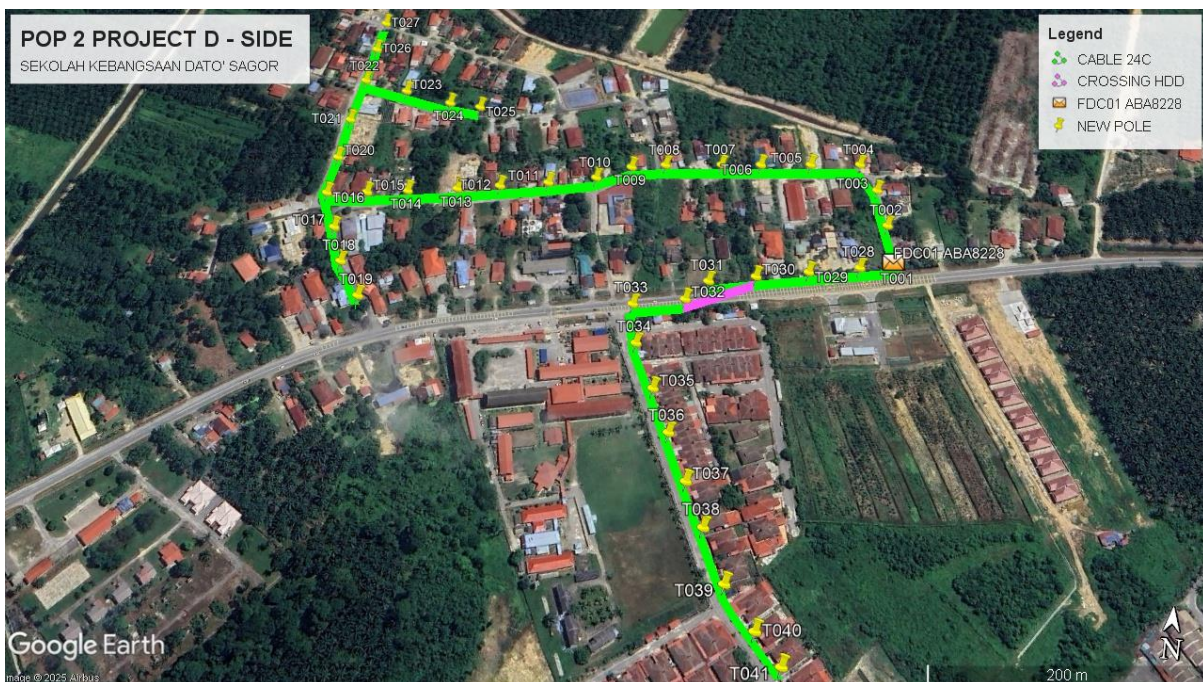
Bil	Items	Owner	Quantity	Distance
1	HDD	JKR	1	67m
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	7	315m
		Majlis	34	1530m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				1912m

Site Plan – KMZ (Overview site area)

Proposed FDP and Closure



Proposed New Pole



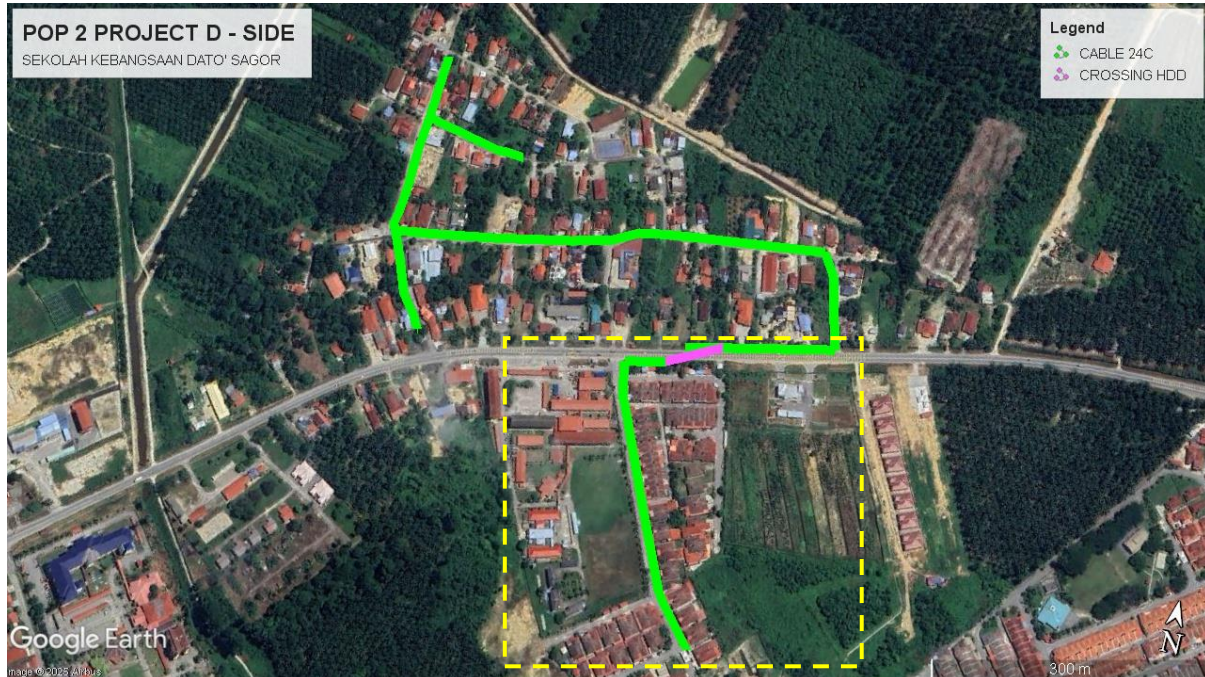
Site Plan – KMZ Routing (All Local Authority)



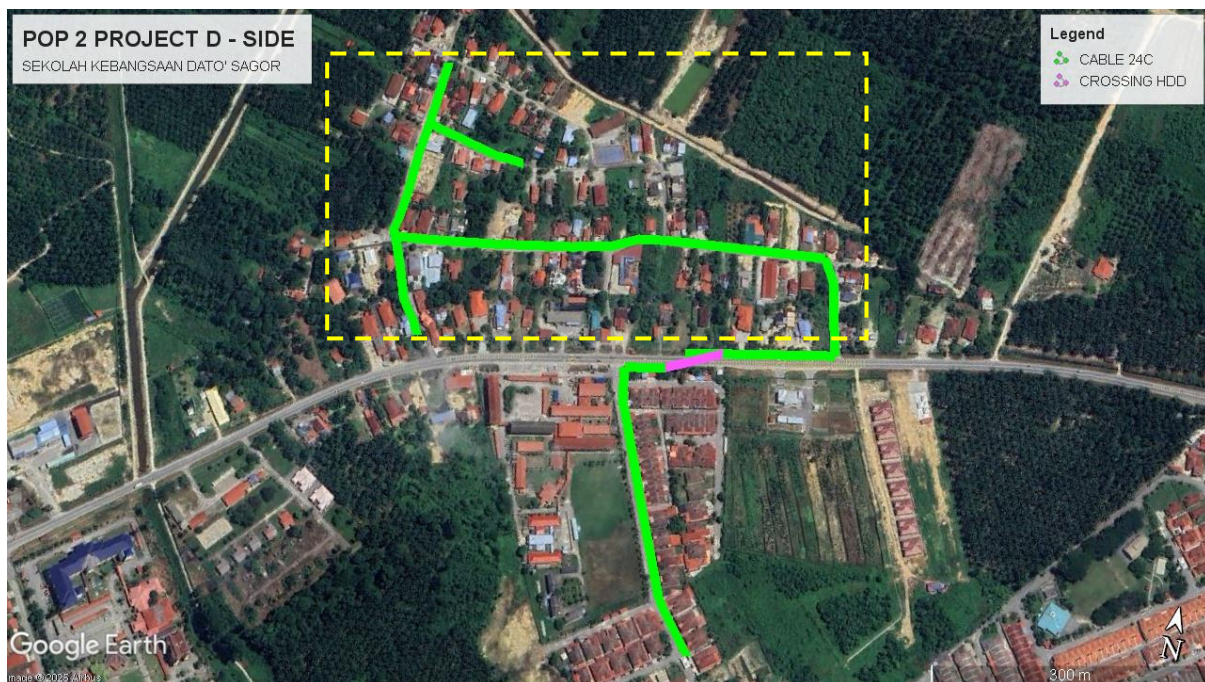
Blue Colour – Majlis Daerah Perak Tengah

Red Colour – JKR Perak

Route 1



Route 2



Site Plan – KMZ Routing (Prop New Manhole)



Figure 1: Location 1 (MH1- 4.193679, 100.952138) (MH2- 4.193413, 100.951603)



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Proposed New Pole Lat & Long Table

No.	Pole Number	Distance	Latitude	Longitude	Local Authority
1	FDC01 ABA8228	0.00	4.193898	100.953225	JKR Perak
2	T001	45	4.193915	100.953247	JKR Perak
3	T002	45	4.194282	100.953167	Majlis Daerah Perak Tengah
4	T003	45	4.194626	100.953089	Majlis Daerah Perak Tengah
5	T004	45	4.194879	100.952953	Majlis Daerah Perak Tengah
6	T005	45	4.194834	100.952544	Majlis Daerah Perak Tengah
7	T006	45	4.194788	100.952131	Majlis Daerah Perak Tengah
8	T007	45	4.194753	100.951805	Majlis Daerah Perak Tengah
9	T008	45	4.194701	100.951342	Majlis Daerah Perak Tengah
10	T009	45	4.194649	100.951063	Majlis Daerah Perak Tengah
11	T010	45	4.194509	100.950783	Majlis Daerah Perak Tengah
12	T011	45	4.194416	100.950396	Majlis Daerah Perak Tengah
13	T012	45	4.194340	100.950003	Majlis Daerah Perak Tengah
14	T013	45	4.194274	100.949661	Majlis Daerah Perak Tengah
15	T014	45	4.194209	100.949257	Majlis Daerah Perak Tengah
16	T015 (9m)	45	4.194158	100.948930	Majlis Daerah Perak Tengah
17	T016 (9m)	45	4.194118	100.948604	Majlis Daerah Perak Tengah
18	T017 (9m)	45	4.193790	100.948743	Majlis Daerah Perak Tengah
19	T018	45	4.193475	100.948869	Majlis Daerah Perak Tengah
20	T019	45	4.193177	100.949074	Majlis Daerah Perak Tengah
21	T020	45	4.194489	100.948609	Majlis Daerah Perak Tengah
22	T021 (9m)	45	4.194899	100.948621	Majlis Daerah Perak Tengah
23	T022 (9m)	45	4.195349	100.948655	Majlis Daerah Perak Tengah
24	T023	45	4.195265	100.949035	Majlis Daerah Perak Tengah
25	T024	45	4.195172	100.949436	Majlis Daerah Perak Tengah
26	T025	45	4.195155	100.949701	Majlis Daerah Perak Tengah
27	T026	45	4.195721	100.948672	Majlis Daerah Perak Tengah
28	T027	45	4.196040	100.948688	Majlis Daerah Perak Tengah
29	T028	45	4.193852	100.952942	JKR Perak
30	T029	45	4.193768	100.952544	JKR Perak
31	T030	45	4.193682	100.952134	JKR Perak
32	T031	45	4.193600	100.951768	JKR Perak
33	T032	45	4.193417	100.951599	JKR Perak
34	T033 (9m)	45	4.193331	100.951199	JKR Perak
35	T034 (9m)	45	4.192991	100.951256	Majlis Daerah Perak Tengah
36	T035	45	4.192626	100.951417	Majlis Daerah Perak Tengah
37	T036	45	4.192284	100.951559	Majlis Daerah Perak Tengah
38	T037	45	4.191924	100.951711	Majlis Daerah Perak Tengah
39	T038	45	4.191601	100.951853	Majlis Daerah Perak Tengah



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40	T039	45	4.191222	100.952020	Majlis Daerah Perak Tengah
41	T040	45	4.190930	100.952236	Majlis Daerah Perak Tengah
42	T041	45	4.190721	100.952415	Majlis Daerah Perak Tengah

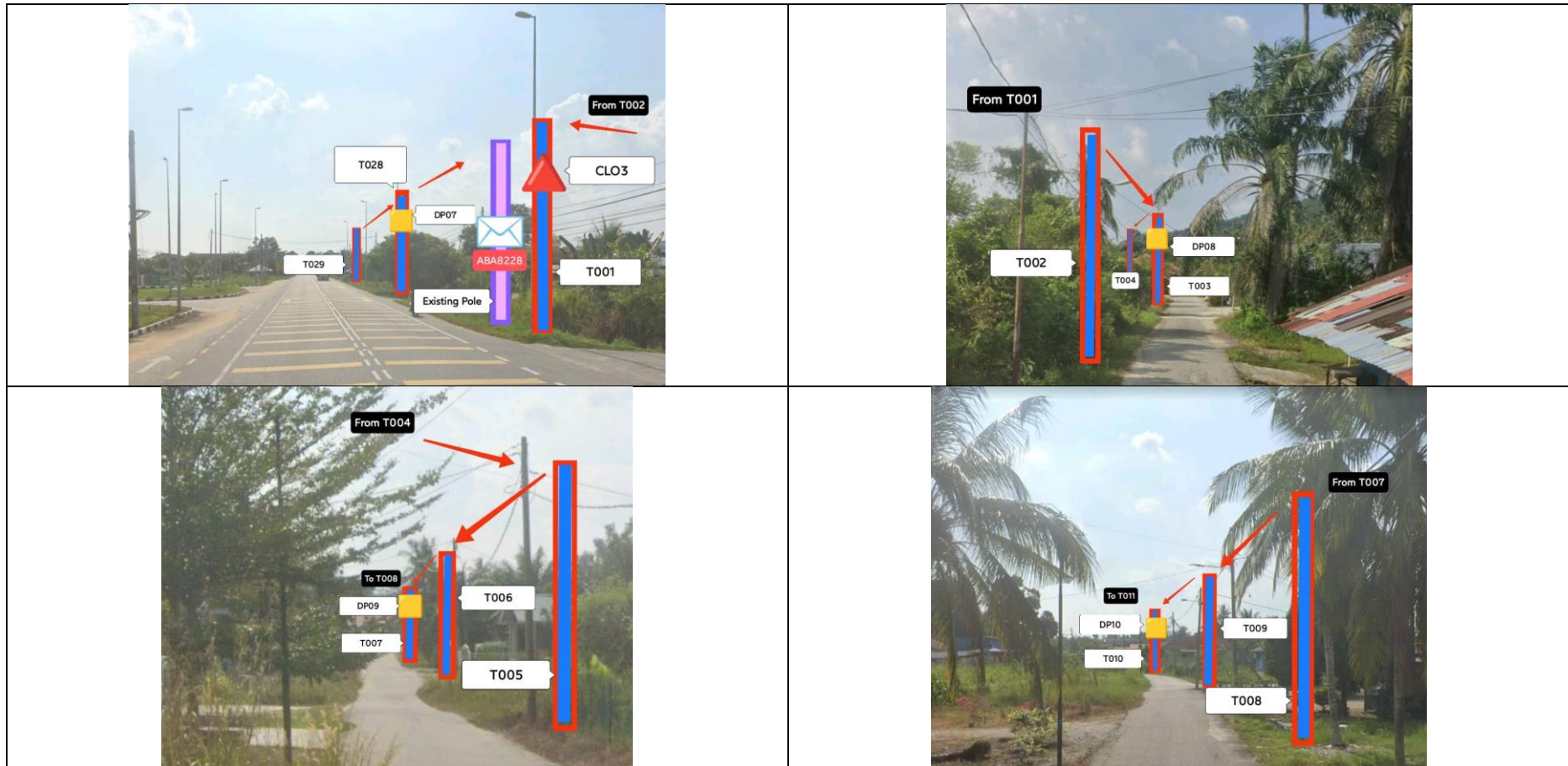
Bil	Type	7.5m	9m	Total
1	No Of Pole	34	7	41



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Site Photos – Proposed to install pole 7.5m



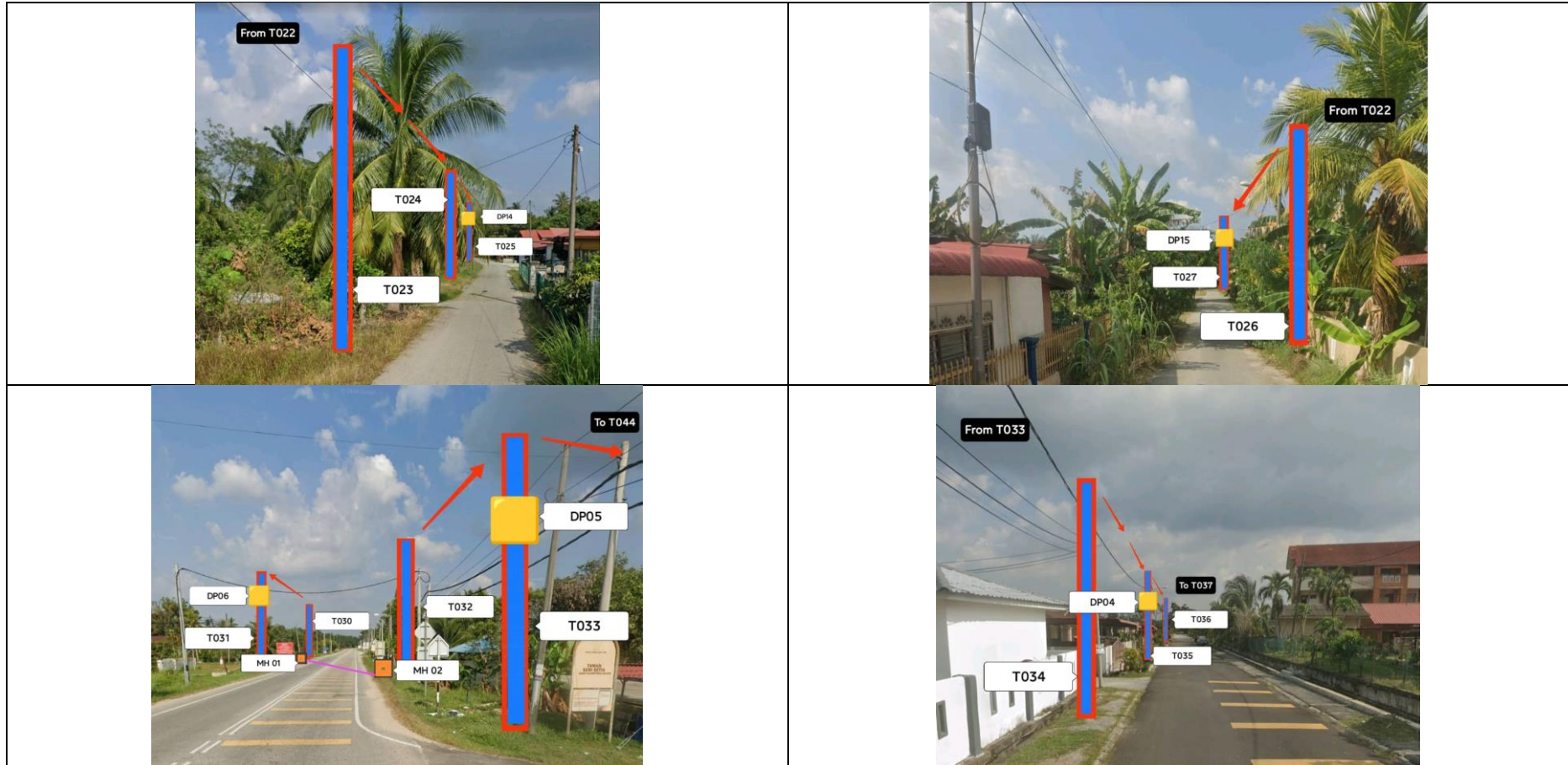


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3rd Parties Dependencies

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



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.		
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter	9m	Installed Pole (9m)	S	Suspension	JB30	New Manhole (PIT)	Micro-Trenching (Meter)	MH1	MH NO.
24C FOC	2797	Installed Patch Cord	7.5M	Installed Pole (7.5M)	T	Tension	C7	New Manhole(JRC7)	Temporary Infra (Meter)	TKS-1	Existing TNB Pole NO.
48C FOC		FDC	6.7M	Installed Pole (6.7M)	R	Pole Ring		FDP Boundary	Loop / Coil (Meter)	P001	New Pole NO.
96C FOC		Closure	4	Existing TNB Pole	S	FDP with (1:8) splitter	17	HDD (Meter)	Active Outdoor Cabinet	CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser	M	Existing Manhole		Open Cut (Meter)	C01	DP1	FDP NO.

ACTUAL HOMEPASS :

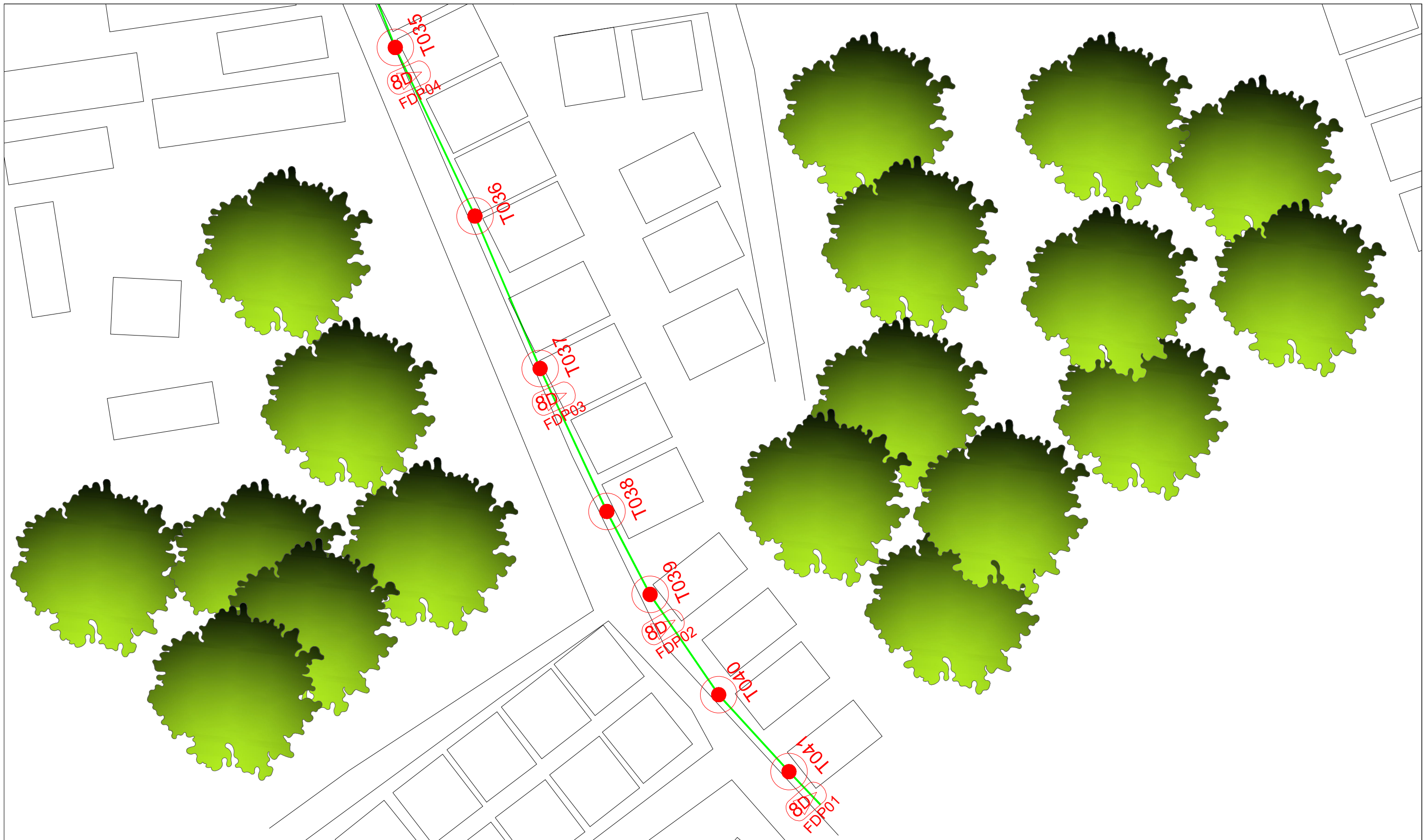
<p>KEY PLAN :</p> <p>POP2 PROJECT IN PERAK</p>	<p>OWNER/DEVELOPOR :</p>  <p>APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR</p>	<p>MAIN CONTRACTOR :</p>  <p>WCWL COMMUNICATIONS SDN BHD 127, JALAN PUTI 3/3, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43300 SERI KEMBANGAN, SELANGOR TEL: +603 8888 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 ABA8228 SEKOLAH KEBANGSAAN DATO' SAGOR</p>	<p>Design By : ENGINEER</p>	<p>Date : FEB 2025</p>
					<p>Drawn By : ENGINEER</p>	<p>Scale : NOT TO SCALE</p>
<p>PROJECT PHASE: POP 2</p>					<p>Checked By : ENGINEER</p>	<p>Job Number :</p>
<p>DRAWING NUMBER : ABA8228 - ABD - 01</p>					<p>THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD</p>	<p>Sheet : 1/3</p>
					<p>Size : A3</p>	



LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.
12C FOC	2797	1	4	90	17	UB30	CT7	CT7	MH1
24C FOC	Installed Patch Cord	FDC	Closure	Installed Pole (9m)	Installed Pole (7.5M)	New Manhole (PIT)	New Manhole(JRC7)	Micro-Trenching (Meter)	MH NO.
48C FOC	Existing Closure	Existing Closure	Existing Closure	Suspension	Tension	FDP Boundary	FDP Boundary	Temporary Infra (Meter)	TKS-1 Existing TNB Pole NO.
96C FOC	Existing Closure	Existing Closure	Existing Closure	Pole Ring	Pole Ring	HDD (Meter)	HDD (Meter)	Loop / Coil (Meter)	P001 New Pole NO.
144C FOC	Existing Closure	Existing Closure	Existing Closure	FDP with (1:8) splitter	FDP with (1:8) splitter	Open Cut (Meter)	Open Cut (Meter)	Active Outdoor Cabinet	CL01 Closure NO.
				Existing Manhole	Existing Manhole			FDC NO.	DP1 FDP NO.

ACTUAL HOMEPASS :

KEY PLAN : POP2 PROJECT IN PERAK	OWNER/DEVELOPOR : APEX COMMUNICATIONS SDN BHD 12th FLOOR, MENARA HAP SENG, 50250 JALAN P. RAMLEE KUALA LUMPUR	MAIN CONTRACTOR : WCWL COMMUNICATIONS SDN BHD 127, JALAN PUJI 3/3, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43500 SERI KEMBANGAN, SELANGOR TEL: +603 5888 5983 E-MAIL: info@wcwlcommunications.com.my WEBSITE: https://wcwl.com.my	PROJECT TITLE : CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT	DRAWING TITLE: AS - BUILT DRAWING SITE PLAN DRAWING ABA8228 SEKOLAH KEBANGSAAN DATO' SAGOR	Design By : ENGINEER	Date : FEB 2025
					Drawn By : ENGINEER	Scale : NOT TO SCALE
PROJECT PHASE: POP 2					Checked By : ENGINEER	Job Number :
DRAWING NUMBER : ABA8228 - ABD - 01A					THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD	Sheet : 2/3 Size : A3



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	2797 Installed Patch Cord		Installed Pole (7.5M)	90	T	Tension		New Manhole(JRC7)		TKS-1	Existing TNB Pole NO.
	48C FOC			Installed Pole (6.7M)			Pole Ring		FDP Boundary		P001	New Pole NO.
	96C FOC		1	FDC			FDP with (1:8) splitter	17	HDD (Meter)		CL01	Closure NO.
	144C FOC		4	Closure			Existing TNB Pole		Open Cut (Meter)		DP1	FDP NO.
				Existing Closure			Installed Riser					

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 PUTI 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</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 ABA8228 SEKOLAH KEBANGSAAN DATO' SAGOR</p>	<p>Design By : ENGINEER</p>	<p>Date : FEB 2025</p>
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