

TECHNICAL PROPOSAL POP2 ABA8209 SEKOLAH KEBANGSAAN PULAU PADANG (D-SIDE)

Company Name	: WCWL COMMUNICATIONS SDN BHD
Company Address	: 127, Jalan PUJ 3/3, Taman Puncak Jalil 43300 Subang Jaya Selangor
Prepared By	: Nur Syahidah Izzatie
Date	: 10/12/2024



POINT A

POINT B

Starting Point

Site / Boundary Name	: SEKOLAH KEBANGSAAN PULAU PADANG
Address	: Kampung Pulau Padang
District	: Bota
Postcode	: 32600
State	: Perak
GPS Coordinate	: 4.374930, 100.893200
LRD	: A

End Point

Site / Boundary Name	: SEKOLAH KEBANGSAAN PULAU PADANG
Address	: Jalan Tanjung Belanja - Bota Kiri, Kampung Dusun Hulu
District	: Bota
Postcode	: 32600
State	: Perak
GPS Coordinate	: 4.388991, 100.884478
LRD	: B



PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB 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))



Work Summary

No	Proposed Distance and Method	Unit	Qty
1	Horizontal Directional Drilling (HDD)	m	0
2	Carriage Way Open trench (CW)	m	0
3	Grass Verge Open Trenching (GV)	m	0
4	Micro trenching (MT)	m	40
	Total		40

	Other Information	Unit	Qty
1	Proposed Manhole	EA	0
2	Proposed Pole	EA	103
3	Joint Closure	EA	1
4	Estimated time required for completion	days	30



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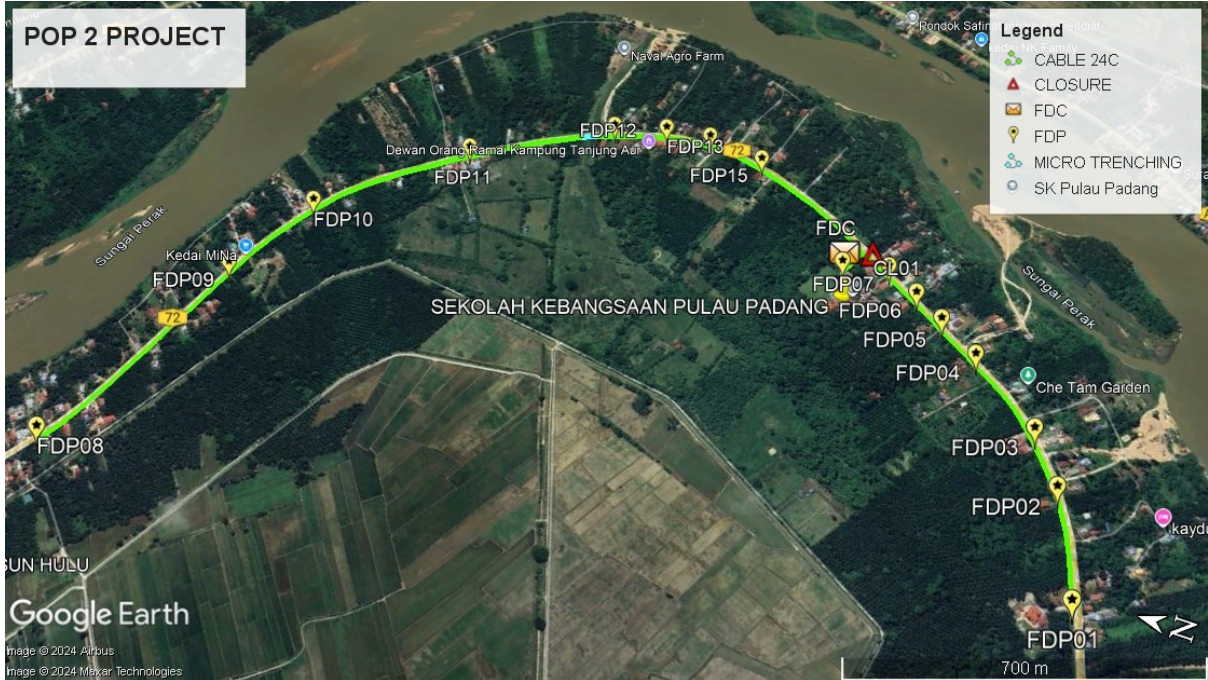
Local Authority Summary

1. Daerah Perak Tengah

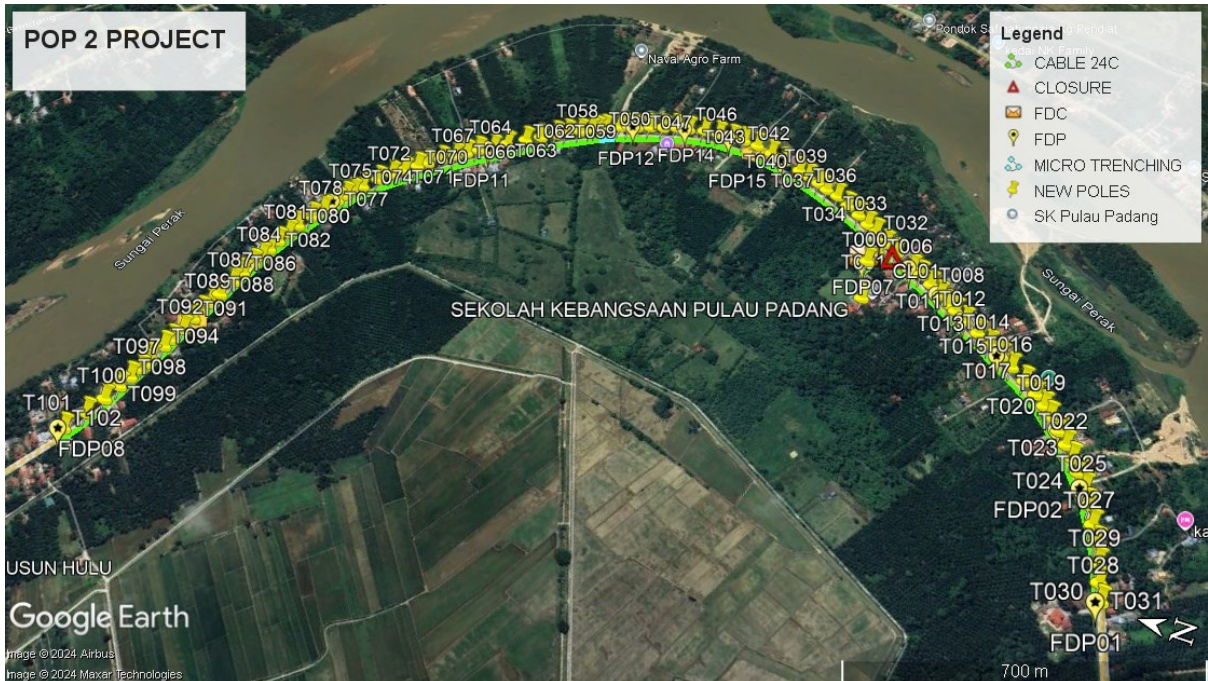
Bil	Items	Owner	Quantity	Distance(m)
1	HDD	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	99pcs	3382m
		Majlis	4pcs	78m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				3460m

Site Plan – KMZ (Overview site area)

Proposed FDP and Closure



Proposed New Pole



Site Plan – KMZ Routing (All Local Authority)

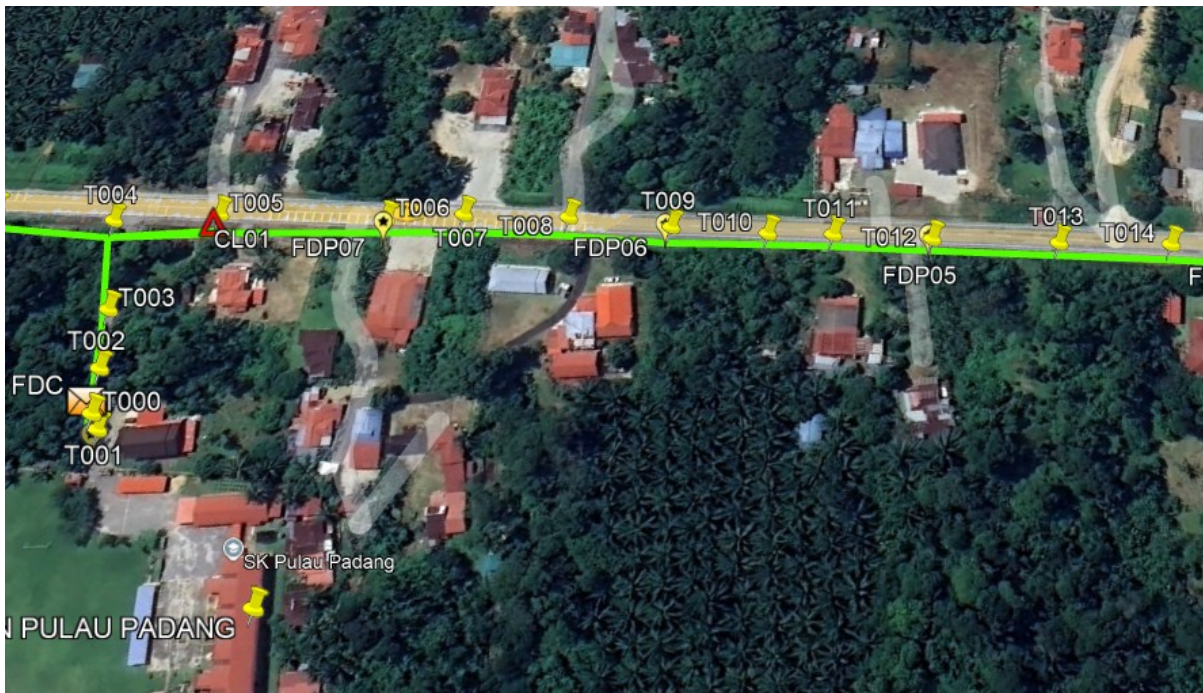
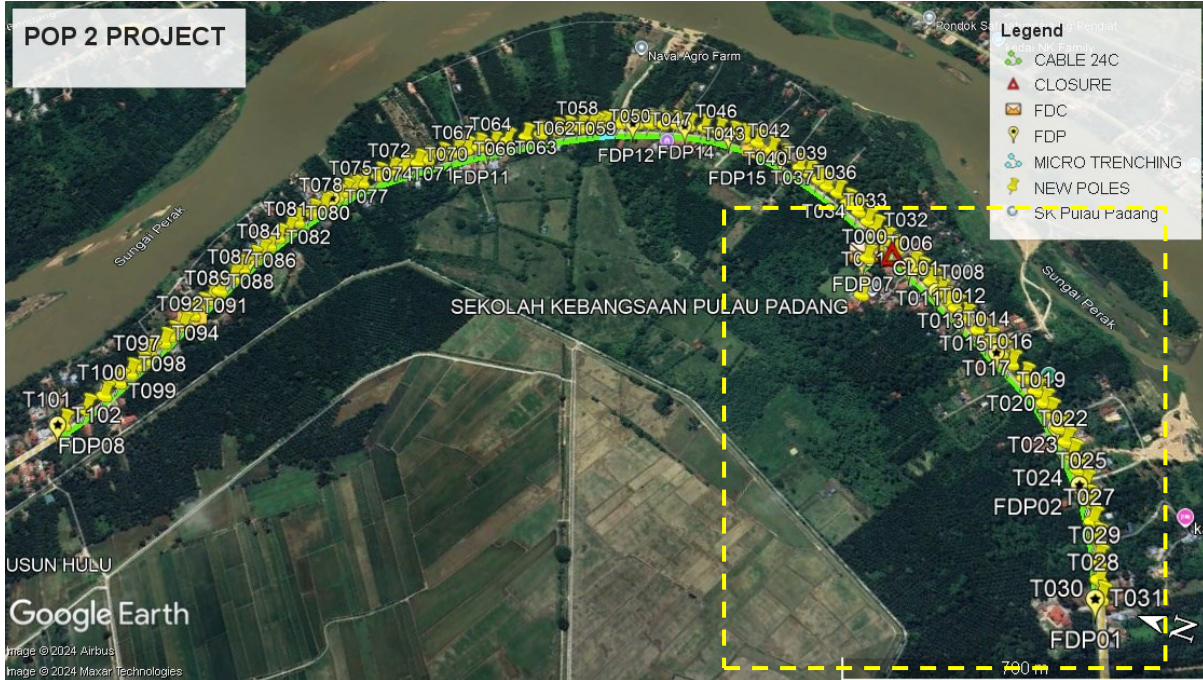


Red – JKR Perak

Blue - Majlis Perbandaran Perak Tengah

Site Plan – KMZ Routing (All site area)

Route 1



Route 1.1



Route 1.2

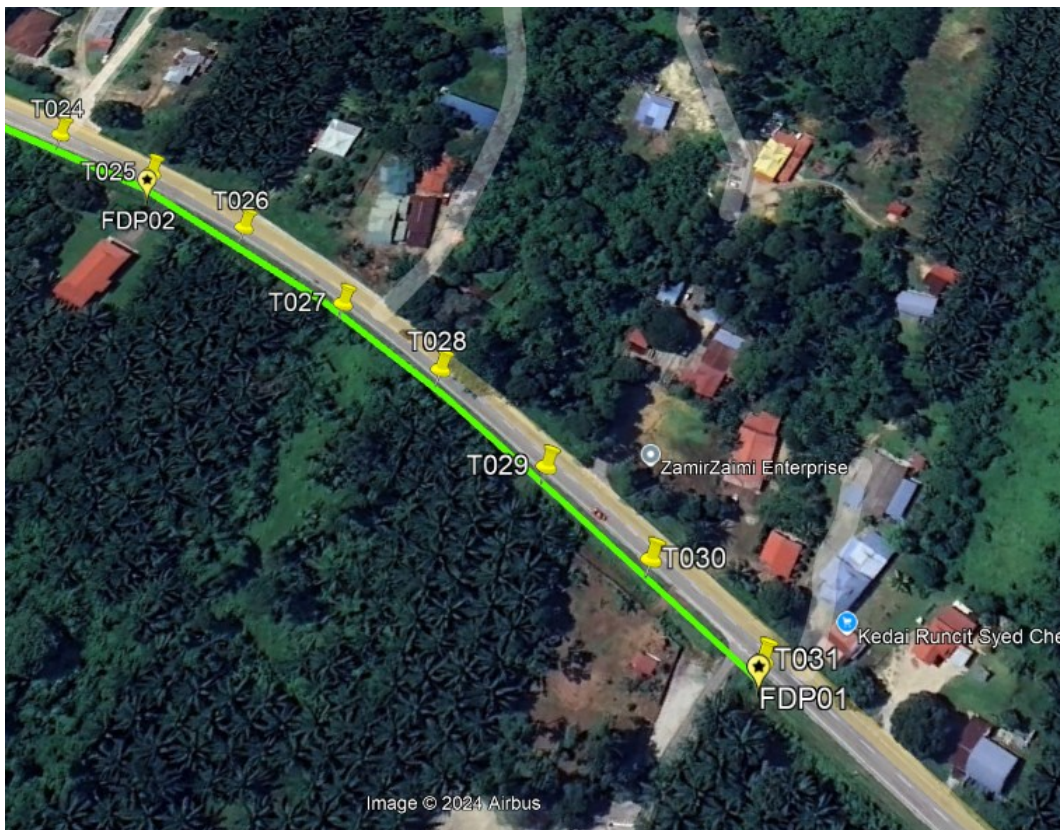
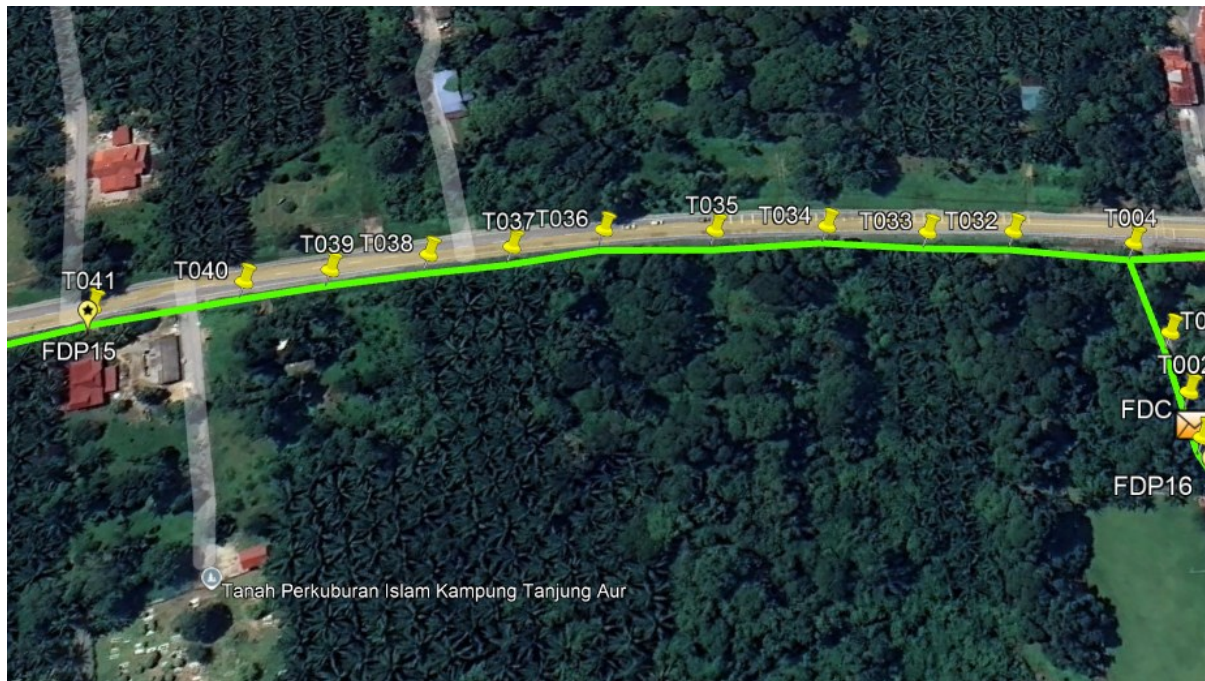


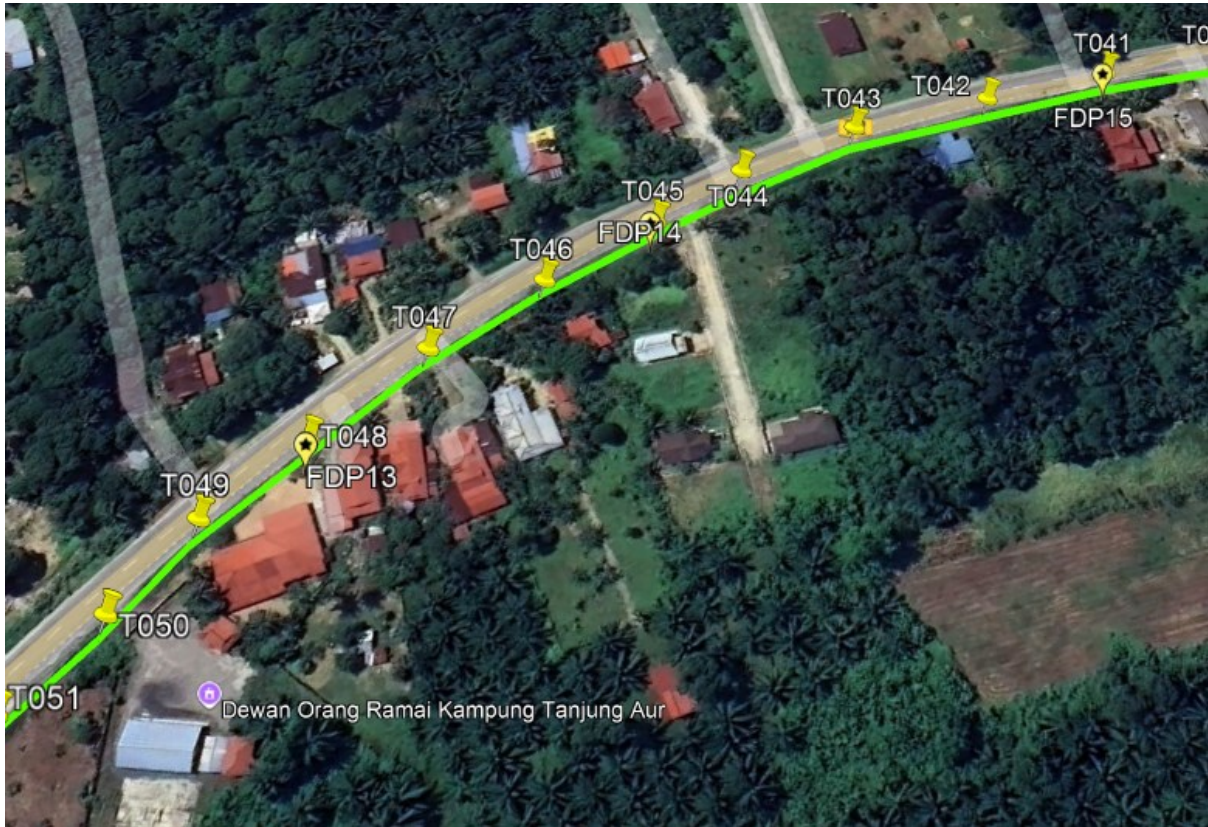
Image © 2024 Airbus

Route 1.3

Route 2



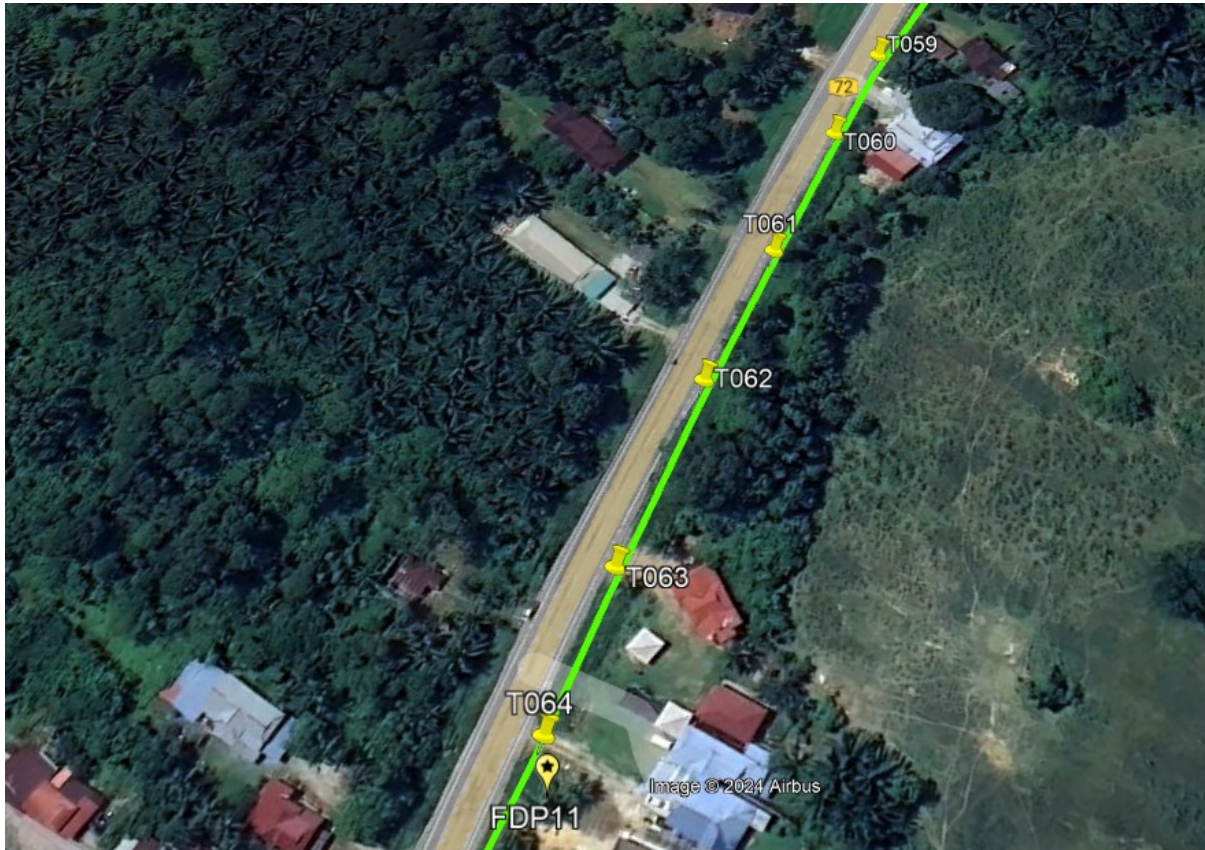
Route 2.1



Route 2.2

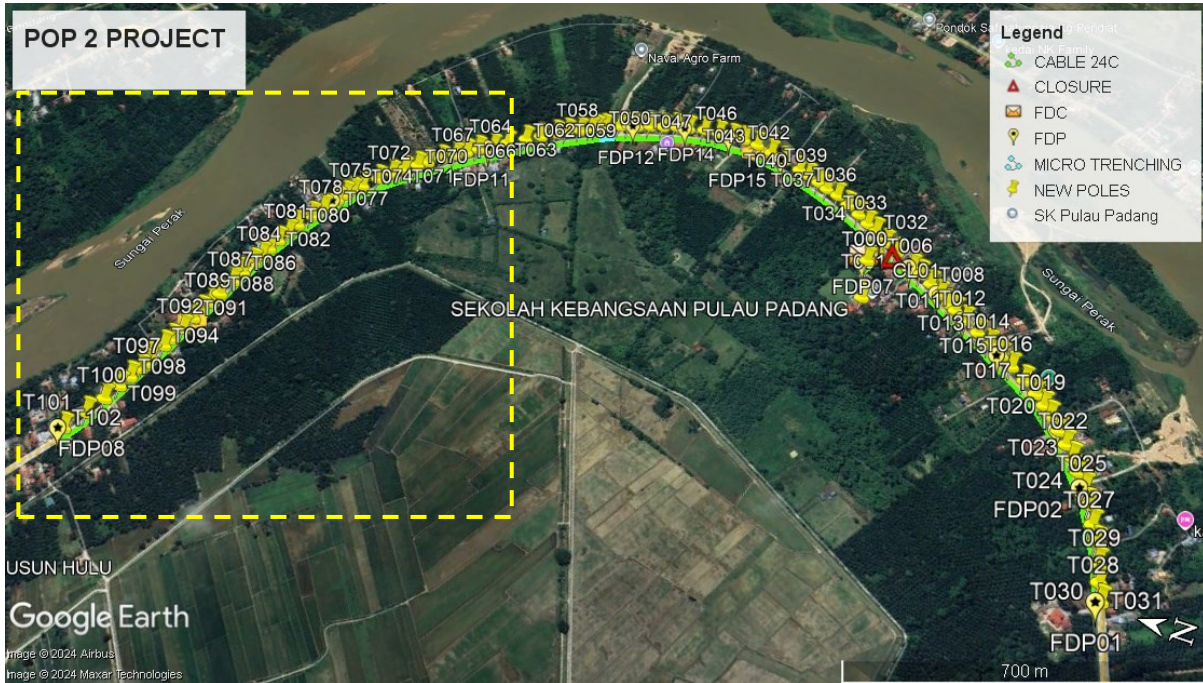


Route 2.3

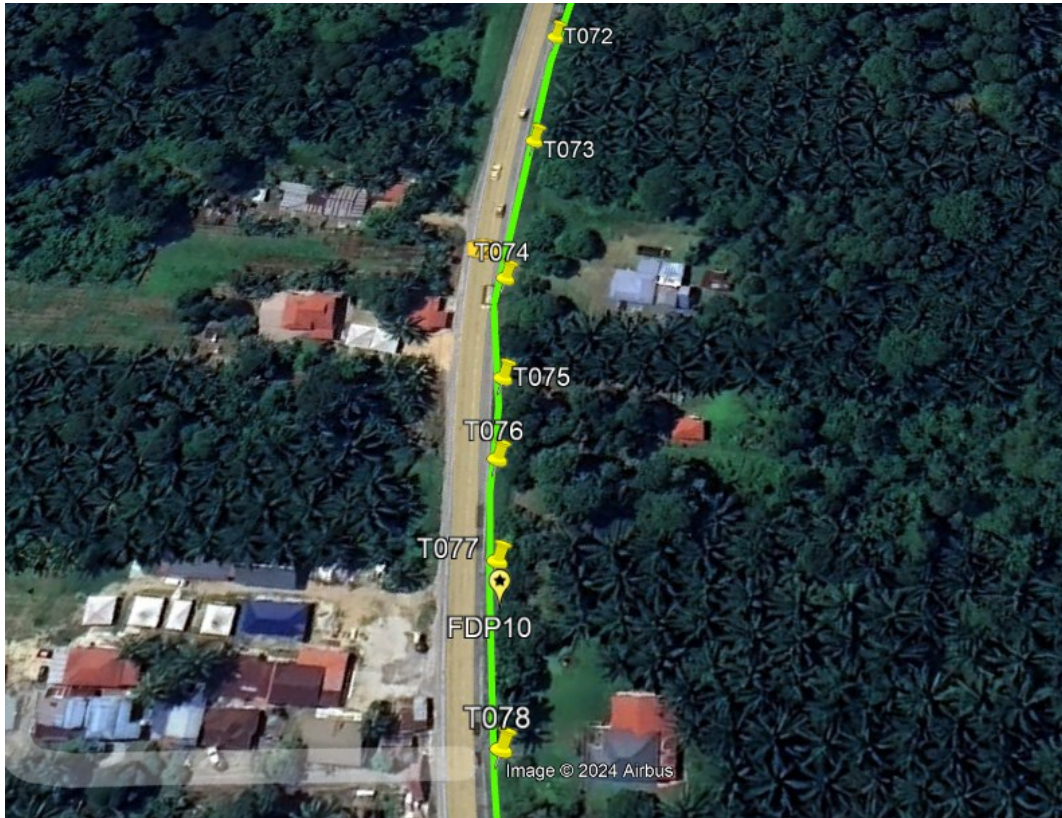


Route 2.4

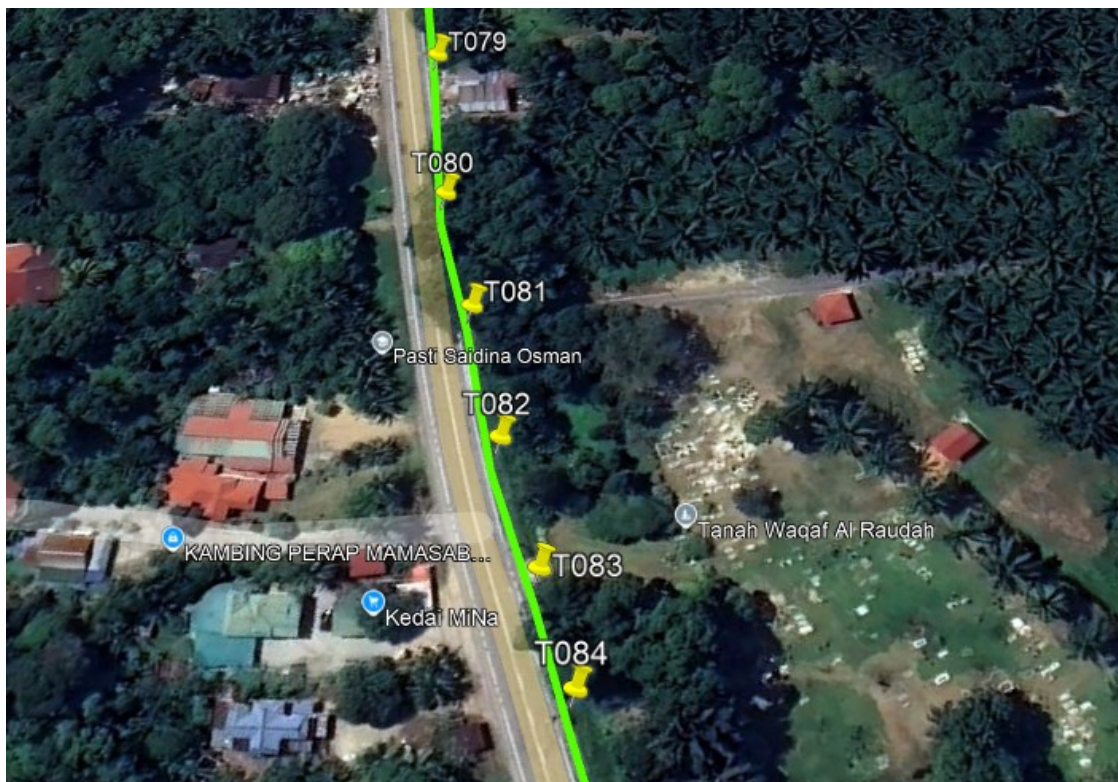
Route 3



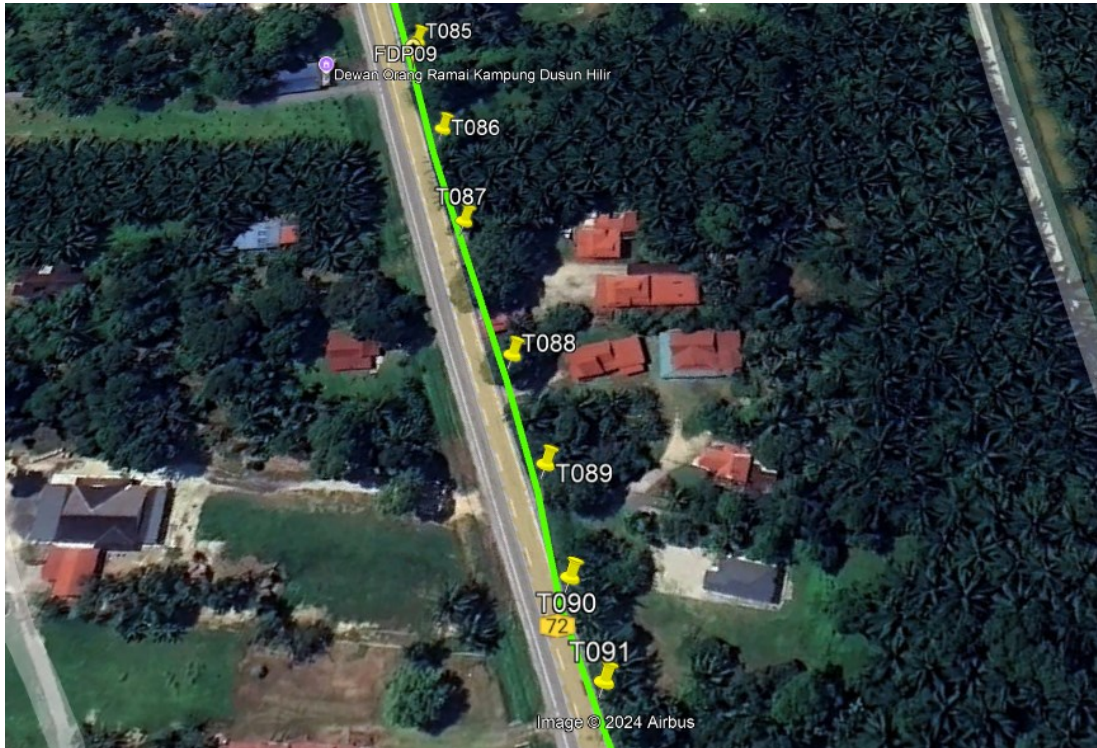
Route 3.1



Route 3.2



Route 3.3



Route 3.4

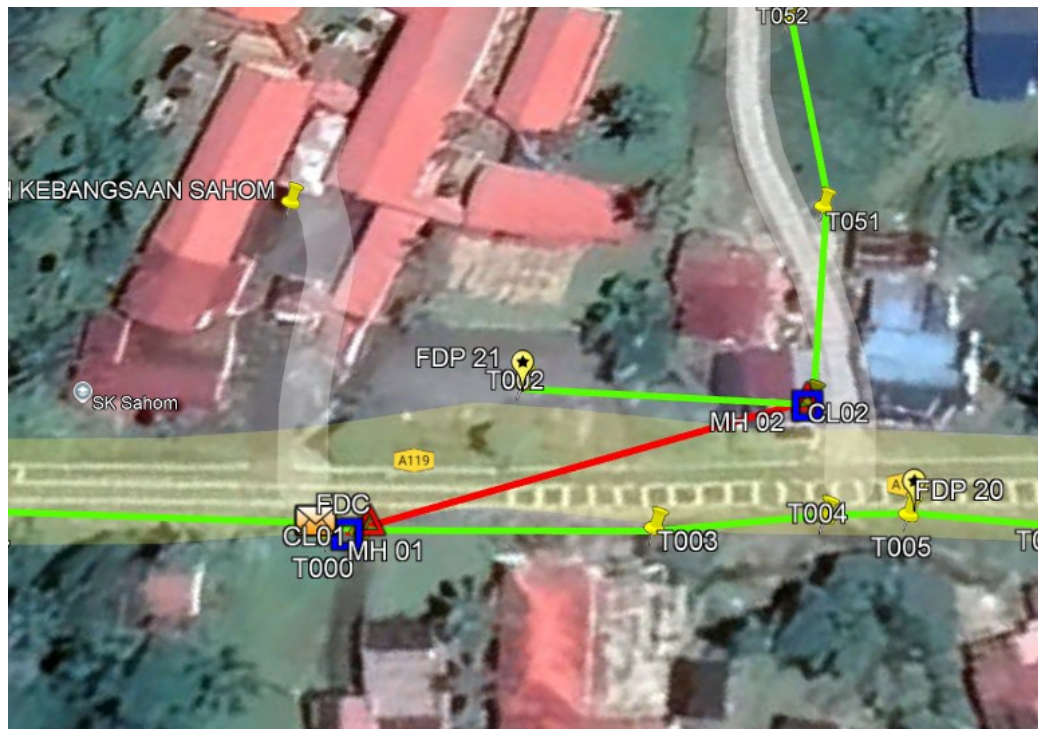
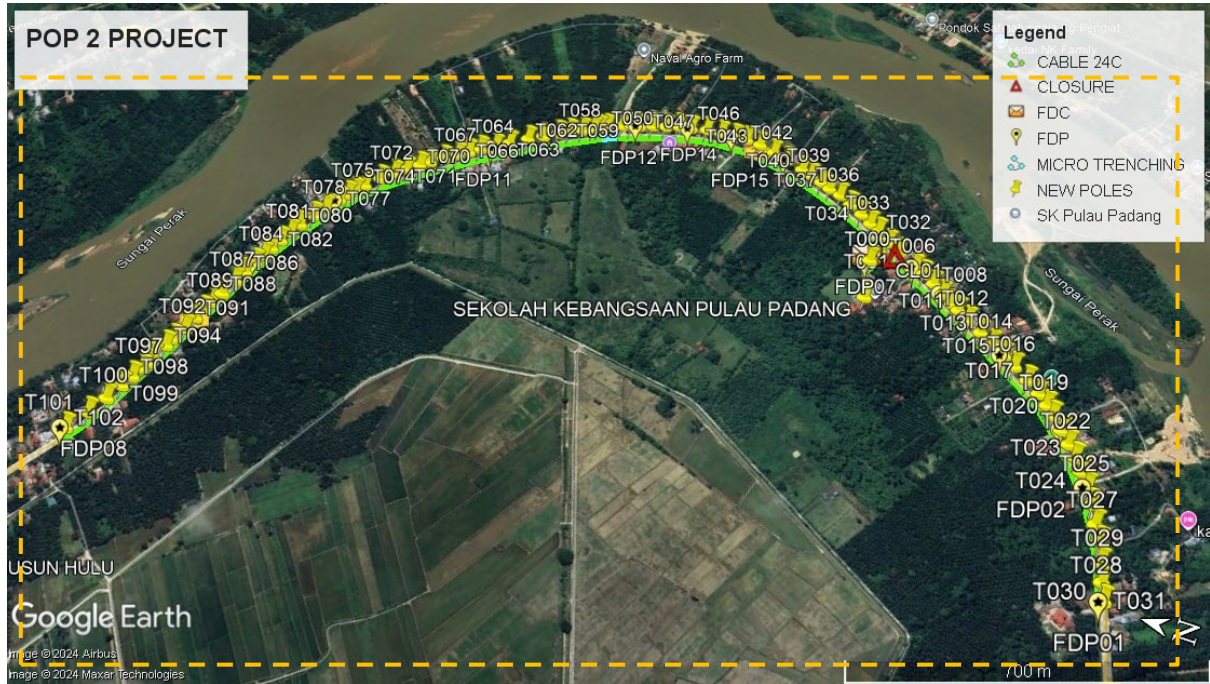


Route 3.5



Route 3.6

Site Plan – KMZ Routing (Proposed New Pole)



Overall Pole (Proposed New)

No.	Pole & Manhole ID	Distance	Latitude	Longitude	Local Authority
1	T000	0.00	4.374936161	100.8931821	Majlis Perbandaran Perak Tengah
2	T001	6.10	4.374941893	100.8931277	Majlis Perbandaran Perak Tengah
3	T002	21.33	4.374864639	100.893303	Majlis Perbandaran Perak Tengah
4	T003	21.30	4.374770506	100.8934696	Majlis Perbandaran Perak Tengah
5	T004	34.55	4.374638785	100.8937506	JKR Perak
6	T005	33.70	4.374378284	100.8935964	JKR Perak
7	T006	53.86	4.373991932	100.8933052	JKR Perak
8	T007	24.98	4.373799101	100.8931904	JKR Perak
9	T008	33.94	4.373554865	100.893008	JKR Perak
10	T009	33.30	4.37333143	100.892809	JKR Perak
11	T010	31.09	4.373116523	100.8926307	JKR Perak
12	T011	20.86	4.372965077	100.8925204	JKR Perak
13	T012	31.60	4.372741508	100.8923455	JKR Perak
14	T013	40.34	4.372452834	100.8921265	JKR Perak
15	T014	35.58	4.37219396	100.8919391	JKR Perak
16	T015	36.76	4.371932233	100.8917377	JKR Perak
17	T016	33.15	4.371703487	100.891547	JKR Perak
18	T017	41.35	4.371416713	100.891311	JKR Perak
19	T018	37.82	4.371169099	100.8910784	JKR Perak
20	T019	30.87	4.370983654	100.8908721	JKR Perak
21	T020	26.05	4.370852477	100.8906784	JKR Perak
22	T021	36.91	4.370655851	100.8904114	JKR Perak
23	T022	33.47	4.370491994	100.8901593	JKR Perak
24	T023	31.64	4.370346621	100.8899151	JKR Perak
25	T024	32.84	4.370217277	100.8896499	JKR Perak
26	T025	35.22	4.370068654	100.8893706	JKR Perak
27	T026	37.97	4.369950284	100.8890506	JKR Perak
28	T027	43.08	4.369862024	100.8886738	JKR Perak
29	T028	37.78	4.369764245	100.8883489	JKR Perak
30	T029	44.15	4.369707567	100.8879563	JKR Perak
31	T030	39.97	4.369650753	100.8876018	JKR Perak
32	T031	39.96	4.369597379	100.8872468	JKR Perak
33	T032	954.56	4.37490109	100.8939848	JKR Perak
34	T033	28.15	4.375109464	100.894128	JKR Perak
35	T034	33.13	4.375340471	100.8943156	JKR Perak
36	T035	37.00	4.375621389	100.8944932	JKR Perak
37	T036	36.54	4.375888861	100.8946835	JKR Perak
38	T037	30.64	4.376144044	100.8947866	JKR Perak
39	T038	27.03	4.376357144	100.8949029	JKR Perak
40	T039	31.84	4.376618456	100.8950192	JKR Perak
41	T040	27.48	4.376841302	100.8951253	JKR Perak



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42	T041	47.63	4.377233862	100.8952955	JKR Perak
43	T042	37.82	4.377555328	100.8954054	JKR Perak
44	T043	41.36	4.377905799	100.8955286	JKR Perak
45	T044	36.94	4.378233383	100.8955816	JKR Perak
46	T045	30.25	4.378505001	100.8955744	JKR Perak
47	T046	36.42	4.378832109	100.8955825	JKR Perak
48	T047	37.52	4.379169044	100.8955734	JKR Perak
49	T048	40.02	4.379524088	100.895517	JKR Perak
50	T049	33.93	4.379825838	100.8954743	JKR Perak
51	T050	32.03	4.380096843	100.8953776	JKR Perak
52	T051	33.14	4.380384474	100.895301	JKR Perak
53	T052	33.16	4.38066724	100.8952074	JKR Perak
54	T053	20.19	4.380841002	100.8951553	JKR Perak
55	T054	24.11	4.381048456	100.8950931	JKR Perak
56	T055	39.20	4.381370447	100.8949506	JKR Perak
57	T056	20.38	4.381531994	100.8948645	JKR Perak
58	T057	14.11	4.381643971	100.8948051	JKR Perak
59	T058	28.58	4.381871699	100.8946865	JKR Perak
60	T059	33.41	4.382141616	100.8945553	JKR Perak
61	T060	28.86	4.38236509	100.8944238	JKR Perak
62	T061	38.94	4.382662213	100.8942391	JKR Perak
63	T062	38.71	4.382960219	100.8940599	JKR Perak
64	T063	48.10	4.383319756	100.8938203	JKR Perak
65	T064	36.97	4.38358802	100.8936245	JKR Perak
66	T065	38.53	4.383886429	100.8934492	JKR Perak
67	T066	30.12	4.384103859	100.8932881	JKR Perak
68	T067	28.86	4.384306449	100.8931263	JKR Perak
69	T068	36.56	4.384572418	100.8929337	JKR Perak
70	T069	34.12	4.384818934	100.8927516	JKR Perak
71	T070	27.21	4.385004824	100.8925929	JKR Perak
72	T071	33.66	4.385236817	100.892399	JKR Perak
73	T072	32.70	4.385459099	100.892207	JKR Perak
74	T073	35.92	4.385677102	100.891969	JKR Perak
75	T074	42.28	4.385935112	100.8916903	JKR Perak
76	T075	27.38	4.386073473	100.8914869	JKR Perak
77	T076	20.51	4.386182603	100.8913385	JKR Perak
78	T077	23.95	4.386299446	100.8911579	JKR Perak
79	T078	39.47	4.38648565	100.8908562	JKR Perak
80	T079	34.15	4.386638123	100.89059	JKR Perak
81	T080	39.81	4.386817459	100.8902806	JKR Perak
82	T081	29.86	4.386919939	100.8900327	JKR Perak
83	T082	31.52	4.387032145	100.8897727	JKR Perak
84	T083	29.05	4.387119146	100.8895267	JKR Perak
85	T084	24.55	4.387192858	100.8893189	JKR Perak
86	T085	27.48	4.387271955	100.889085	JKR Perak
87	T086	33.01	4.387366804	100.888804	JKR Perak
88	T087	31.25	4.387467437	100.888542	JKR Perak

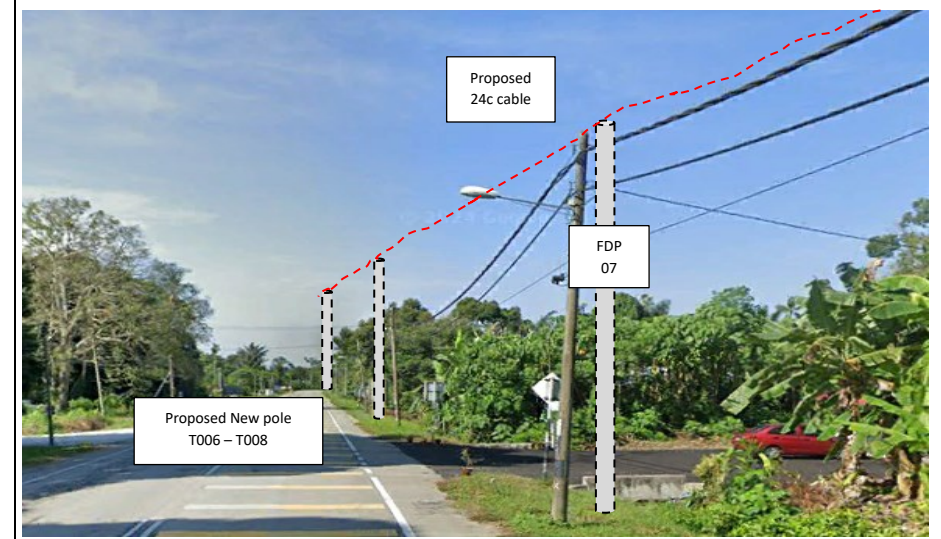
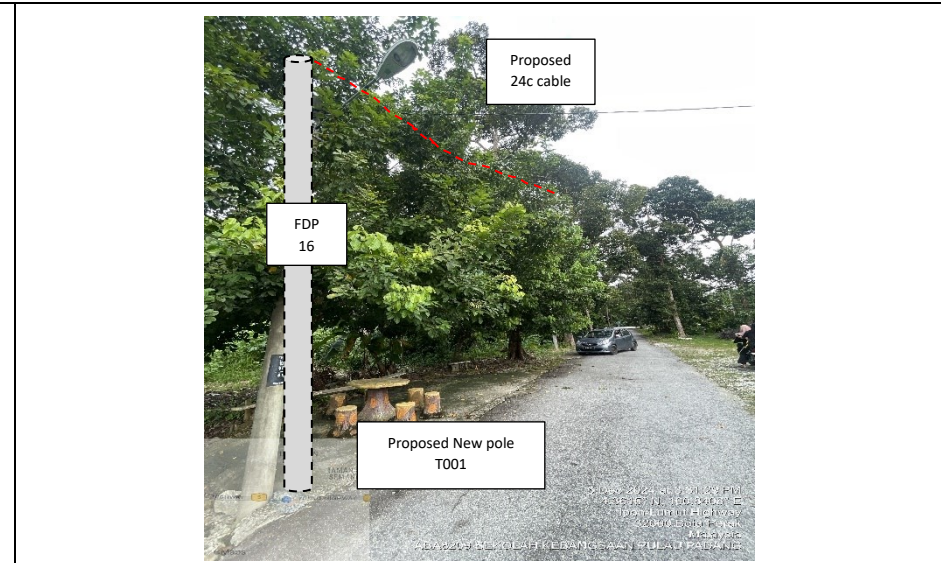
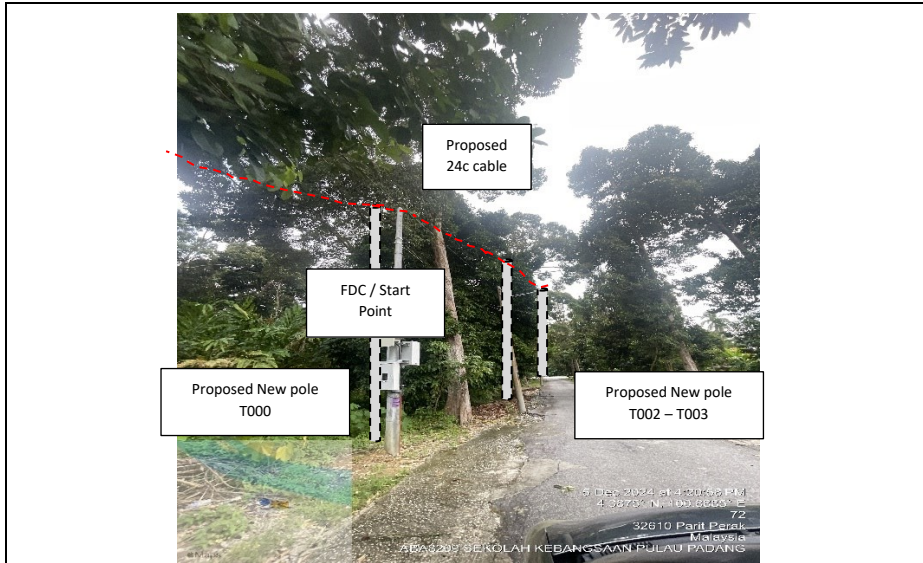


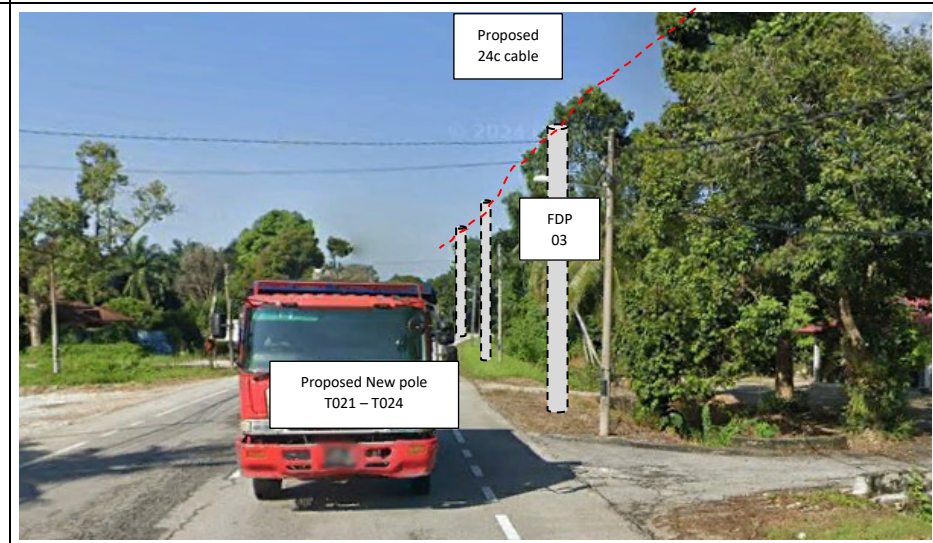
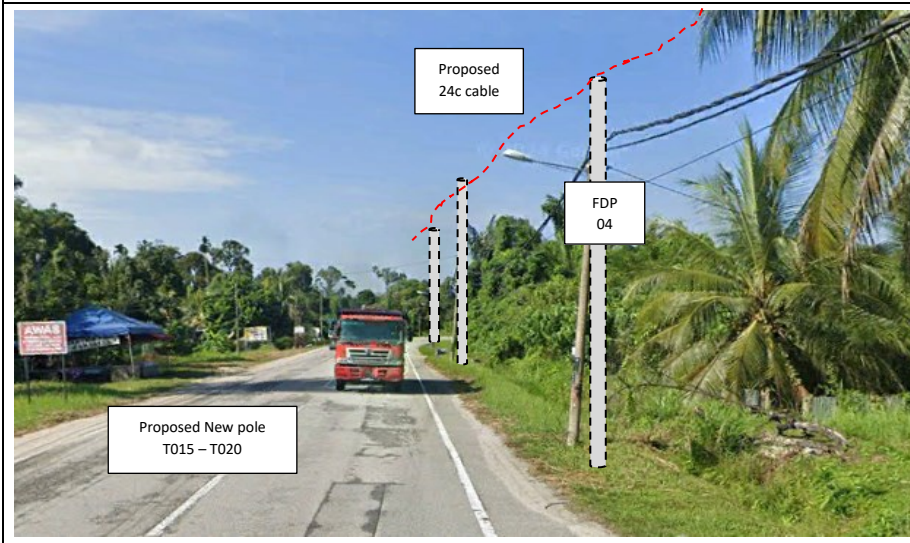
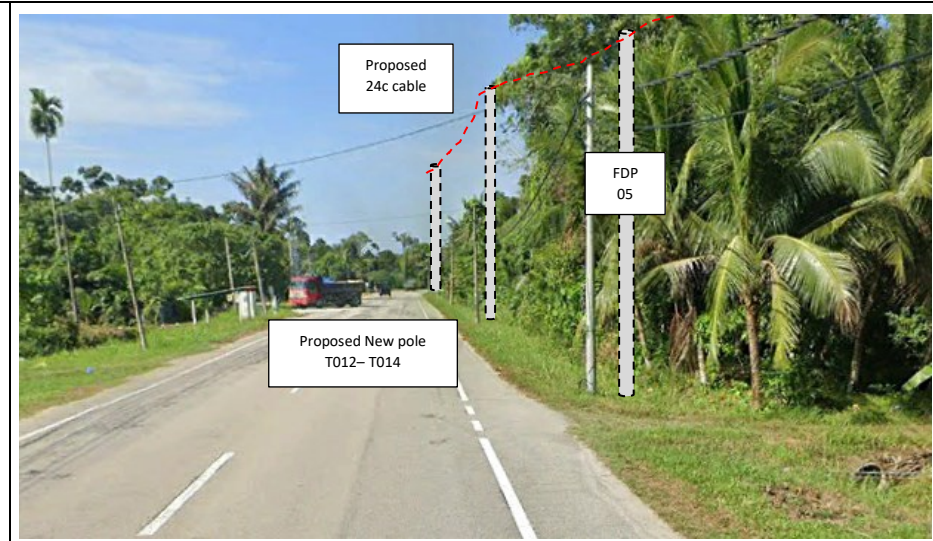
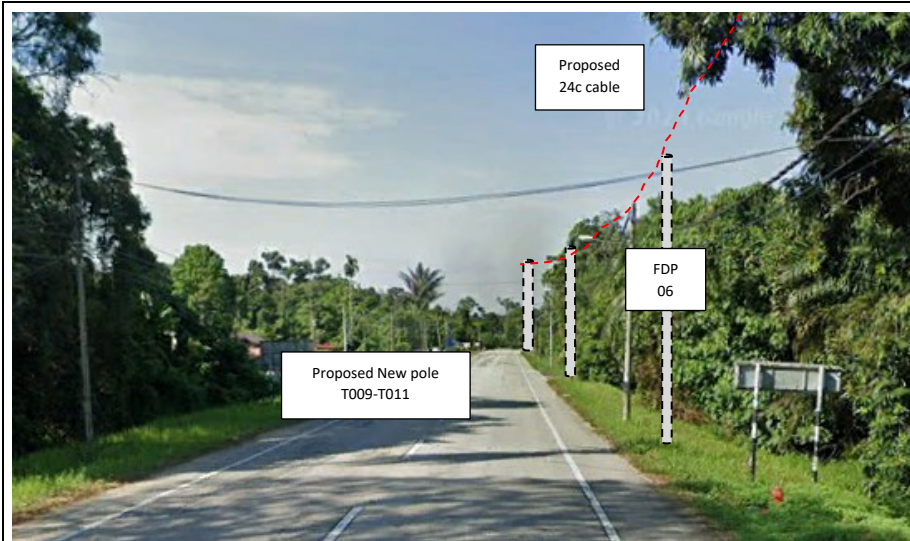
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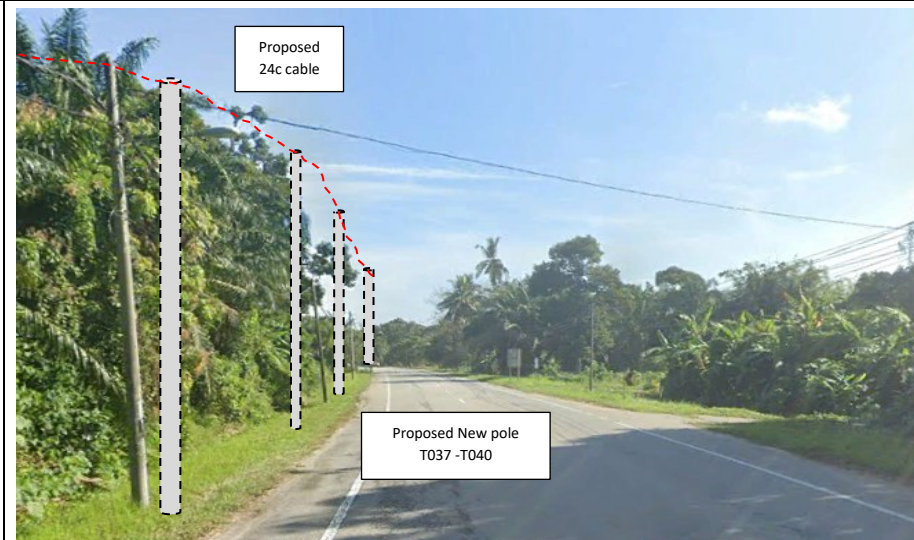
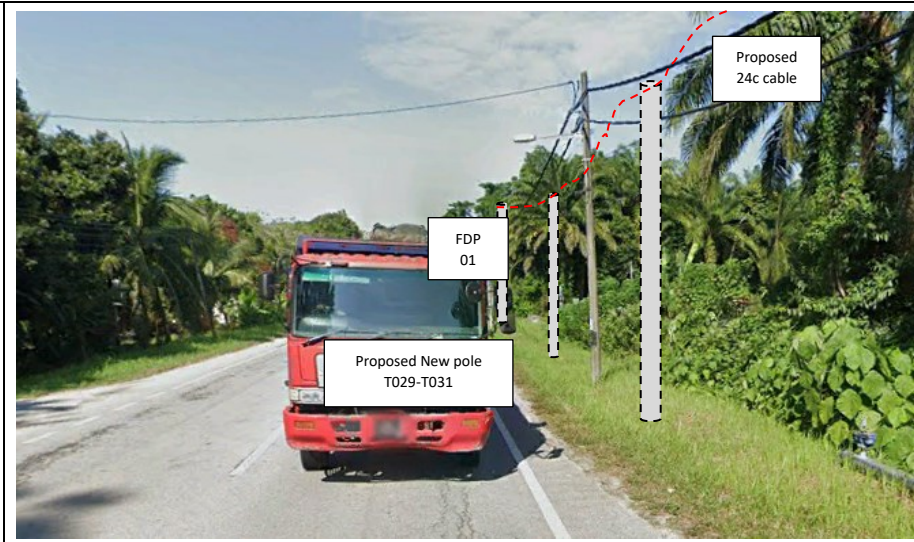
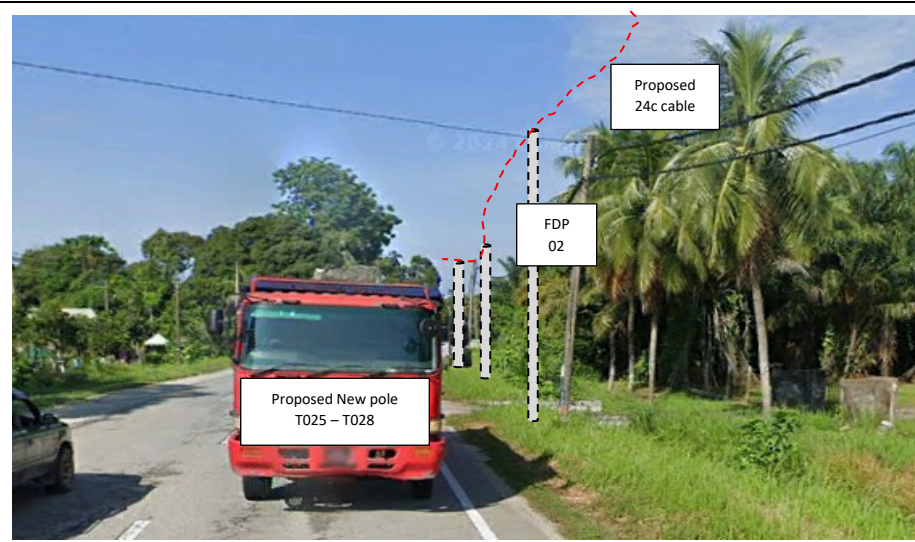


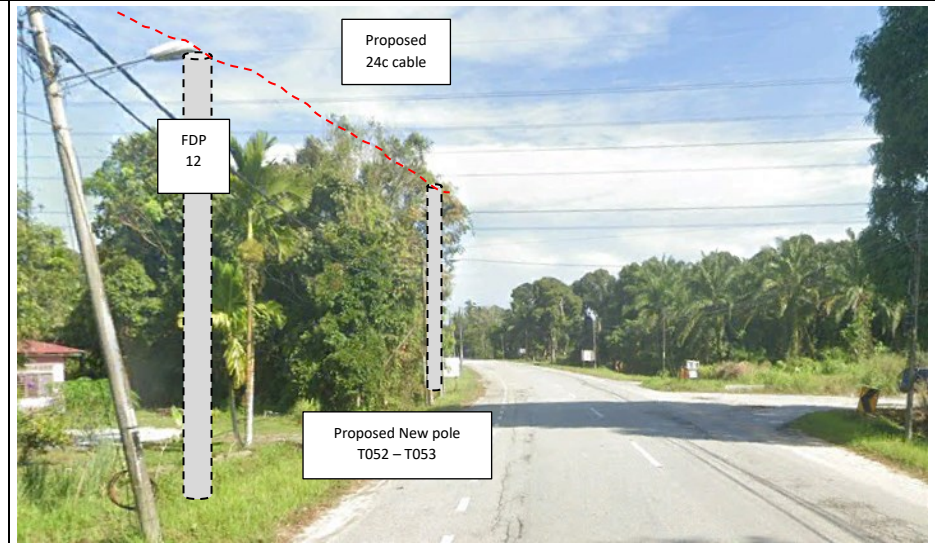
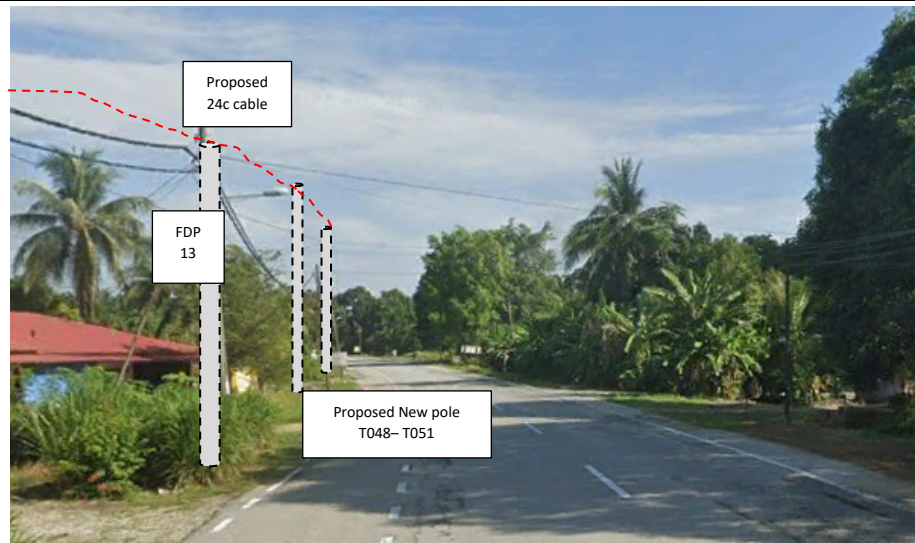
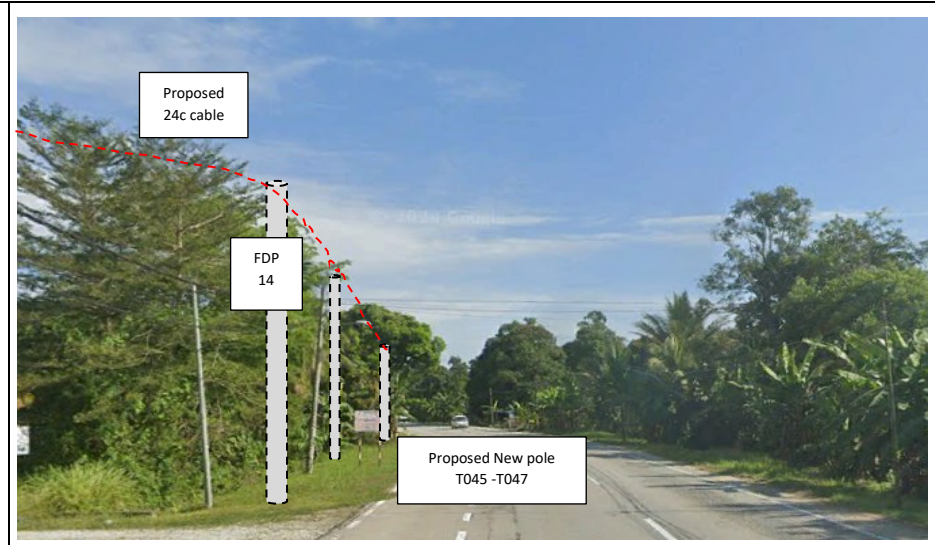
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92	T091	23.97	4.387809023	100.8874876	JKR Perak
93	T092	33.96	4.387880988	100.8871912	JKR Perak
94	T093	34.07	4.387979431	100.8869014	JKR Perak
95	T094	21.87	4.388052156	100.8867189	JKR Perak
96	T095	37.90	4.388158431	100.8863955	JKR Perak
97	T096	18.72	4.388212275	100.8862362	JKR Perak
98	T097	15.40	4.388235476	100.8860998	JKR Perak
99	T098	26.73	4.388331912	100.8858799	JKR Perak
100	T099	28.73	4.38842399	100.8856388	JKR Perak
101	T100	40.68	4.388554665	100.8852975	JKR Perak
102	T101	46.46	4.388727715	100.8849177	JKR Perak
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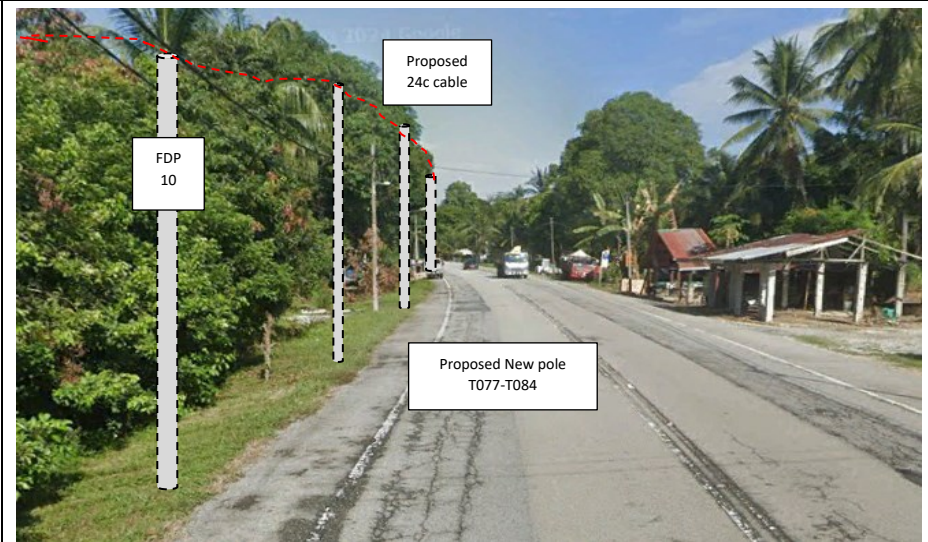
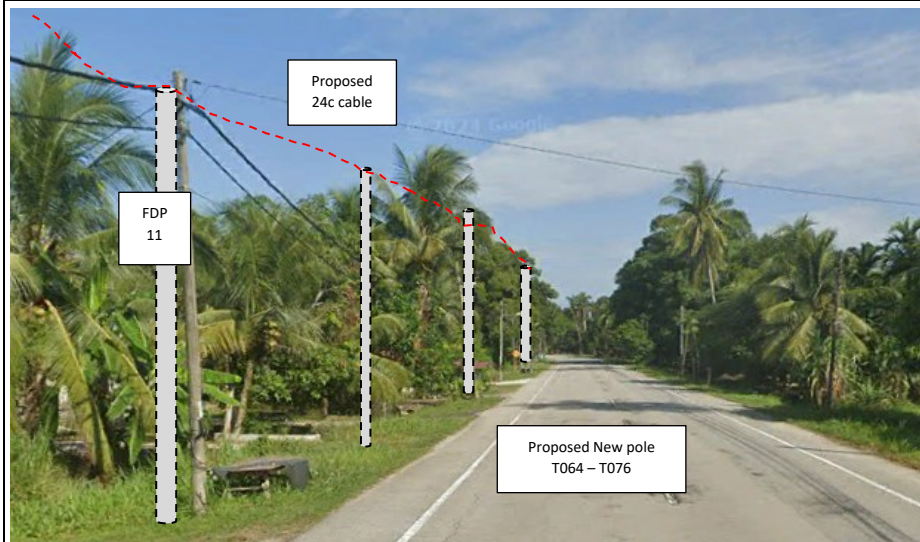
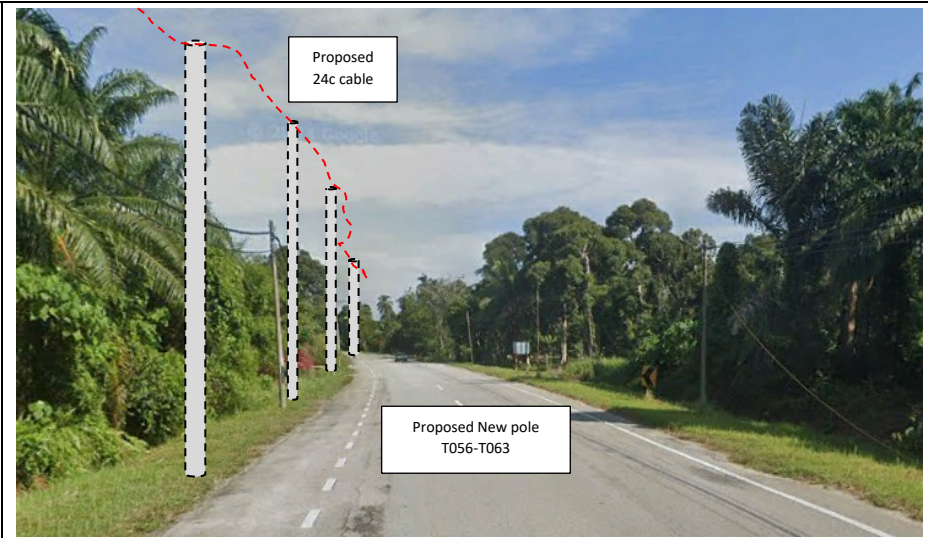
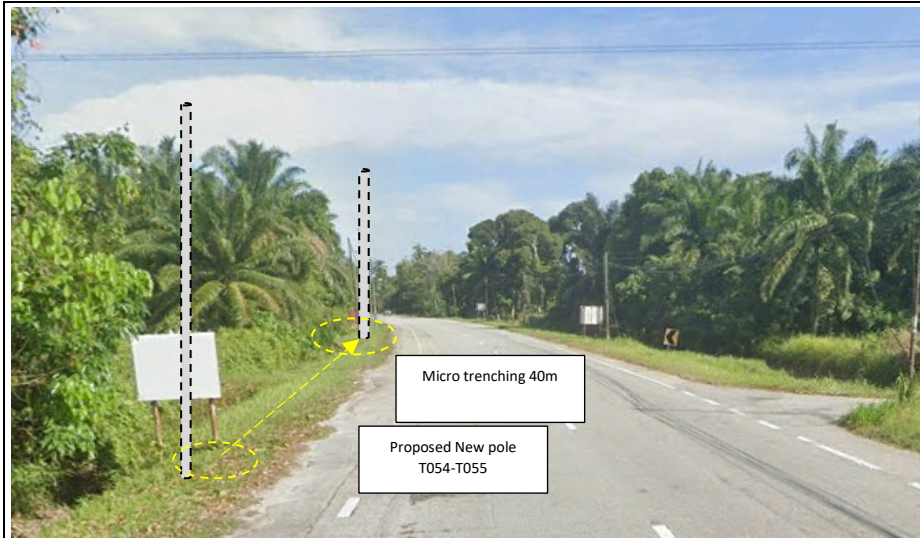
Site Photos – Proposed to install pole

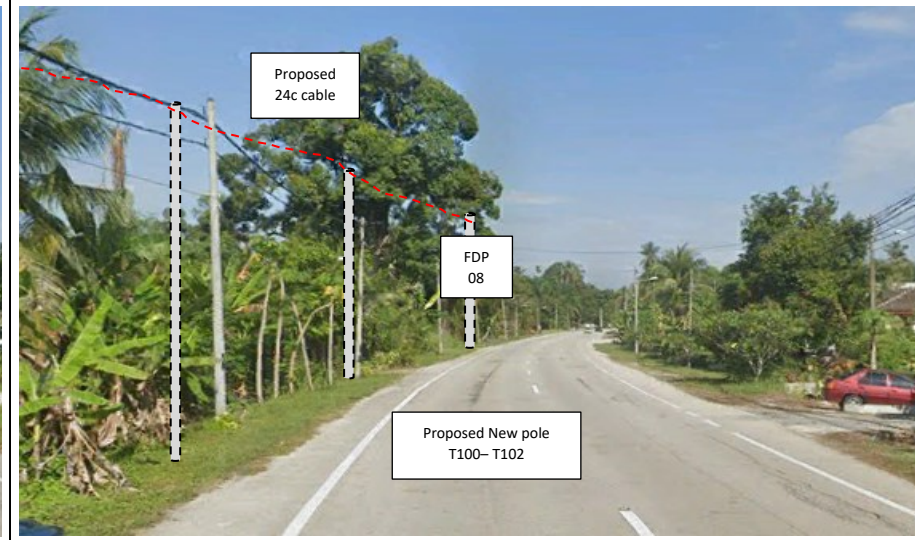
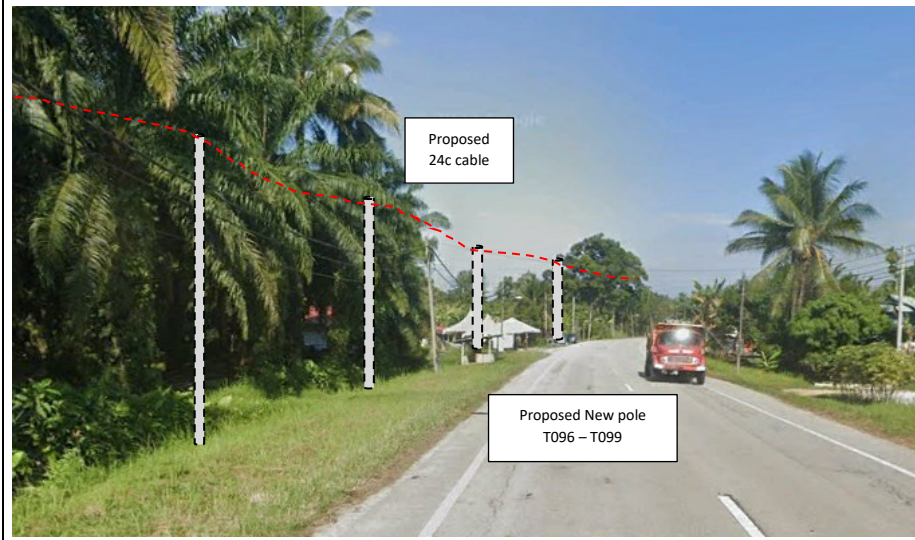
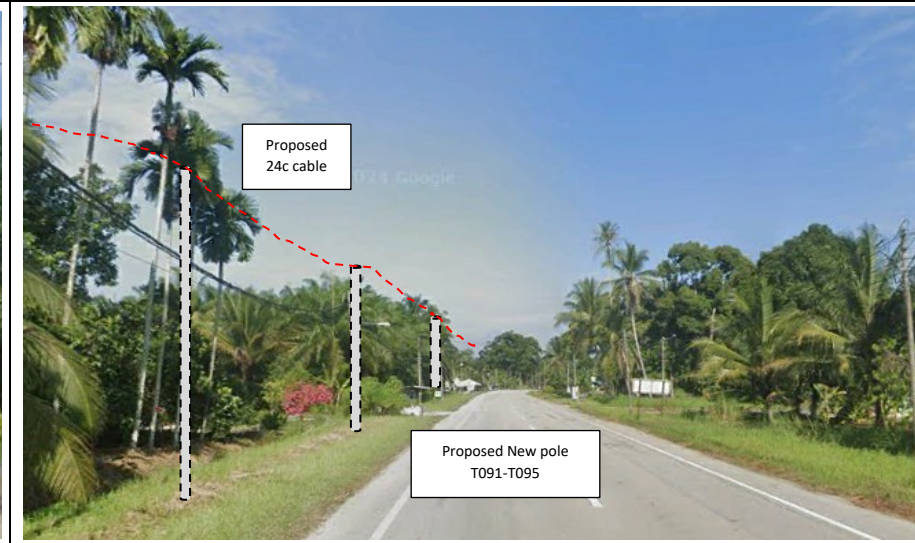
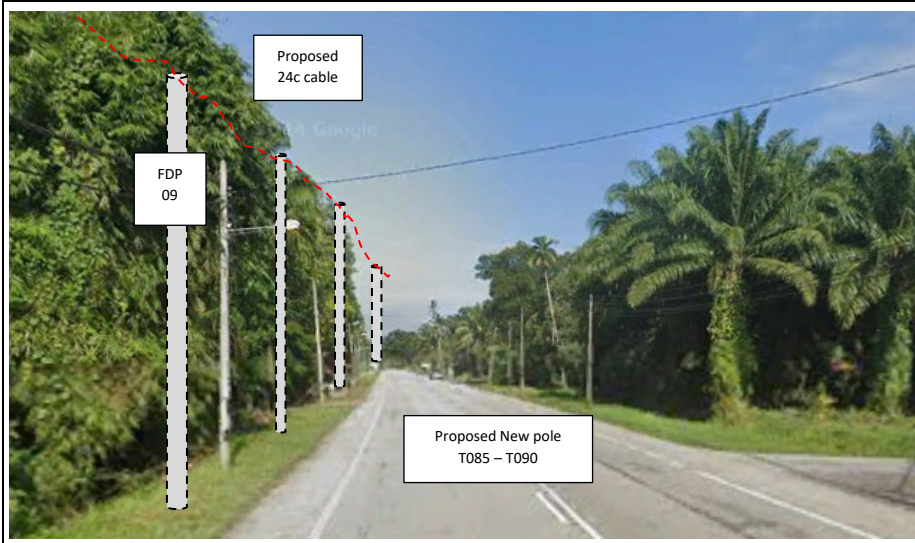












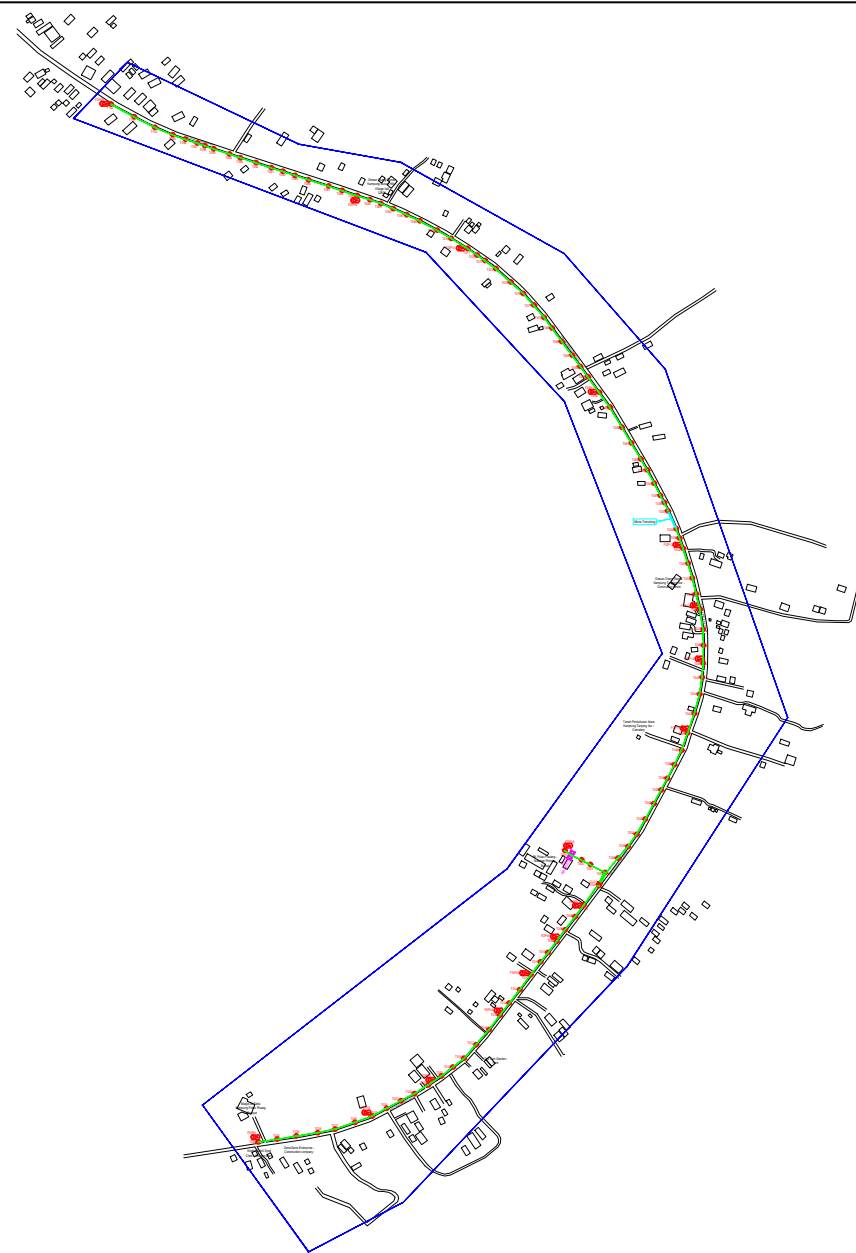


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3rd Parties Dependencies

No.	Local Council/ Authority	Remark
1	JKR Perak	
2	Majlis Perbandaran 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		Installed Pole (9m)		Suspension		New Manhole (PIT)		Micro-Trenching (Meter)	39	MH1	MH NO.
24C FOC	346	Installed Patch Cord		Installed Pole (7.5M)	102	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	1	Existing TNB Pole		FDP with (1:8) splitter	16	HDD (Meter)		Active Outdoor Cabinet		CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.		DP1	FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, MIDCITY HUB SDG,
50250 JALAN P. RAMLEE
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PAU 3/2, TAMAN PUNCAK JAYA,
PANDAN PUTRA, PERAK
43000 SERI KEMBANGAN, SELANGOR
TEL: +603 9558 9953
E-MAIL: info@wcwlcommunications.com.my

PROJECT TITLE :

CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABAB209
SEKOLAH KEBANGSAAN PULAU PADANG

PROJECT PHASE:
POP 2

Design By : ENGINEER
Date : DEC 2024

Drawn By : CAD ENGINEER
Scale : NOT TO SCALE

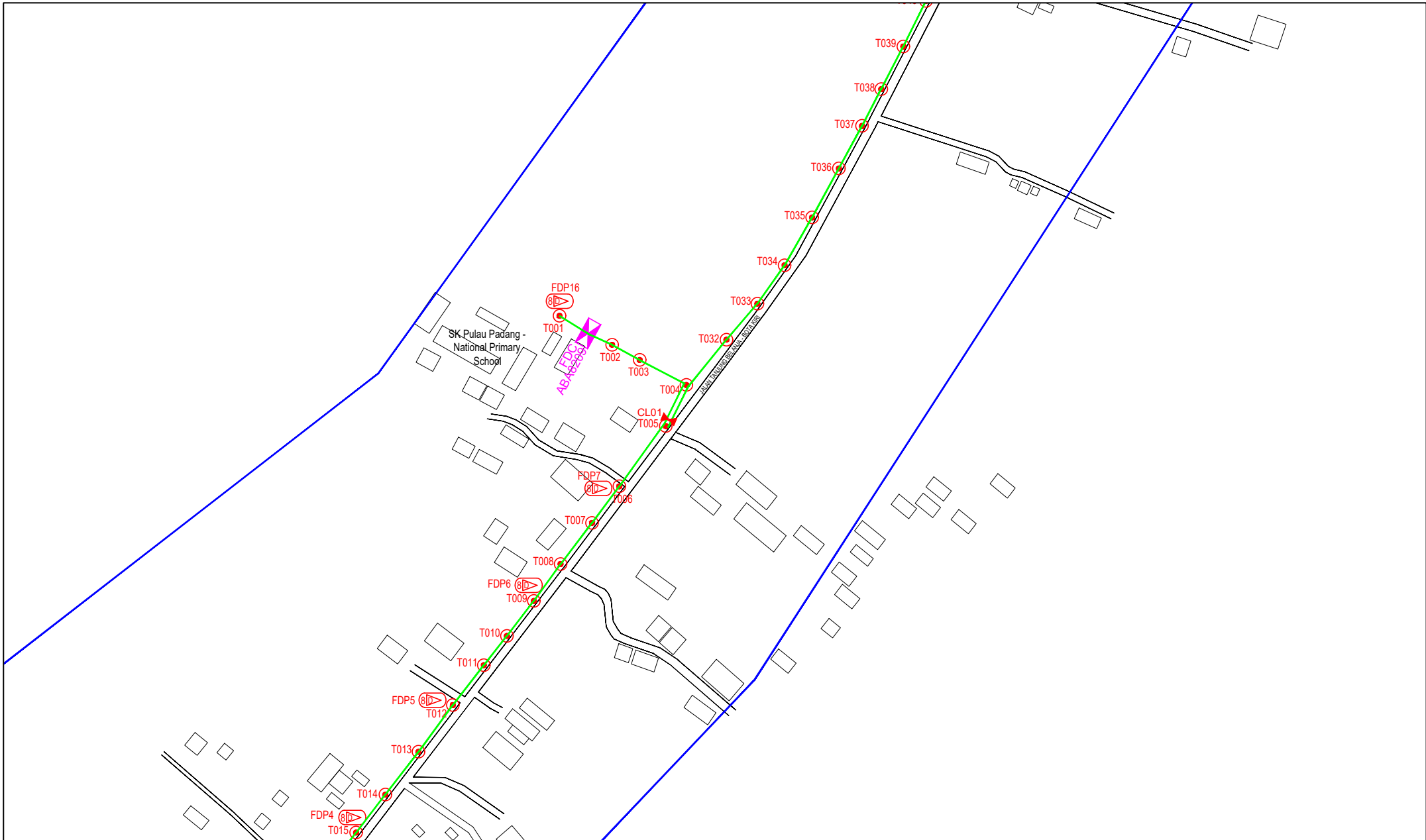
Checked By : ENGINEER
Job Number : 1

DRAWING NUMBER :
ABAB209-ABD-01

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Sheet :
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LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.		
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		BE30 New Manhole (PIT)		Micro-Trenching (Meter)		MH1 MH NO.
24C FOC	346	Installed Patch Cord		Installed Pole (7.5M)	102	Tension		BE7 New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1 Existing TNB Pole NO.
48C FOC		FDC	1	Installed Pole (6.7M)		Pole Ring				Loop / Coil (Meter)		P001 New Pole NO.
96C FOC		Closure	1	Existing TNB Pole		FDP Boundary				# Active Outdoor Cabinet		CL01 Closure NO.
144C FOC		Existing Closure		Installed Riser		FDP with (1:8) splitter	16			CO1 FDC NO.		DP1 FDP NO.
				Existing Manhole		Open Cut (Meter)						

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA HAP SENG,
30020 JALAN 9, PAKLE,
KUALA LUMPUR.

MAIN CONTRACTOR :

WCWL COMMUNICATIONS SDN BHD
WCWL COMMUNICATIONS SDN BHD
127, JALAN PAU 3/2, TAMAN PUNCAK JAL,
MUKAH, PUTRA PERANG,
43300 SERI KEMBANGAN, SELANGOR
TEL : +603 9083 9083
E-MAIL : info@wcwlcommunications.com.my

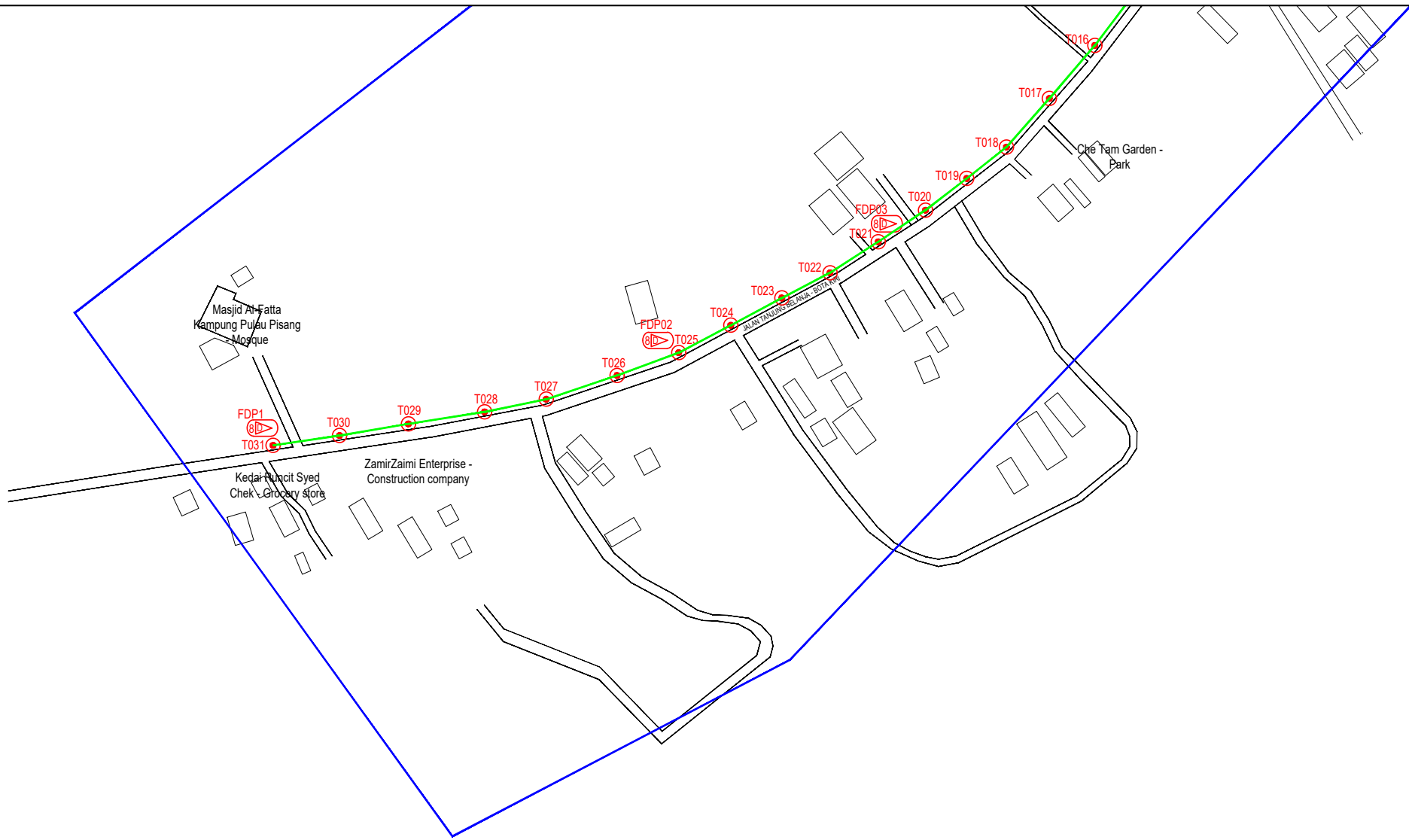
PROJECT TITLE :

CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABAB209
SEKOLAH KEBANGSAAN PULAU PADANG

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABAB209-ABD-01A	Sheet : 2/6
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LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		ES30 New Manhole (PIT)		Micro-Trenching (Meter)	39	MH1 MH NO.
24C FOC	346	Installed Patch Cord		Installed Pole (7.5M)	102	Tension		ES7 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	1	Existing TNB Pole		FDP with (1:8) splitter	16	HDD (Meter)		# Active Outdoor Cabinet		CL01 Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		001 FDC NO.		DP1 FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :
POP2 PROJECT IN PERAK

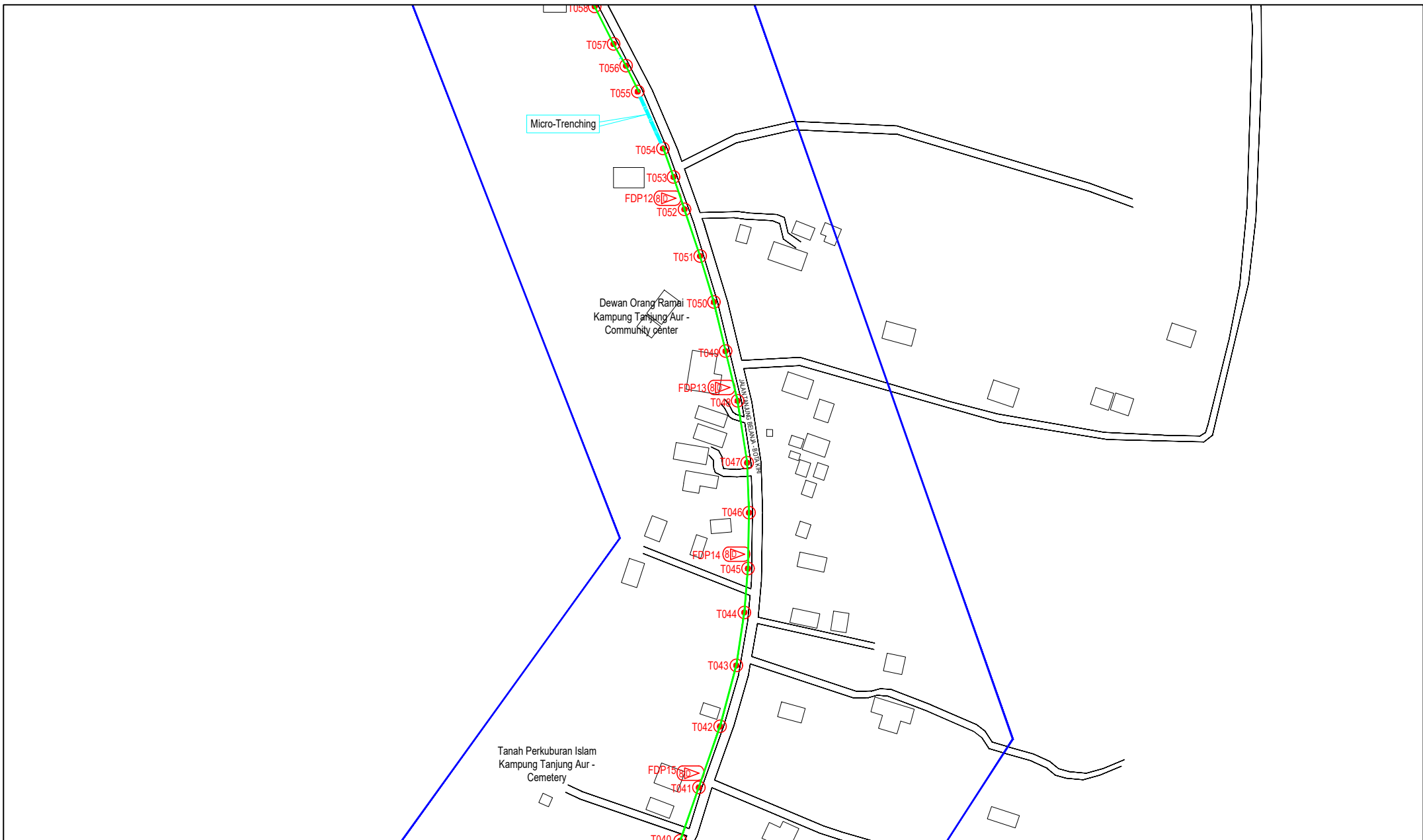
OWNER/DEVELOPER :



MAIN CONTRACTOR :
CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING ABAB209
SEKOLAH KEBANGSAAN PULAU PADANG
PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABAB209-ABD-01B	Sheet : 3/6
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LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.		
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		BE30 New Manhole (PIT)		Micro-Trenching (Meter)		MH1 MH NO.
24C FOC	346	Installed Patch Cord		Installed Pole (7.5M)	102	Tension		BE7 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	1	Existing TNB Pole		FDP with (1:8) splitter	16	HDD (Meter)		Active Outdoor Cabinet		CL01 Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.		DP1 FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA IAMP SDG,
50250 JALAN P. WAZLE,
KUALA LUMPUR

MAIN CONTRACTOR :

WCWL COMMUNICATIONS SDN BHD
127, JALAN PAU 3/2, TAMAN PUNCAK JAL,
PANDAN PUTRA PERMA,
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 9083 9083
E-MAIL: info@wcwlcommunications.com.my

PROJECT TITLE :

CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABAB209
SEKOLAH KEBANGSAAN PULAU PADANG

PROJECT PHASE:
POP 2

Design By : ENGINEER
Date : DEC 2024

Drawn By : CAD ENGINEER
Scale : NOT TO SCALE

Checked By : ENGINEER
Job Number : 1

DRAWING NUMBER :
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LEGEND	NOS.	NOS.	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)		MHI	MH NO.
24C FOC	346	Installed Patch Cord		Installed Pole (7.5M)	102	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	1	Existing TNB Pole		FDP with (1:8) splitter	16	HDD (Meter)		Active Outdoor Cabinet		CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.		DP1	FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPOR :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, BERKALA IMP SD@6,
50225 JALAN P. RAJEE,
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PAU 3/3, TAMAN PUNCAK JAYA,
PANDAN PUTRA PERMA,
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 9383 9383
E-MAIL: info@wcwlcommunications.com.my

PROJECT TITLE :

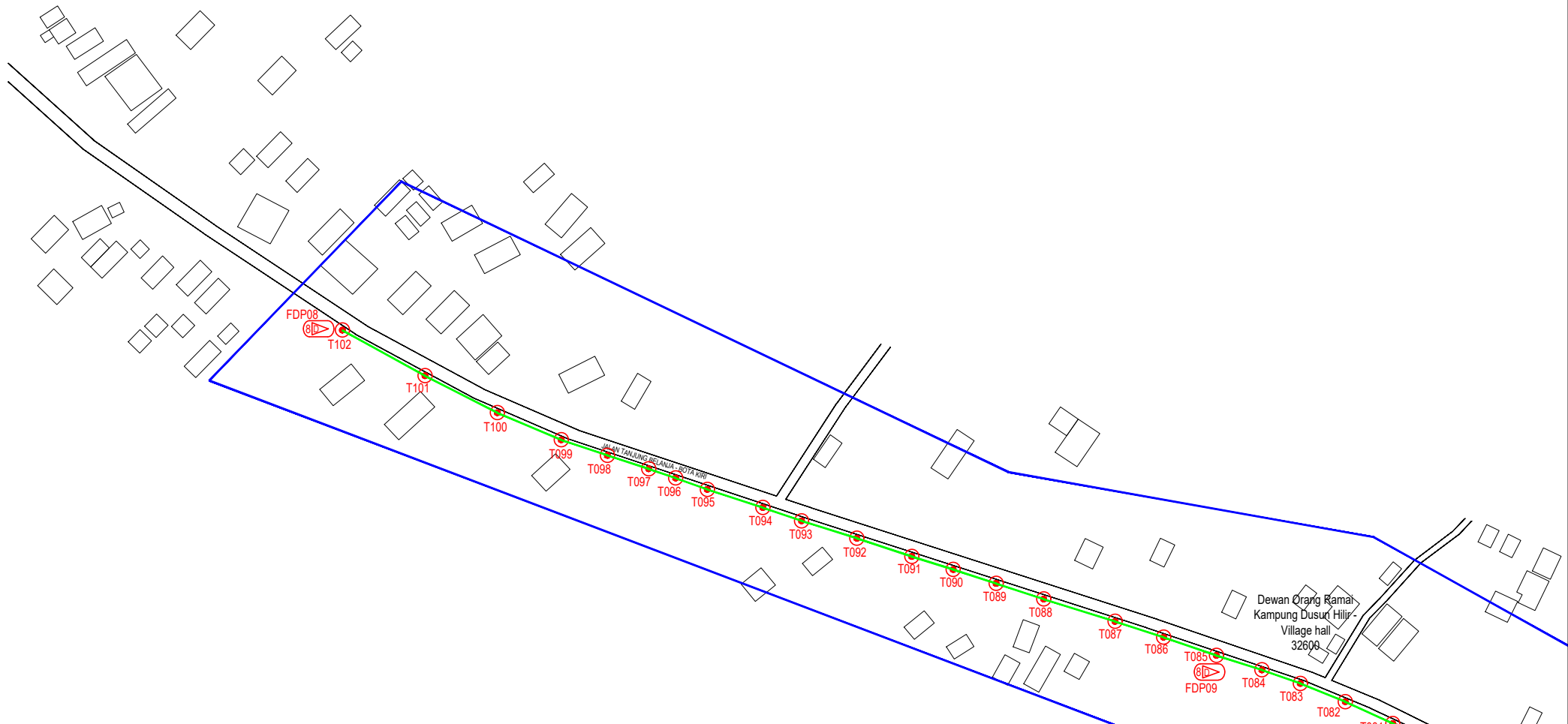
CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABA8209
SEKOLAH KEBANGSAAN PULAU PADANG

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
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LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.					
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		BE30	New Manhole (PIT)		Micro-Trenching (Meter)		39	MHI	MH NO.
24C FOC	346C	Installed Patch Cord		Installed Pole (7.5M)	102	Tension		CE7	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	1	Existing TNB Pole		FDP with (1:8) splitter	16		HDD (Meter)		#	Active Outdoor Cabinet	CL01	Closure NO.	
144C FOC		Existing Closure		Installed Riser		Existing Manhole			Open Cut (Meter)		001	FDC NO.	DP1	FDP NO.	

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA IAMP SENANG,
50220 JALAN P. RAJALEA,
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PAU 3/3, TAMAN PUNCAK JALIL,
PUSAT PERUSAHAAN, 43300 SERI KEMBANGAN, SELANGOR
TEL : +603 9383 9383
E-MAIL : info@wcwlcommunications.com.my

PROJECT TITLE :

CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABA8209
SEKOLAH KEBANGSAAN PULAU PADANG

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : DEC 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
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