

TECHNICAL PROPOSAL POP2 ABA8223 SEKOLAH KEBANGSAAN BOTA KANAN (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	:	17/12/2024



POINT A

POINT B

Starting Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN BOTA KANAN
Address	:	kampung alur belibis, Bota Kanan
District	:	Bota
Postcode	:	32600
State	:	Perak
GPS Coordinate	:	4.347579, 100.883173
LRD	:	A

End Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN BOTA KANAN
Address	:	Jalan Sungai Perak Kanan
District	:	Bota
Postcode	:	32600
State	:	Perak
GPS Coordinate	:	4.345007, 100.885953
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	0
	Total		0

	Other Information	Unit	Qty
1	Proposed Manhole	EA	0
2	Proposed Pole	EA	55
3	Joint Closure	EA	3
4	Estimated time required for completion	days	30



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))



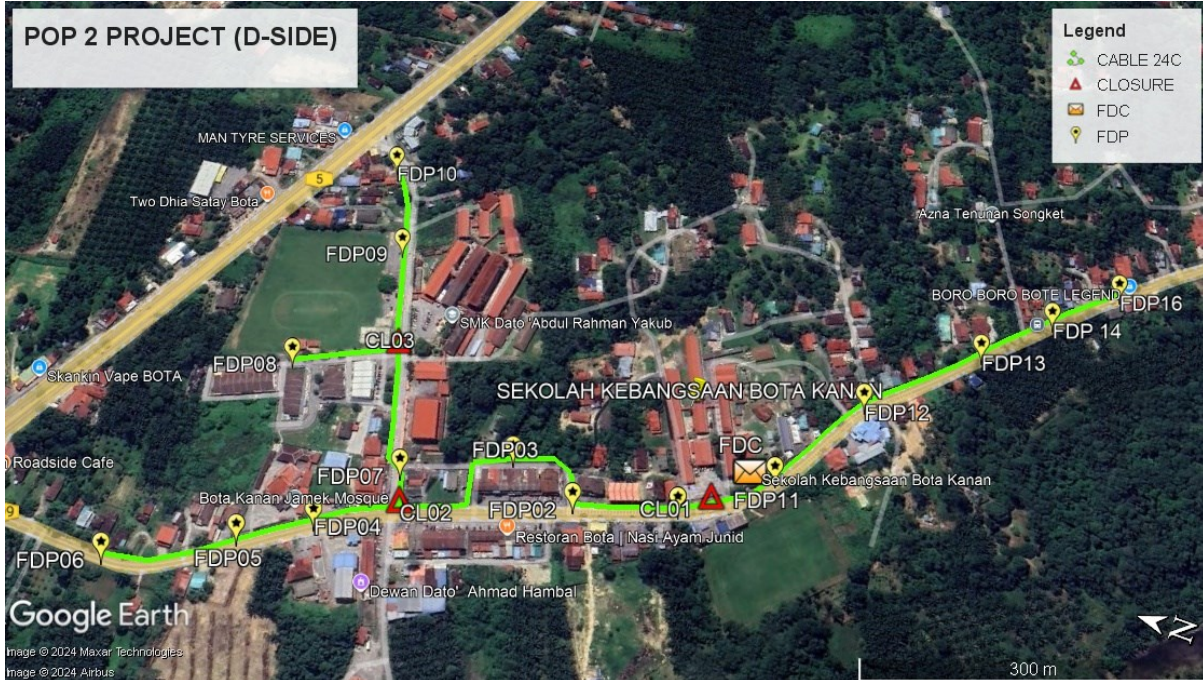
Local Authority Summary

1. Daerah Perak Tengah

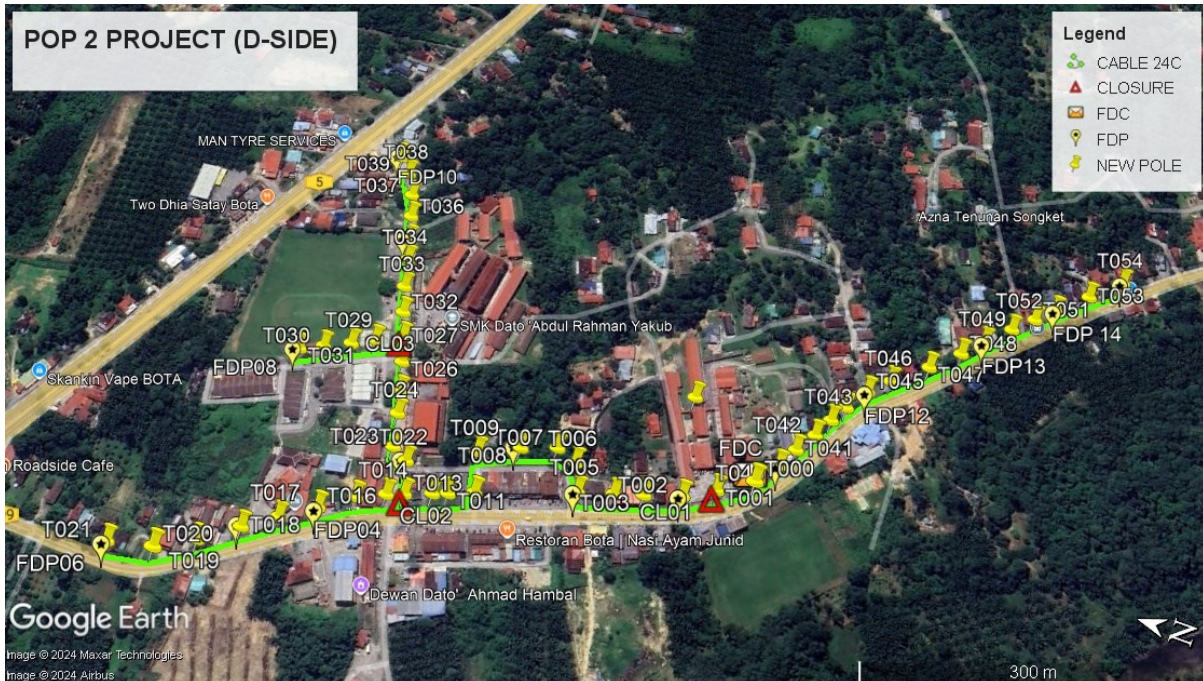
Bil	Items	Owner	Quantity	Distance(m)
1	HDD	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	33pcs	900m
		Majlis	22pcs	635m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				1535m

Site Plan – KMZ (Overview site area)

Proposed FDP and Closure



Proposed New Pole



Site Plan – KMZ Routing (All Local Authority)

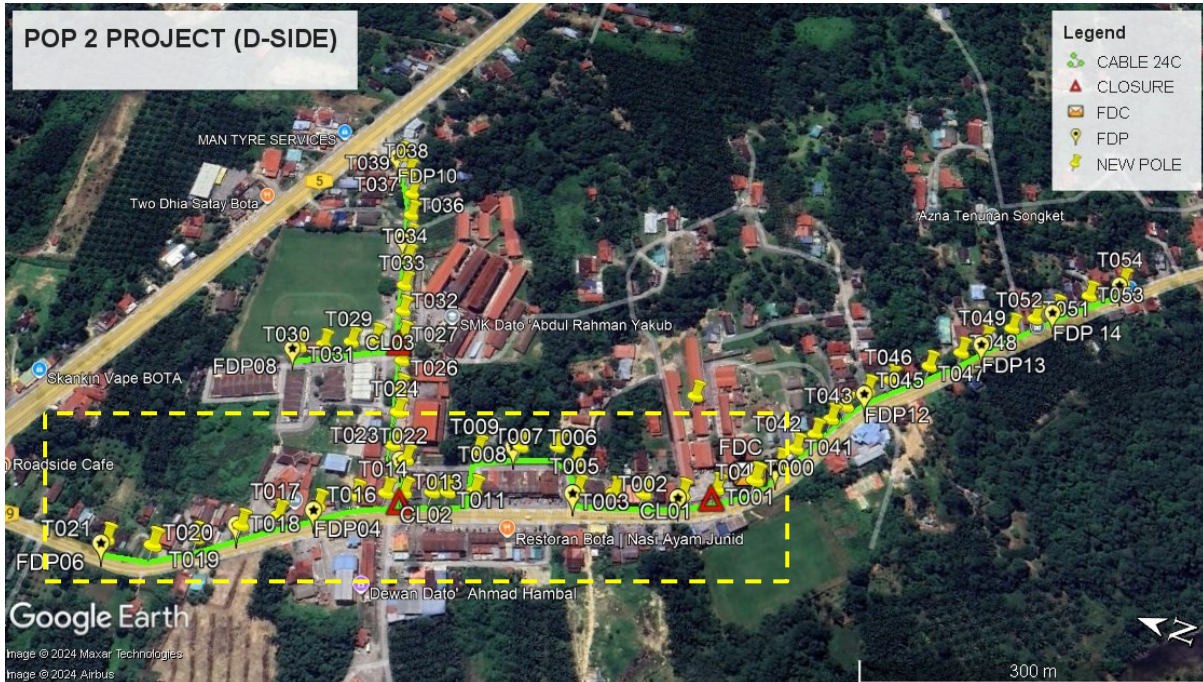


Red – JKR Perak

Blue - Majlis Perbandaran Perak Tengah

Site Plan – KMZ Routing (All site area)

Route 1



Route 1.1

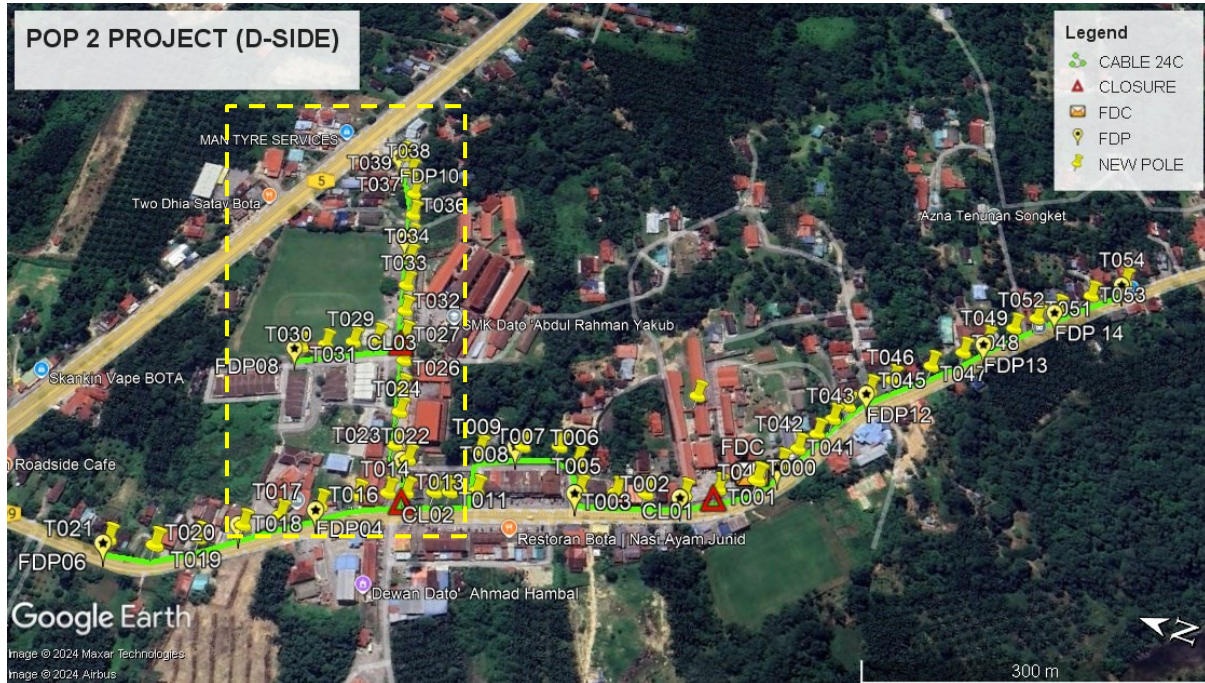


Route 1.2



Route 1.3

Route 2

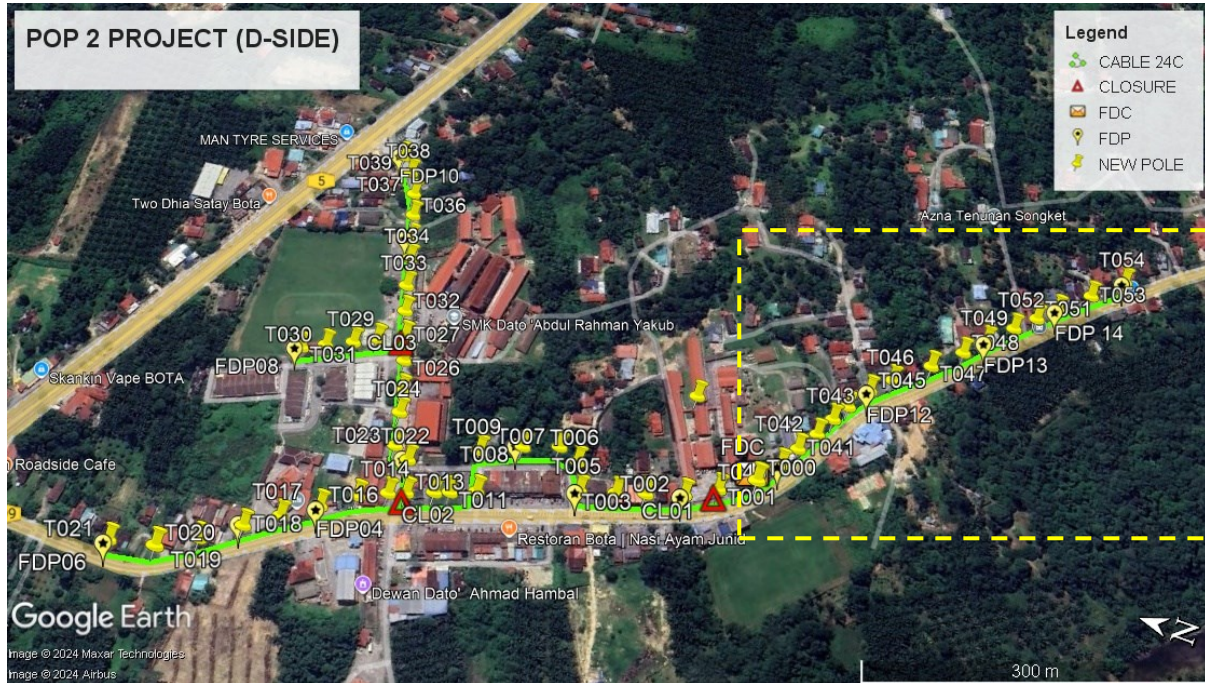


Route 2.1



Route 2.2

Route 3



Route 3.1



Route 3.2



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))



Overall Pole (Proposed New)

No.	Pole & Manhole ID	Distance	Latitude	Longitude	Local Authority
1	T000	0.00	4.347570088	100.8831585	JKR Perak
2	T001	36.08	4.34784829	100.8829923	JKR Perak
3	T002	32.04	4.348101128	100.8828548	JKR Perak
4	T003	35.07	4.348399861	100.8827547	JKR Perak
5	T004	27.41	4.348634645	100.8826805	JKR Perak
6	T005	33.53	4.348925431	100.8826019	JKR Perak
7	T006	27.25	4.349024	100.882826	Majlis Perbandaran Perak Tengah
8	T007	21.49	4.349205	100.882893	Majlis Perbandaran Perak Tengah
9	T008	34.22	4.349495	100.882791	Majlis Perbandaran Perak Tengah
10	T009	40.40	4.349825	100.88264	Majlis Perbandaran Perak Tengah
11	T010	20.83	4.34974343	100.8822938	JKR Perak
12	T011	21.10	4.34992227	100.882231	JKR Perak
13	T012	14.29	4.350042992	100.8821874	JKR Perak
14	T013	25.73	4.350259733	100.8821071	JKR Perak
15	T014	16.39	4.350397125	100.8820541	JKR Perak
16	T015	28.03	4.350627248	100.8819518	JKR Perak
17	T016	34.75	4.350883221	100.8817731	JKR Perak
18	T017	36.33	4.351152759	100.8815892	JKR Perak
19	T018	33.80	4.351403	100.8814172	JKR Perak
20	T019	40.17	4.351693818	100.8812036	JKR Perak
21	T020	39.66	4.352000601	100.8810225	JKR Perak
22	T021	42.85	4.352378995	100.8809517	JKR Perak
23	T022	275.04	4.350354914	100.8823687	Majlis Perbandaran Perak Tengah
24	T023	18.54	4.350503669	100.8824436	Majlis Perbandaran Perak Tengah
25	T024	32.42	4.350583867	100.8827236	Majlis Perbandaran Perak Tengah
26	T025	22.36	4.35064894	100.8829137	Majlis Perbandaran Perak Tengah
27	T026	29.19	4.350731375	100.8831626	Majlis Perbandaran Perak Tengah
28	T027	25.15	4.350814682	100.8833726	Majlis Perbandaran Perak Tengah
29	T028	26.65	4.351029703	100.8832673	Majlis Perbandaran Perak Tengah
30	T029	23.02	4.351213716	100.8831729	Majlis Perbandaran Perak Tengah
31	T030	26.52	4.351429044	100.883071	Majlis Perbandaran Perak Tengah

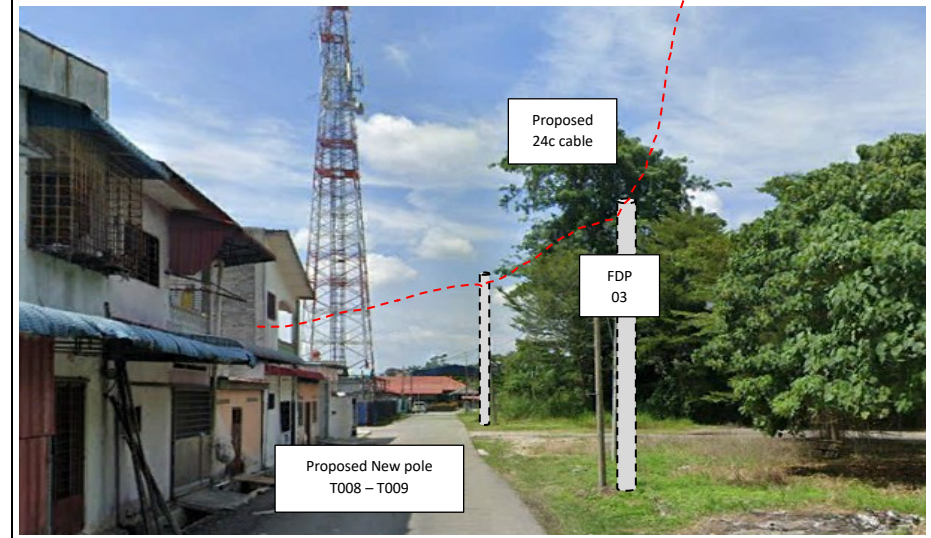
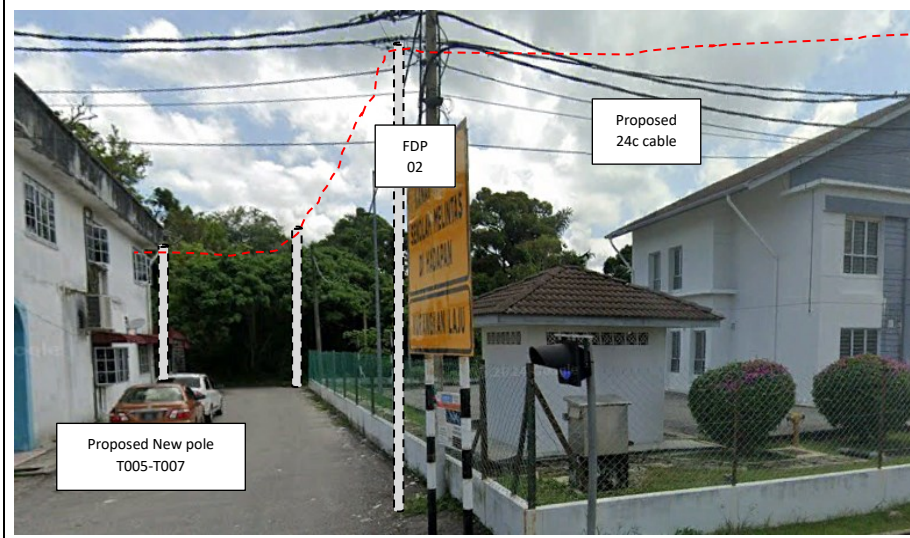
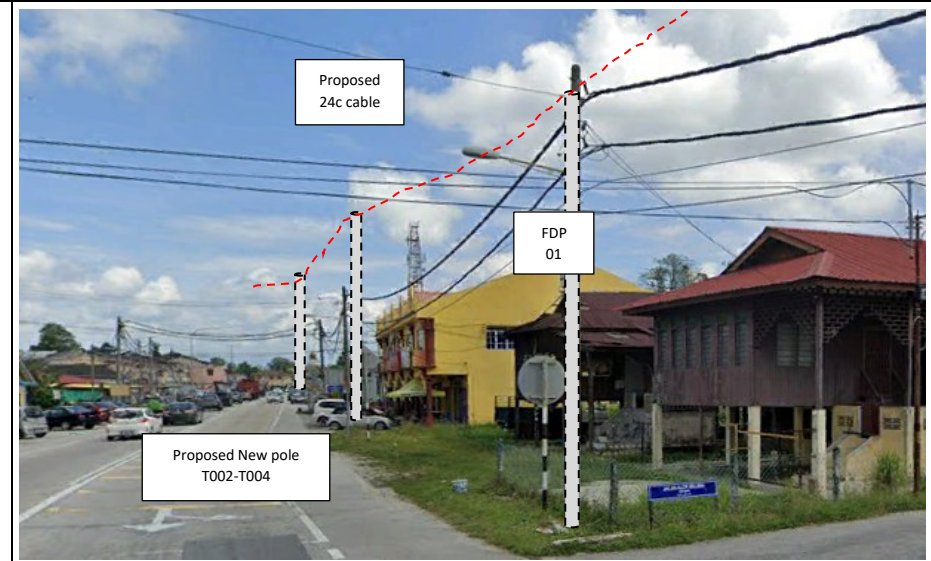
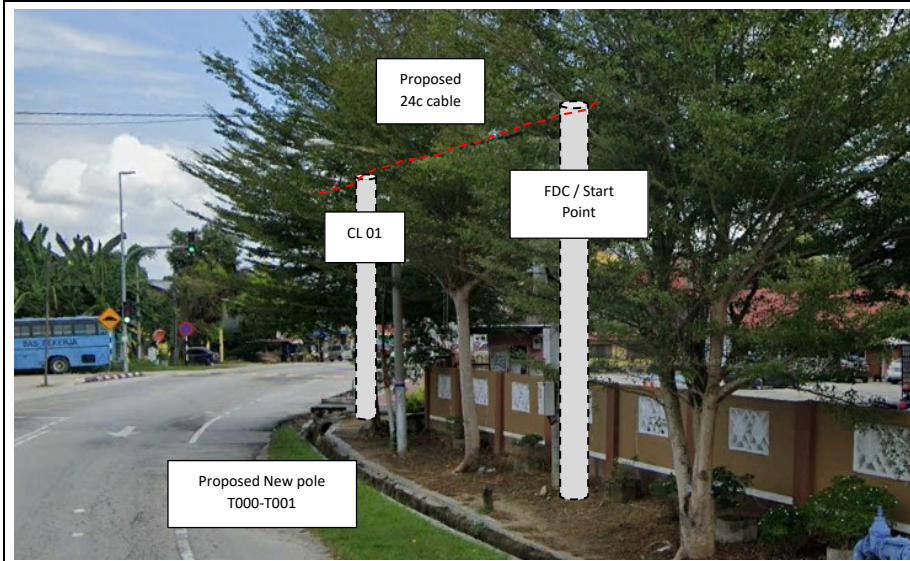


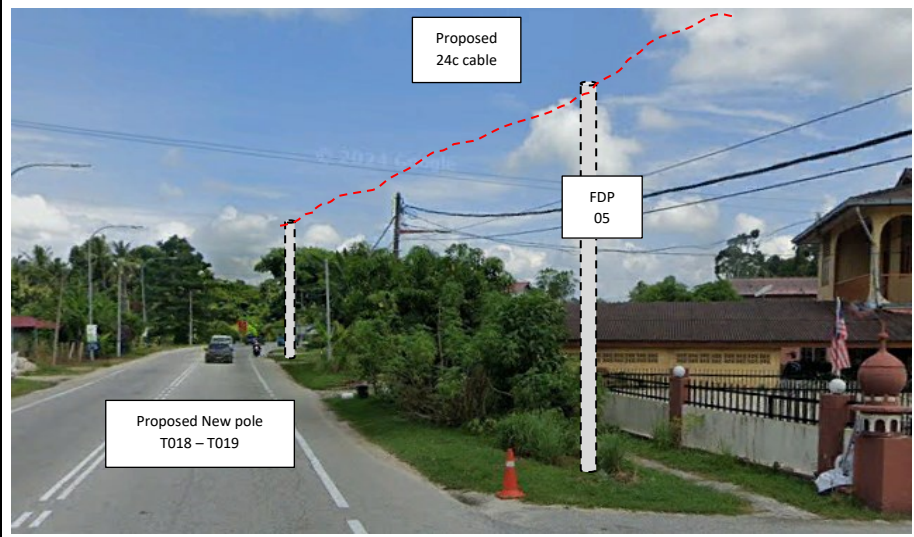
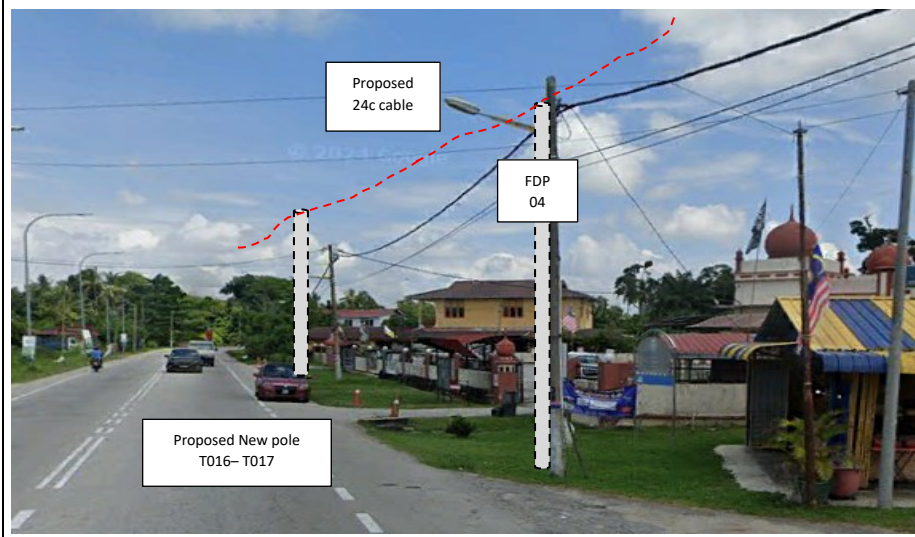
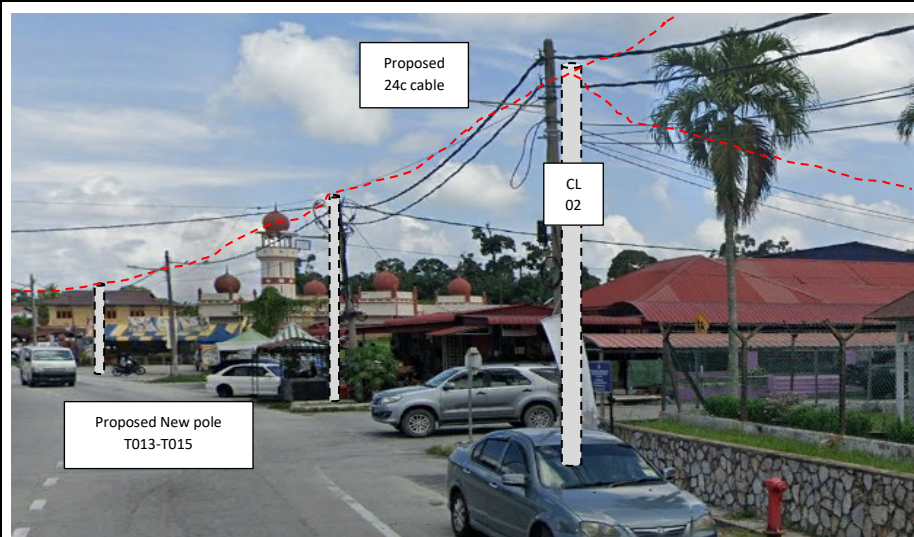
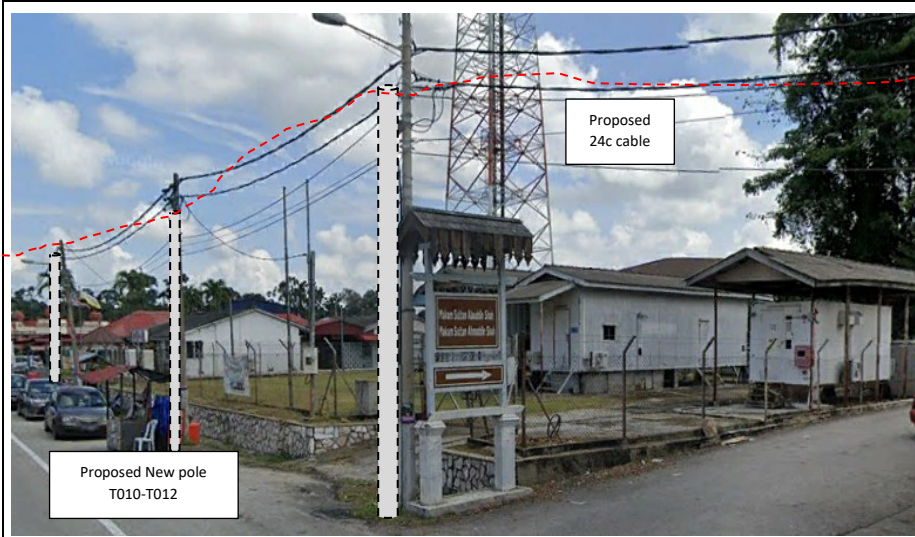
PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))

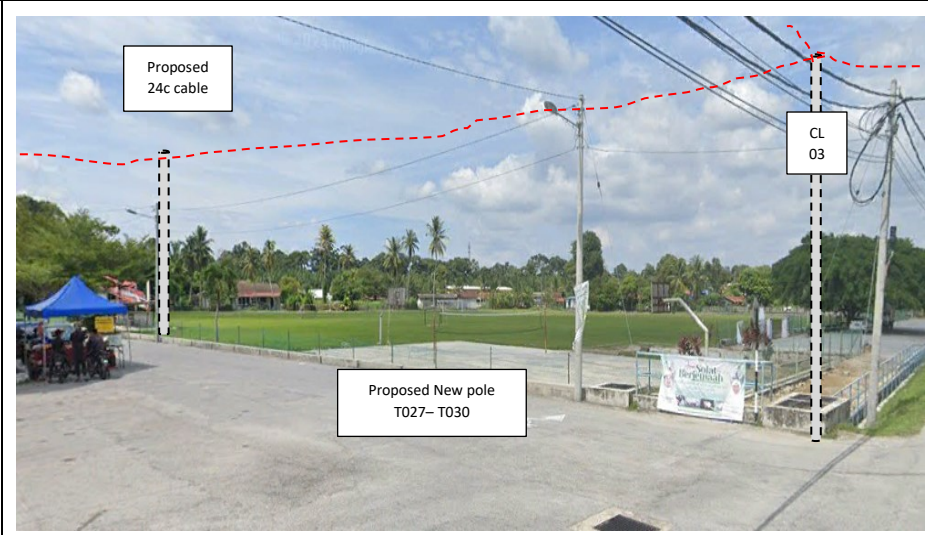
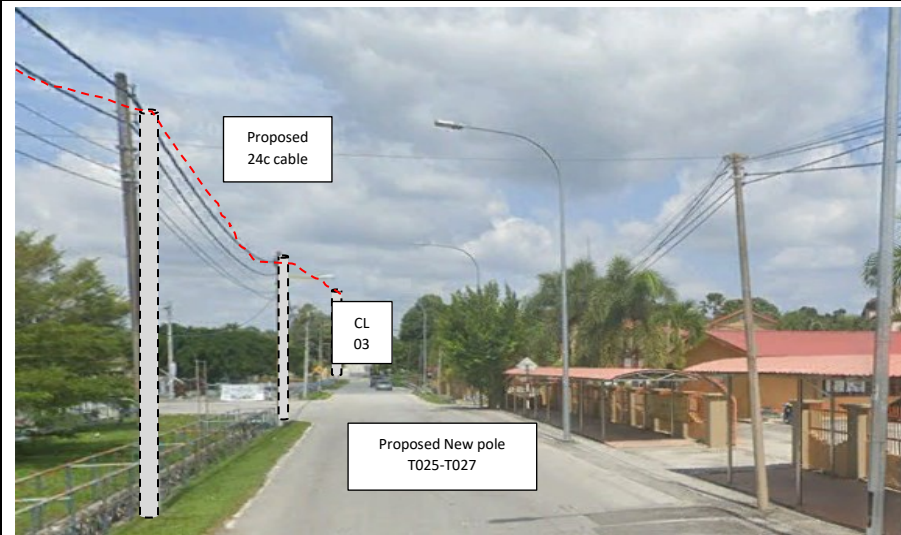
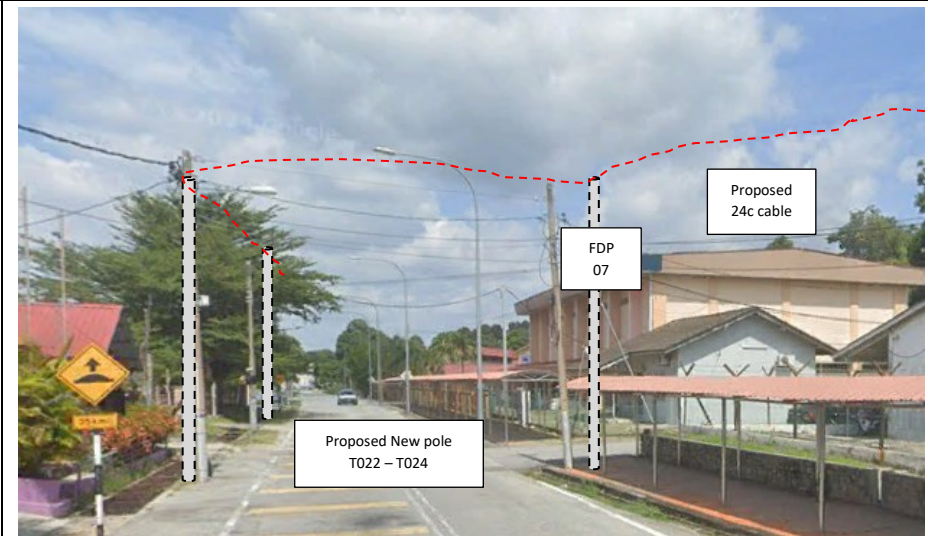
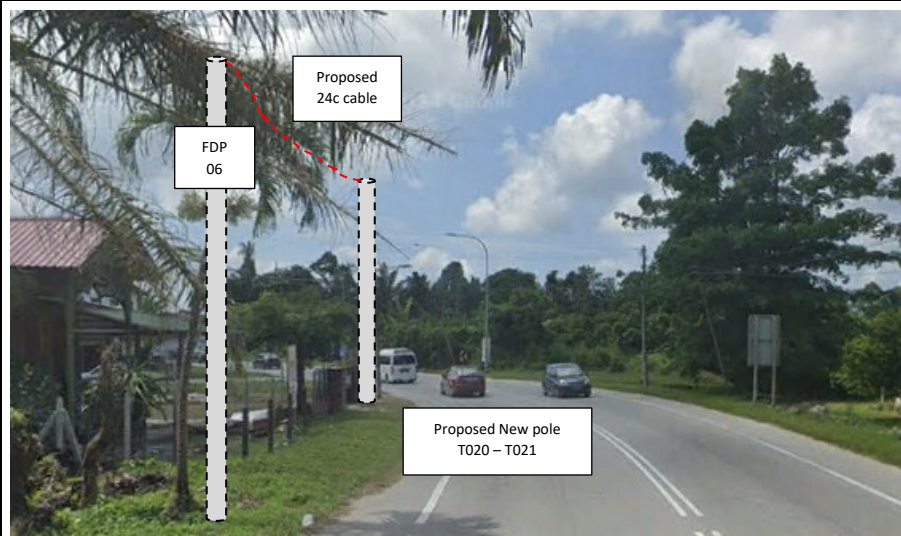


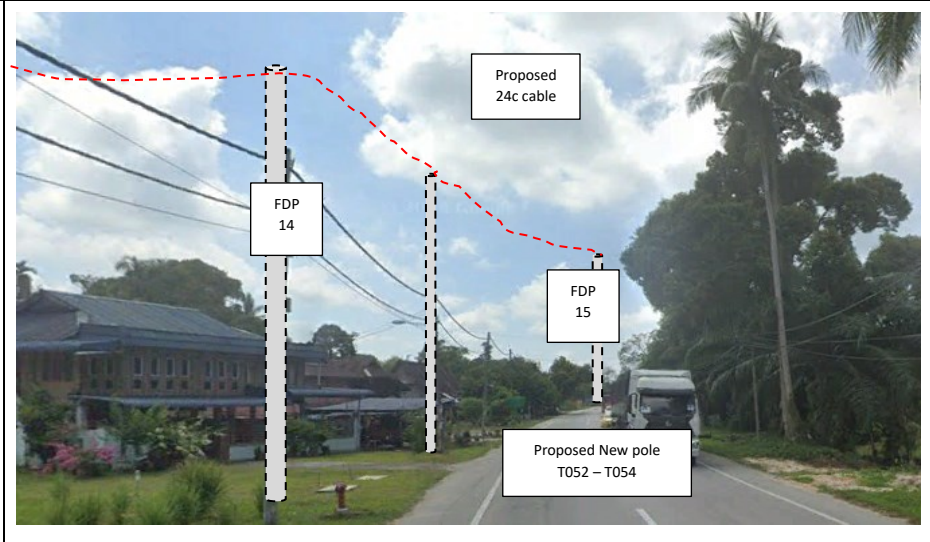
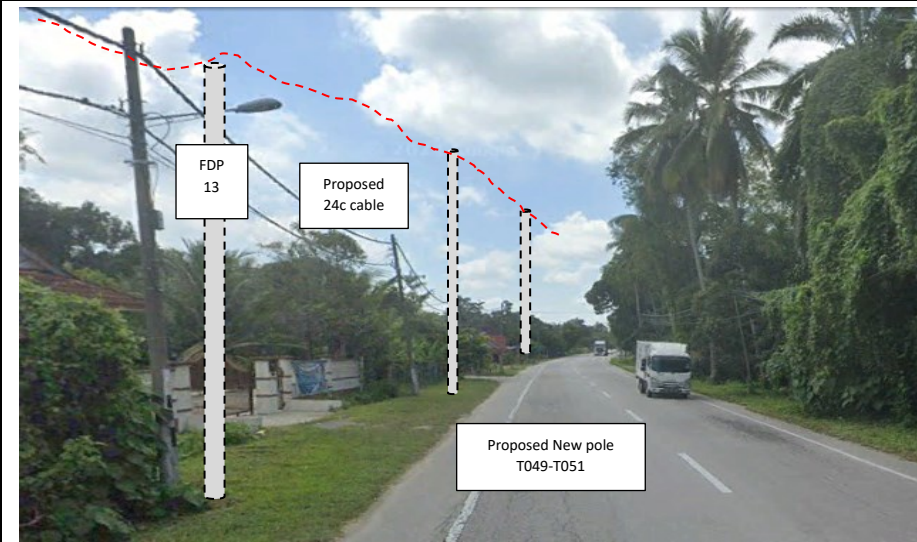
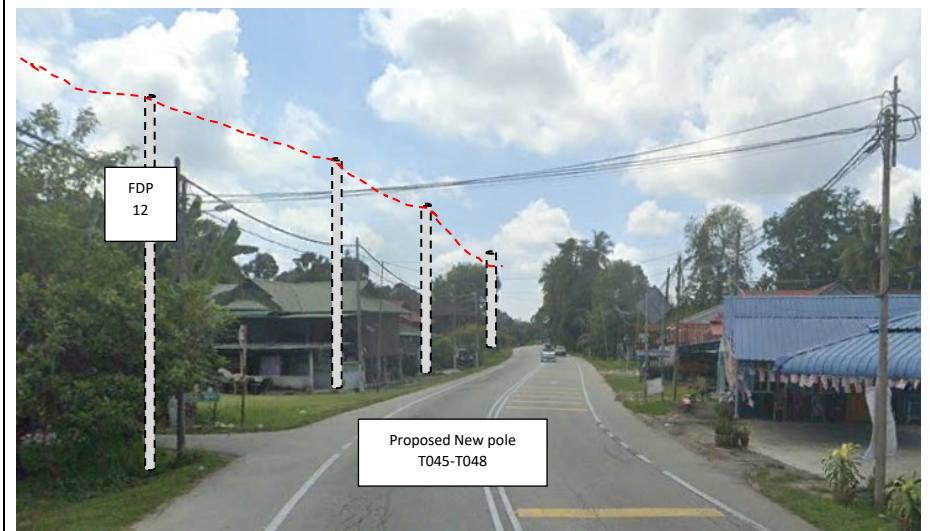
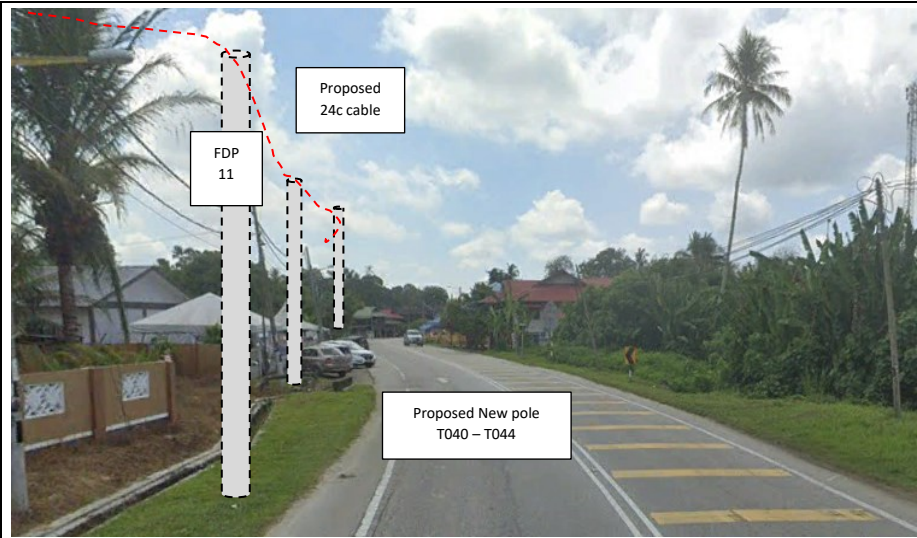
32	T031	23.28	4.351618309	100.882982	Majlis Perbandaran Perak Tengah
33	T032	104.24	4.350905965	100.8835898	Majlis Perbandaran Perak Tengah
34	T033	27.00	4.350989947	100.8838173	Majlis Perbandaran Perak Tengah
35	T034	29.55	4.351068433	100.8840708	Majlis Perbandaran Perak Tengah
36	T035	22.55	4.351139628	100.8842605	Majlis Perbandaran Perak Tengah
37	T036	25.30	4.351208158	100.8844772	Majlis Perbandaran Perak Tengah
38	T037	23.94	4.351284914	100.8846781	Majlis Perbandaran Perak Tengah
39	T038	25.32	4.351401713	100.8848732	Majlis Perbandaran Perak Tengah
40	T039	20.64	4.351523653	100.885013	Majlis Perbandaran Perak Tengah
41	T040	492.15	4.347421173	100.8833653	JKR Perak
42	T041	22.29	4.347324021	100.8835403	JKR Perak
43	T042	23.53	4.347205703	100.8837155	JKR Perak
44	T043	21.51	4.34711602	100.8838867	JKR Perak
45	T044	19.62	4.347024804	100.8840375	JKR Perak
46	T045	26.66	4.346890252	100.8842356	JKR Perak
47	T046	25.41	4.346723816	100.8843918	JKR Perak
48	T047	40.60	4.346444315	100.8846261	JKR Perak
49	T048	34.97	4.346213061	100.8848387	JKR Perak
50	T049	27.06	4.346044627	100.8850139	JKR Perak
51	T050	30.64	4.345846072	100.8852046	JKR Perak
52	T051	25.68	4.345677962	100.8853625	JKR Perak
53	T052	23.71	4.345520965	100.8855065	JKR Perak
54	T053	37.79	4.345269431	100.8857345	JKR Perak
55	T054	38.45	4.34501385	100.8859668	JKR Perak

Site Photos – Proposed to install pole











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))



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.	NOS.		
12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		MS30 New Manhole (PIT)		Micro-Trenching (Meter)		MH1 MH NO.
24C FOC	1470	Installed Patch Cord		Installed Pole (7.5M)	55	Tension		MS7 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	3	Existing TNB Pole		FDP with (1:8) splitter	15	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, MENARA IWP SENANG,
52200 JALAN P. PINANG
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
127, JALAN PULU 3/2, TAMAN PUNCAK JALIL,
BANDAR PUTRA PERANG,
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 8988 5963
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
ABA8223
SEKOLAH KEBANGSAAN BOTA KANAN

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 : ABA8223-ABD-01	Sheet : 1/4
THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD	
Size : A3	

Design By : ENGINEER

Date : DEC 2024

Drawn By : CAD ENGINEER

Scale : NOT TO SCALE

Checked By : ENGINEER

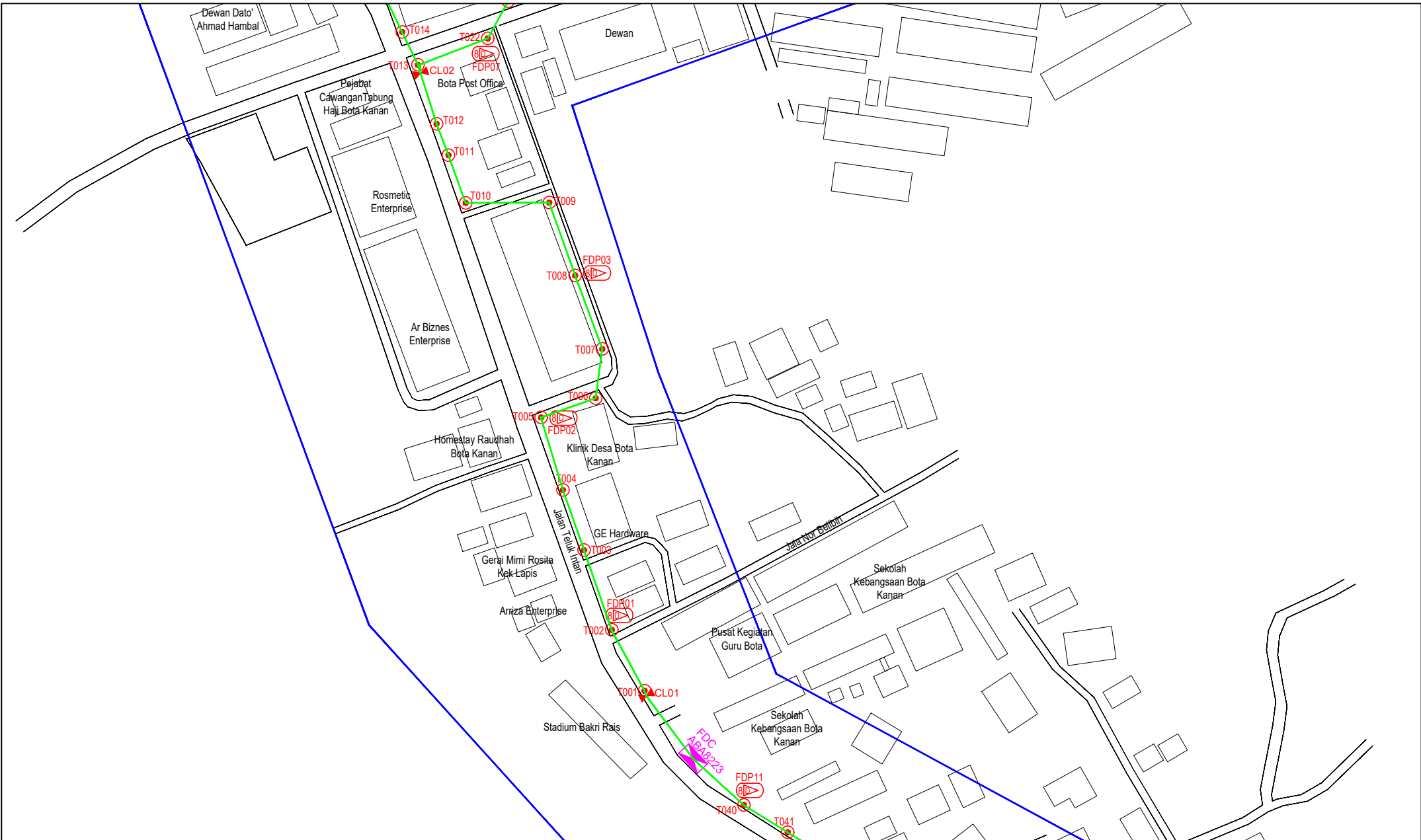
Job Number : 1

DRAWING NUMBER :
ABA8223-ABD-01

Sheet :
1/4

THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD

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		Micro-Trenching (Meter)		MH1	MH NO.
24C FOC	1470	Installed Patch Cord		Installed Pole (7.5M)	55	Tension		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	3	Existing TNB Pole		FDP with (1:8) splitter	15	Active Outdoor Cabinet		CL01	Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		FDC NO.		DP1	FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
1201, FLOOR, MENARA TWP SEMA,
32000, ALUAN P. PANJAL,
KUALA LUMPUR

MAIN CONTRACTOR :

WCWL COMMUNICATIONS SDN BHD
127, JALAN PULU 3/2, TAMAN PUNCAK JALIL,
BANDAR PUNCAK PETAH,
43000 SERI KEMBANGAN, SELANGOR
TEL: +603 8988 0983
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
ABAB223
SEKOLAH KEBANGSAAN BOTA KANAN

PROJECT PHASE:
POP 2

Design By : ENGINEER
Date : DEC 2024

Drawn By : CAD ENGINEER
Scale : NOT TO SCALE

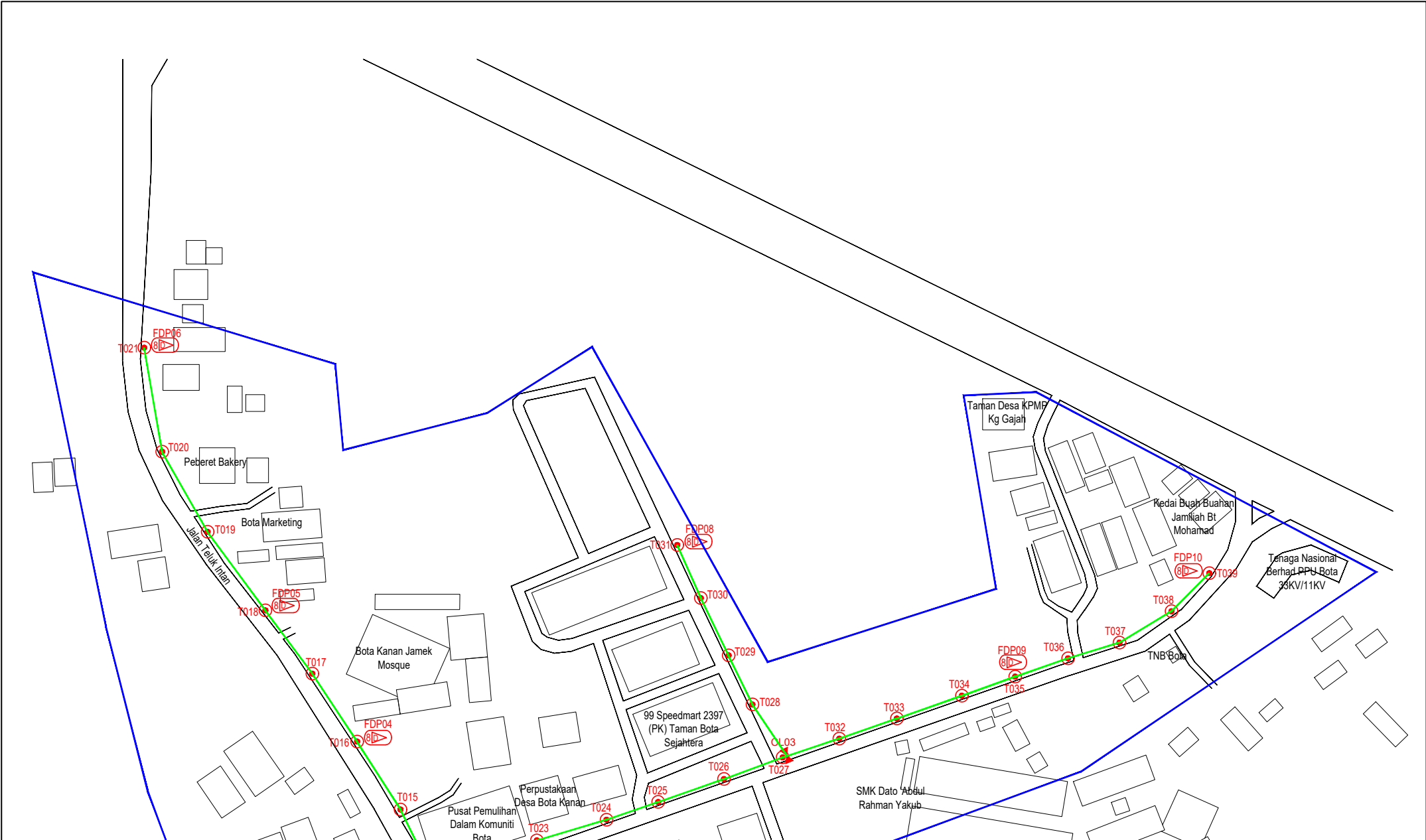
Checked By : ENGINEER
Job Number : 1

DRAWING NUMBER :
ABAB223-ABD-01A

THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD

Sheet :
2/4

Size :
A3

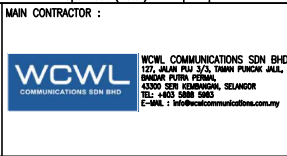
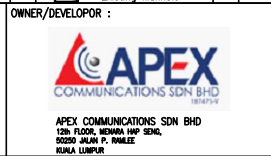


LEGEND	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.	NOS.
12C FOC	Installed 1:4 / 1:8 / 1:32 splitter	Installed Pole (9m)	Suspension	BS0	New Manhole (PIT)	Micro-Trenching (Meter)	MH1	MH NO.	
24C FOC	Installed Patch Cord	Installed Pole (7.5M)	Tension	CS7	New Manhole(JRC7)	Temporary Infra (Meter)	TKS-1	Existing TNB Pole NO.	
48C FOC	FDC	Installed Pole (6.7M)	Pole Ring		FDP Boundary	Loop / Coil (Meter)	P001	New Pole NO.	
96C FOC	Closure	Existing TNB Pole	FDP with (1:8) splitter	15	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 :



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

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING ABAB223
SEKOLAH KEBANGSAAN BOTA KANAN
PROJECT PHASE:
POP 2

Drawn By : ENGINEER	Date : DEC 2024
Checked By : CAD ENGINEER	Scale : NOT TO SCALE
Job Number : 1	
DRAWING NUMBER : ABAB223-ABD-01B	Sheet : 3/4
THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD	
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		MS30 New Manhole (PIT)		Micro-Trenching (Meter)		MH1 MH NO.
24C FOC	1470	Installed Patch Cord		Installed Pole (7.5M)	55	Tension		MS7 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	3	Existing TNB Pole		FDP with (1:8) splitter	15	HDD (Meter)		# Active Outdoor Cabinet		CL01 Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		CO1 FDC NO.		DP1 FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA WAP SENANG,
50250 JALAN P. RAJEEZ
KUALA LUMPUR

MAIN CONTRACTOR :

WCWL COMMUNICATIONS SDN BHD
WCWL COMMUNICATIONS SDN BHD
127, JALAN PAU 3/3, TAMAN PUNCAK JAYA,
BANDAR PUTRA PERAI,
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 8988 9963
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
ABAB223
SEKOLAH KEBANGSAAN BOTA KANAN

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 : ABAB223-ABD-01C	Sheet : 4/4
THIS PRINT AND ITS COPYRIGHT ARE THE PROPERTY OF APEX COMMUNICATIONS SDN BHD	
Size : A3	