

TECHNICAL PROPOSAL

POP2 ABA9002 SEKOLAH KEBANGSAAN GUNUNG PANJANG (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	:	8/11/2024



POINT A

POINT B

Starting Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN GUNUNG PANJANG
Address	:	Kampung Gunong Panjang
District	:	Gopeng
Postcode	:	31600
State	:	Perak
GPS Coordinate	:	4.429752, 101.165469
LRD	:	A

End Point

Site / Boundary Name	:	SEKOLAH KEBANGSAAN GUNUNG PANJANG
Address	:	Kampung Gunung Mesah Hulu
District	:	Gopeng
Postcode	:	31600
State	:	Perak
GPS Coordinate	:	4.447985, 101.169364
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	2130
2	Carriage Way Open trench (CW)	m	0
3	Grass Verge Open Trenching (GV)	m	0
4	Micro trenching (MT)	m	0
	Total		2130

	Other Information	Unit	Qty
1	Proposed Manhole	EA	10
2	Proposed Pole	EA	31
3	Joint Closure	EA	10
4	Estimated time required for completion	days	30



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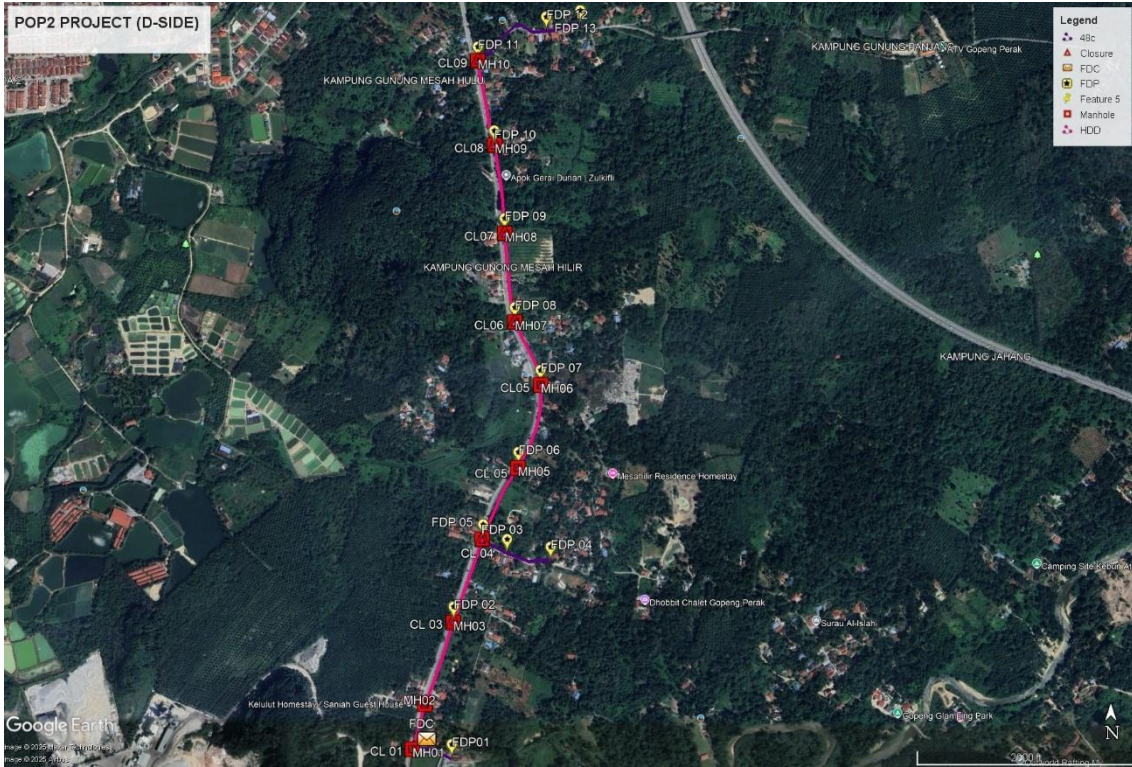
Local Authority Summary

1. Daerah Kampar

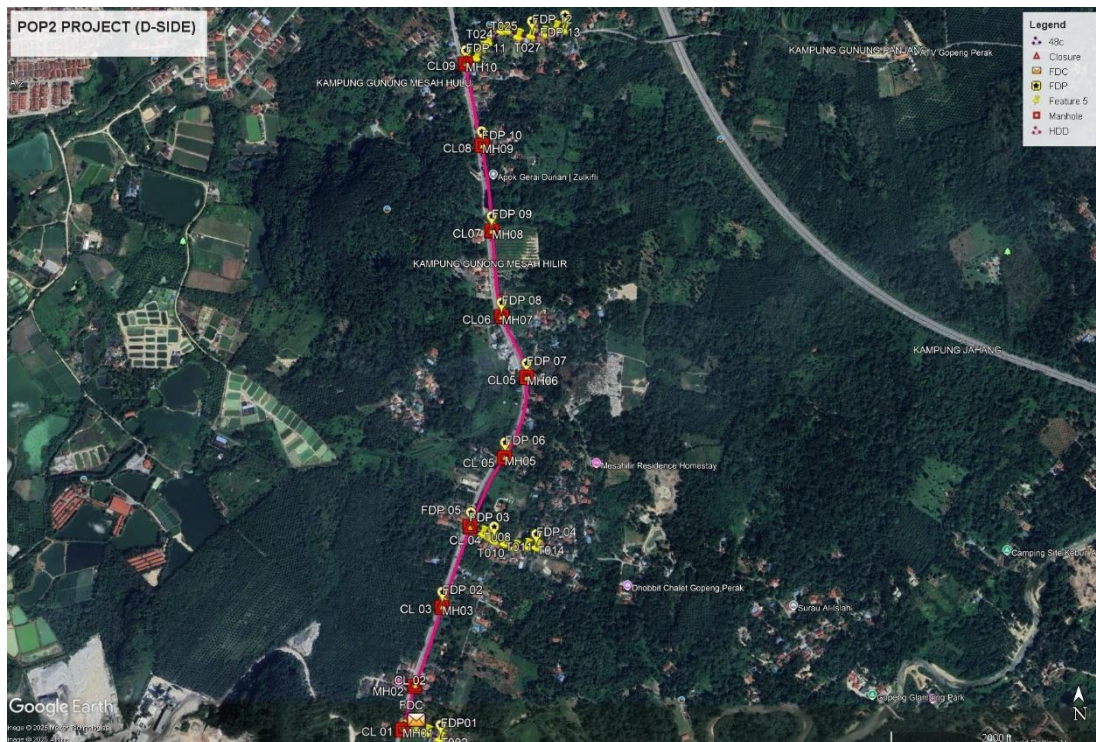
Bil	Items	Owner	Quantity	Distance
1	HDD	JKR	1	2130
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	10	2130
		Majlis	21	680
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				2810

Site Plan – KMZ (Overview site area)

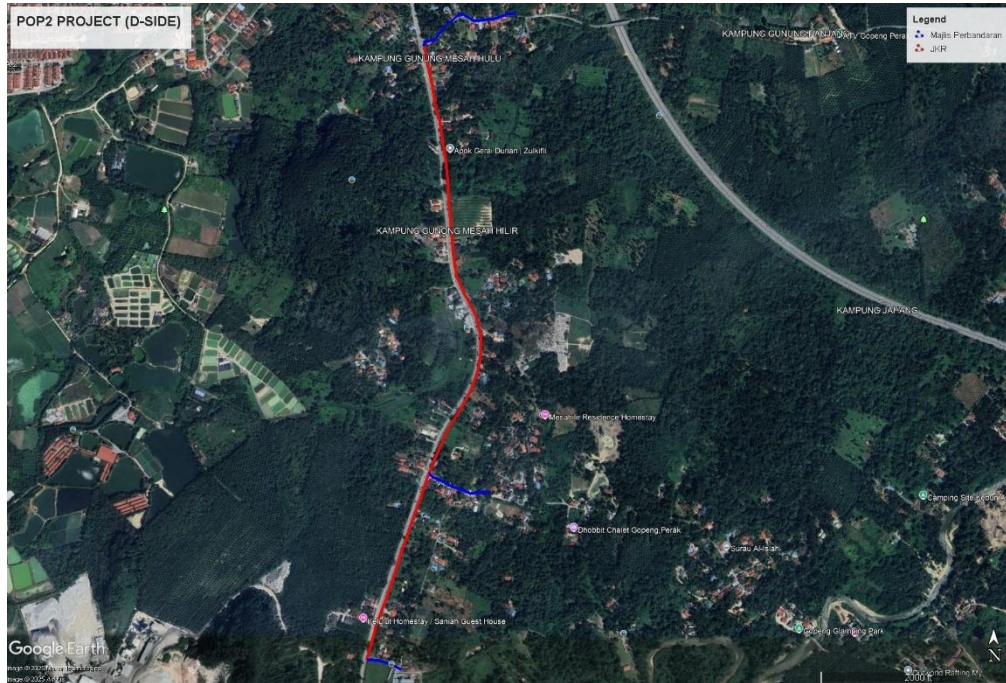
Proposed FDP and Closure



Proposed New Pole



Site Plan – KMZ Routing (All Local Authority)

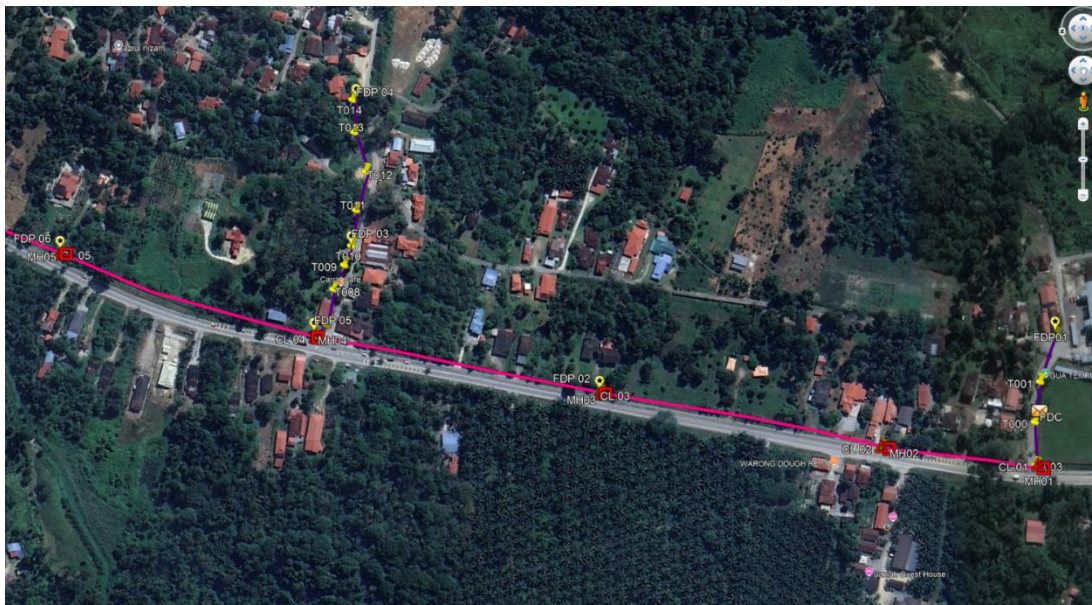
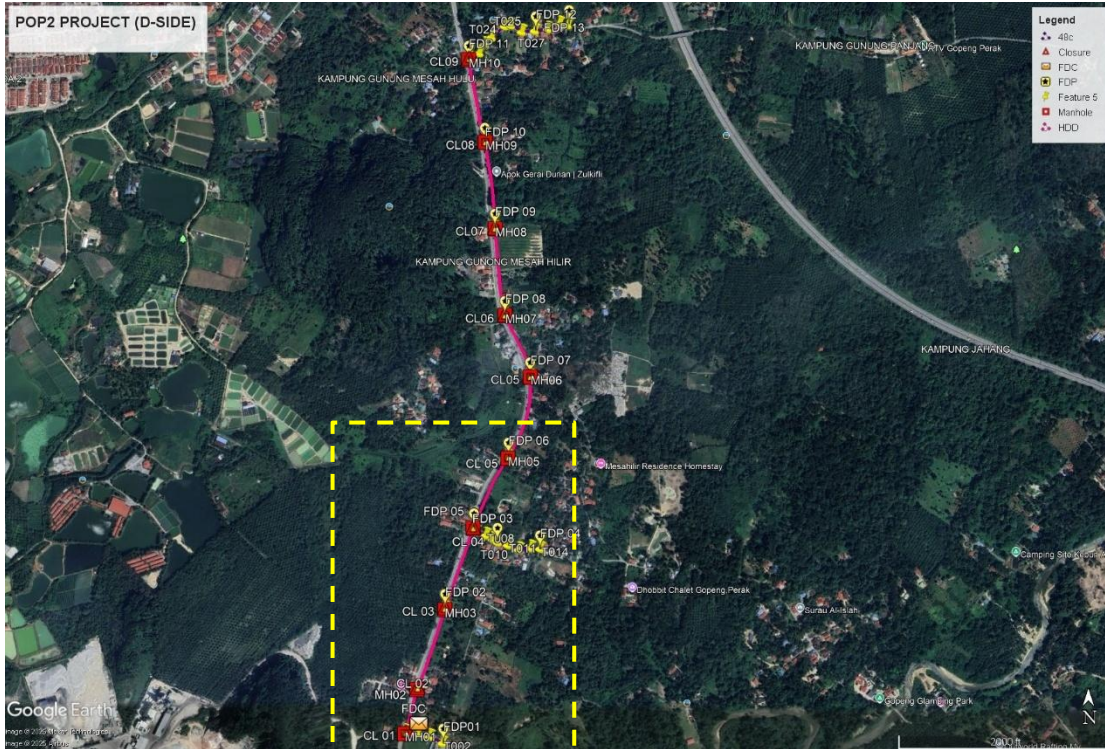


Red Colour – JKR Kampar

Blue Colour – Majlis Perbandaran Kampar

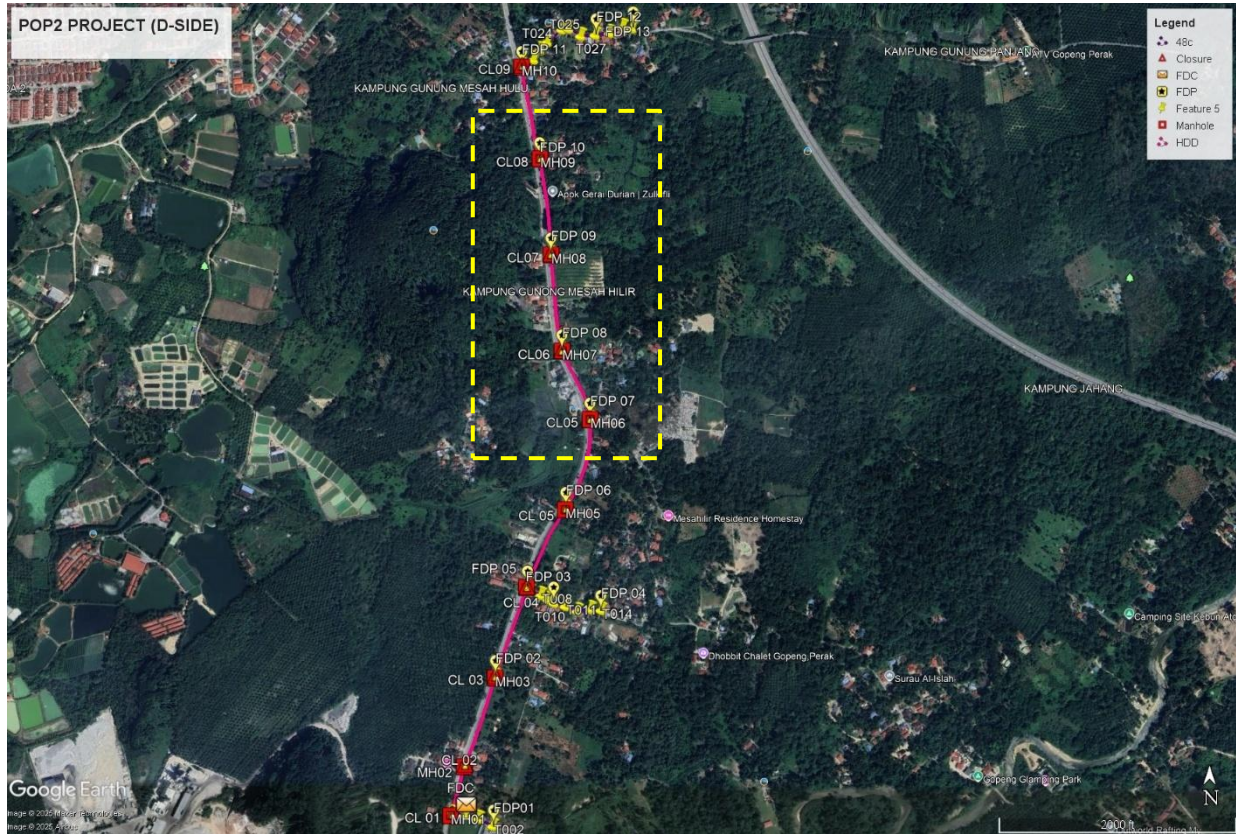
Site Plan – KMZ Routing (All site area)

Route 1



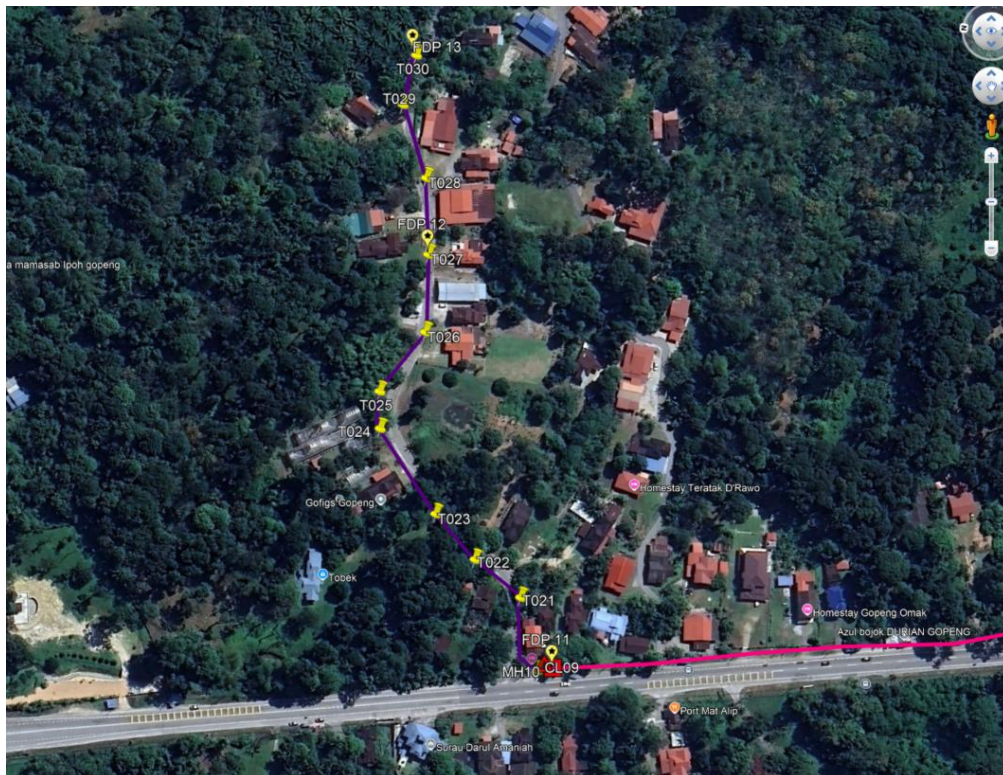
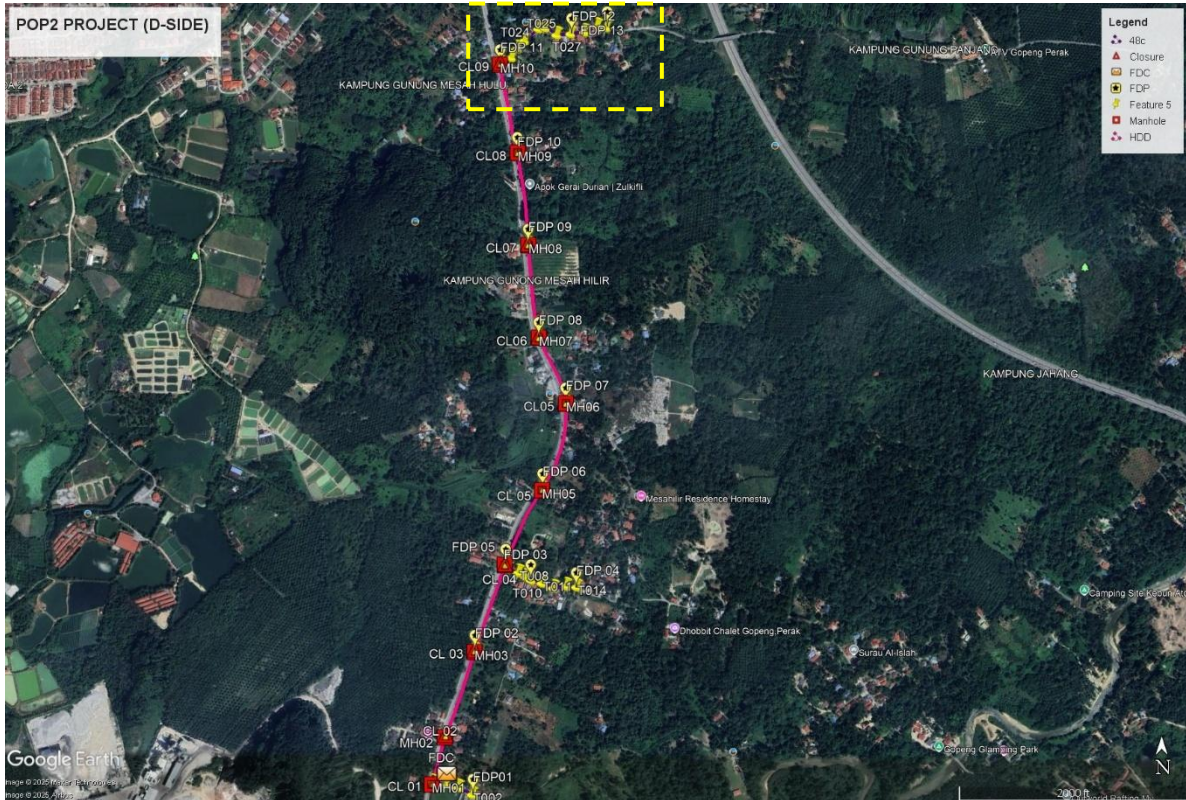
Route 1.1

Route 2



Route 2.1

Route 3

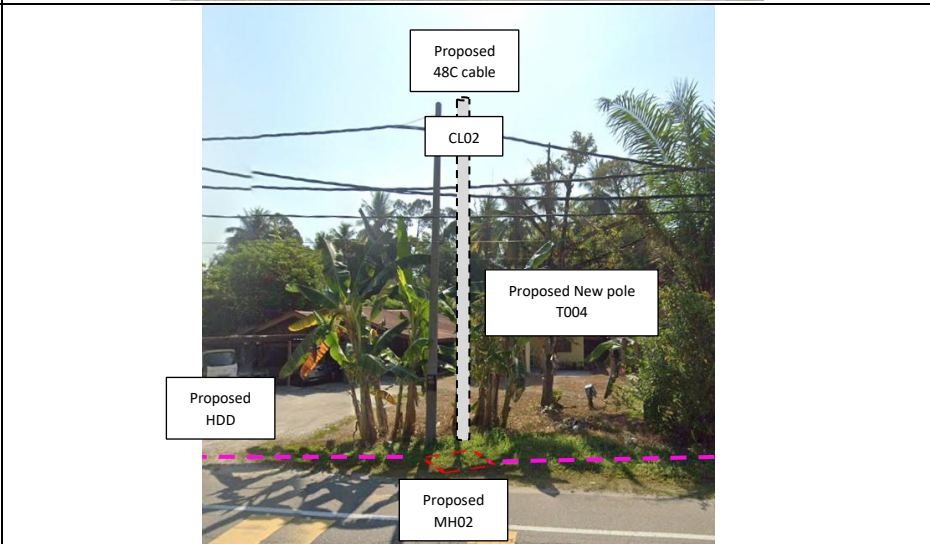
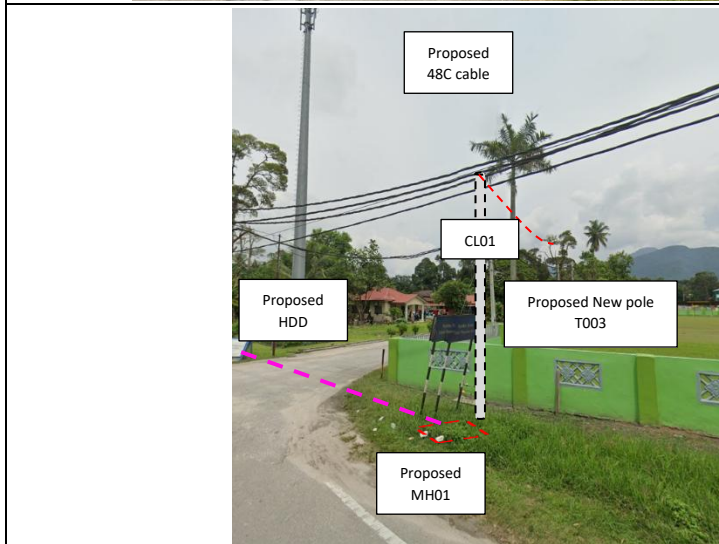
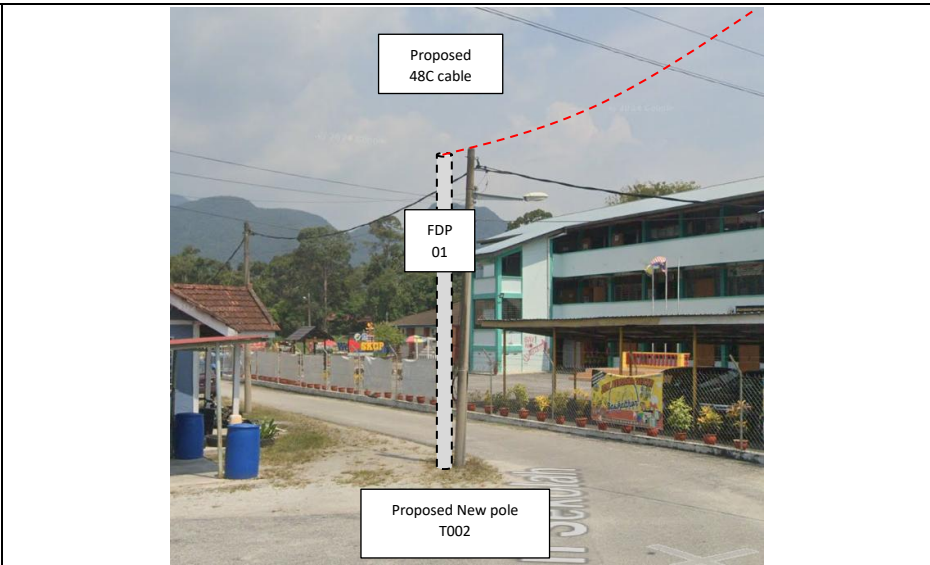
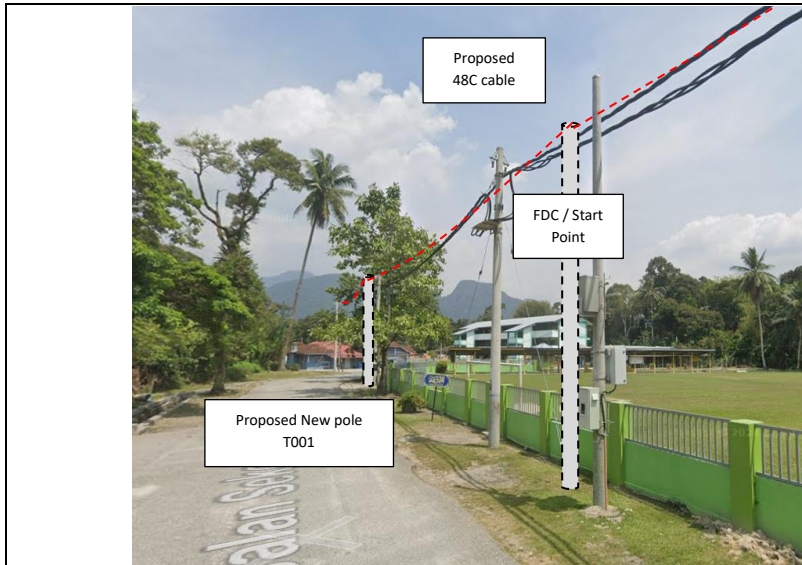


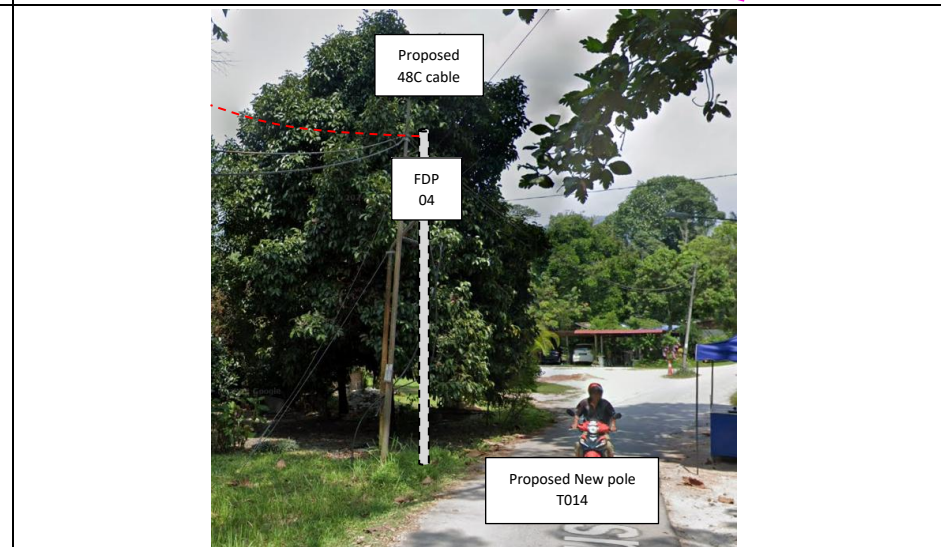
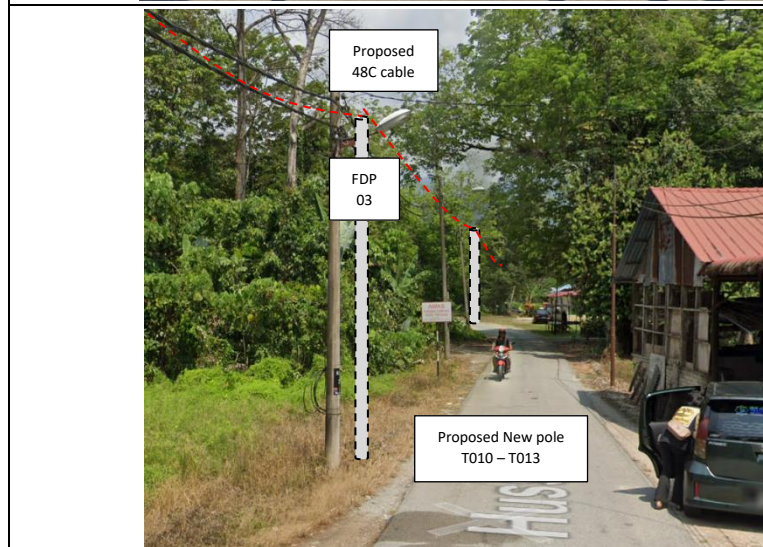
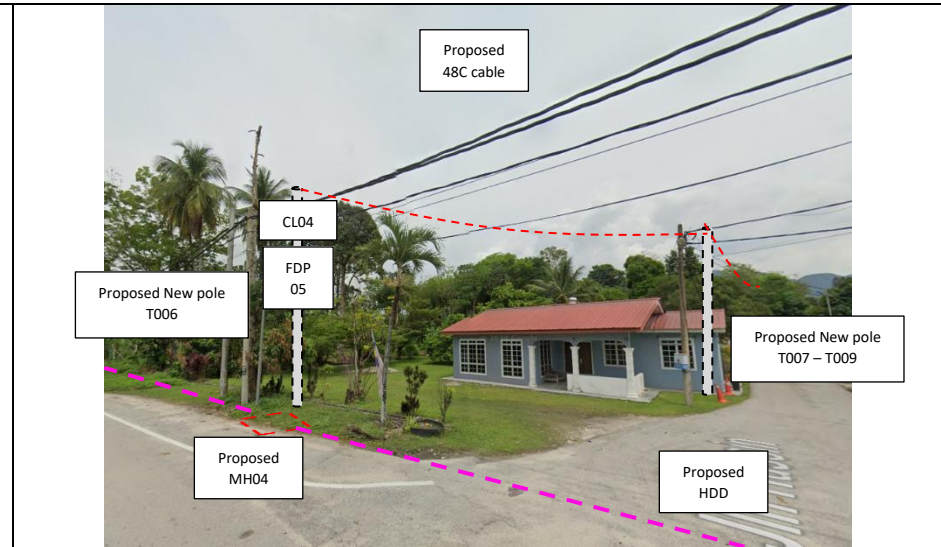
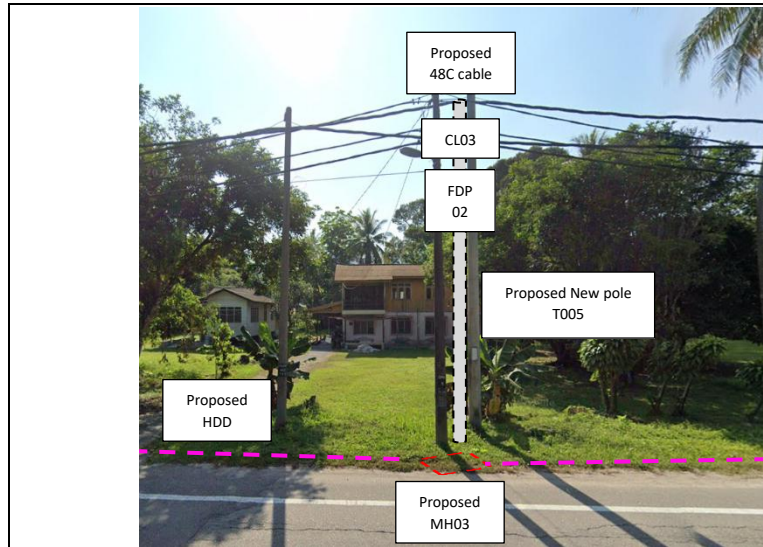
Route 3.1

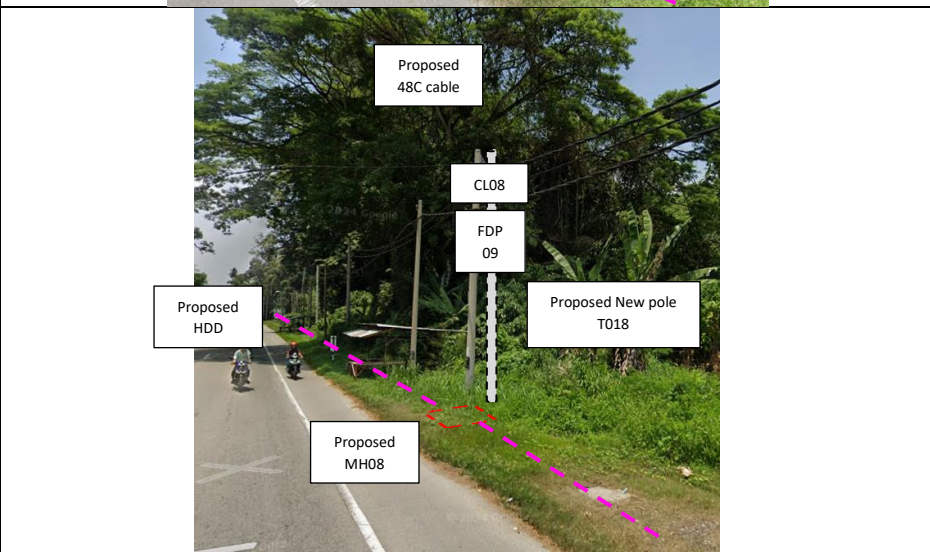
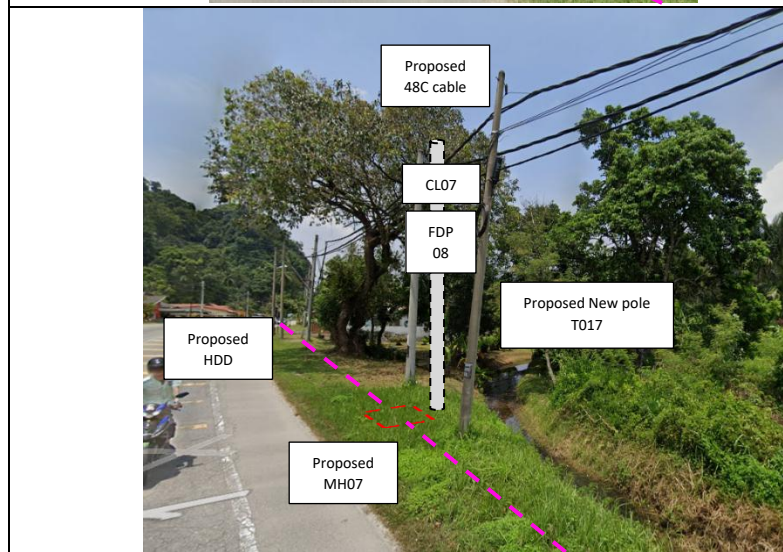
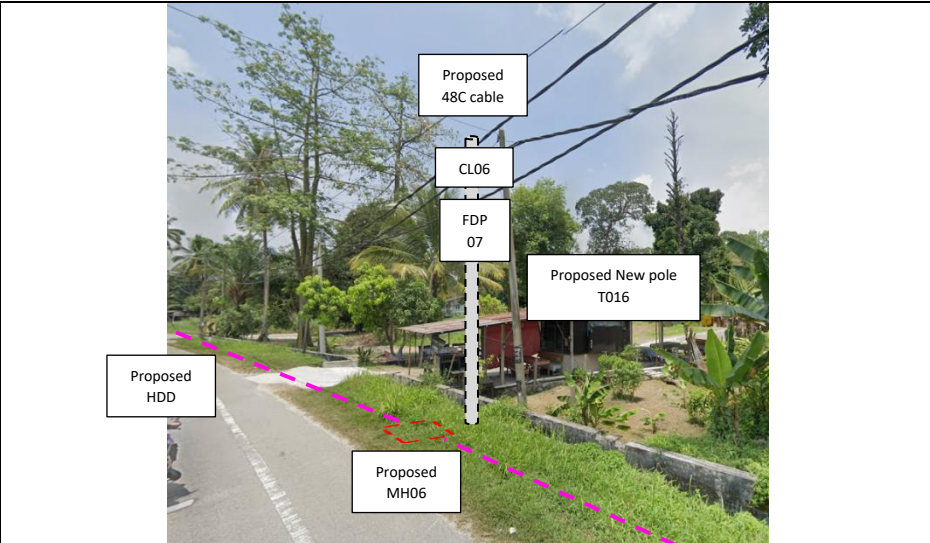
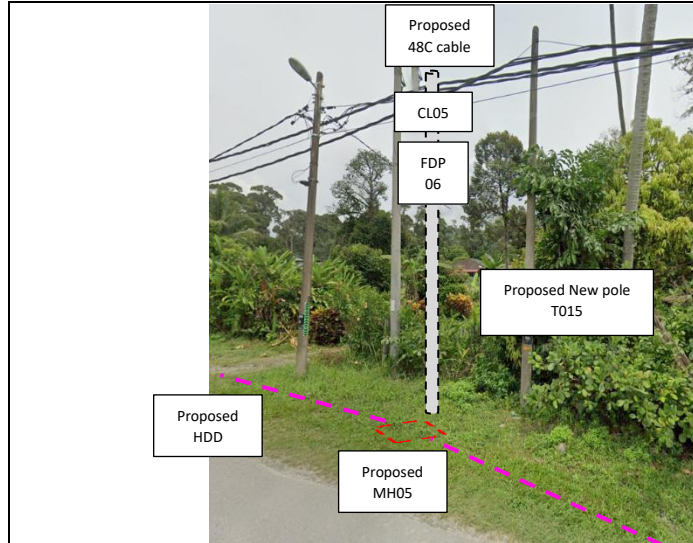
Overall Pole (Proposed New)

No.	Pole ID	Distance (M)	Latitude	Longitude	Local Authority
1	FDC	0.00	4.429829003	101.165502	Majlis Perbandaran Kampar
2	T001	34.77	4.429744	101.165776	Majlis Perbandaran Kampar
3	T002	42.97	4.429577043	101.1661279	Majlis Perbandaran Kampar
4	T003	115.24	4.429856513	101.1651999	JKR Kampar
5	T004	133.31	4.431007	101.165478	JKR Kampar
6	T005	242.63	4.433029049	101.1661898	JKR Kampar
7	T006	245.56	4.43510006	101.1669098	JKR Kampar
8	T007	14.40	4.434992241	101.1669812	Majlis Perbandaran Kampar
9	T008	30.91	4.434905293	101.1672449	Majlis Perbandaran Kampar
10	T009	22.25	4.434799482	101.1674145	Majlis Perbandaran Kampar
11	T010	17.20	4.434725372	101.1675501	Majlis Perbandaran Kampar
12	T011	30.14	4.434653	101.167811	Majlis Perbandaran Kampar
13	T012	33.45	4.434539	101.168089	Majlis Perbandaran Kampar
14	T013	34.30	4.434583	101.168394	Majlis Perbandaran Kampar
15	T014	27.38	4.434561	101.168639	Majlis Perbandaran Kampar
16	T015	437.89	4.436923239	101.1677717	JKR Kampar
17	T016	244.88	4.438912335	101.1683856	JKR Kampar
18	T017	195.60	4.440543154	101.1677238	JKR Kampar
19	T018	255.29	4.442783	101.167441	JKR Kampar
20	T019	250.15	4.445011	101.167175	JKR Kampar
21	T020	247.66	4.447132009	101.1667686	JKR Kampar
22	T021	36.57	4.447243673	101.1670776	Majlis Perbandaran Kampar
23	T022	28.50	4.447457646	101.1672181	Majlis Perbandaran Kampar
24	T023	28.87	4.447648366	101.1673939	Majlis Perbandaran Kampar
25	T024	49.02	4.447930076	101.1677324	Majlis Perbandaran Kampar
26	T025	17.83	4.447950017	101.1678913	Majlis Perbandaran Kampar
27	T026	36.02	4.44778431	101.1681692	Majlis Perbandaran Kampar
28	T027	37.28	4.447810176	101.1685031	Majlis Perbandaran Kampar
29	T028	37.19	4.44785639	101.168834	Majlis Perbandaran Kampar
30	T029	36.93	4.447993587	101.169136	Majlis Perbandaran Kampar
31	T030	24.66	4.447960733	101.1693551	Majlis Perbandaran Kampar

Site Photos – Proposed to install pole

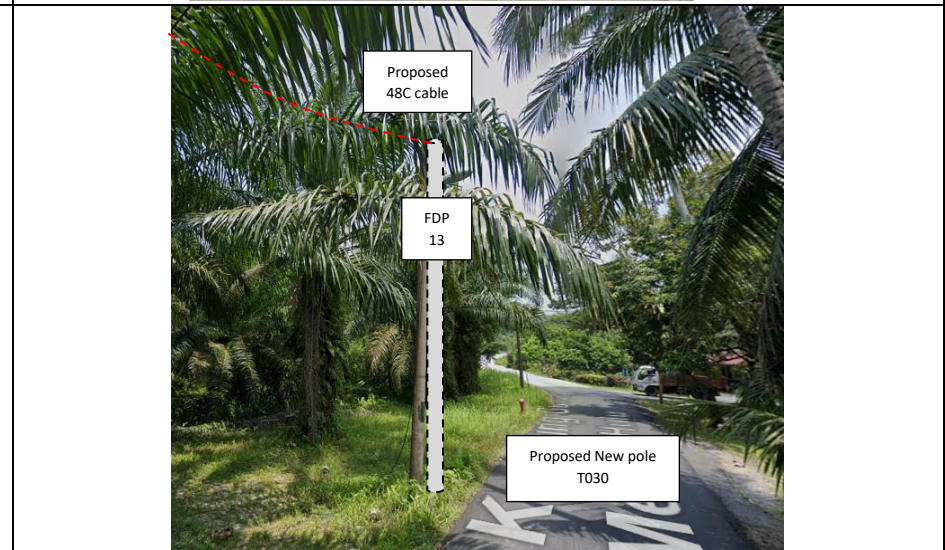
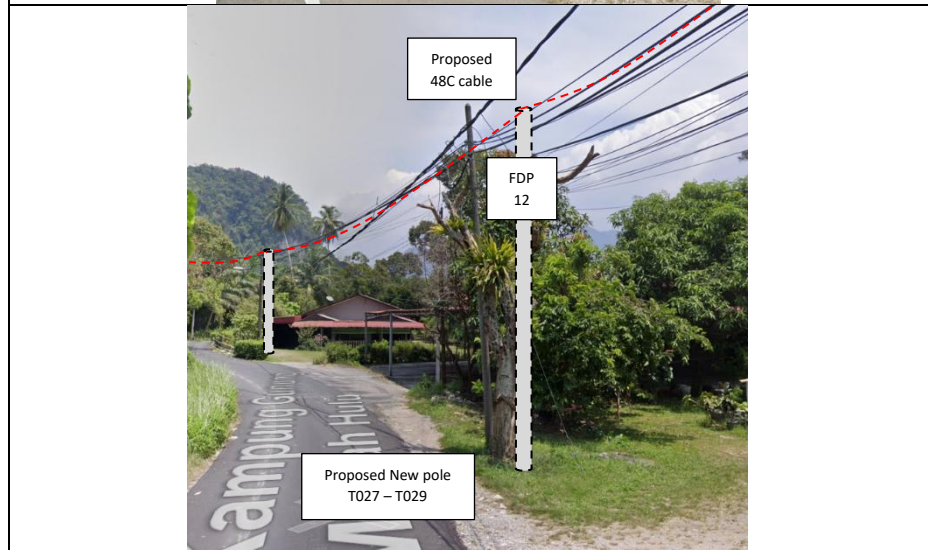
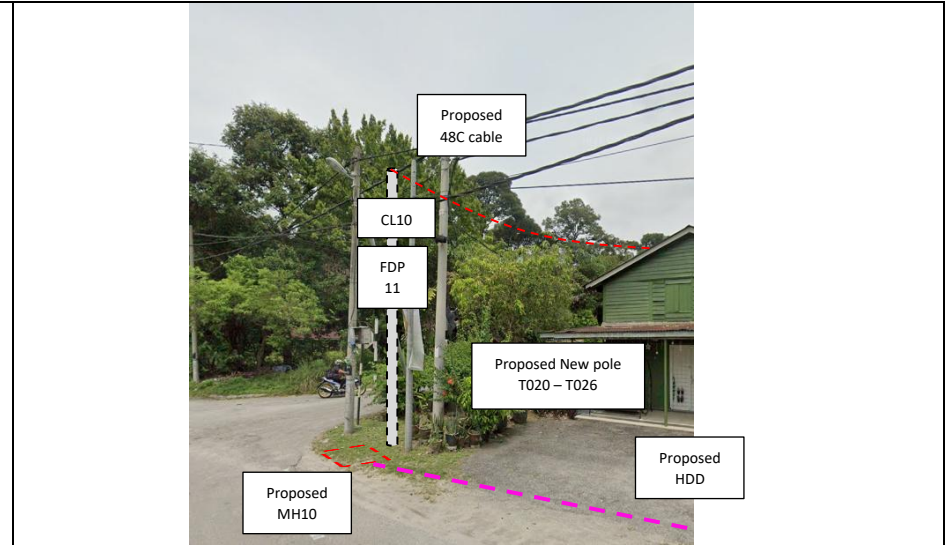
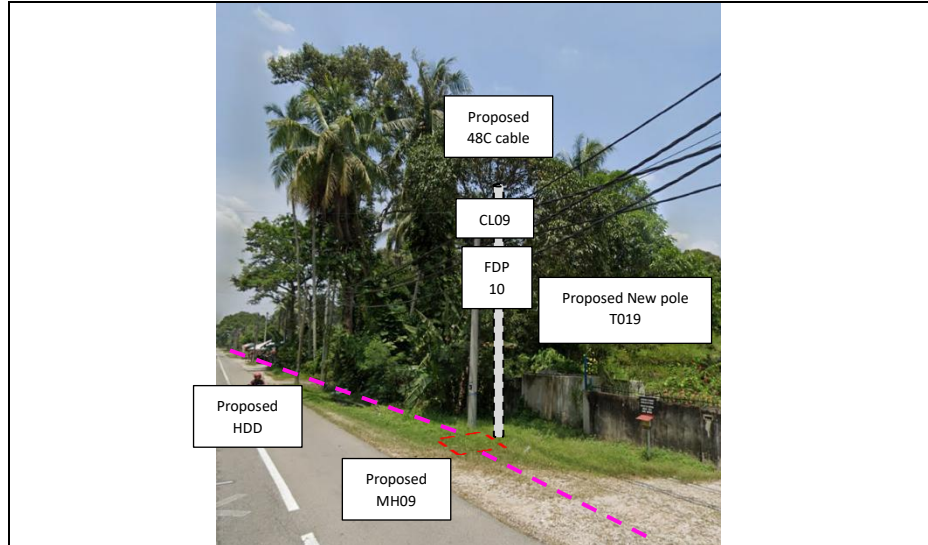








PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))



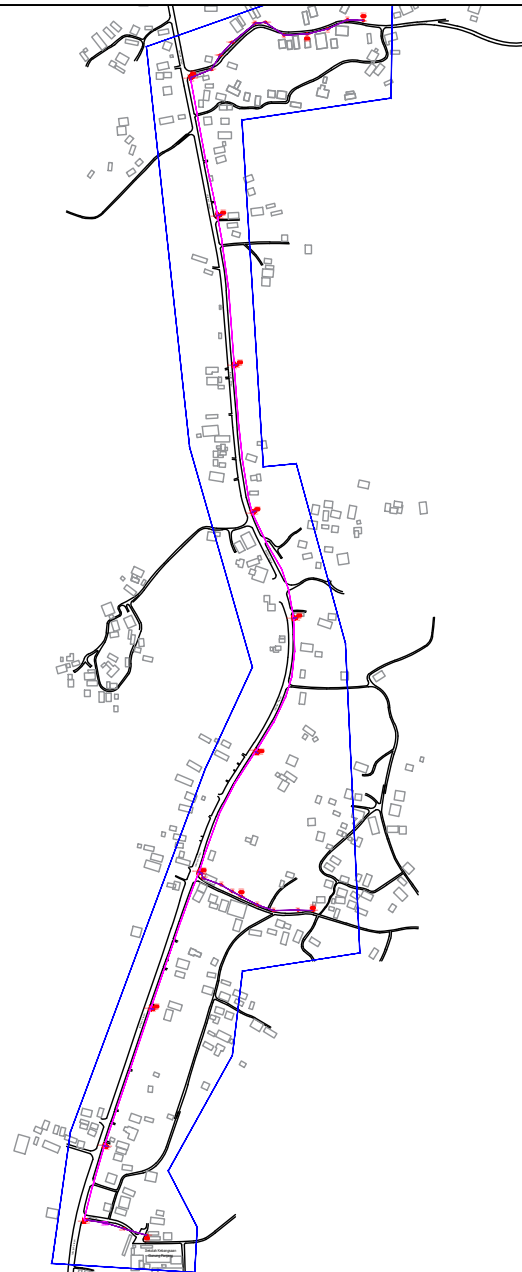


PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA - ZON UTARA (KKMM.400-11/17/132(1))



3rd Parties Dependencies

No.	Local Council/ Authority	Remark
1	JKR Kampar	
2	Majlis Perbandaran Kampar	
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		New Manhole (PIT)	10	Micro-Trenching (Meter)		MH1	MH NO.
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1	Existing TNB Pole NO.
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		P001	New Pole NO.
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13	HDD (Meter)	2130	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 :



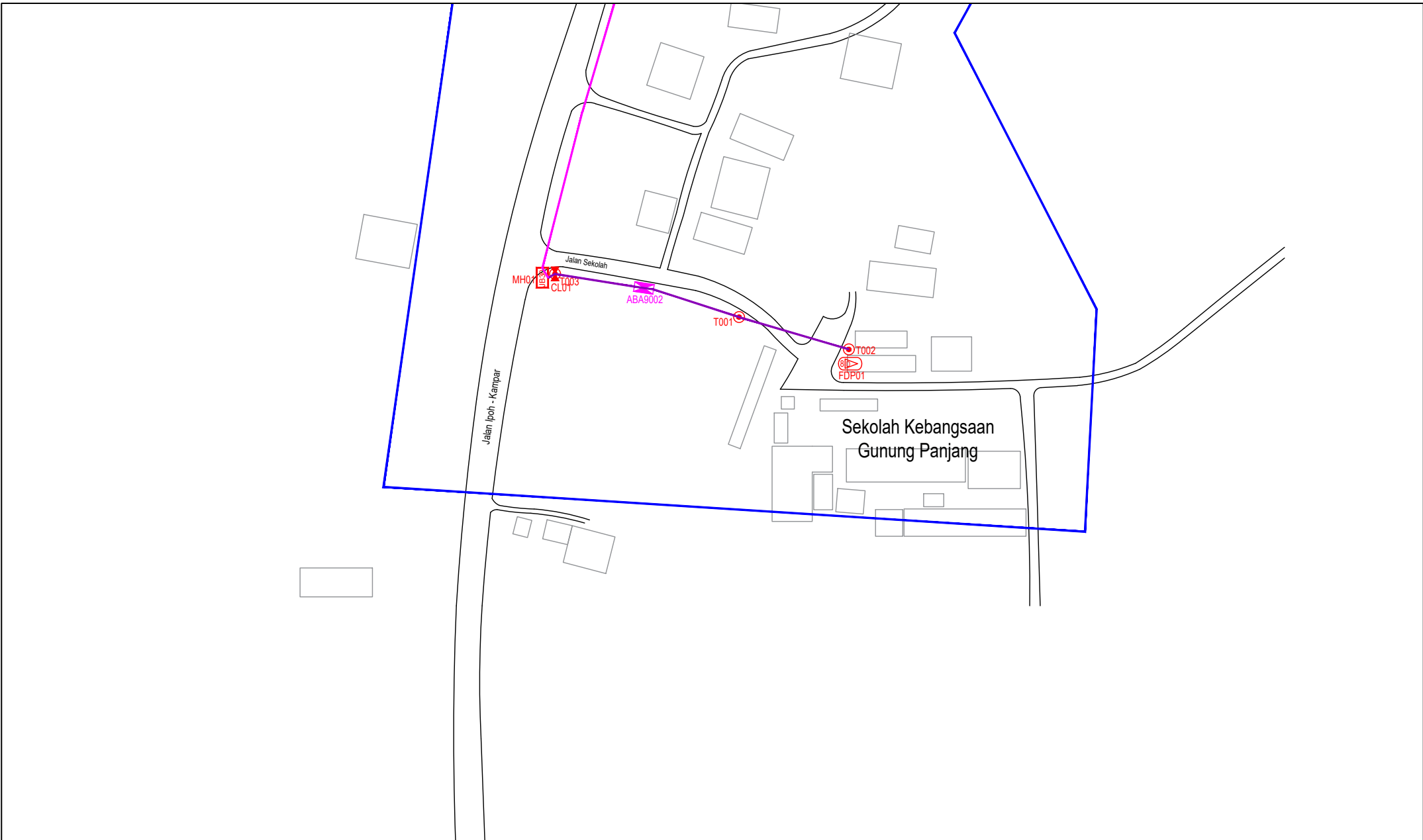
MAIN CONTRACTOR :

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

PROJECT TITLE :

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABA9002
SEKOLAH KEBANGSAAN GUNUNG PANJANG
PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : NOV 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA9002-ABD-01	Sheet : 1/9
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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		UB30 New Manhole (PIT)	10	Micro-Trenching (Meter)		MH1 MH NO.	
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		UB7 New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1 Existing TNB Pole NO.	
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		P001 New Pole NO.	
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13	HDD (Meter)	2130	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 MAP SENANG, 30200 JALAN P. PINALE, KUALA LUMPUR

MAIN CONTRACTOR :

WCWL COMMUNICATIONS SDN BHD
127, JALAN PUNJ 3/2, TAMAN PUNJUK JALIL, BUKIT PUNJUNG PERAK, 43300 SERI KEMBANGAN, SELANGOR
TEL: +603 5085 0983
E-MAIL: info@wcwlcommunications.com.my

PROJECT TITLE :

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

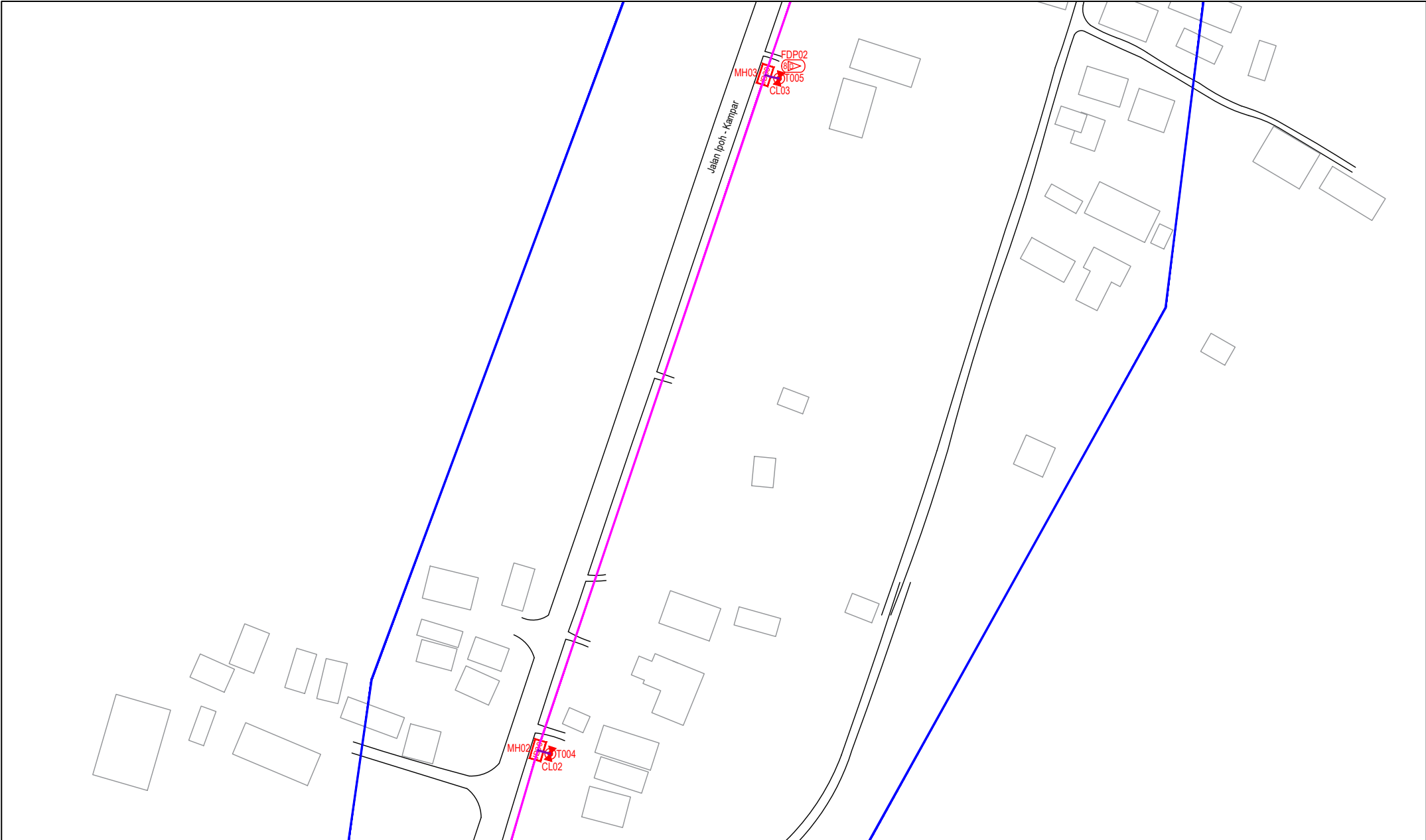
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ABA9002
SEKOLAH KEBANGSAAN GUNUNG PANJANG

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Design By : ENGINEER	Date : NOV 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
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DRAWING NUMBER : ABA9002-ABD-01A	Sheet : 2/9
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12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		EB30 New Manhole (PIT)	10	Micro-Trenching (Meter)		MH1 MH NO.	
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		EB7 New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1 Existing TNB Pole NO.	
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		P001 New Pole NO.	
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13	HDD (Meter)	2130	# 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
12th FLOOR, MENARA HAP SENG,
50250 JALAN P. RAMLEE
KUALA LUMPUR

MAIN CONTRACTOR :

WCWL COMMUNICATIONS SDN BHD
127, JALAN PUN 3/2, TAMAN PUNCAK JAYA,
BANDAR PUNTA PERAH,
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 5085 0983
E-MAIL: info@wcwlcommunications.com.my

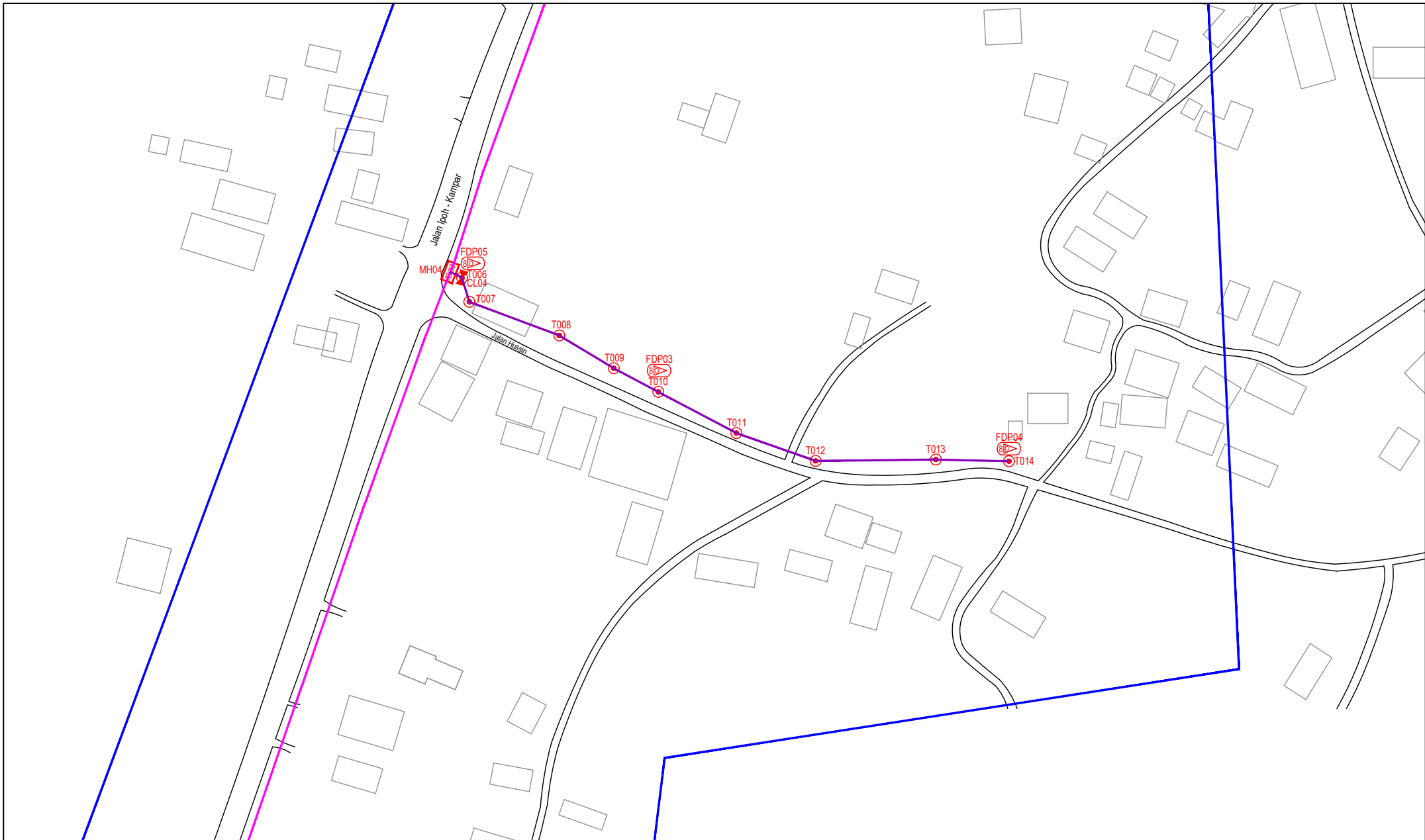
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12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		MS30 New Manhole (PIT)	10	Micro-Trenching (Meter)		MH1 MH NO.
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		MS7 New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1 Existing TNB Pole NO.
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		P001 New Pole NO.
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13	HDD (Meter)	2130	# 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 :

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POP2 PROJECT IN PERAK

OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA MAP SENANG,
50200 JALAN P. MANJE,
KUALA LUMPUR

WCWL COMMUNICATIONS SDN BHD
127, JALAN PUNJ 3/2, TAMAN PUNJUK JALIL,
BANDAR PUNJUK PERANG,
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 5808 5983
E-MAIL: info@wcwlcommunications.com.my

MAIN CONTRACTOR :

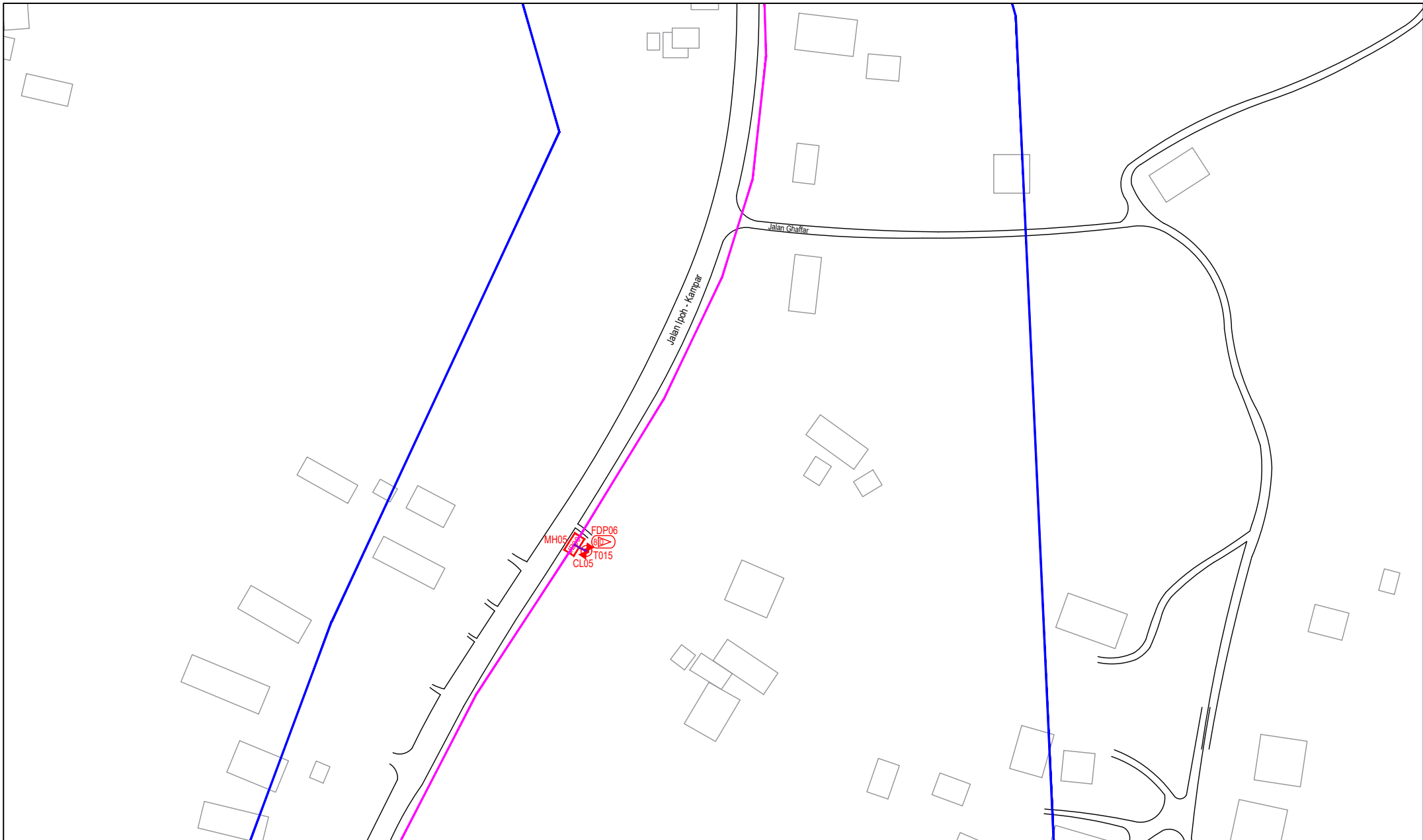
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ABA9002
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Design By : ENGINEER	Date : NOV 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
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DRAWING NUMBER : ABA9002-ABD-01C	Sheet : 4/9
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Size : A3	



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12C FOC		Installed 1:4 / 1:8 / 1:32 splitter		Installed Pole (9m)		Suspension		EB30 New Manhole (PIT)	10	Micro-Trenching (Meter)		MH1 MH NO.
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		EB7 New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1 Existing TNB Pole NO.
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		P001 New Pole NO.
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13	HDD (Meter)	2130	Active Outdoor Cabinet		CL01 Closure NO.
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)		FDC NO.		DP1 FDP NO.

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KEY PLAN :

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OWNER/DEVELOPER :

APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA HAP SENG,
50250 JALAN P. RAJEE
KUALA LUMPUR

WCWL COMMUNICATIONS SDN BHD
127, JALAN PUN 3/2, TAMAN PUNCAK JAYA,
BANDAR PUNCAK PERAH,
43300 SERI KEMBANGAN, SELANGOR
TEL: +603 5088 0983
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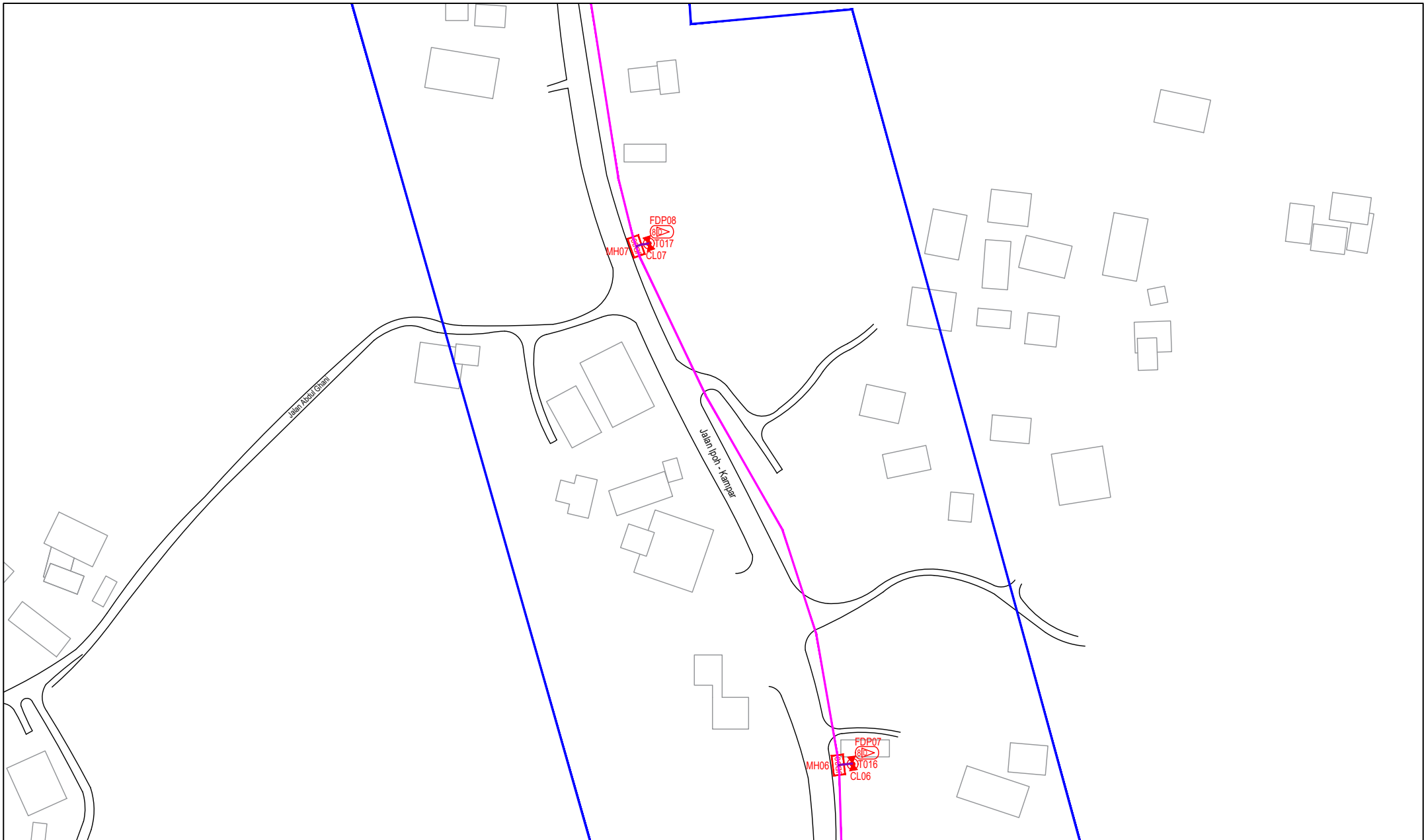
MAIN CONTRACTOR :

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

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABA9002
SEKOLAH KEBANGSAAN GUNUNG PANJANG

PROJECT PHASE:
POP 2

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Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA9002-ABD-01D	Sheet : 5/9
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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		EB30	New Manhole (PIT)	10	Micro-Trenching (Meter)		MH1	MH NO.
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		EB7	New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1	Existing TNB Pole NO.
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring			FDP Boundary		Loop / Coil (Meter)		P001	New Pole NO.
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13		HDD (Meter)	2130	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 :

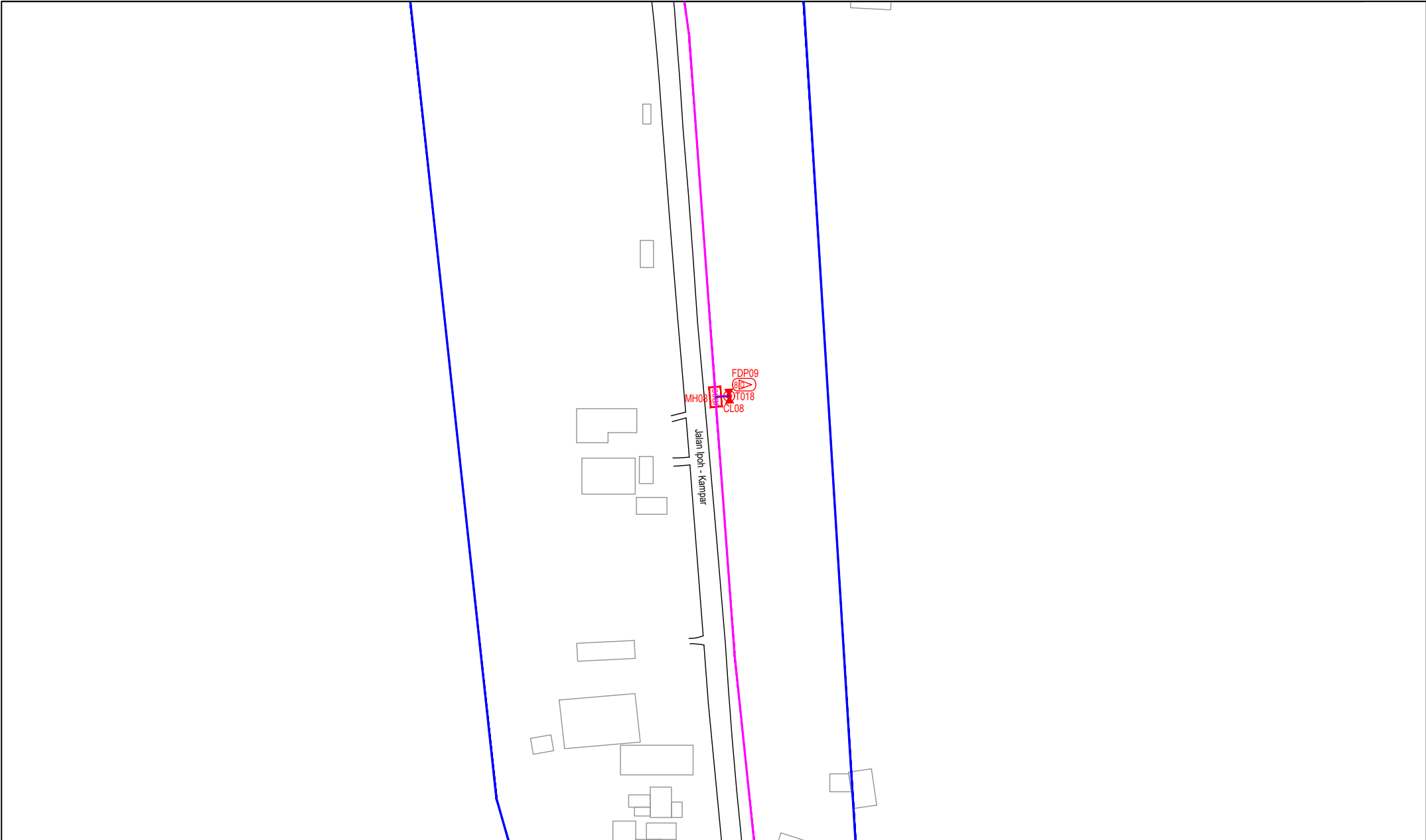
CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

PROJECT TITLE :

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABA9002
SEKOLAH KEBANGSAAN GUNUNG PANJANG

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : NOV 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
DRAWING NUMBER : ABA9002-ABD-01E	Sheet : 6/9
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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 (PT)	10
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		New Manhole(JRC7)	
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary	
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13	HDD (Meter)	2130
144C FOC		Existing Closure		Installed Riser		Existing Manhole		Open Cut (Meter)	
								Micro-Trenching (Meter)	
								Temporary Infra (Meter)	
								Loop / Coil (Meter)	
								Active Outdoor Cabinet	
								FDC NO.	
								MH1	MH NO.
								TKS-1	Existing TNB Pole NO.
								P001	New Pole NO.
								CL01	Closure NO.
								DP1	FDP NO.

ACTUAL HOMEPASS :

KEY PLAN :

POP2 PROJECT IN PERAK

OWNER/DEVELOPER :



APEX COMMUNICATIONS SDN BHD
12th FLOOR, MENARA MAP SENG,
50250 JALAN P. RAJALEA
KUALA LUMPUR

MAIN CONTRACTOR :



WCWL COMMUNICATIONS SDN BHD
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PROJECT TITLE :

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

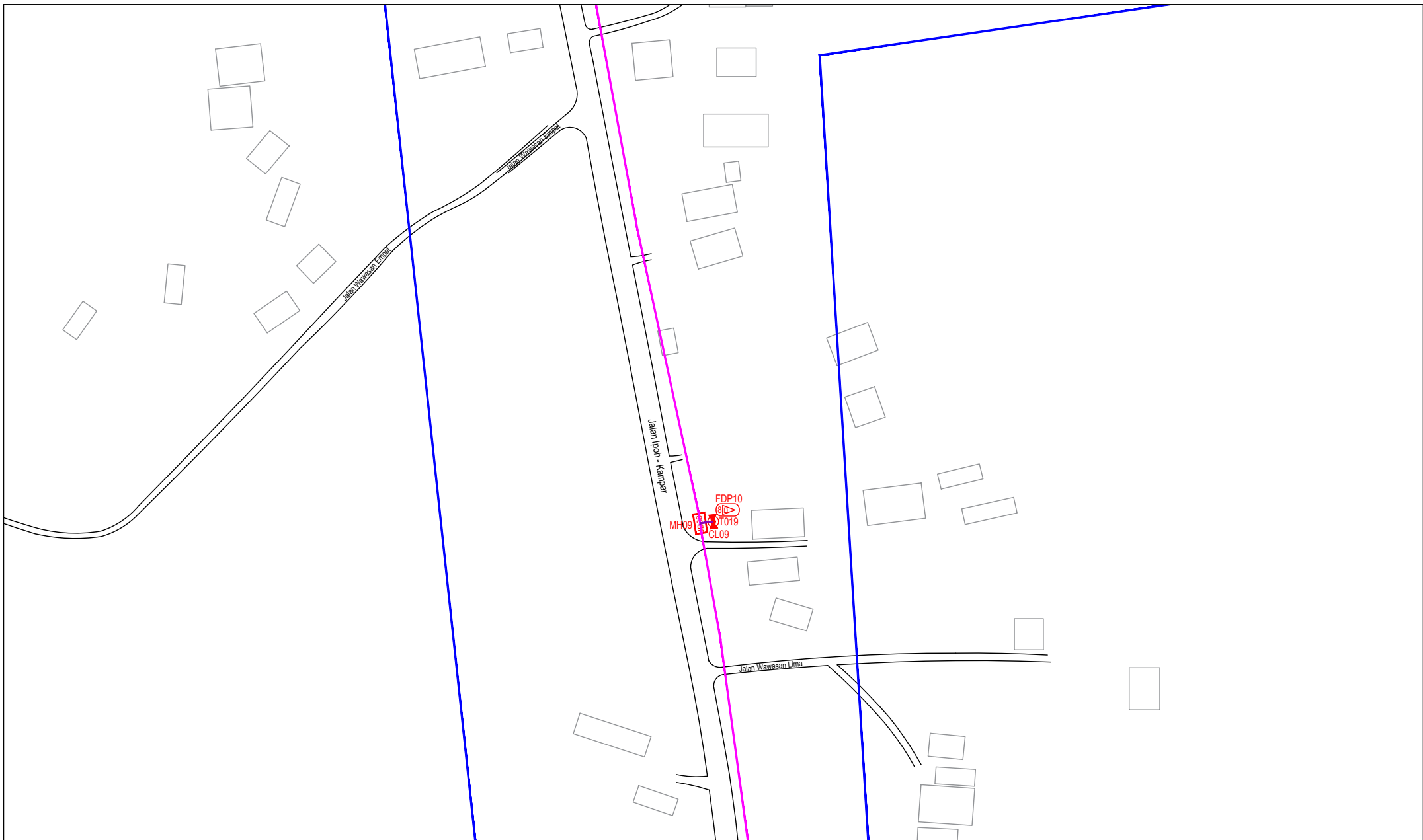
DRAWING TITLE:

AS-BUILT SITE PLAN DRAWING
ABA9002
SEKOLAH KEBANGSAAN GUNUNG PANJANG

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : NOV 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
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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)	3	Suspension		EB30 New Manhole (PIT)	10	Micro-Trenching (Meter)		MH1 MH NO.
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		EB7 New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1 Existing TNB Pole NO.
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		P001 New Pole NO.
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13	HDD (Meter)	2130	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 MAP SENANG,
50200 JALAN P. PINALE
KUALA LUMPUR

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MAIN CONTRACTOR :

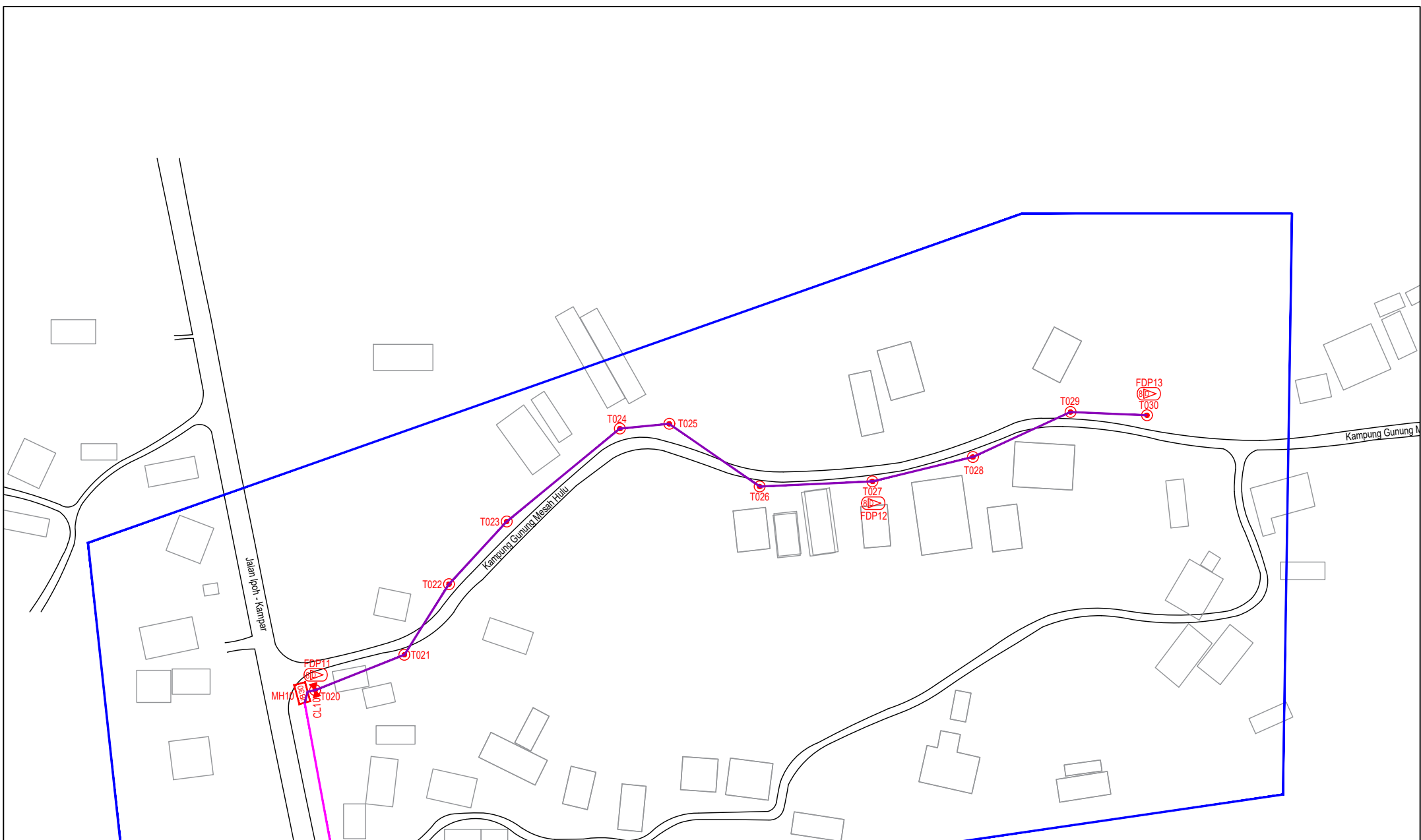
CONTRACTOR FOR SURVEY, TECHNICAL PROPOSAL AND WAYLEAVE, & PERMIT APPROVAL - POP2 PROJECT

PROJECT TITLE :

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABA9002
SEKOLAH KEBANGSAAN GUNUNG PANJANG

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : NOV 2024
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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)	10	Micro-Trenching (Meter)		MH1 MH NO.
24C FOC		Installed Patch Cord		Installed Pole (7.5M)	31	Tension		ES7 New Manhole(JRC7)		Temporary Infra (Meter)		TKS-1 Existing TNB Pole NO.
48C FOC	2810	FDC	1	Installed Pole (6.7M)		Pole Ring		FDP Boundary		Loop / Coil (Meter)		P001 New Pole NO.
96C FOC		Closure	10	Existing TNB Pole		FDP with (1:8) splitter	13	HDD (Meter)	2130	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 :

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

DRAWING TITLE:
AS-BUILT SITE PLAN DRAWING
ABA9002
SEKOLAH KEBANGSAAN GUNUNG PANJANG

PROJECT PHASE:
POP 2

Design By : ENGINEER	Date : NOV 2024
Drawn By : CAD ENGINEER	Scale : NOT TO SCALE
Checked By : ENGINEER	Job Number : 1
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