

TECHNICAL PROPOSAL

POP2 ABAB019 SEKOLAH KEBANGSAAN SUNGAI NIPAH (D-SIDE)

Company Name : KNZ ENGINEERING SDN BHD.
Company Address : NO 60 & 60 A JALAN KLEBANG INDAH 1 MEDAN KLEBANG INDAH 30010 IPOH PERAK
Prepared By : FARHAH AFIQAH BINTI AMDON
Date : 28/11/2024



Starting Point

Site / Boundary Name : Bagan Datok
Address : SK Sungai Nipah, 36100 Bagan Datok
District : Bagan Datok
Postcode : 36100
State : Perak
GPS Coordinate : 3.98156451992691, 100.74425926432
LRD : A

End Point

Site / Boundary Name : Bagan Datok
Address : Berhadapan Surau Al-Bahriah, 36100 Bagan Datuk, Teluk Intan
District : Bagan Datok
Postcode : 36100
State : Perak
GPS Coordinate : 3.987986901775, 100.76480364427
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))



1.0 WORK SUMMARY

NO	PROPOSED DISTANCE AND METHOD	UNIT	QUANTITY
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

NO	OTHER INFORMATION	UNIT	QUANTITY
1	Installation of Short Span ADSS Fibre Cables	m	5,117
2	Install New Pole	ea	115
3	Install New JRC7 Manhole	ea	0
4	Install GI Riser 100mm	ea	0
5	Install Fiber Distribution Point	ea	13
6	Install Closure	ea	2
7	Estimated Time Required for Completion	days	30

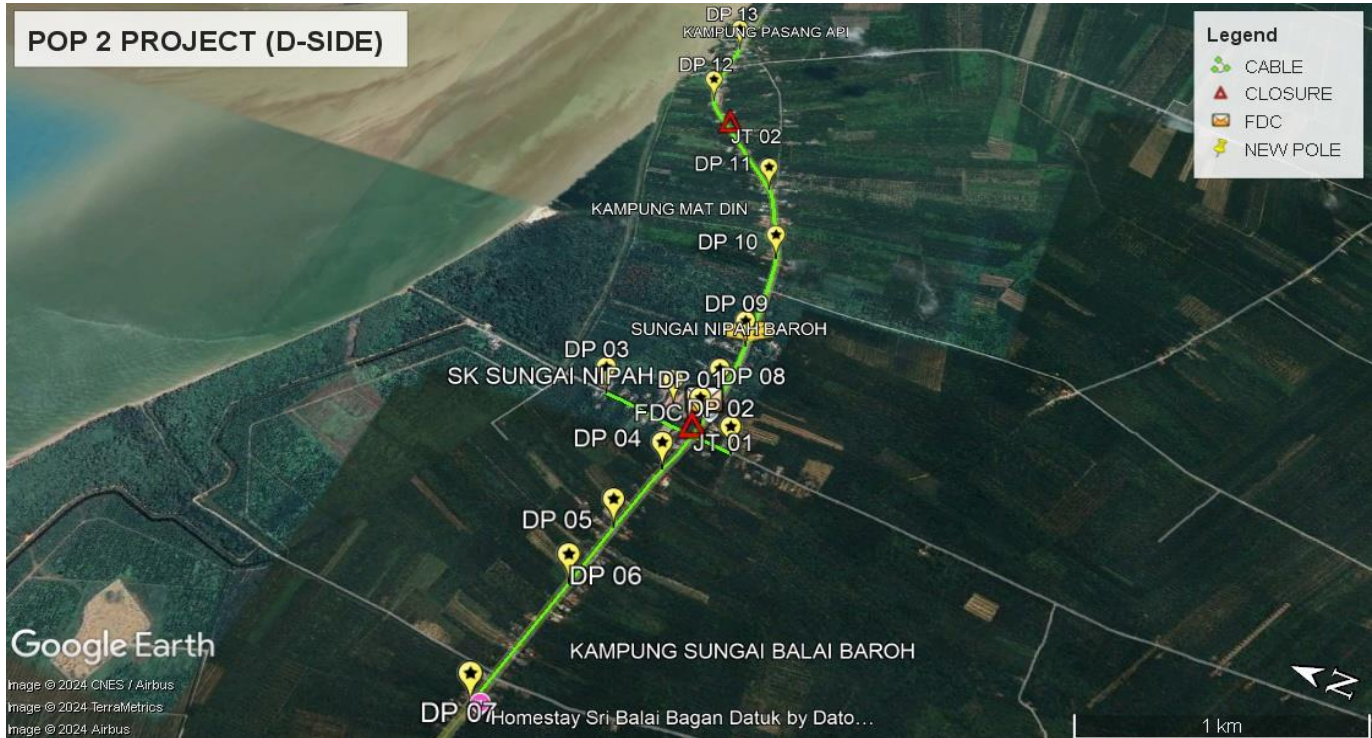
2.0 LOCAL AUTHORITY SUMMARY

Daerah Bagan Datuk

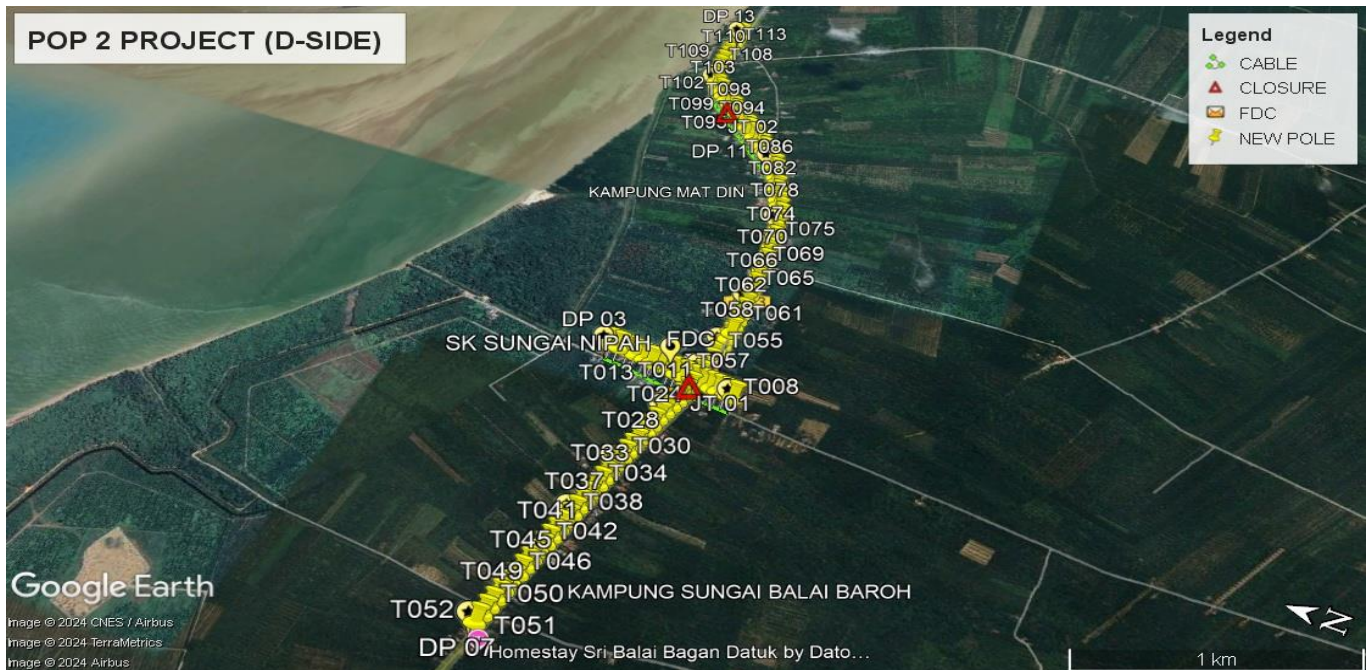
Bil	Items	Owner	Quantity	Distance
1	HDD	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
2	New Pole	JKR	100	3,950m
		Majlis	15	490m
		Estate / Private Land	-	-
3	Existing TNB Pole	JKR	-	-
		Majlis	-	-
		Estate / Private Land	-	-
Total				4,440m

Site Plan -KMZ (Overview site area)

Proposed FDP and Closure



Proposed New Pole



Site Plan - KMZ Routing (All Local Authority)

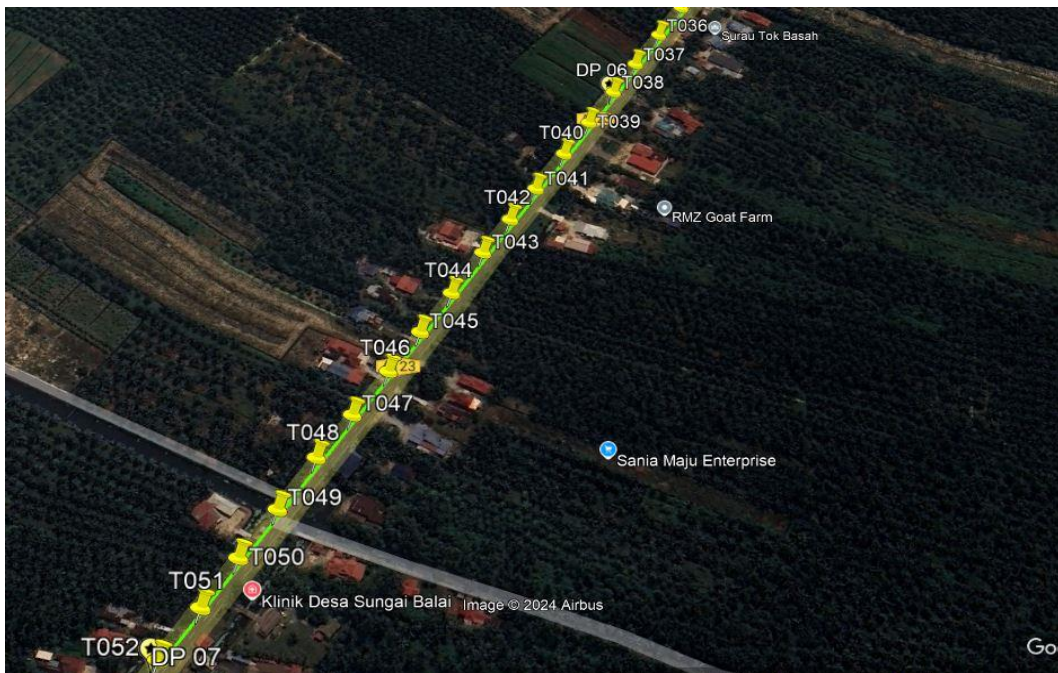
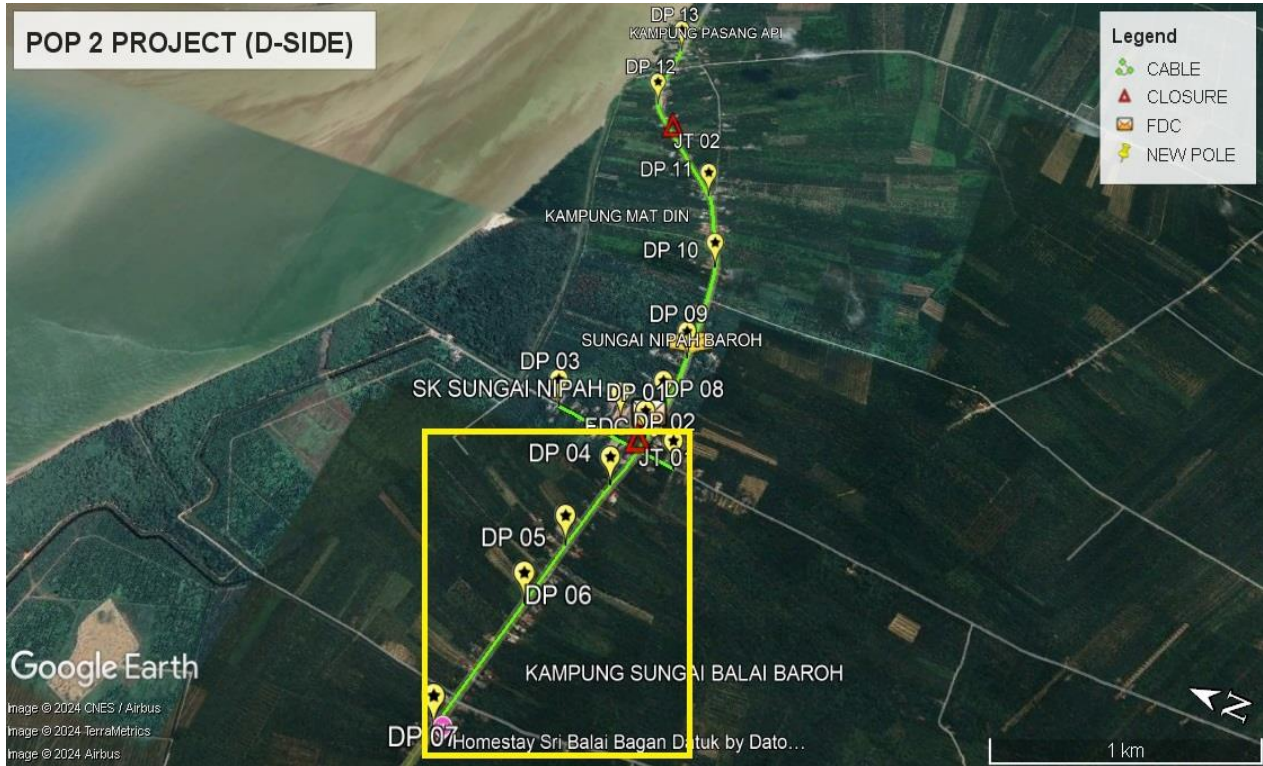


Red Colour – JKR Road

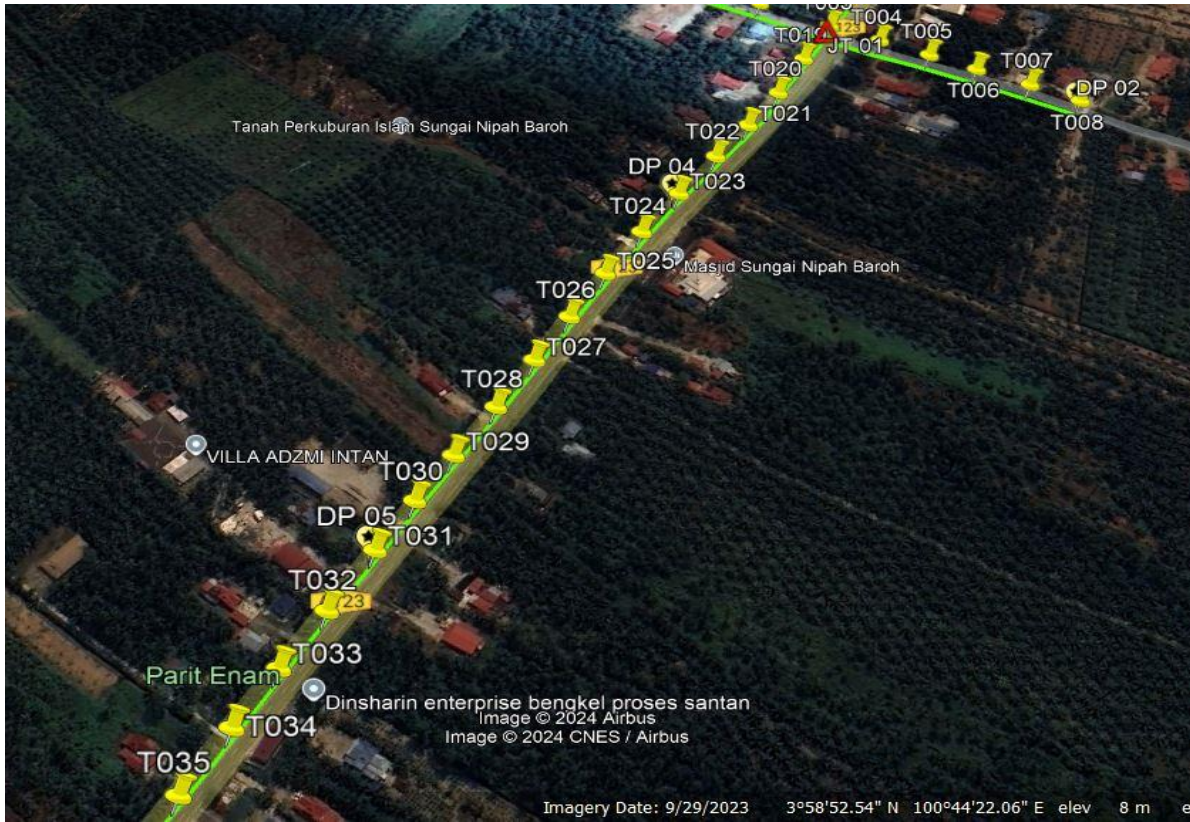
Blue Colour - Majlis Road

Site Plan – KMZ Routing (All site area)

Route 1

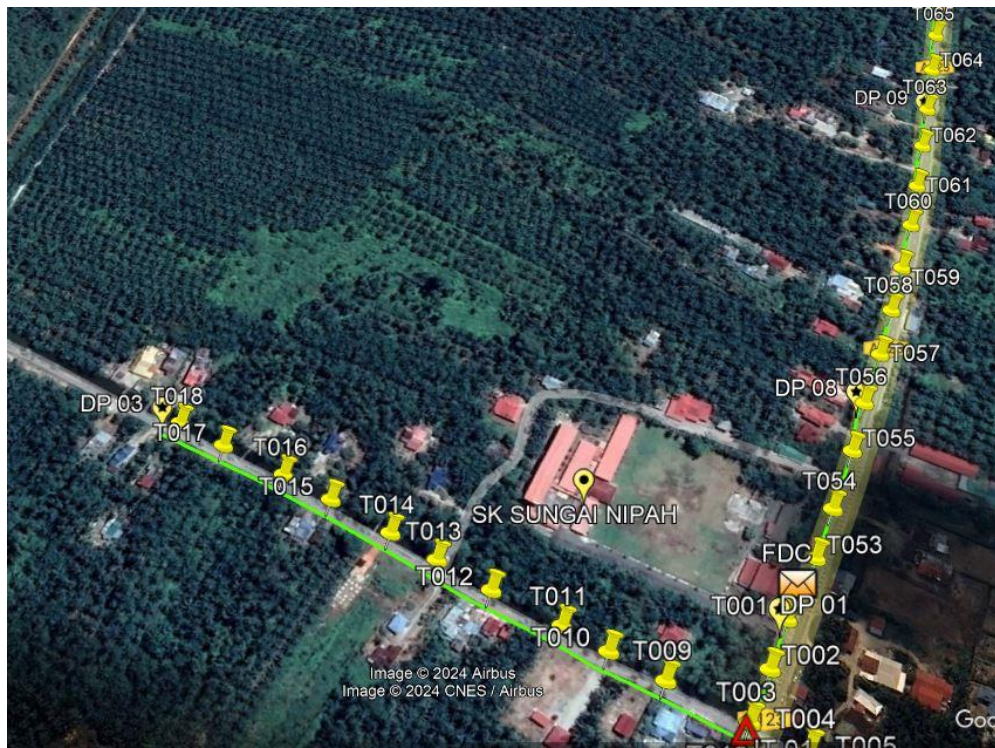
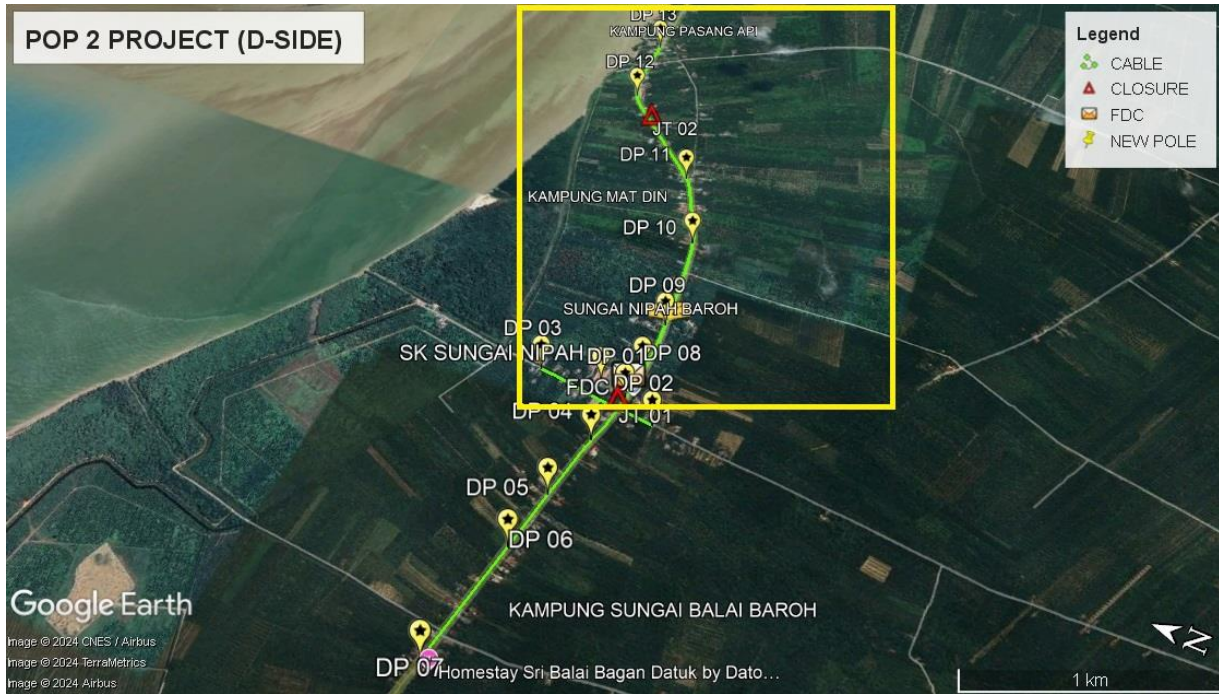


Route 1.1

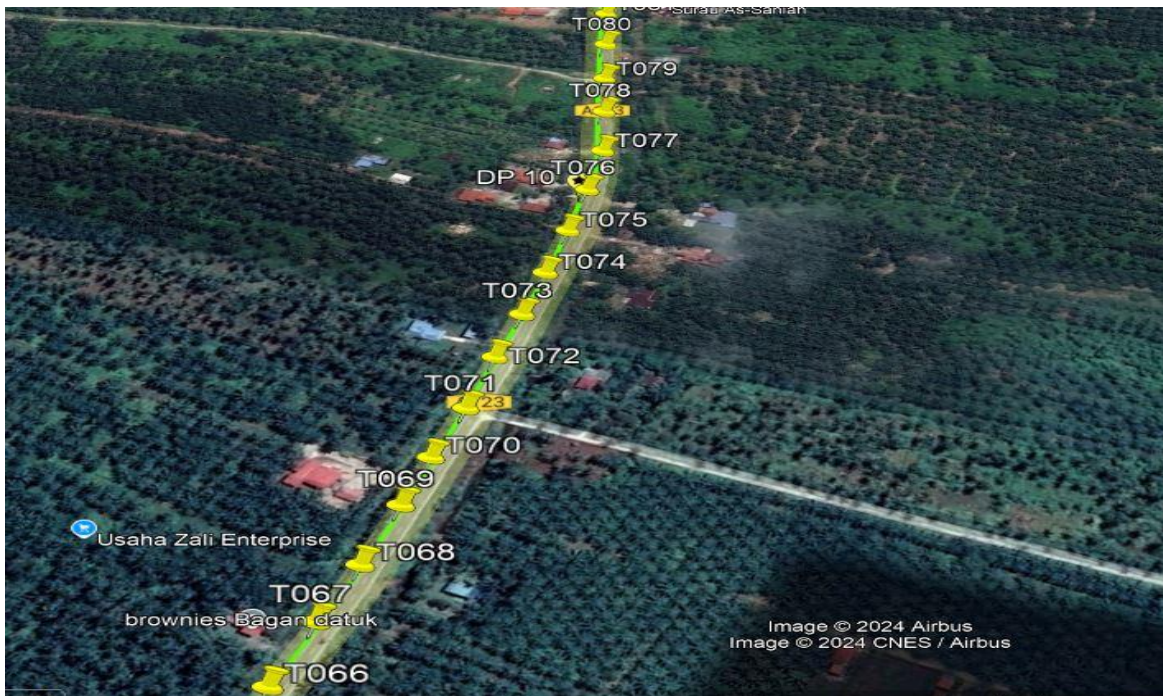


Route 1.2

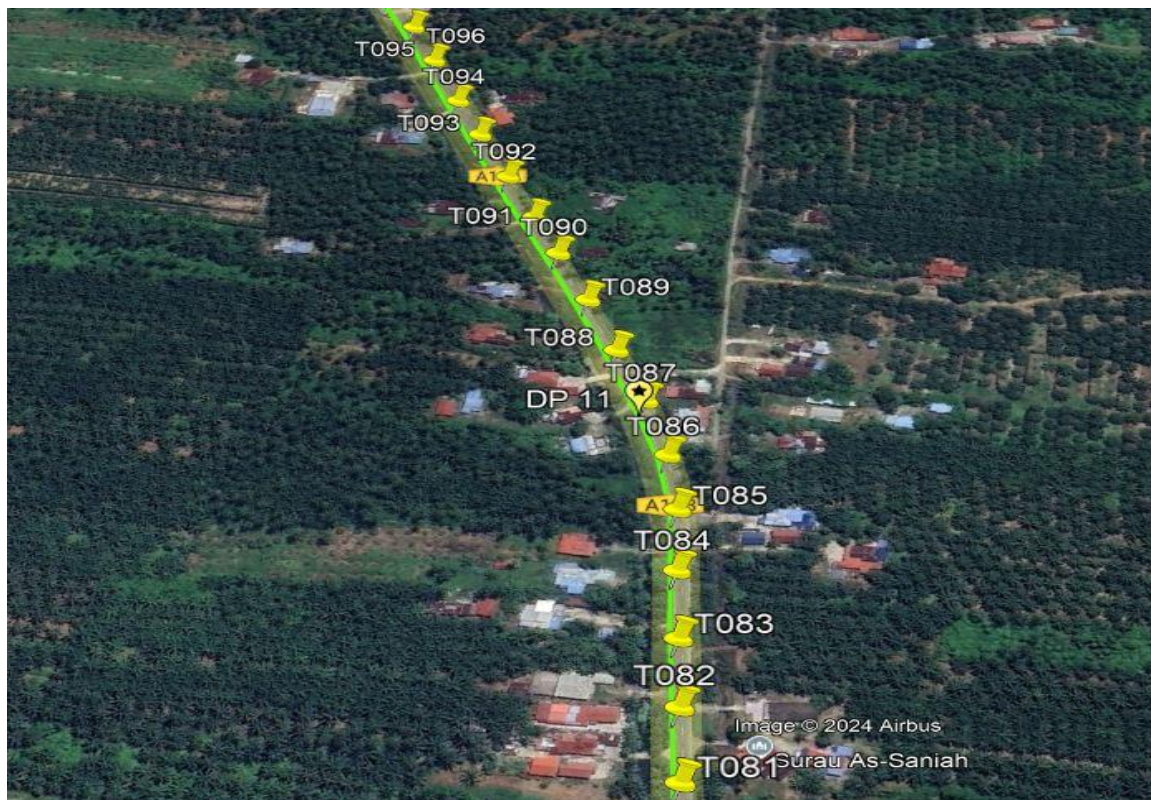
Route 2



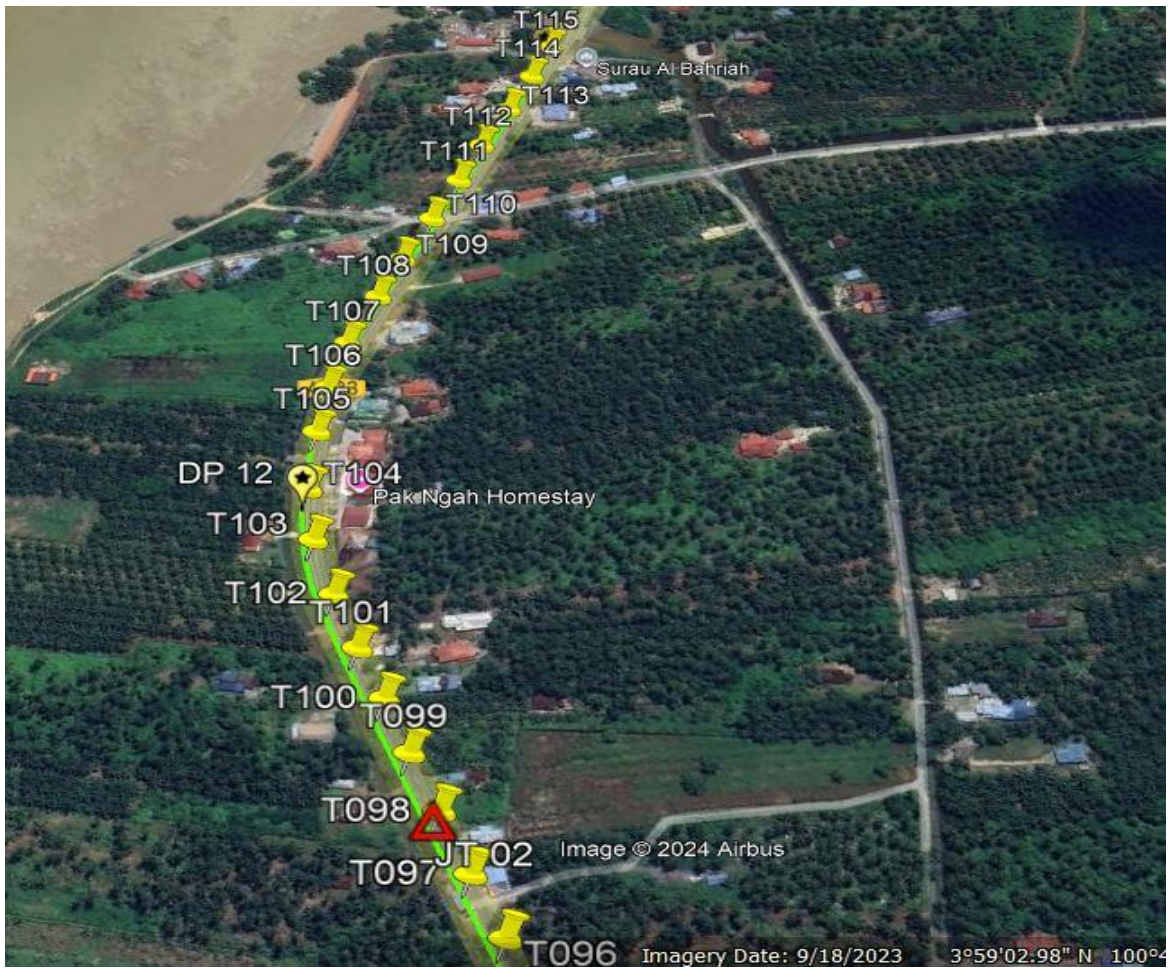
Route 2.1



Route 2.2



Route 2.3



Route 2.4

3.0 PROPOSED NEW POLE

Proposed New Pole Coordinate					
No.	Pole Number	Distance (m)	Latitude	Longitude	Local Authority
1	T001	40	3.981565	100.7442593	JKR Hilir Perak
2	T002	40	3.981597	100.7439545	JKR Hilir Perak
3	T003	40	3.981639	100.7436403	JKR Hilir Perak
4	T004	40	3.981323	100.7436115	Majlis Perbandaran Teluk Intan
5	T005	40	3.98101	100.743579	Majlis Perbandaran Teluk Intan
6	T006	40	3.980718	100.7435361	Majlis Perbandaran Teluk Intan
7	T007	40	3.980395	100.7434911	Majlis Perbandaran Teluk Intan
8	T008	40	3.980092	100.7434502	Majlis Perbandaran Teluk Intan
9	T009	40	3.982101	100.7437037	Majlis Perbandaran Teluk Intan
10	T010	40	3.982425	100.7437513	Majlis Perbandaran Teluk Intan
11	T011	40	3.9827	100.7438016	Majlis Perbandaran Teluk Intan
12	T012	40	3.983123	100.7438613	Majlis Perbandaran Teluk Intan
13	T013	40	3.983461	100.7439196	Majlis Perbandaran Teluk Intan
14	T014	40	3.983761	100.7439817	Majlis Perbandaran Teluk Intan
15	T015	40	3.984157	100.7440594	Majlis Perbandaran Teluk Intan
16	T016	40	3.984474	100.7441104	Majlis Perbandaran Teluk Intan
17	T017	40	3.984884	100.7441657	Majlis Perbandaran Teluk Intan
18	T018	40	3.985193	100.744218	Majlis Perbandaran Teluk Intan
19	T019	40	3.981706	100.7432752	JKR Hilir Perak
20	T020	40	3.981765	100.7429188	JKR Hilir Perak
21	T021	40	3.981851	100.7425846	JKR Hilir Perak
22	T022	40	3.981948	100.7422667	JKR Hilir Perak
23	T023	40	3.982055	100.7419164	JKR Hilir Perak
24	T024	40	3.98215	100.7415425	JKR Hilir Perak
25	T025	40	3.982232	100.7411781	JKR Hilir Perak
26	T026	40	3.982307	100.7408227	JKR Hilir Perak

3.0 PROPOSED NEW POLE

Proposed New Pole Coordinate					
No.	Pole Number	Distance (m)	Latitude	Longitude	Local Authority
27	T027	40	3.982375	100.7404841	JKR Hilir Perak
28	T028	40	3.982445	100.740124	JKR Hilir Perak
29	T029	40	3.982524	100.7397615	JKR Hilir Perak
30	T030	40	3.982588	100.739433	JKR Hilir Perak
31	T031	40	3.982646	100.7391	JKR Hilir Perak
32	T032	40	3.982714	100.7387158	JKR Hilir Perak
33	T033	40	3.982784	100.7383651	JKR Hilir Perak
34	T034	40	3.982846	100.7380278	JKR Hilir Perak
35	T035	40	3.982914	100.737662	JKR Hilir Perak
36	T036	40	3.982987	100.7373026	JKR Hilir Perak
37	T037	40	3.983059	100.7369355	JKR Hilir Perak
38	T038	40	3.983122	100.7365965	JKR Hilir Perak
39	T039	40	3.983193	100.7362418	JKR Hilir Perak
40	T040	40	3.98326	100.7358894	JKR Hilir Perak
41	T041	40	3.983331	100.7355005	JKR Hilir Perak
42	T042	40	3.983396	100.7351729	JKR Hilir Perak
43	T043	40	3.983465	100.7348444	JKR Hilir Perak
44	T044	40	3.98354	100.7344752	JKR Hilir Perak
45	T045	40	3.983611	100.7341198	JKR Hilir Perak
46	T046	40	3.983678	100.7337718	JKR Hilir Perak
47	T047	40	3.983751	100.7334007	JKR Hilir Perak
48	T048	40	3.983823	100.7330553	JKR Hilir Perak
49	T049	40	3.983888	100.7326711	JKR Hilir Perak
50	T050	40	3.983955	100.7323204	JKR Hilir Perak
51	T051	40	3.984011	100.7319835	JKR Hilir Perak
52	T052	40	3.984085	100.7316415	JKR Hilir Perak
53	T053	40	3.98148	100.7446713	JKR Hilir Perak

3.0 PROPOSED NEW POLE

Proposed New Pole Coordinate					
No.	Pole Number	Distance (m)	Latitude	Longitude	Local Authority
54	T054	40	3.981445	100.7450019	JKR Hilir Perak
55	T055	40	3.981406	100.7454062	JKR Hilir Perak
56	T056	40	3.981392	100.7457522	JKR Hilir Perak
57	T057	40	3.98136	100.7461244	JKR Hilir Perak
58	T058	40	3.981347	100.7464721	JKR Hilir Perak
59	T059	40	3.981334	100.7468231	JKR Hilir Perak
60	T060	40	3.981331	100.7471882	JKR Hilir Perak
61	T061	40	3.981339	100.7475436	JKR Hilir Perak
62	T062	40	3.981357	100.7479094	JKR Hilir Perak
63	T063	40	3.981374	100.7482541	JKR Hilir Perak
64	T064	40	3.981398	100.7486413	JKR Hilir Perak
65	T065	40	3.981421	100.7489987	JKR Hilir Perak
66	T066	40	3.981445	100.749338	JKR Hilir Perak
67	T067	40	3.981472	100.7497202	JKR Hilir Perak
68	T068	40	3.981488	100.7500797	JKR Hilir Perak
69	T069	40	3.981523	100.7504696	JKR Hilir Perak
70	T070	40	3.981562	100.7507951	JKR Hilir Perak
71	T071	40	3.981586	100.7511542	JKR Hilir Perak
72	T072	40	3.981639	100.7515321	JKR Hilir Perak
73	T073	40	3.981672	100.7518684	JKR Hilir Perak
74	T074	40	3.98172	100.7522066	JKR Hilir Perak
75	T075	40	3.981778	100.7525671	JKR Hilir Perak
76	T076	40	3.981852	100.7529355	JKR Hilir Perak
77	T077	40	3.981936	100.753295	JKR Hilir Perak
78	T078	40	3.982089	100.753644	JKR Hilir Perak
79	T079	40	3.982224	100.7539474	JKR Hilir Perak
80	T080	40	3.982371	100.7542817	JKR Hilir Perak

3.0 PROPOSED NEW POLE

Proposed New Pole Coordinate					
No.	Pole Number	Distance (m)	Latitude	Longitude	Local Authority
81	T081	40	3.982516	100.7546019	JKR Hilir Perak
82	T082	40	3.982661	100.7549408	JKR Hilir Perak
83	T083	40	3.982803	100.7552681	JKR Hilir Perak
84	T084	40	3.982952	100.7556094	JKR Hilir Perak
85	T085	40	3.983089	100.7559379	JKR Hilir Perak
86	T086	40	3.983257	100.756232	JKR Hilir Perak
87	T087	40	3.983486	100.7565237	JKR Hilir Perak
88	T088	40	3.983739	100.7567899	JKR Hilir Perak
89	T089	40	3.984002	100.7570688	JKR Hilir Perak
90	T090	40	3.984273	100.757336	JKR Hilir Perak
91	T091	40	3.9845	100.757557	JKR Hilir Perak
92	T092	40	3.984759	100.7578105	JKR Hilir Perak
93	T093	40	3.985035	100.7580733	JKR Hilir Perak
94	T094	40	3.985268	100.7582979	JKR Hilir Perak
95	T095	40	3.98554	100.7585779	JKR Hilir Perak
96	T096	40	3.985781	100.7588213	JKR Hilir Perak
97	T097	40	3.986049	100.7590714	JKR Hilir Perak
98	T098	40	3.986313	100.7593346	JKR Hilir Perak
99	T099	40	3.986574	100.7595878	JKR Hilir Perak
100	T100	40	3.986811	100.7598349	JKR Hilir Perak
101	T101	40	3.987054	100.7600662	JKR Hilir Perak
102	T102	40	3.987303	100.7603337	JKR Hilir Perak
103	T103	40	3.987555	100.7606281	JKR Hilir Perak
104	T104	40	3.987735	100.7609349	JKR Hilir Perak
105	T105	40	3.987867	100.7613134	JKR Hilir Perak
106	T106	40	3.98795	100.7616236	JKR Hilir Perak
107	T107	40	3.987999	100.7619665	JKR Hilir Perak



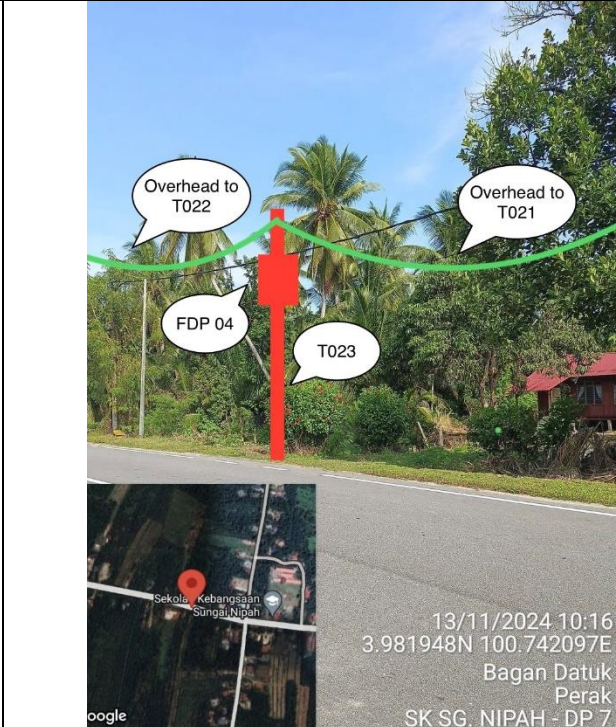
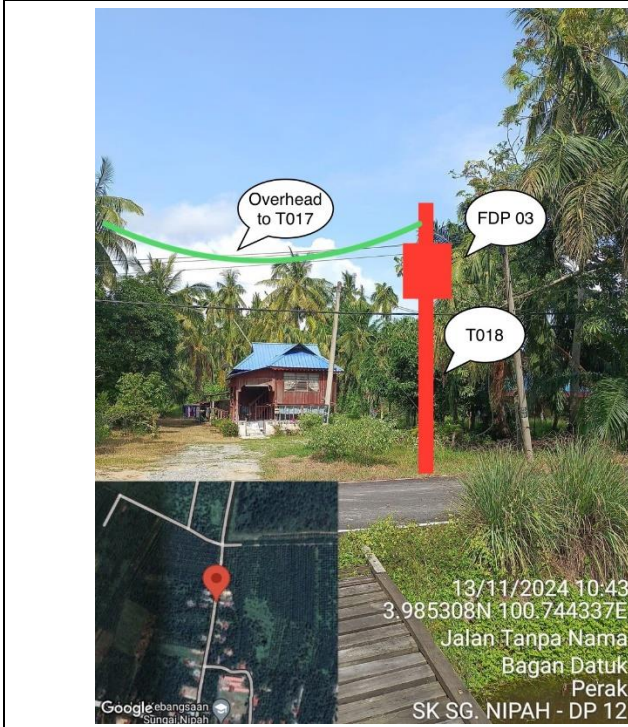
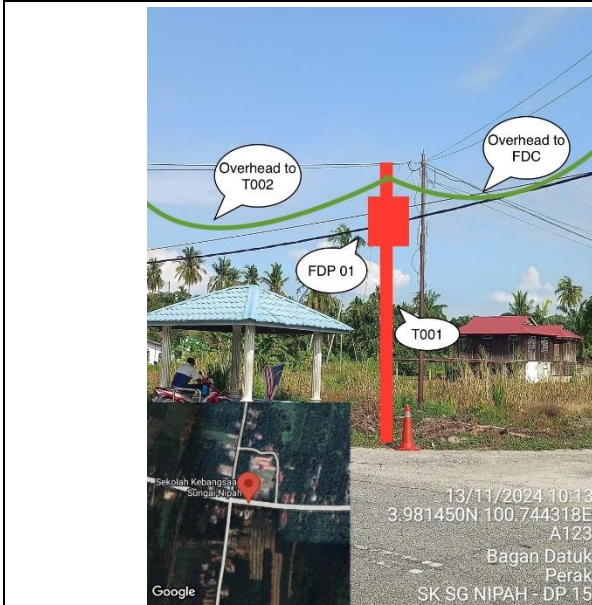
PROJEK PENYEDIAAN DAN PENYELENGGARAAN POINT OF PRESENCE (POP) FASA 2: HAB INFRASTRUKTUR GENTIAN OPTIK BERHAMPIRAN DENGAN SEKOLAH, KAWASAN PERINDUSTRIAN, PREMIS KERAJAAN DAN KOMUNITI SEKITARNYA OLEH KEMENTERIAN KOMUNIKASI MALAYSIA – ZON UTARA (KKMM.400-11/17/132(1))



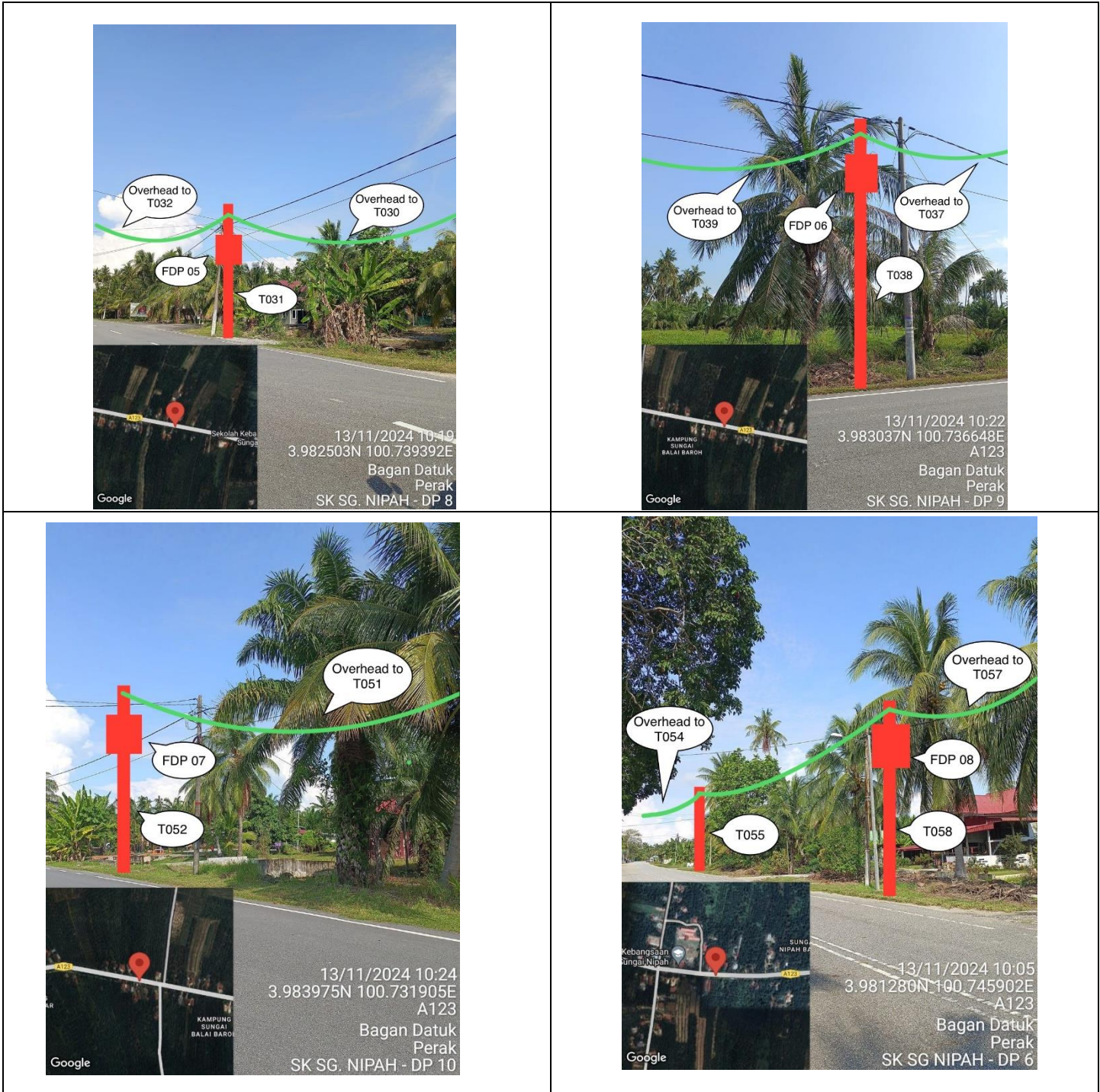
3.0 PROPOSED NEW POLE

Proposed New Pole Coordinate					
No.	Pole Number	Distance (m)	Latitude	Longitude	Local Authority
108	T108	40	3.988004	100.7623605	JKR Hilir Perak
109	T109	40	3.988012	100.7626921	JKR Hilir Perak
110	T110	40	3.988002	100.7630693	JKR Hilir Perak
111	T111	40	3.987996	100.7634337	JKR Hilir Perak
112	T112	40	3.987999	100.7637733	JKR Hilir Perak
113	T113	40	3.987983	100.7641458	JKR Hilir Perak
114	T114	40	3.987979	100.7644875	JKR Hilir Perak
115	T115	40	3.987987	100.7648036	JKR Hilir Perak

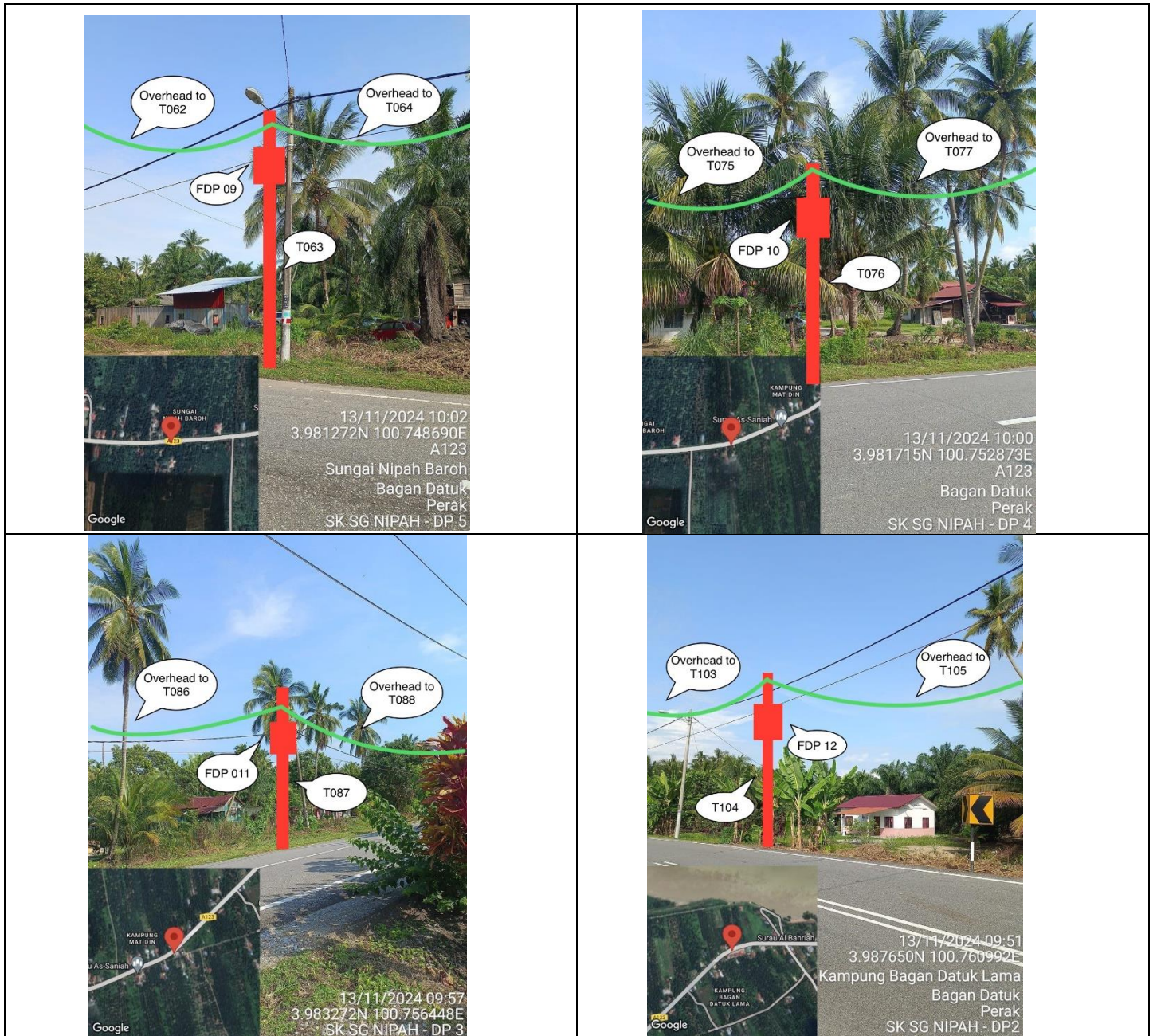
4.0 SITE PHOTOS - PROPOSED NEW POLE



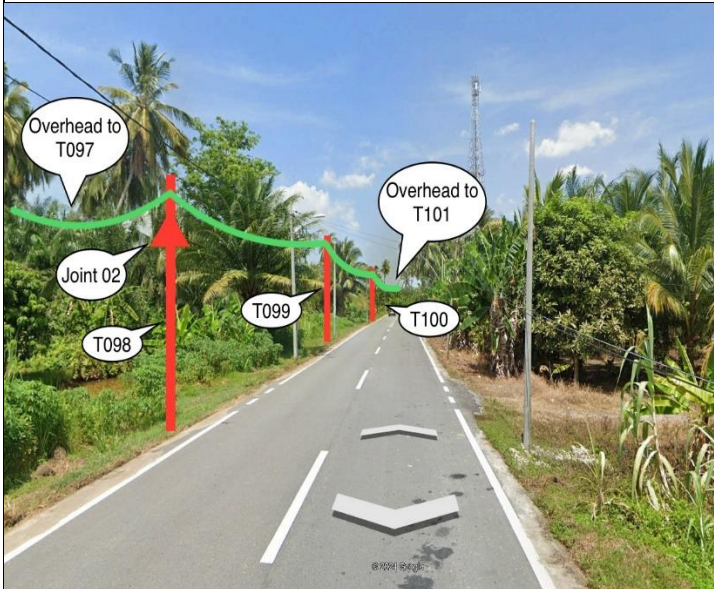
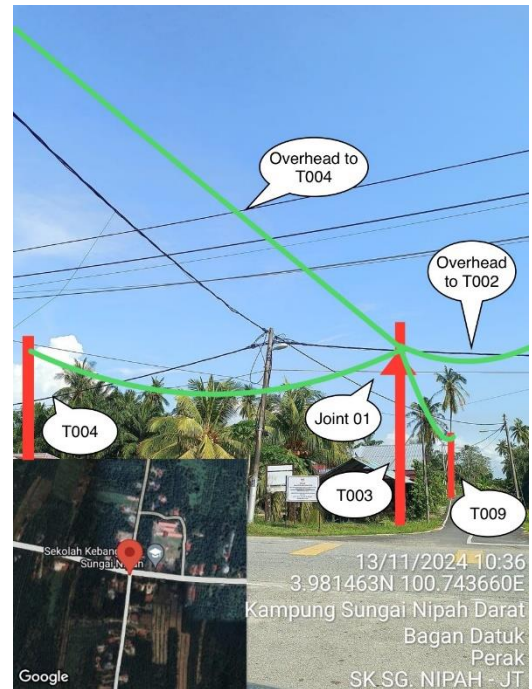
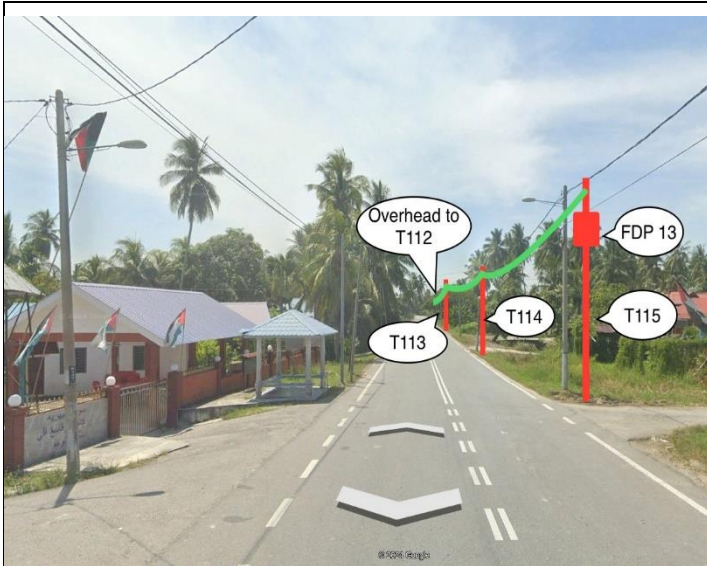
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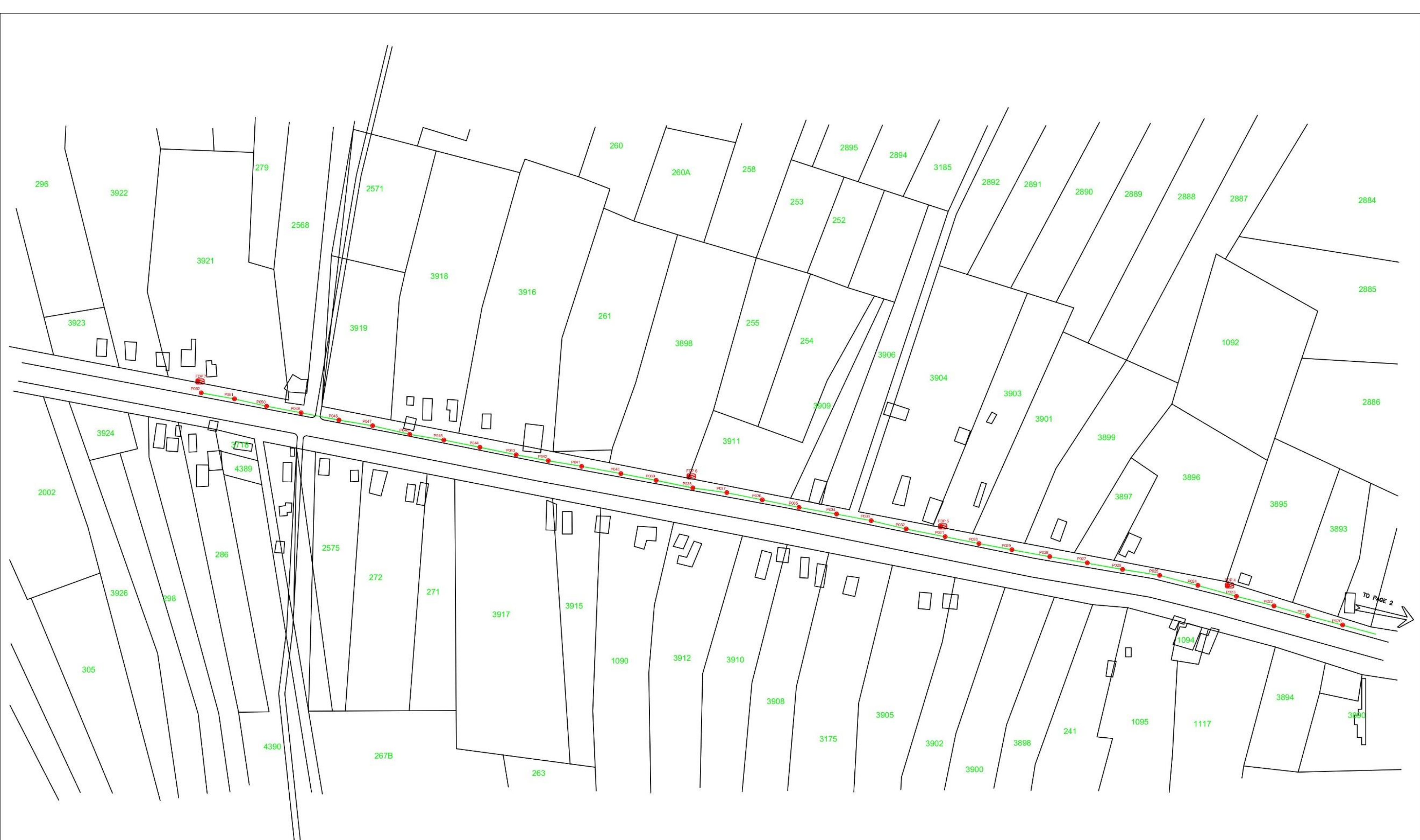
4.0 SITE PHOTOS - PROPOSED NEW POLE



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5.0 3rd PARTIES DEPENDENCIES

NO	LOCAL COUNCIL / AUTHORITY	REMARK
1	Majlis Perbandaran Teluk Intan	490m
2	JKR Hilir Perak	3,950m



LEGEND		NEW MANHOLE		TENSION SMALL / TENSION BIG		MH NO.	
12C FOC	Installed 1:4 splitter in FDC	●	NEW MANHOLE	TS / TB	TENSION SMALL / TENSION BIG	MH1	MH NO.
24C FOC	FDP	○	HOUSE NUMBER	TKS-1	EXISTING MANHOLE	TKS-1	EXISTING TNB POLE NO.
48C FOC	CLOSURE	⊗	EXISTING ALLO POLE	PKB1	CLOSURE NO.	PKB1	NEW POLE NO.
90C FOC	NEW MANHOLE (PIT)	⊕	LOOP	FDP1	FDP NO.	⊕	SEE SHEET XXXX
144C FOC	INSTALLED POLE	⊗	FDP BOUNDARY	FDC	FDC NO.	⊗	SEE SHEET XXXX

KEY PLAN

PROJECT OWNER

KEMENTERIAN KOMUNIKASI DAN DIGITAL

MAIN CONTRACTOR

PRIVASAT

SUB-CONTRACTOR

KNZ Engineering

KNZ ENGINEERING SDN BHD
 NO. 60 & 60A, Jalan Klebang Indah 1, Medan Klebang Indah, 30100 Ipoh, Perak
 No Tel: 019-3695071
 Email: admin@knzengineering.com.my
 Website: www.knzengineering.com.my

PROJECT TITLE

SEKOLAH KEBANGSAAN SUNGAI NIPAH

DRAWING TITLE

TP DRAWING POP 2 AT SEKOLAH KEBANGSAAN SUNGAI NIPAH

PROJECT PHASE

PROJECT PHASE 2

DESIGN BY	NABIL	DATE	15/11/2024
DRAWN BY	NABIL	SCALE	NOT TO SCALE
CHECKED BY	AZHAN HARIS	JOB NUMBER	15/11/2024
DRAWING NUMBER	15/11/2024		1/3
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			A3



LEGEND	12C FDC	24C FDC	48C FDC	90C FDC	144C FDC	Installed 1:4 splitter in FDC	FDP	CLOSURE	NEW MANHOLE (PIT)	INSTALLED POLE	NEW MANHOLE	HOUSE NUMBER	EXISTING ALLO POLE	LOOP	FDP BOUNDARY	TENSION SMALL / TENSION BIG	EXISTING MANHOLE	CLOSURE NO.	FDP NO.	FDC NO.	MH NO.	EXISTING TNB POLE NO.	NEW POLE NO.

KEY PLAN

KEMENTERIAN KOMUNIKASI DAN DIGITAL

PROJECT OWNER

APEx COMMUNICATIONS SDN BHD

MAIN CONTRACTOR

PRIVASAT

SUB-CONTRACTOR

KNZ ENGINEERING SDN BHD
 NO. 60 & 60A, Jalan Klebang Indah 1, Medan Klebang Indah, 30100 Ipoh, Perak
 No Tel: 019-3695071
 Email: admin@knzengineering.com.my
 Website: www.knzengineering.com.my

PROJECT TITLE

SEKOLAH KEBANGSAAN SUNGAI NIPAH

DRAWING TITLE

TP DRAWING POP 2 AT SEKOLAH KEBANGSAAN SUNGAI NIPAH

PROJECT PHASE

PROJECT PHASE 2

DESIGN BY	NABIL	DATE	15/11/2024
DRAWN BY	NABIL	SCALE	NOT TO SCALE
CHECKED BY	AZHAN HARIS	JOB NUMBER	15/11/2024
DRAWING NUMBER	15/11/2024		2/3
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