

CADANGAN KERJA-KERJA MENAIKTARAF DAN PENGUBAHSUAIAN FASILITI BAGI
PONDOK PENGAWAL HADAPAN DAN PUSAT PELAJAR SERTA KERJA-KERJA BERKAITAN
DI INSTITUT KEMAHIRAN MARA (IKM) SUNGAI PETANI, KEDAH.

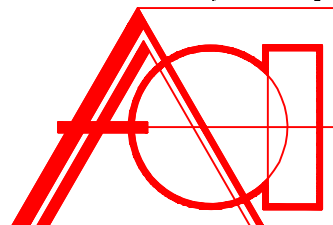
UNTUK : TETUAN TVET MARA



LUKISAN MEKANIKAL DAN ELEKTRIKAL

ARKITEK :

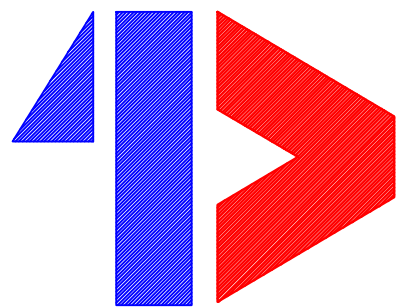
architecture • planning • interior design • landscape



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PERUNDING MEKANIKAL & ELEKTRIKAL :

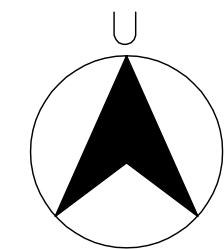
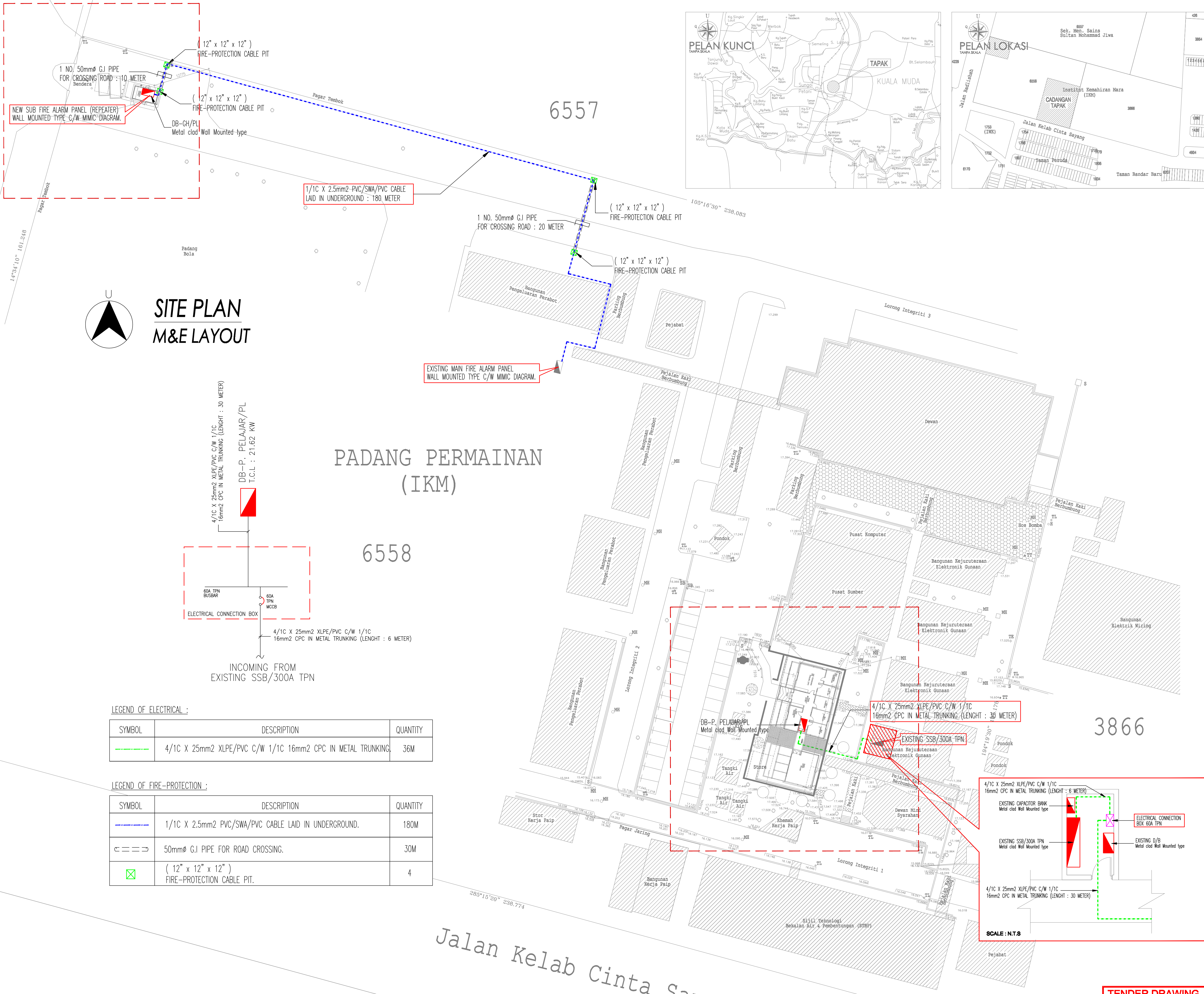


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JALAN UTAMA 3/1
JALAN SULTANAH SAMPUNGAN,
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E-mail : Alifbersatu_as@yahoo.com.

LIST OF DRAWINGS			
BIL	NO. LUKISAN	TAJUK LUKISAN	SKALA
ELECTRICAL SERVICES			
1	PAB 2430 / IKM SUNGAI PETANI / M&E - 01	ELECTRICAL SERVICES SITE PLAN, KEY PLAN & LOCATION PLAN EXTERNAL ELECTRICAL LAYOUT, EXTERNAL FIRE-PROTECTION LAYOUT, SINGLE LINE SCHEMATIC DIAGRAM & LEGEND.	1 : 400 (A1)
2	PAB 2430 / IKM SUNGAI PETANI / EL - 02	ELECTRICAL SERVICES FLOOR PLAN LIGHTING LAYOUT, POWER LAYOUT, LEGEND & DETAILS. (PONDOK PENGAWAL)	1 : 50 (A1)
3	PAB 2430 / IKM SUNGAI PETANI / EL - 03	ELECTRICAL SERVICES FLOOR PLAN LIGHTING LAYOUT, POWER LAYOUT, LEGEND & DETAILS. (PUSAT PELAJAR)	1 : 100 (A1)
ELV SERVICES			
4	PAB 2430 / IKM SUNGAI PETANI / ELV - 01	ICT WORK SERVICES FLOOR PLAN ICT/DATA LAYOUT, TELEPHONE LAYOUT, SCHEMATIC DIAGRAM & LEGEND. (PONDOK PENGAWAL & PUSAT PELAJAR)	1 : 100 (A1)

LIST OF DRAWINGS			
BIL	NO. LUKISAN	TAJUK LUKISAN	SKALA
AIR-CONDITIONING SERVICES			
5	PAB 2430 / IKM SUNGAI PETANI / AC - 01	AIR-CONDITIONING SERVICES FLOOR PLAN AIR-CONDITIONING LAYOUT, LEGEND & DETAILS. (PUSAT PELAJAR)	1 : 100 (A1)
FIRE PROTECTION SERVICES			
6	PAB 2430 / IKM SUNGAI PETANI / FP - 01	FIRE PROTECTION SERVICES FLOOR PLAN FIRE EXTINGUISHERS LAYOUT, MAIN FIRE ALARM PANEL LAYOUT, LEGEND & DETAILS. (PONDOK PENGAWAL & PUSAT PELAJAR)	1 : 100 (A1)



SITE PLAN M&E LAYOUT

PADANG PERMAINAN (IKM)

LEGEND OF ELECTRICAL :

SYMBOL	DESCRIPTION	QUANTITY
	4/1C X 25mm2 XLPE/PVC C/W 1/1C 16mm2 CPC IN METAL TRUNKING	36M

LEGEND OF FIRE-PROTECTION :

SYMBOL	DESCRIPTION	QUANTITY
	1/1C X 2.5mm2 PVC/SWA/PVC CABLE LAID IN UNDERGROUND.	180M
	50mmØ G.I PIPE FOR ROAD CROSSING.	30M
	(12" x 12" x 12") FIRE-PROTECTION CABLE PIT.	4

KELULUSAN OLEH PIHAK BERKUASA TEMPATAN

1. Kerja ini akan dilaksanakan di bawah penyeliaan tapak
2. Semua struktur kayu adalah dari kayu yang keras.
3. Semua kerja konkrit adalah dicampur mengikut ukuran 1:2:4
4. Semua kerja batu bata 4-1/2" akan diperbuat dengan "Brmer" setiap 4 lapis.
5. Pelan pemasangan tandas akan dikemukakan untuk kelulusan sebelum bermula kerja pembina.
6. Buai-buai laruji konkrit bertulang besi akan dikemukakan untuk kelulusan sebelum kerja pembina bermula.
7. Cerucuk adalah dikehendaki jika didapati perlu.

TAJUK PROJEK

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TAJUK LUKISAN

M&E SERVICES

SITE PLAN, KEY PLAN & LOCATION PLAN
EXTERNAL ELECTRICAL LAYOUT, EXTERNAL FIRE-PROTECTION LAYOUT, SINGLE LINE SCHEMATIC DIAGRAM & LEGEND.

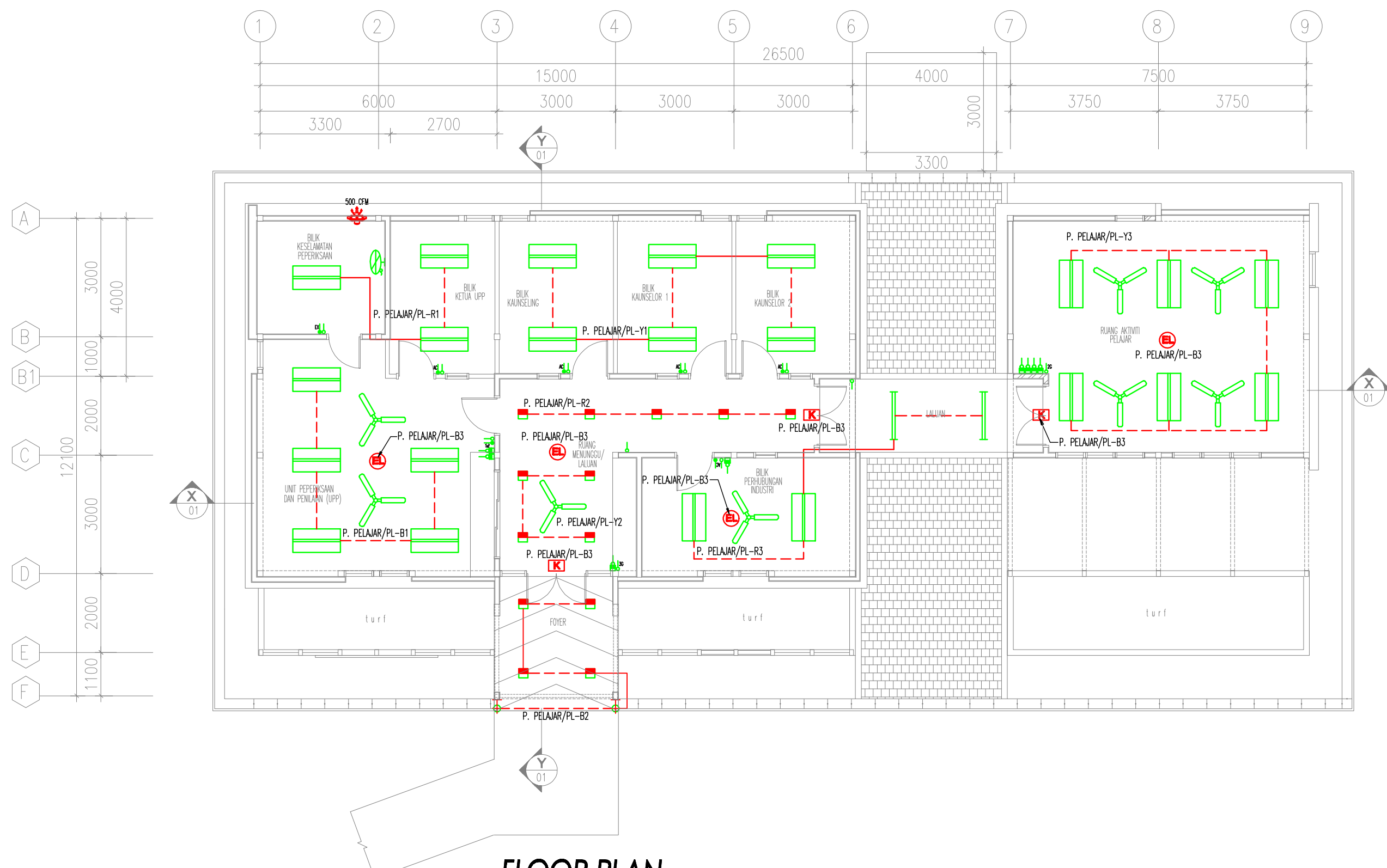
STATUS LUKISAN

☐ PRELIMINARY	☐ SUBMISSION	☐ CONSTRUCTION
☐ INFORMATION	☒ TENDER	

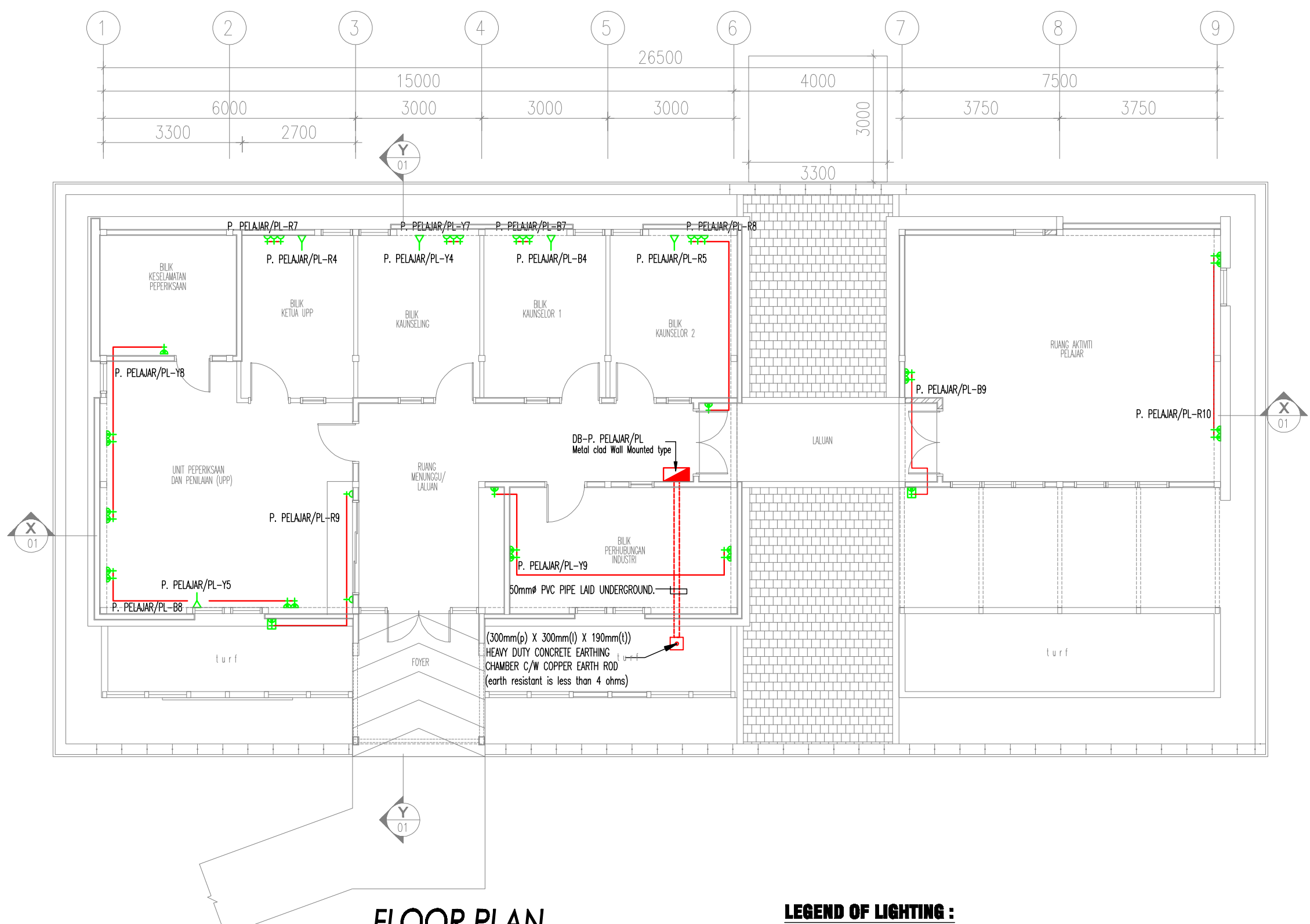
SKALA 1:400 (A1) TARIKH APRIL 2026
DILUKIS FATIN DISENAK RIDZAL
PAB 2430 / IKM SUNGAI PETANI / M&E - 01 01 / 06

TENDER DRAWING

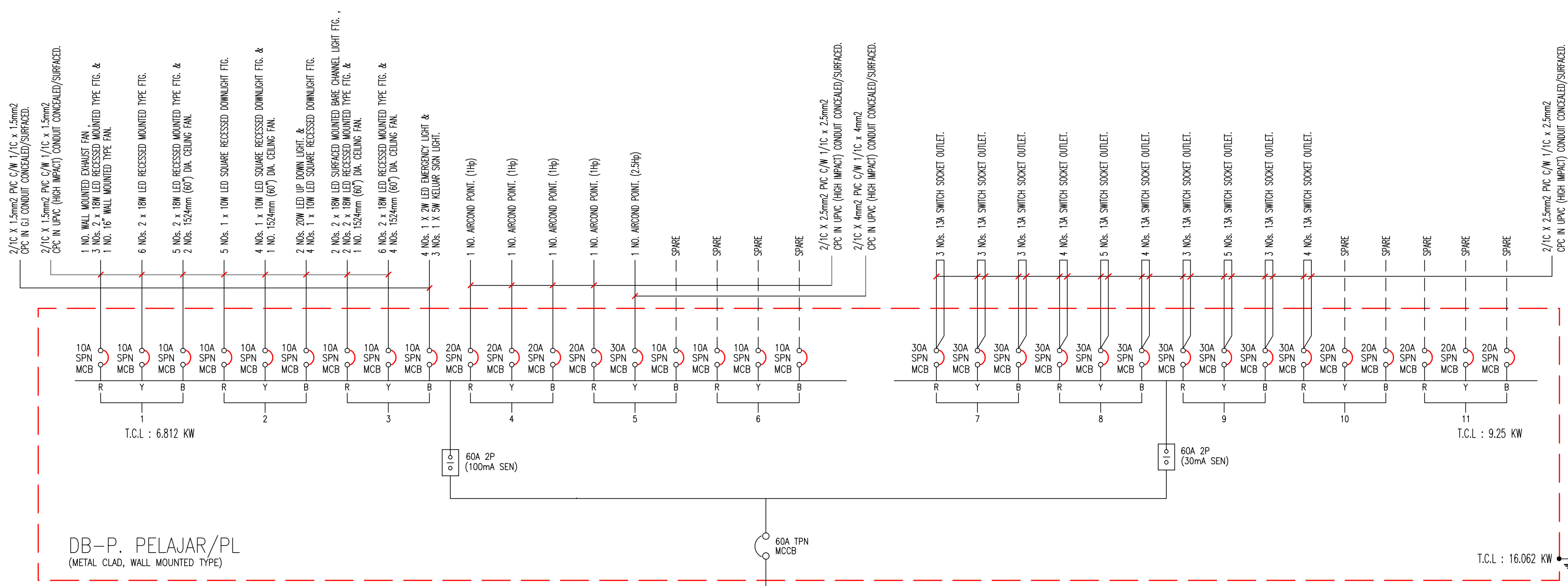
TENDER DRAWING



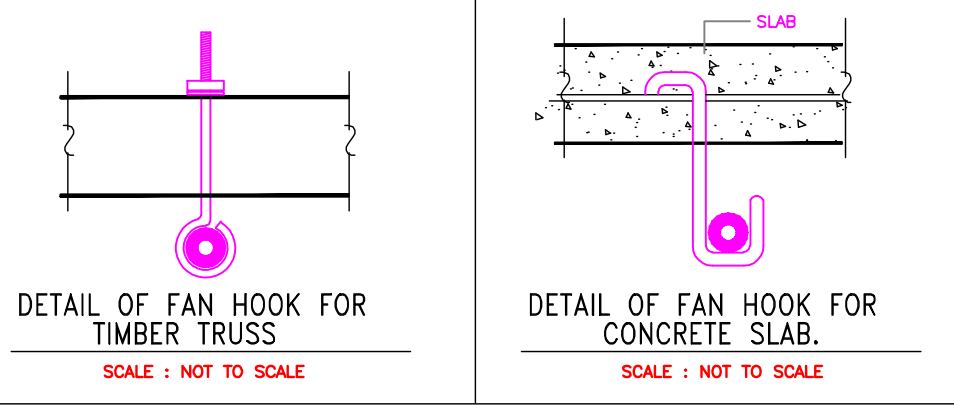
FLOOR PLAN
LIGHTING LAYOUT
(PUSAT PELAJAR)



FLOOR PLAN
POWER LAYOUT
(PUSAT PELAJAR)



INCOMING FROM
ELECTRICAL CONNECTION BOX



DETAIL OF FAN HOOK FOR
CONCRETE SLAB.

LEGEND OF LIGHTING :

SYMBOL	DESCRIPTION	QTY
1	2 x 18W LED RECESSED MOUNTED TYPE FTG. C/W MIRROR REFLECTOR & ALUMINIUM CROSS BLADE. (1200mm x 600mm)	22
2	2 x 18W LED SURFACED MOUNTED BARE CHANNEL LIGHT FTG. (1200mm)	2
3	1 x 10W LED SQUARE RECESSED DOWNLIGHT FTG. (6")	13
4	20W LED UP DOWN LIGHT.	2
5	16" WALL MOUNTED TYPE FAN MOUNTED AT 2440mm AFFL. C/W BRACKET.	1
6	1524mm (60") DIA. CEILING FAN C/W FAN HOOK & SUSPENSION ROD.	8
7	1 WAY SWITCH (10A) WHITE FLUSH MTD. ONE GANG SQUARE WITH ROCKER SWITCH	9
8	1 WAY SWITCH (10A) WHITE FLUSH MTD. TWO GANG SQUARE WITH ROCKER SWITCH	1
9	1 WAY SWITCH (10A) WHITE FLUSH MTD. THREE GANG SQUARE WITH ROCKER SWITCH	1
10	1 WAY SWITCH AIRCOND. POINT. 1450mm AFFL. (AIR-CONDITIONING)	6
11	1 WAY SWITCH EXHAUST FAN POINT. 1450mm AFFL. (EXHAUST FAN)	1
12	WALL MOUNTED EXHAUST FAN. C/W THERMOSTAT WIRING, FITTING & CONTROL.	1
13	CEILING FAN REGULATOR SWITCH POINT AT 1450mm AFFL.	8
14	1 X 2W POWER LED SEFT CONTAINED RECESSED MOUNTED EMERGENCY LIGHT FTG.	4
15	1 X 5W POWER LED SEFT CONTAINED KUALAR SIGN LIGHT FTG.	3

LEGEND OF POWER:

SYMBOL	DESCRIPTION	QTY
1	13A AT 300MM AFFL SWITCH SOCKET OUTLET.	14
2	13A AT 1500MM AFFL SWITCH SOCKET OUTLET.	32
3	13A AT 1500MM AFFL SWITCH SOCKET OUTLET. (WEATHER PROOF TYPE)	2
4	AIR COND. POINT AT 2400 AFFL.	7
5	(300mm(p) X 300mm(l)) X 190mm(l) HEAVY DUTY CONCRETE EARTHINGS CHAMBER C/W COPPER EARTH ROD (earth resistant is less than 4 ohms)	1
6	50mmØ PVC PIPE LAD UNDERGROUND.	1
7	DISTRIBUTION BOARD. (METAL CLAD & WALL MOUNTED TYPE)	1

TENDER DRAWING

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4. Semua kerja batu bata 4-1/2" akan diperbuat dengan "Exner" setiap 4 lapis.
5. Pelan pemasangan tandas akan dikemukakan untuk kelulusan sebelum bermula kerja pembinaan.
6. Butir-butir lanjut konkrit bertulang besi akan dikemukakan untuk kelulusan sebelum kerja pembinaan bermula.
7. Cerucuk adalah dikehendaki jika didapati perlu.

TAJUK PROJEK

CADANGAN KERJA-KERJA MENAIKARTAF DAN PENGUBAHSUAIAN FASILITI BAGI PONDOK PENGAWAL HADAPAN DAN PUSAT PELAJAR SERTA KERJA-KERJA BERKAITAN DI INSTITUT KEMAHIRAN MARA (IKM) SUNGAI PETANI, KEDAH.

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TAJUK LUKISAN

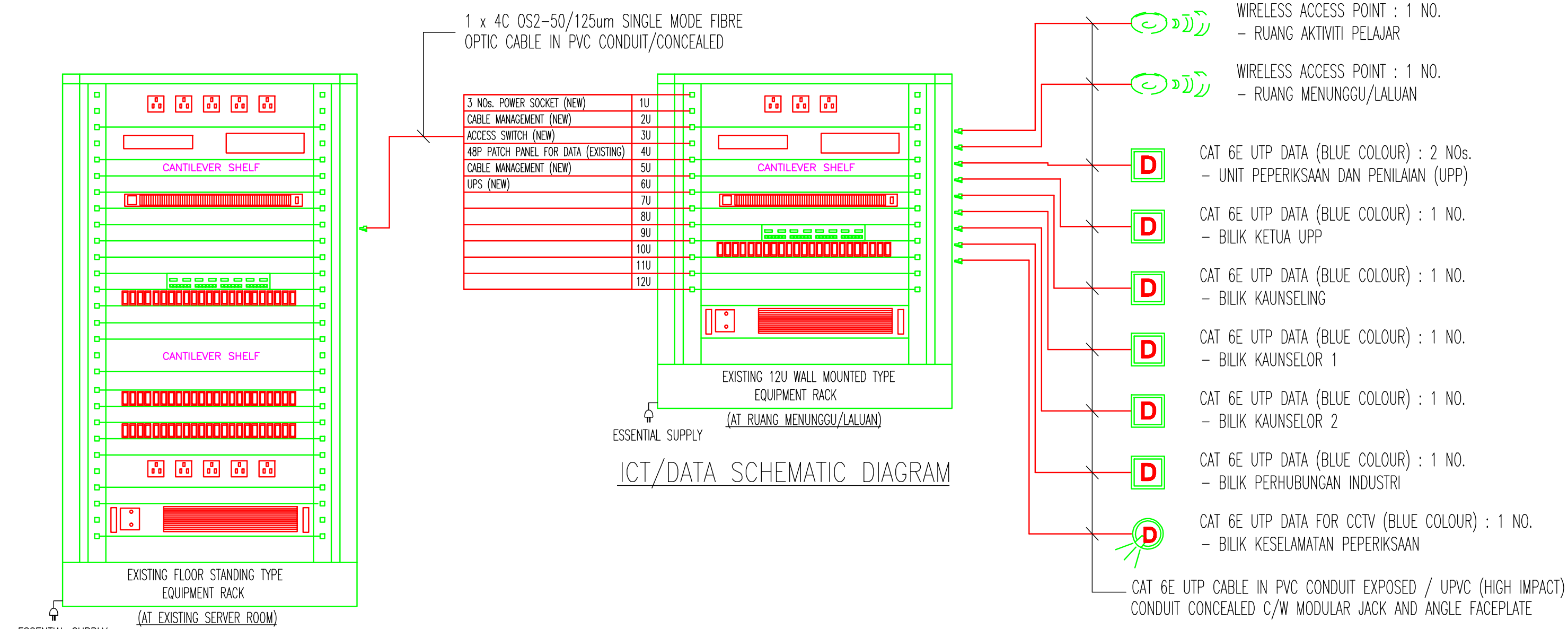
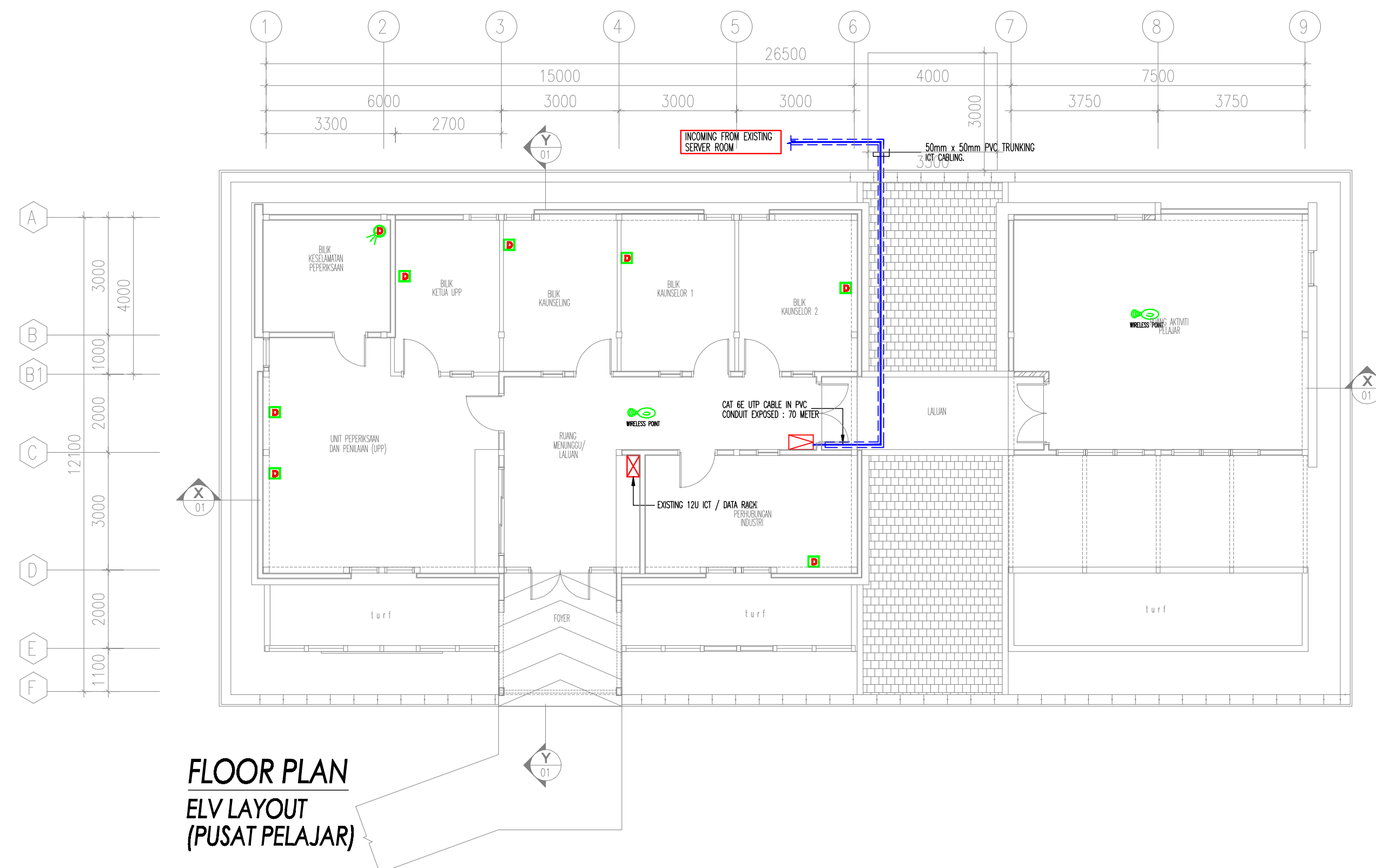
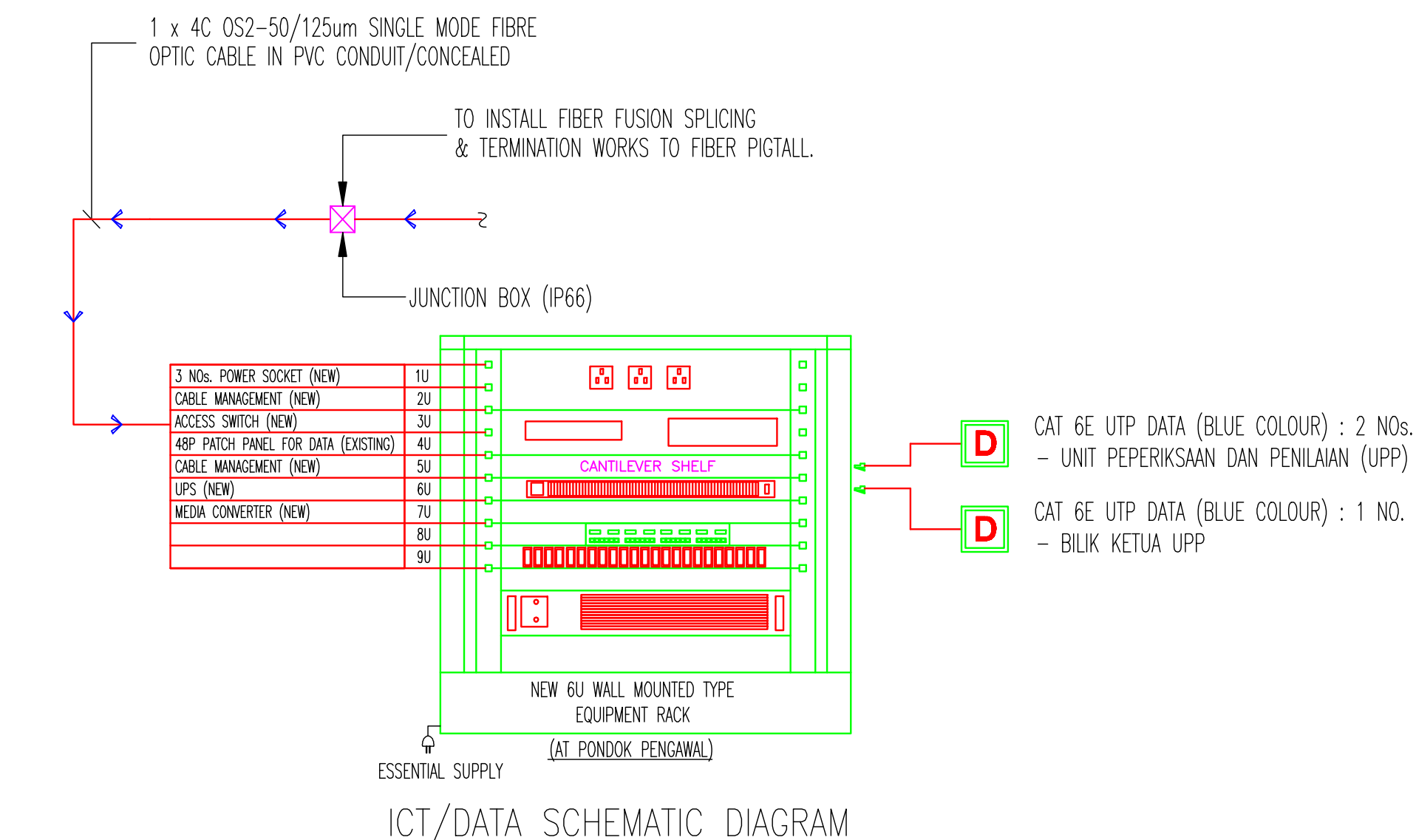
ELECTRICAL SERVICES

FLOOR PLAN
LIGHTING LAYOUT, POWER LAYOUT, LEGEND & DETAILS.
(PUSAT PELAJAR)

STATUS LUKISAN

☐ PRELIMINARY	☐ SUBMISSION	☐ CONSTRUCTION
☐ INFORMATION	☒ TENDER	

SKALA 1:100 (A1) TARIKH APRIL 2026
DILUKIS FATIN DISENAK RIDZAL
PAB 2430 / IKM SUNGAI PETANI / EL - 03 03 / 06



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4. Semua kerja batu bata 4-1/2" akan diperbuat dengan "Emser" setiap 4 lapis.
5. Pelan pemasangan tandas akan dikemukakan untuk kelulusan sebelum bermula kerja pembinaan.
6. Bufr-butir lanjut konkrit bertulang besi akan dikemukakan untuk kelulusan sebelum kerja pembinaan bermula.
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**CADANGAN KERJA-KERJA MENAIKTARAF DAN
PENGUBAHSUAIAN FASILITI BAGI PONDOK
PENGAWAL HADAPAN DAN PUSAT PELAJAR
SERTA KERJA-KERJA BERKAITAN DI
INSTITUT KEMAHIRAN MARA (IKM) SUNGAI
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PERUNDING MEKANIKAL & ELEKTRIKAL

**TAJUK LUKISAN**

ELV SERVICES
FLOOR PLAN
ICT/DATA LAYOUT, TELEPHONE LAYOUT,
SCHEMATIC DIAGRAM & LEGEND.
(PONDOK PENGAWAL & PUSAT PELAJAR)

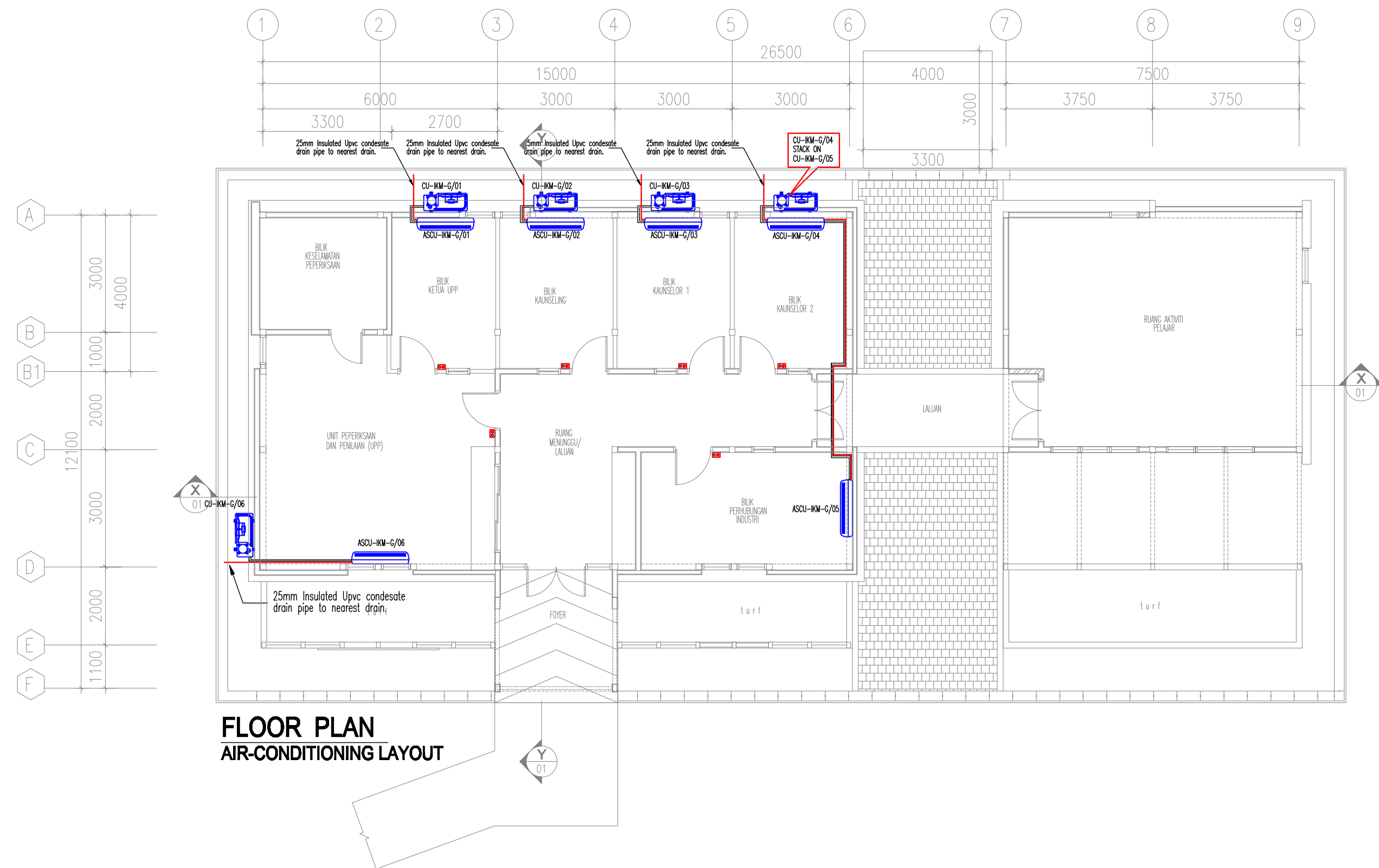
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SKALA	1 : 100 (A1)	TARIKH	APRIL 2028
DILUKIS	FATIN	DISEMAK	RIDZAL

PAB 2430 / IKM SUNGAI PETANI / ELV - 01 04 / 06

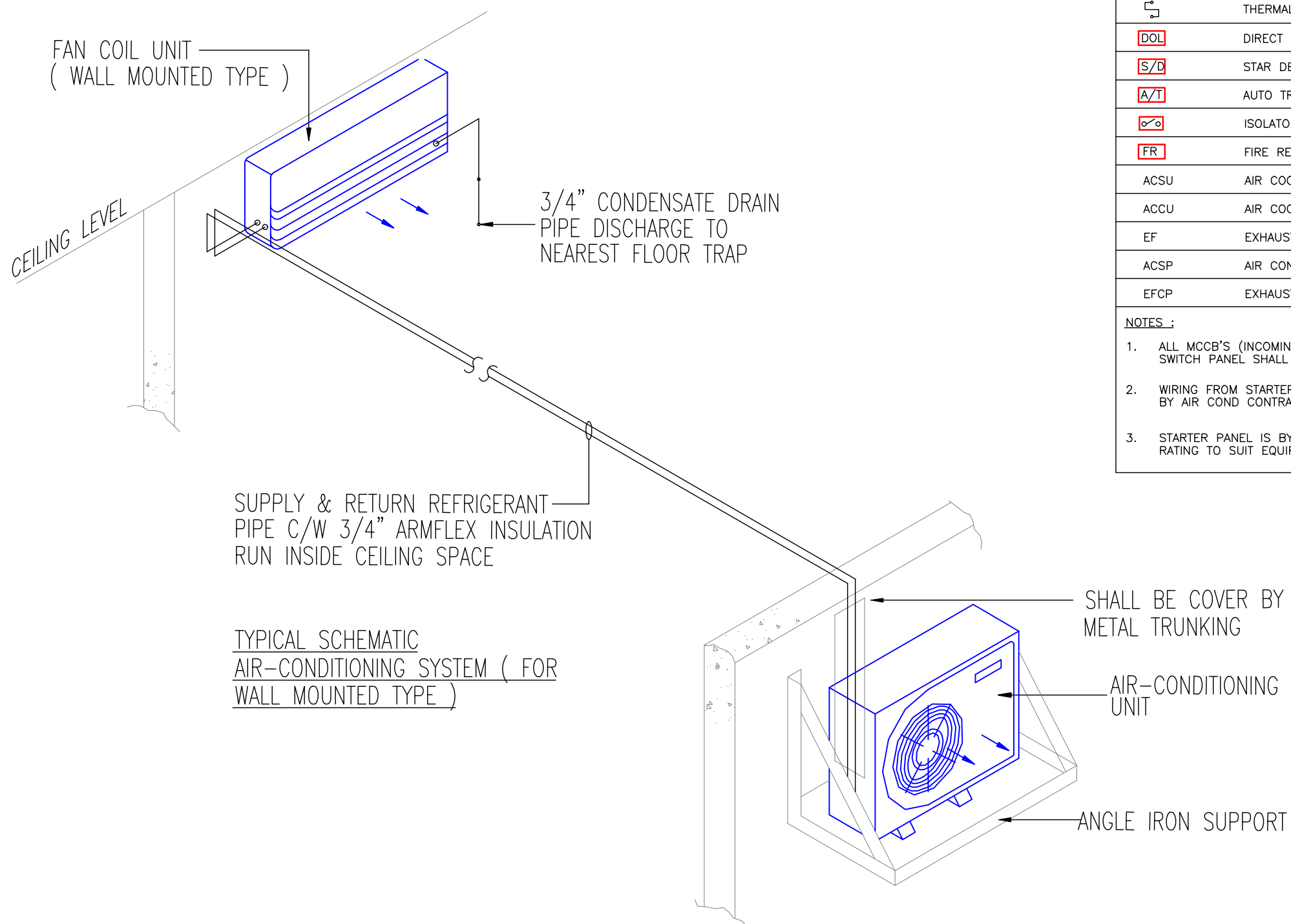
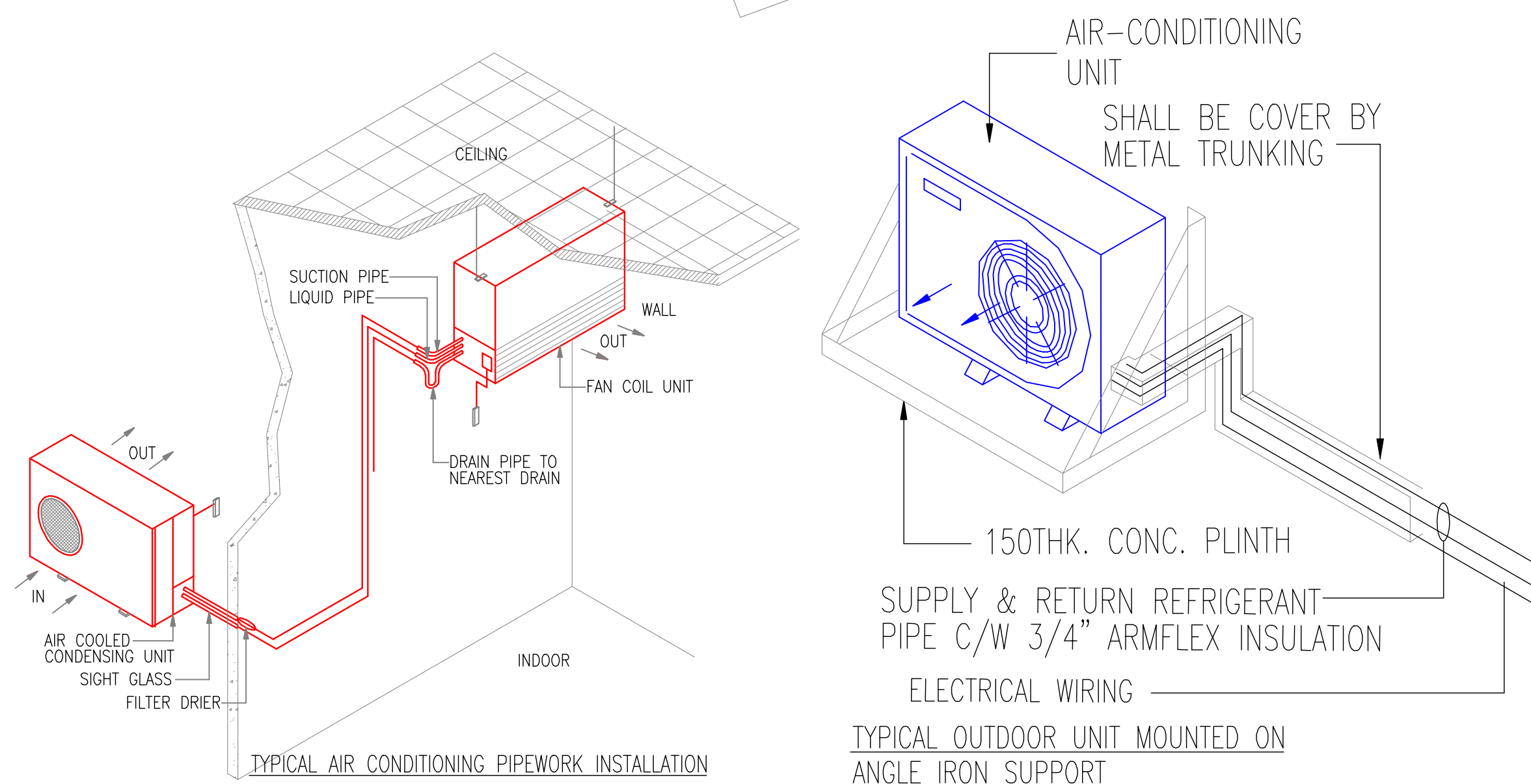
TENDER DRAWING



PIPE CONNECTION: LIQUID & GAS	BTU/HR
[1/4" Liquid & 3/8" Gas (Conceal) Insulated Refrigerant Copper Pipe c/w cabling	10,000
[1/4" Liquid & 1/2" Gas (Conceal) Insulated Refrigerant Copper Pipe c/w cabling	13,000
[1/4" Liquid & 5/8" Gas (Conceal) Insulated Refrigerant Copper Pipe c/w cabling	18,000 19,500 21,000
[3/8" Liquid & 5/8" Gas (Conceal) Insulated Refrigerant Copper Pipe c/w cabling	24,000
[3/8" Liquid & 5/8" Gas (Conceal) Insulated Refrigerant Copper Pipe c/w cabling	30,000 40,000

LEGEND :-	
	WALL MOUNTED (IN DOOR)
	CONDENSER UNIT (OUT DOOR)
	REFRIGERANT PIPE IN TRUNKING
	CONDENSATE DRAIN PIPE
	20A DOUBLE POLE SWITCH
NOTE	
ALL THE CONDENSATE DRAIN PIPE TO BE CONCEALED IN BRICKWALL / FLOOR SLAB	

LEGEND	
	THERMAL OVERLOAD RELAY
	DIRECT ON LINE
	STAR DELTA
	AUTO TRANSFORMER STARTER
	ISOLATOR.
	FIRE RELAY
ACSU	AIR COOLED SPLIT UNIT
ACCU	AIR COOLED CONDENSING UNIT
EF	EXHAUST FAN
ACSP	AIR COND. CONTROL PANEL
EFCP	EXHAUST FAN CONTROL PANEL
NOTES :-	
1. ALL MCCB'S (INCOMING & OUTGOING) FOR EVERY SWITCH PANEL SHALL BE MOTOR RATED TYPE.	
2. WIRING FROM STARTER PANEL TO UNIT IS BY AIR COND. CONTRACTOR.	
3. STARTER PANEL IS BY AIR COND. CONTRACTOR. RATING TO SUIT EQUIPMENT OFFERED.	



SCHEDULE A: SCHEDULE OF SPLIT UNIT WALL MOUNTED :-

NO.	EQUIPMENT REF. NO.	SPECIFIED CAPACITY (BTU/HR)	TOTAL SUPPLY AIR REQ. (CFM)	TYPE INVERTER	AREA SERVED	INPUT KILOWATT (Kw)	STARTER PANEL NO.
GROUND FLOOR PLAN							
1.	ASCU-IKM-G/01	9,000 (3,400-9,200 Btu/hr)	340	WALL MOUNTED	BILIK KETUA UPP	0.75 Kw	20A DOUBLE POLE SWITCH ON/OFF
2.	ASCU-IKM-G/02	9,000 (3,400-9,200 Btu/hr)	340	WALL MOUNTED	BILIK KAUNSELING	0.75 Kw	
3.	ASCU-IKM-G/03	9,000 (3,400-9,200 Btu/hr)	340	WALL MOUNTED	BILIK KAUNSELOR 1	0.75 Kw	
4.	ASCU-IKM-G/04	9,000 (3,400-9,200 Btu/hr)	340	WALL MOUNTED	BILIK KAUNSELOR 2	0.75 Kw	
5.	ASCU-IKM-G/05	12,300 (4,100-13,000 Btu/hr)	400	WALL MOUNTED	BILIK PERHUBUNGAN INDUSTRI	1.125 Kw	
6.	ASCU-IKM-G/06	24,000 (6,600-24,500 Btu/hr)	640	WALL MOUNTED	UNIT PEPERIKSAAN DAN PENILAIAN (UPP)	1.875 Kw	

TENDER DRAWING

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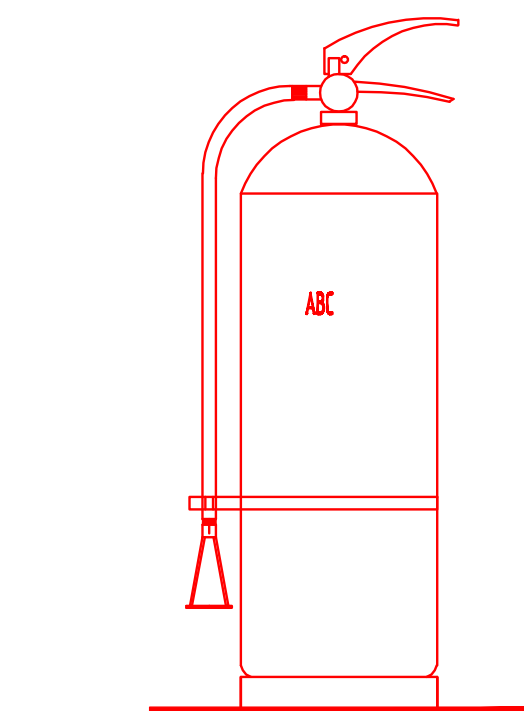
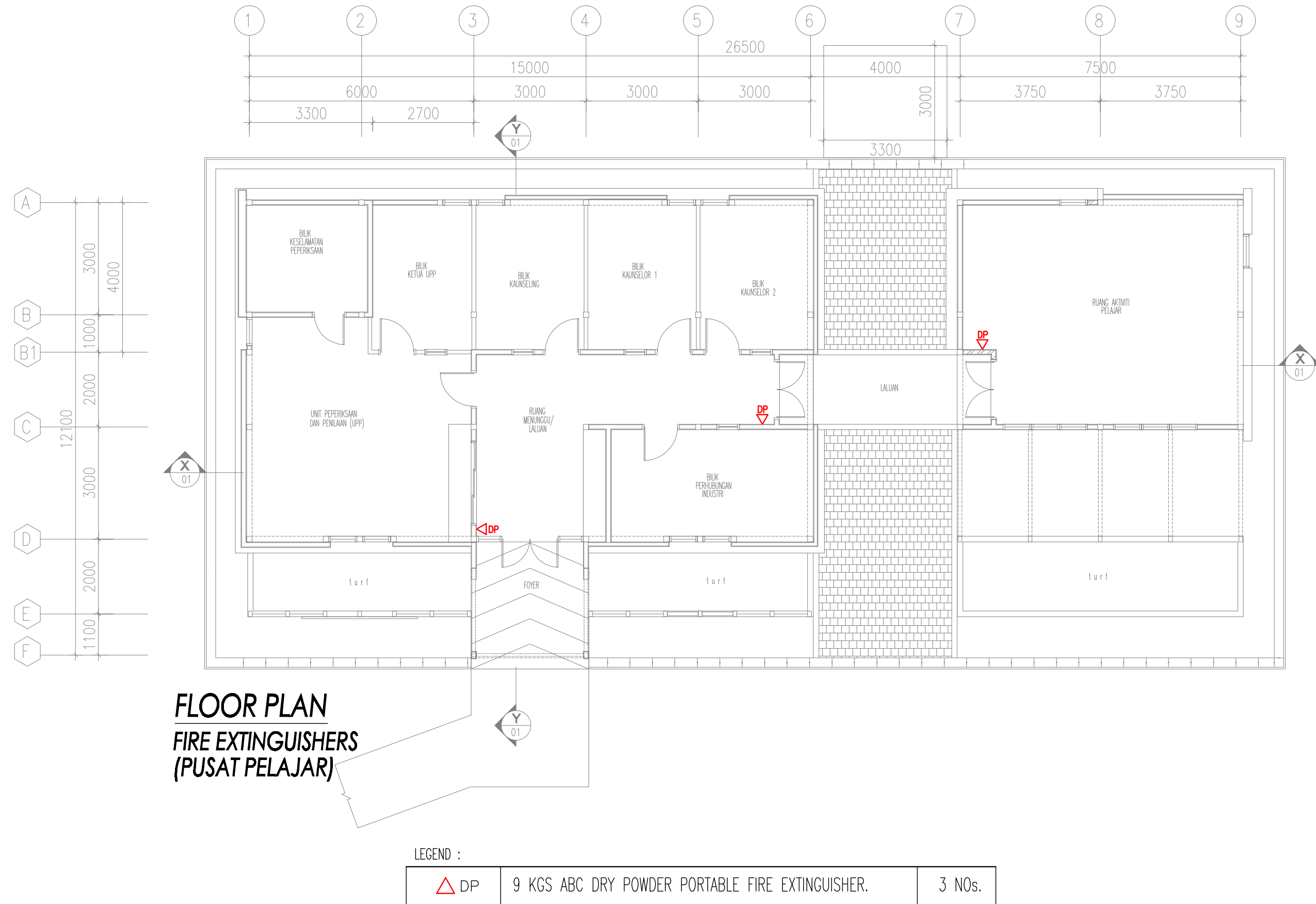
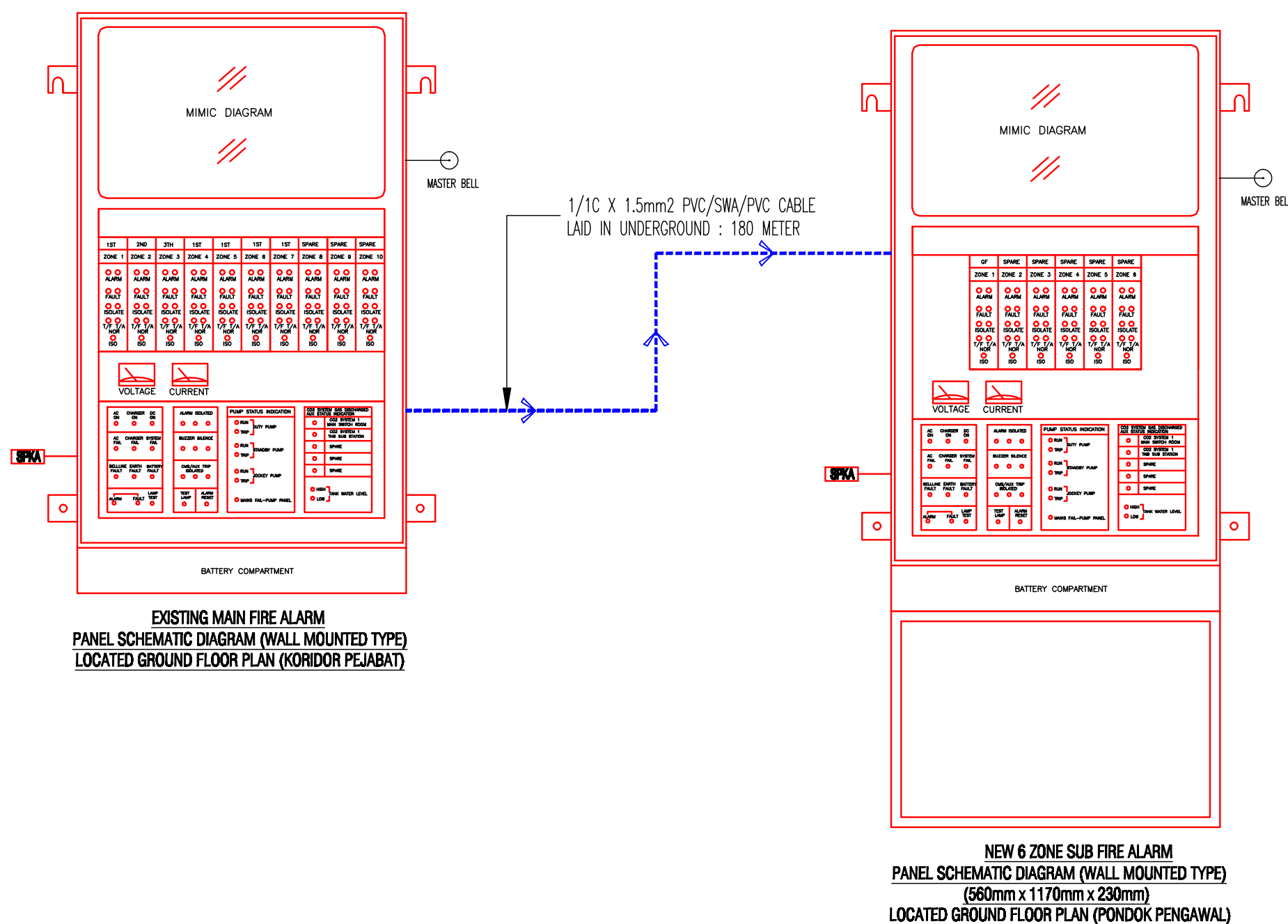
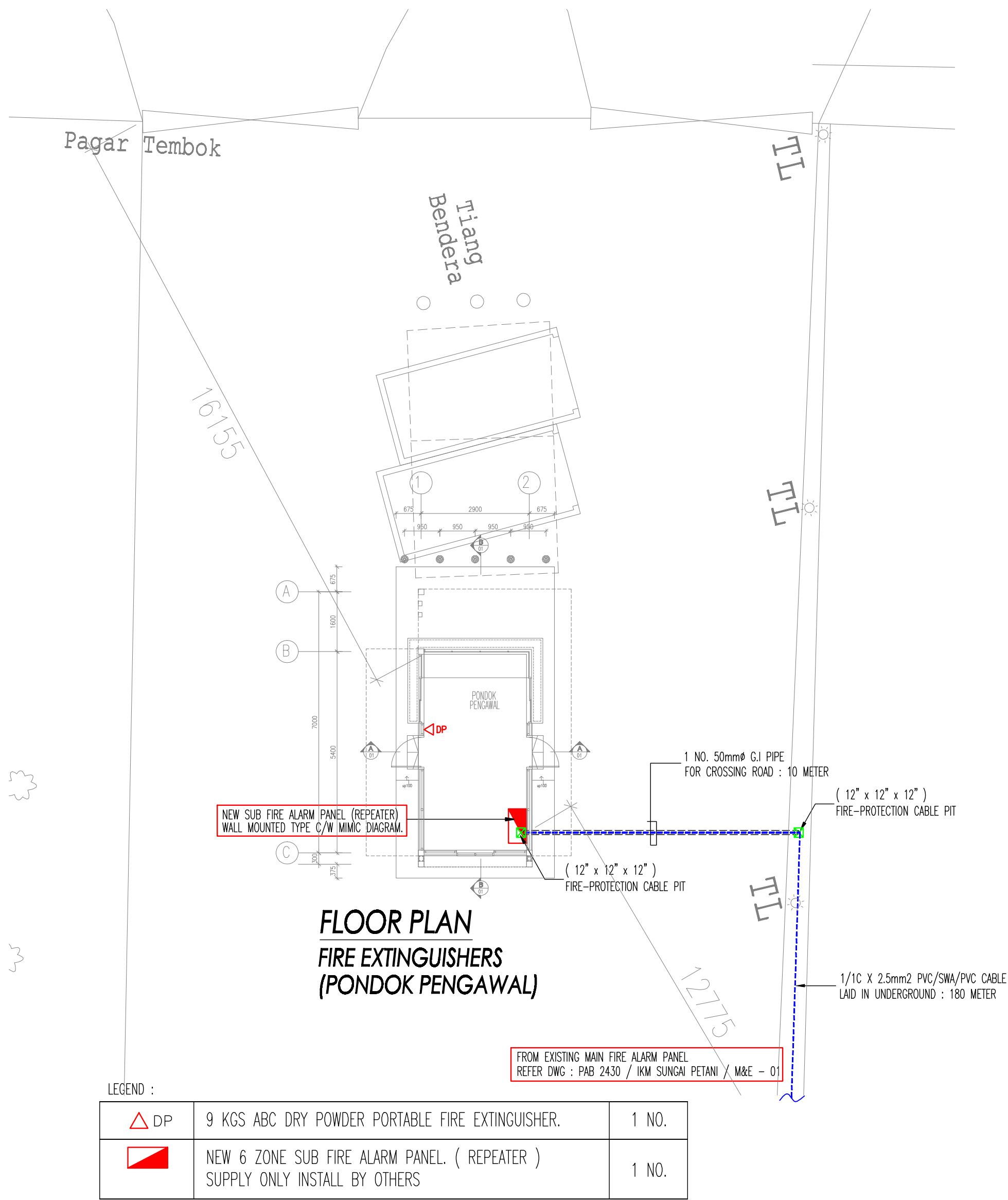
TAJUK LUKISAN
AIR-CONDITIONING SERVICES
FLOOR PLAN
AIR-CONDITIONING LAYOUT, LEGEND & DETAILS.
(PUSAT PELAJAR)

STATUS LUKISAN

☐ PRELIMINARY ☐ SUBMISSION ☐ CONSTRUCTION
☐ INFORMATION ☒ TENDER

SKALA 1:100 (A1) TARIKH APRIL 2026
DILUKIS FATIN DISENAK ZBS

PAB 2430 / IKM SUNGAI PETANI / AC - 01 05 / 06



OPERATION:

A. Stored Pressured type.

1. Pull Out safety Pin.
2. Aim nozzle at base of fire.
3. Squeeze lever.

B. Gas cartridge operated type.

1. Pull Out safety clip.
2. Strike knob strongly.
3. Squeeze lever directing at base of fire.

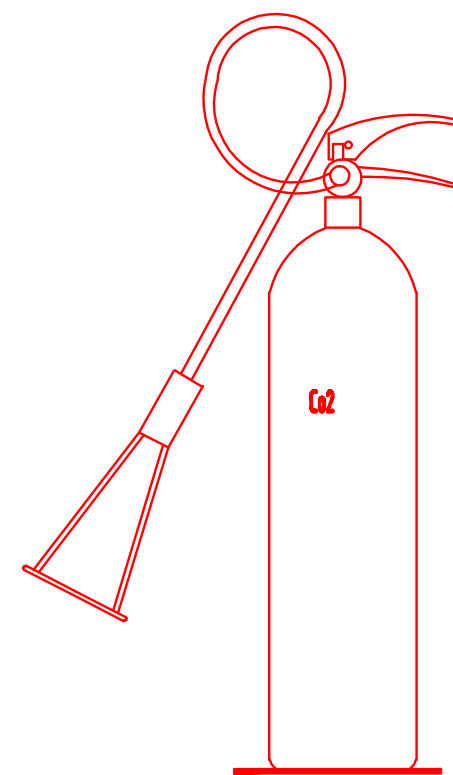
CLASSIFICATION OF FIRE:

class	Type of fire
A	Wood,paper (ordinary combustible)
B	Petrol,oil,paint (flammable liquid)
C	Gas,(Flammable Gas)

Comply to MS 1539
Approved by: SIRIM

PORTABLE DRY POWDER
FIRE EXTINGUISHERS.

NOT TO SCALE



OPERATION:

1. Pull Out safety Pin.
2. Aim nozzle at base of fire.
3. Squeeze lever directing at base of fire.

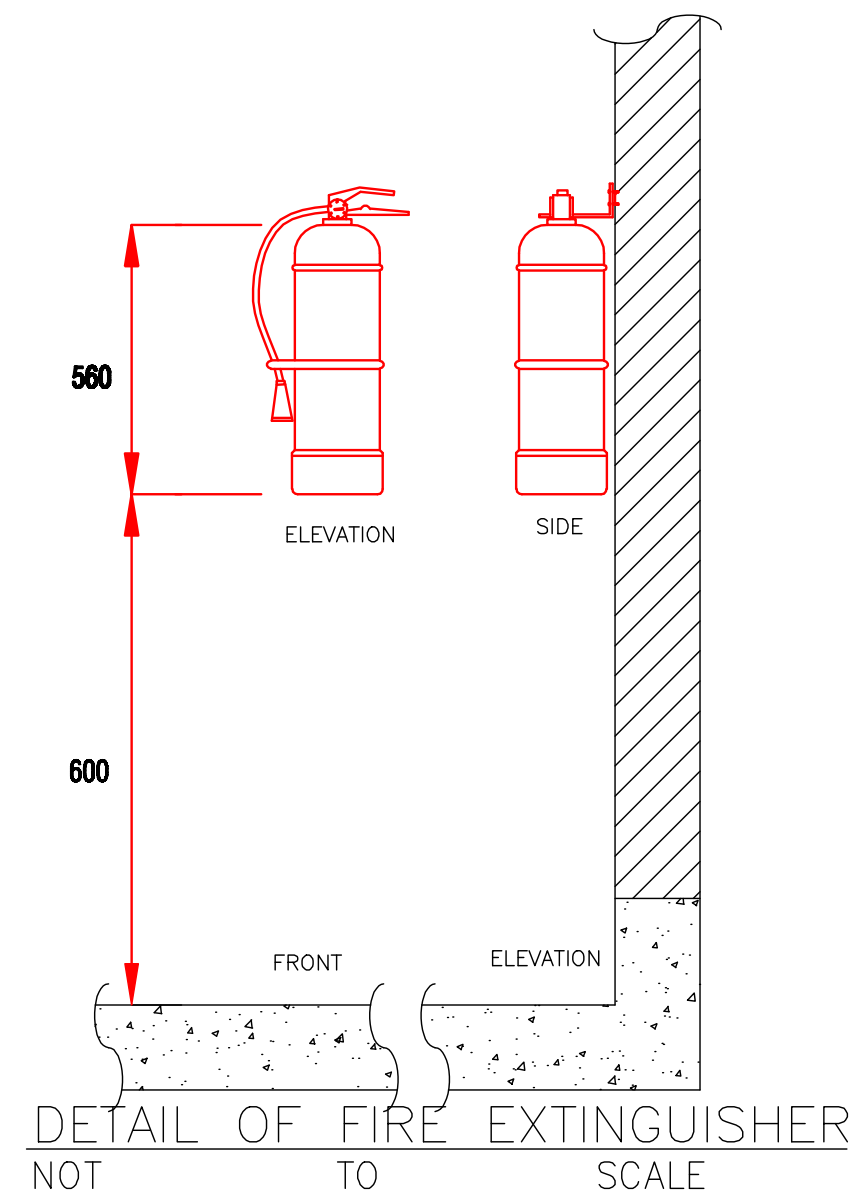
CLASSIFICATION OF FIRE:

class	Type of fire
A	Wood,paper (ordinary combustible)
B	Petrol,oil,paint (flammable liquid)
C	Gas,(Flammable Gas)
D	Electric (Electric Fire)

Comply to MS 1539
Approved by: SIRIM

PORTABLE CARBON
DIOXIDE FIRE EXTINGUISHERS.

NOT TO SCALE



KELULUSAN OLEH PIHAK BERKUASA TEMPATAN

1. Kerja ini akan dilaksanakan di bawah penyelesaian tapak
2. Semua struktur kayu adalah dari kayu yang keras.
3. Semua kerja konkrit adalah dicampur mengikut ukuran 1:2:4.
4. Semua kerja batu bata 4-1/2" akan diperbuat dengan "Exner" setiap 4 lapis.
5. Pelan pemasangan tandas akan dikemukakan untuk kelulusan sebelum bermula kerja pembinaan.
6. Butir-butir lanjut konkrit bertulang besi akan dikemukakan untuk kelulusan sebelum kerja pembinaan bermula.
7. Cerucuk adalah dikehendaki jika didapati perlu.

TAJUK PROJEK

CADANGAN KERJA-KERJA MENAIKtarAF DAN PENGUBAHsUAIAN FASILITI BAGI PONDOK PENGAWAL HADAPAN DAN PUSAT PELAJAR SERTA KERJA-KERJA BERKAITAN DI INSTITUT KEMAHIRAN MARA (IKM) SUNGAI PETANI, KEDAH.

UNTUK : TETUAN TVET MARA

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Tel: 03 - 2613 2000

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JALAN LUTAY, ST. ALIF BERSATU, KUALA SELAYUT, KUALA SELAYUT
TEL: 03-81 8011 E-mail: Alifbersatu@yahoo.com

TAJUK LUKISAN

FIRE-PROTECTION SERVICES

FLOOR PLAN
FIRE EXTINGUISHERS LAYOUT, MAIN FIRE
ALARM PANEL LAYOUT, LEGEND & DETAILS.
(PONDOK PENGAWAL & PUSAT PELAJAR)

STATUS LUKISAN

☐ PRELIMINARY ☐ SUBMISSION ☐ CONSTRUCTION
☐ INFORMATION ☒ TENDER

SKALA 1:100 (A1) TARIKH APRIL 2026

DILUKIS FATIN DISEMAK ZBS

PAB 2430 / IKM SUNGAI PETANI / FP - 01 06 / 06

TENDER DRAWING