

SISTEM PERALATAN DAPUR

PEMBINAAN SEKOLAH BAHARU 20 BILIK DARJAH, ASRAMA (300L & 300P)
DAN LAIN-LAIN KEMUDAHAN MENGIKUT PIAWAIAN DI SEKOLAH MENENGAH
KEBANGSAAN AGAMA SEBERANG PERAI TENGAH,PULAU PINANG

UNTUK

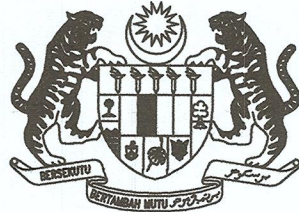
KEMENTERIAN PENDIDIKAN MALAYSIA

BIL	TAJUK LUKISAN	NOMBOR LUKISAN
1.	Senarai Lukisan	MEK/Pend/2021/3-298/KE/3-01
2.	Pelan Tapak	MEK/Pend/2021/3-298/KE/3-02
3.	DEWAN MAKAN - Kitchen Equipment	MEK/Pend/2021/3-298/KE/3-03
4.	DEWAN MAKAN - Kitchen Hood & Exhaust Fan	MEK/Pend/2021/3-298/KE/3-04
5.	DEWAN MAKAN - Wet Chemical System	MEK/Pend/2021/3-298/KE/3-05
6.	DEWAN MAKAN - Liquefied Petroleum Gas (LPG) System	MEK/Pend/2021/3-298/KE/3-06
7.	DEWAN MAKAN - Cold Room System	MEK/Pend/2021/3-298/KE/3-07

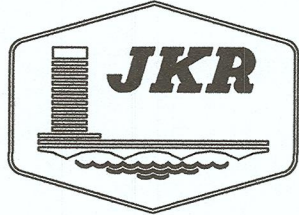
NOTA PENENTUAN

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KERAJAAN MALAYSIA



JASA KEPADA RAKYAT

PEJABAT PENGARAH KANAN
IBU PEJABAT JKR MALAYSIA
CAWANGAN KEJURUTERAAN MEKANIKAL
TINGKAT 24-28, BLOK G,
NO.6, JALAN SULTAN SALAHUDDIN,
50480 KUALA LUMPUR.

DISAHKAN :

PENGARAH KANAN CAWANGAN KEJURUTERAAN MEKANIKAL

DATO' Ir. Hj. HABBALI BIN IBRAHIM

PENGARAH REKABENTUK CAWANGAN KEJURUTERAAN MEKANIKAL

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(BAHAGIAN REKABENTUK PENDIDIKAN)

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JURUTERA MEKANIKAL KANAN
(BAHAGIAN REKABENTUK PENDIDIKAN)

Ir. MOHD FADZIL BIN RAHIM

PROJEK:

PEMBINAAN SEKOLAH BAHARU 20 BILIK
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LAIN-LAIN KEMUDAHAN MENGIKUT
PIAWAIAN DI SEKOLAH MENENGAH
KEBANGSAAN AGAMA SEBERANG PERAI
TENGAH,PULAU PINANG

TAJUK:

SISTEM PERALATAN DAPUR

- SENARAI LUKISAN

SKALA :

TANPA SKALA

TARIKH :

MAC 2021

NO.LUKISAN:

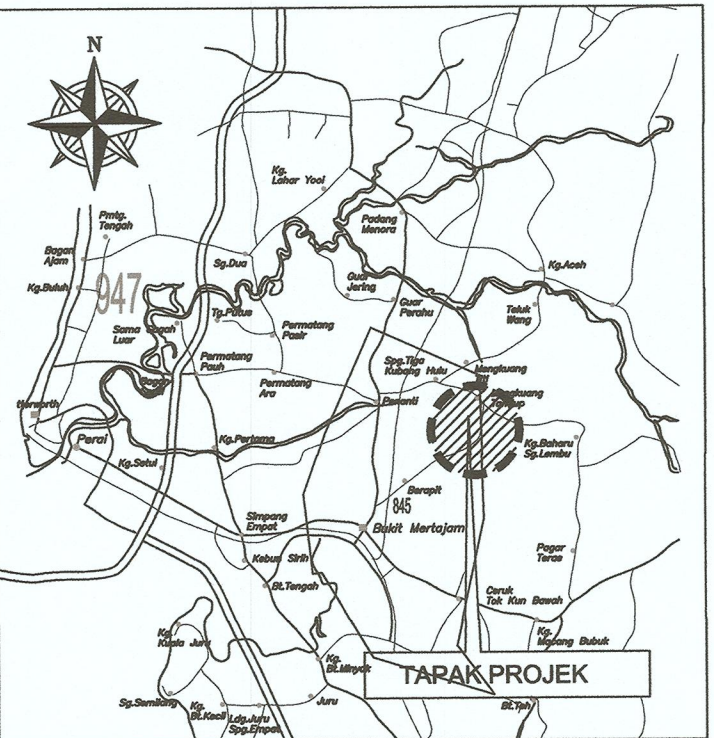
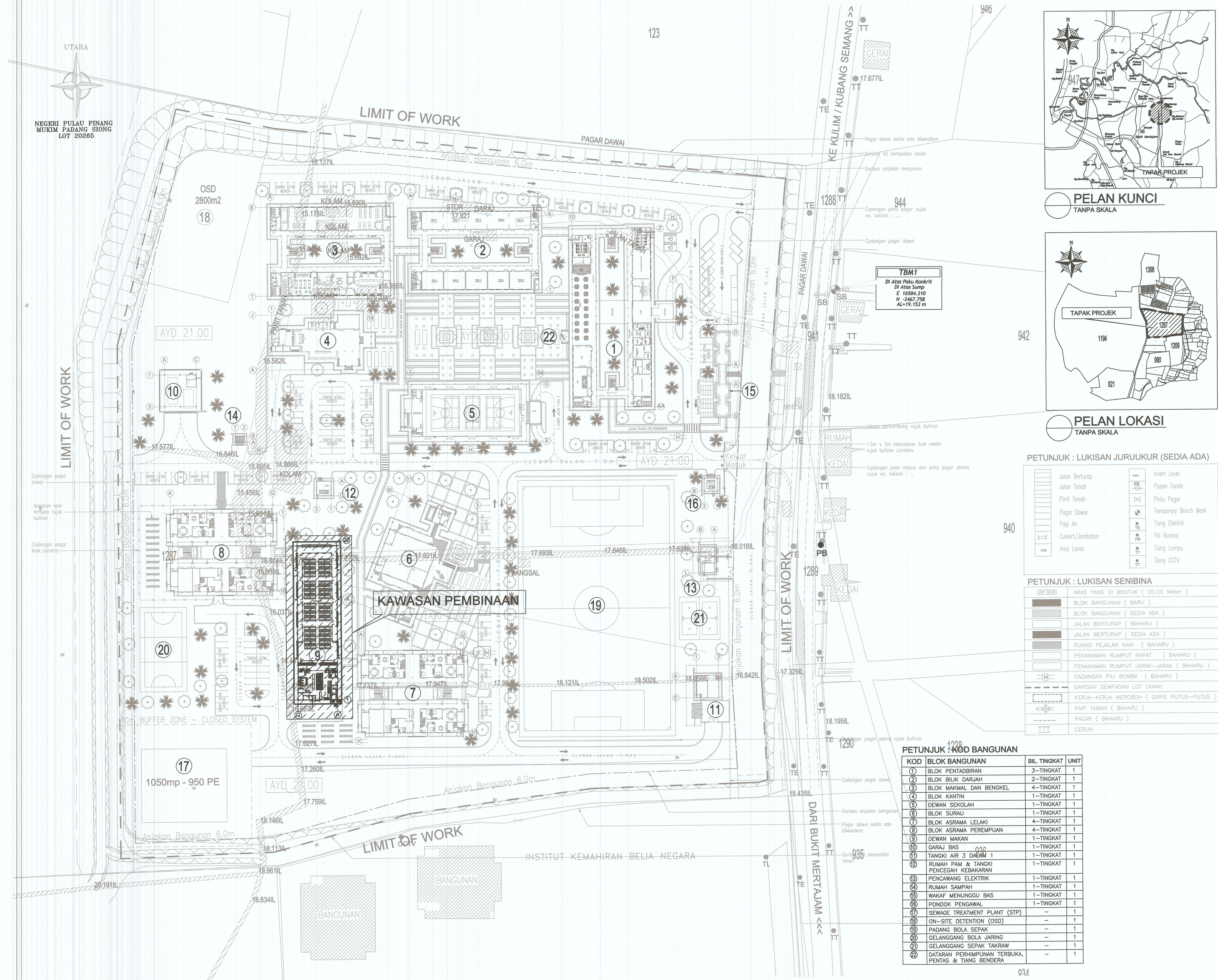
DIREKABENTUK OLEH :

MUHAMMAD FAIZ BIN SHAFEE

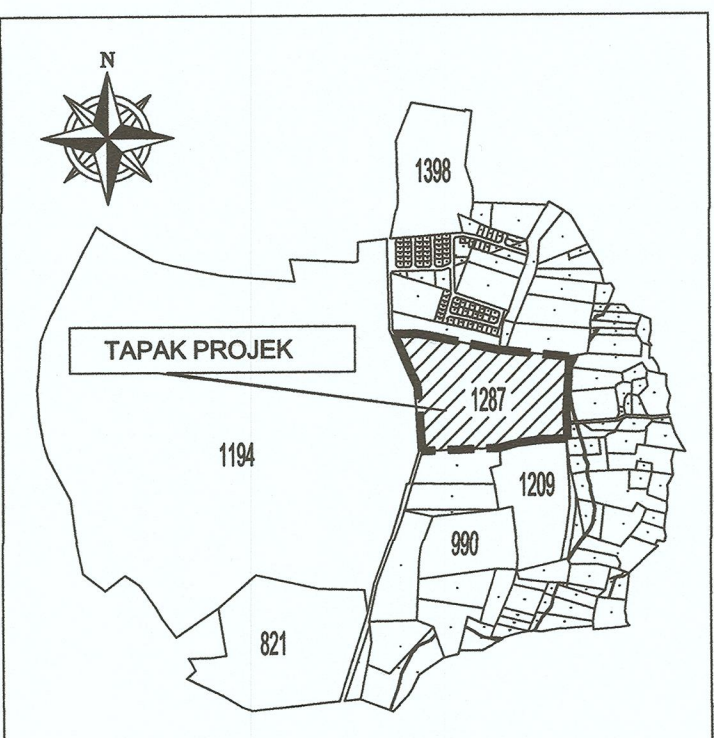
DILUKIS :

SHAIPUL NIZAM B M ARSHAD

MEK/Pend/2021/3-298/KE/3-01



PELAN KUNCI
TANPA SKALA



PELAN LOKASI
TANPA SKALA

PETUNJUK : LUKISAN JURUUKUR (SEDIA ADA)

Jalan Berturap	Invert Level
Jalan Tanah	Papan Tanda
Parit Tanah	Pintu Pagor
Pagar Dawai	Temporary Bench Mark
Paip Air	Tiang Elektrik
Culvert/Jambatan	Pili Bomba
Aras Laras	Tiang Lampu
	Tiang CCTV

PETUNJUK : LUKISAN SENIBINA

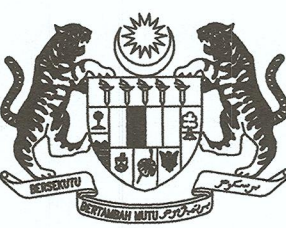
ARAS YANG DI BENTUK (00.00 Meter)	
BLOK BANGUNAN (BARU)	
BLOK BANGUNAN (SEDIA ADA)	
JALAN BERTURAP (BAHARU)	
JALAN BERTURAP (SEDIA ADA)	
RUANG PEJALAN KAKI (BAHARU)	
PENANAMAN RUMPUT RAPAT (BAHARU)	
PENANAMAN RUMPUT JARAK-JARAK (BAHARU)	
CADANGAN PILI BOMBA (BAHARU)	
GARISAN SEMPADAN LOT TANAH	
KERJA-KERJA MEROBOH (GARIS PUTUS-PUTUS)	
PAIP TAMAN (BAHARU)	
PAGAR (BAHARU)	
CERUN	

PETUNJUK : KOD BANGUNAN

KOD	BLOK BANGUNAN	BIL. TINGKAT	UNIT
①	BLOK PENTADBIRAN	3-TINGKAT	1
②	BLOK BILIK DARJAH	2-TINGKAT	1
③	BLOK MAKMAL DAN BENGKEL	4-TINGKAT	1
④	BLOK KANTIN	1-TINGKAT	1
⑤	DEWAN SEKOLAH	1-TINGKAT	1
⑥	BLOK SURAU	1-TINGKAT	1
⑦	BLOK ASRAMA LELAKI	4-TINGKAT	1
⑧	BLOK ASRAMA PEREMPUAN	4-TINGKAT	1
⑨	DEWAN MAKAN	1-TINGKAT	1
⑩	GARAJ BAS	1-TINGKAT	1
⑪	TANGKI AIR 3 DALAM 1	1-TINGKAT	1
⑫	RUMAH PAM & TANGKI PENCEGAH KEBAKARAN	1-TINGKAT	1
⑬	PENCAWANG ELEKTRIK	1-TINGKAT	1
⑭	RUMAH SAMPAH	1-TINGKAT	1
⑮	WAKAF MENUNGGU BAS	1-TINGKAT	1
⑯	PONDOK PENGAWAL	1-TINGKAT	1
⑰	SEWAGE TREATMENT PLANT (STP)	-	1
⑱	ON-SITE DETENTION (OSD)	-	1
⑲	PADANG BOLA SEPAK	-	1
⑳	GELANGGANG BOLA JARING	-	1
㉑	GELANGGANG SEPAK TAKRAW	-	1
㉒	DATARAN PERHIMPUNAN TERBUKA, PENTAS & TIANG BENDERA	-	1

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SISTEM PERALATAN DAPUR

- PELAN TAPAK

SKALA :

1:750

TARIKH :

MAC 2021

NO. LUKISAN :

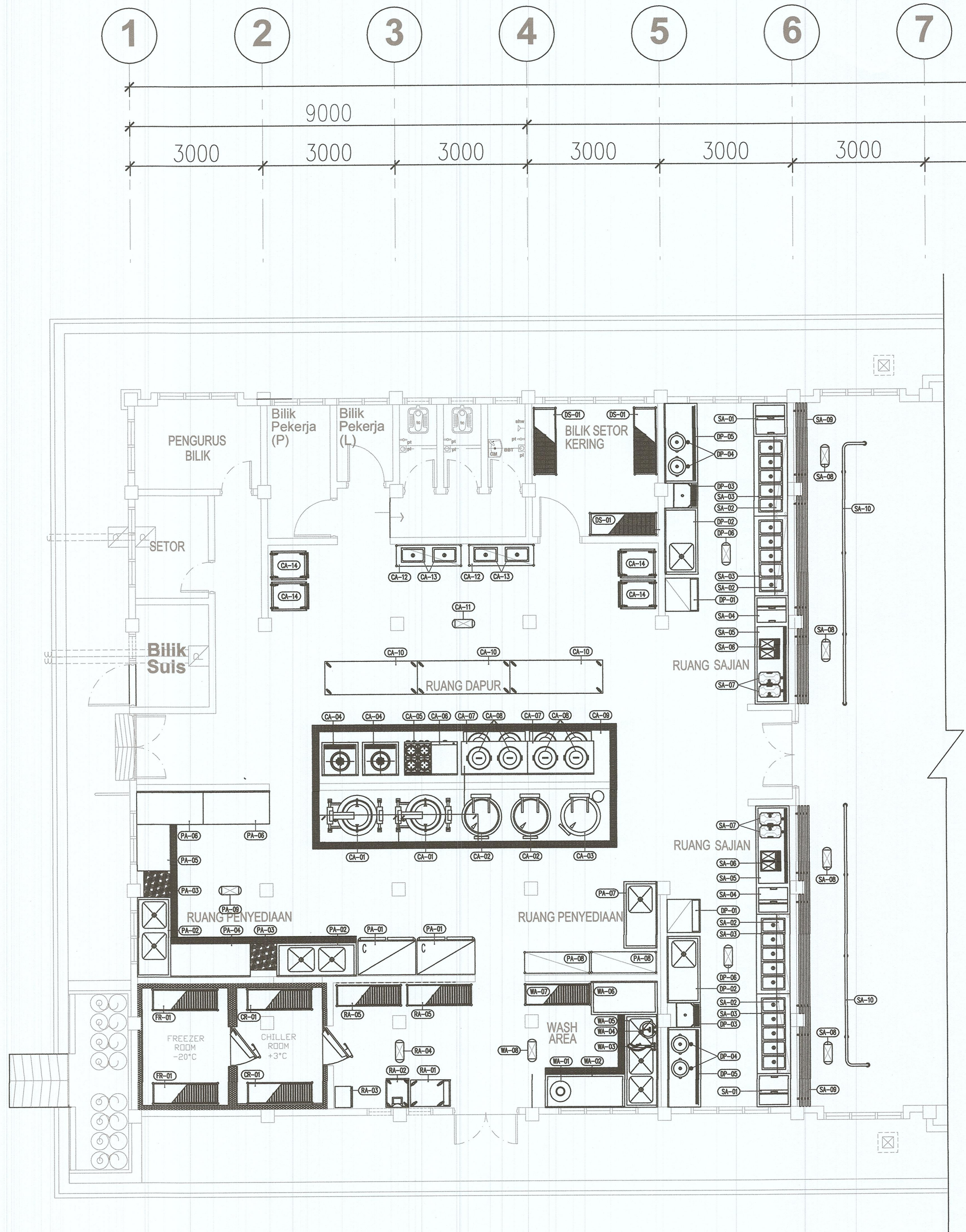
MEK/Pend/2021/3-320/KE/3-02

DIREKABENTUK OLEH :

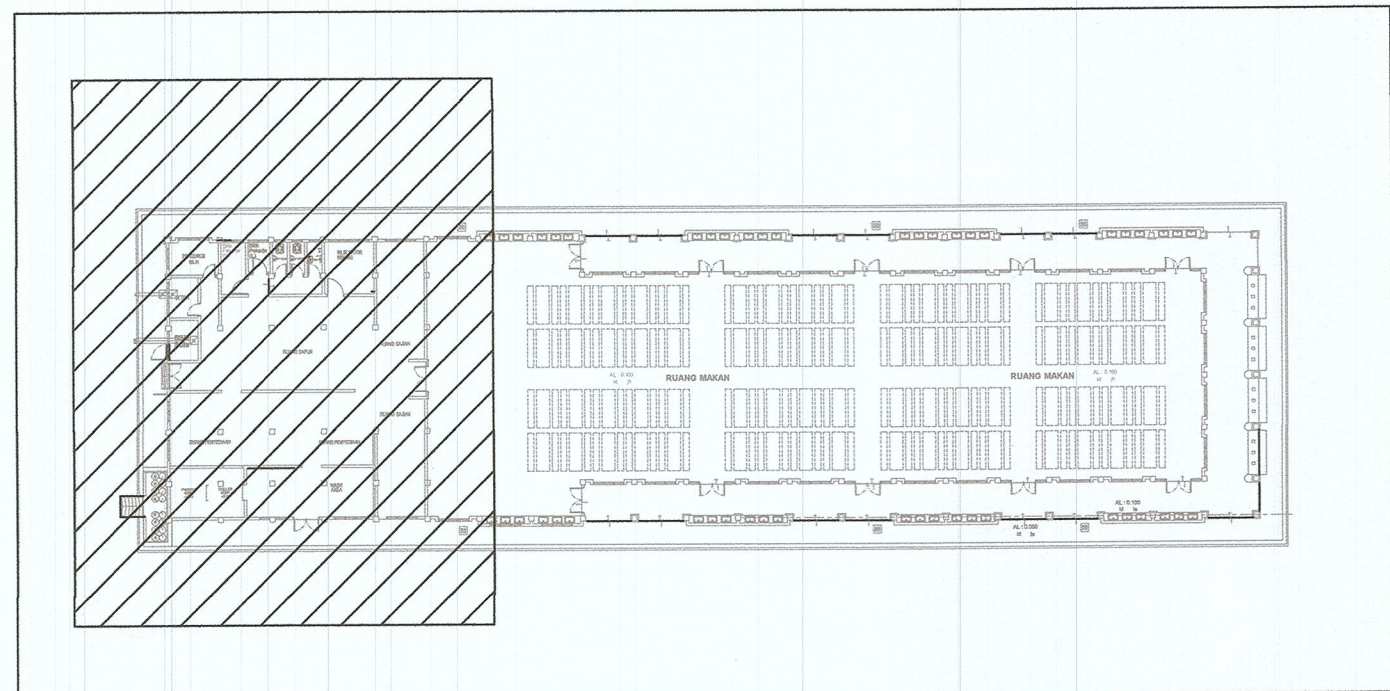
MUHAMMAD FAIZ BIN SHAFEE

DILUKIS :

SHAIPUL NIZAM B M ARSHAD



PELAN LANTAI ARAS SATU
SCALE: 1:75



PELAN KUNCI
TANPA SKALA

SCHEDULE OF KITCHEN EQUIPMENT

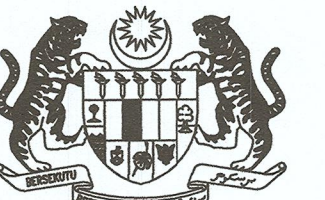
ITEM	DESCRIPTION OF EQUIPMENT	QTY	DIMENSION / SIZE	UTILITY
RUANG PENERIMAAN/ RECEIVING AREA				
RA-01	S/STEEL PLATFORM TROLLEY	1	900mm x 600mm x 850mm (H)	
RA-02	DIGITAL PLATFORM WEIGHING SCALE	1		ELECTRIC
RA-03	COCONUT SCAPPER	1		ELECTRIC
RA-04	INSECT KILLER	1		ELECTRIC
RA-05	S/STEEL 4 TIERS SLATTED RACK	2	1500mm x 500mm x 1500mm (H)	
BILIK SEJUK / CHILLER ROOM				
CR-01	S/STEEL 4 TIERS SLATTED RACK	2	1500mm x 500mm x 1500mm (H)	
CR-02	WALK IN CHILLER / TEMP. : 5°C	1	2850mm x 2150mm x 2400mm (H)	ELECTRIC
BILIK BEKU / FREEZER ROOM				
FR-01	S/STEEL 4 TIERS SLATTED RACK	2	1500mm x 500mm x 1500mm (H)	
FR-02	WALK IN CHILLER / TEMP. : -25°C	1		ELECTRIC
RUANG PENYEDIAAN SAYUR, DAGING & IKAN / PREPARATION AREA				
PA-01	S/STEEL 4 DOOR UPRIGHT CHILLER	2		ELECTRIC
PA-02	S/STEEL DOUBLE BOWL SINK TABLE	2	1800mm x 750mm x 850mm (H)	
PA-03	CHOPPING BLOCK C/W S/STEEL STAND	2	600mm x 600mm x 850mm (H)	
PA-04	S/STEEL WORK TABLE C/W SOLID UNDERSHELF	1	1800mm x 750mm x 850mm (H)	
PA-05	S/STEEL WORK TABLE C/W SOLID UNDERSHELF	1	1050mm x 750mm x 850mm (H)	
PA-06	S/STEEL WORK TABLE C/W SOLID UNDERSHELF	2	1500mm x 750mm x 850mm (H)	
PA-07	S/STEEL SINGLE BOWL SINK TABLE	1	1500mm x 750mm x 850mm (H)	
PA-08	S/STEEL 4 TIERS SOLID RACK	2	1500mm x 500mm x 1500mm (H)	
PA-09	INSECT KILLER	2		ELECTRIC
RUANG MEMASAK / COOKING AREA				
CA-01	S/STEEL TILTING KETTLE	2	Capacity: 45 Gallon	GAS
CA-02	S/STEEL KWALI COOKER	2	Size: 36 inch Dia.	GAS
CA-03	S/STEEL BOILING PAN C/W S/STEEL BASKET FOR RICE COOKING	1	Capacity: 30 Gallon	GAS
CA-04	S/STEEL SINGLE RING KWALI RANGE C/W KWALI - HIGH PRESSURE	2		GAS
CA-05	S/STEEL 4 OPEN BURNER C/W OVEN BELOW	1		GAS
CA-06	S/STEEL GRIDDLE	1		GAS
CA-07	S/STEEL RICE COOKER COUNTER	2	1500mm x 750mm x 850mm (H)	GAS
CA-08	PORTABLE RICE COOKER	8		GAS
CA-09	S/STEEL ISLAND TYPE EXHAUST HOOD C/W GREASE FILTER, LIGHTING, OIL TRAP, G.I DUCTING, EXHAUST VENTILATION FAN & CONTROL PANEL	1 Lot	6600mm x 2500mm x 600mm (H)	ELECTRIC
CA-10	S/STEEL MOBILE WORKTABLE C/W SOLID UNDERSHELF	3	2100mm x 750mm x 850mm (H)	
CA-11	INSECT KILLER	1		ELECTRIC
CA-12	S/STEEL 4TIERS SOLID RACK	3	1500mm x 500mm x 1500mm (H)	
CA-13	S/STEEL FOOD PAN C/W COVER	4	530mm x 325mm x 100mm(H)	
CA-14	S/STEEL 3 TIERS SERVICE TROLLEY	3	880mm x 610mm x 930mm(H)	

SCHEDULE OF KITCHEN EQUIPMENT

ITEM	DESCRIPTION OF EQUIPMENT	QTY	DIMENSION / SIZE	UTILITY
RUANG PENYEDIAAN MINUMAN / DRINKING PREP. AREA				
DP-01	ICE CUBE MACHINE	2		ELECTRIC
DP-02	S/STEEL SINGLE BOWL SINK TABLE	2	1500mm x 750mm x 850mm (H)	
DP-03	S/STEEL WATER BOILER - FLOOR STANDING	2	Capacity: 80 Litre	ELECTRIC
DP-04	S/STEEL WATER URN	4		ELECTRIC
DP-05	S/STEEL DRINK PREPARATION CABINET	2	1800mm x 750mm x 850mm(H)	
DP-06	INSECT KILLER	2		ELECTRIC
RUANG SAJIAN / SERVERY AREA				
SA-01	S/S MOBILE RICE WARMER CONTAINER	2	750mm x 750mm x 850mm (H)	
SA-02	S/STEEL 2 DECK OVERSHELF	4	1800mm x 300mm x 600mm(H)	
SA-03	S/STEEL BAIN MARIE C/W 5 NUMBER SIZE PAN	4	1800mm x 750mm x 850mm(H)	ELECTRIC
SA-04	S/STEEL ICE BIN COUNTER	2	650mm x 750mm x 850mm(H)	
SA-05	S/STEEL DRINK PREPARATION CABINET	2	1800mm x 750mm x 850mm(H)	
SA-06	TWMN TANK JUICE DISPENSER	4		
SA-07	INSULATED TYPE DRINK DISPENSER	4		
SA-08	INSECT KILLER	4		
SA-09	S/STEEL TRAY SLIDE	2	6800mm x 300mm x 150mm(H)	
SA-10	S/STEEL 'L SHAPE' GUARD RAIL	2	5875mm+475mm x 900mm(H)	
STOR KERING / DRY STORE				
DS-01	CHROME WIRE SHELVING	2	1500mm x 500mm x 1500mm(H)	
RUANG BASUH PINGGAN / DISHWASHING AREA				
WA-01	S/STEEL WASTE DISPOSAL TROLLEY	1	600mm Dia. x 700mm(H)	
WA-02	S/STEEL SOIL DISH TABLE C/W SCRAP HOLE	1	1800mm x 750mm. x 850mm(H)	
WA-03	PRE-RINSE FAUCET	1	1800mm x 750mm. x 850mm(H)	
WA-04	WATER HEATER	1	Capacity : 30 Gallon	
WA-05	S/STEEL TRIPPLE BOWL SINK TABLE	1	2100mm x 750mm x 850mm(H)	
WA-06	S/STEEL CLEAN DISH TABLE	1	1200mm x 750mm x 850mm(H)	
WA-07	S/STEEL 4 TIERS SLATTED RACK	1	1500mm x 500mm x 1500mm(H)	
WA-08	INSECT KILLER	1		ELECTRIC

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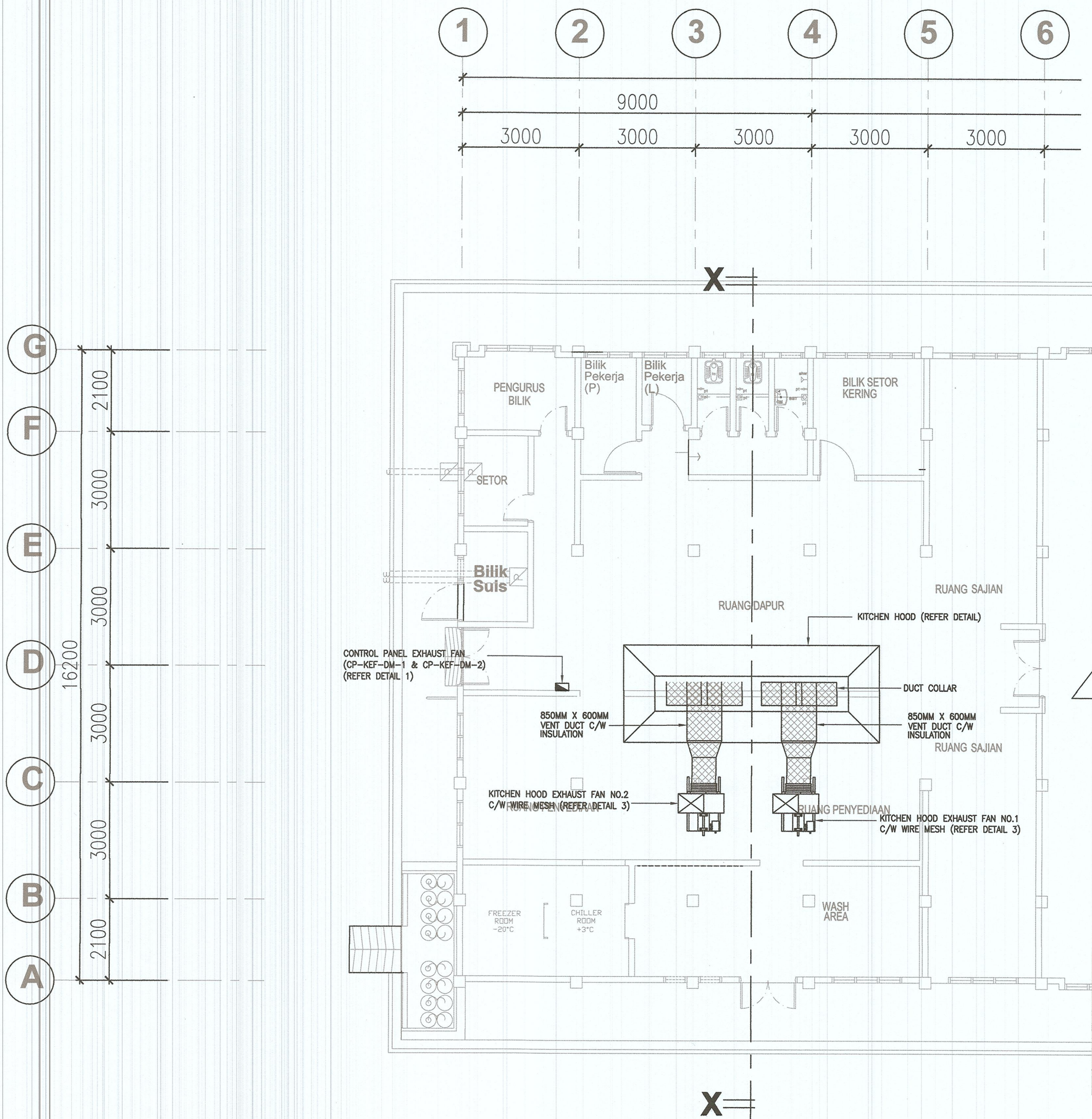
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KEBANGSAAN AGAMA SEBERANG PERAI
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TAJUK :

SISTEM PERALATAN DAPUR

- DEWAN MAKAN

SKALA :	DIREKABENTUK OLEH :
1:75	MUHAMMAD FAIZ BIN SHAFEE
TARIKH :	DILUKIS :
MAC 2021	SHAIPUL NIZAM B M ARSHAD
NO.LUKISAN:	
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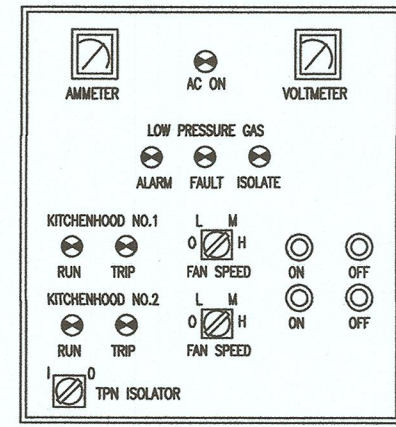
PELAN LANTAI ARAS SATU
SCALE: 1:75

SCHEDULE OF EXHAUST FAN

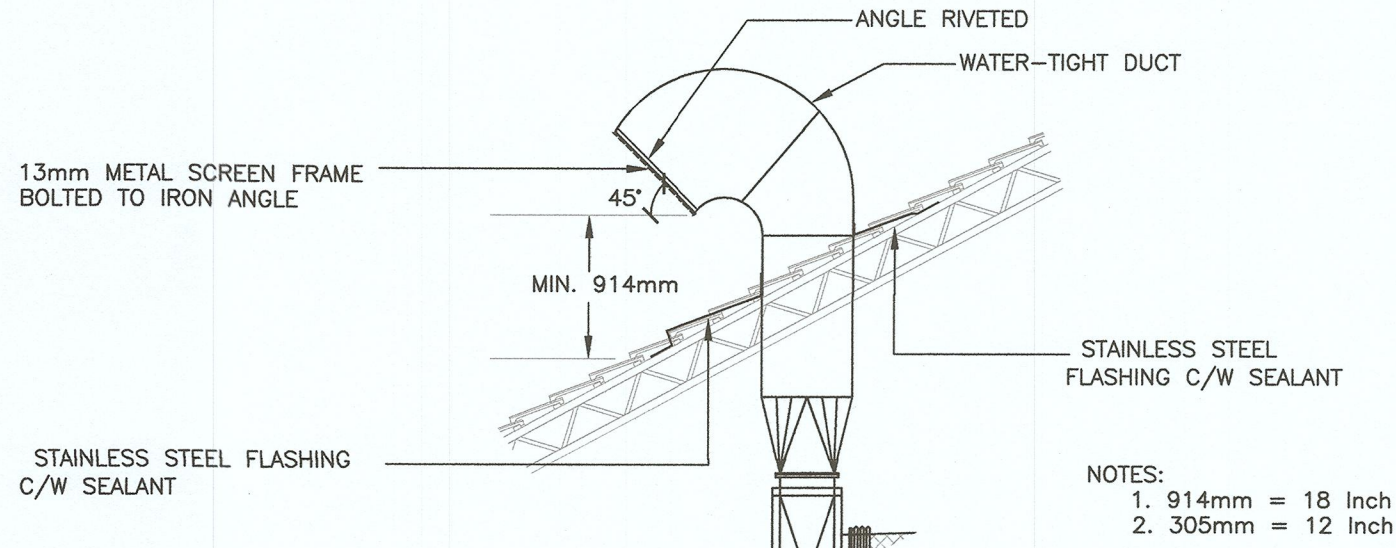
STAINLESS STEEL KITCHEN HOOD	No. 1	No. 2
TYPE OF FAN	CENTRIFUGAL	CENTRIFUGAL
FAN CAPACITY	8000 CFM	8000 CFM
FAN SPEED	500-1450 RPM	500-1450 RPM
FAN MODE SPEED CONTROL	3 SPEED MODE (LOW, MEDIUM, HIGH)	3 SPEED MODE (LOW, MEDIUM, HIGH)
FAN STATIC PRESSURE	2.5" WG	2.5" WG
NOISE LEVEL	65 dBA FREE FIELD	65 dBA FREE FIELD
FAN PULLEY / MOTOR PULLEY	2 GROOVE	2 GROOVE
FAN BELT	OIL RESISTANCE	OIL RESISTANCE
DUCT SILENCER	DS 1	DS 2
FAN WEIGHT (WO DUCT)	300 Kg	300 Kg

KITCHEN HOOD REQUIREMENT

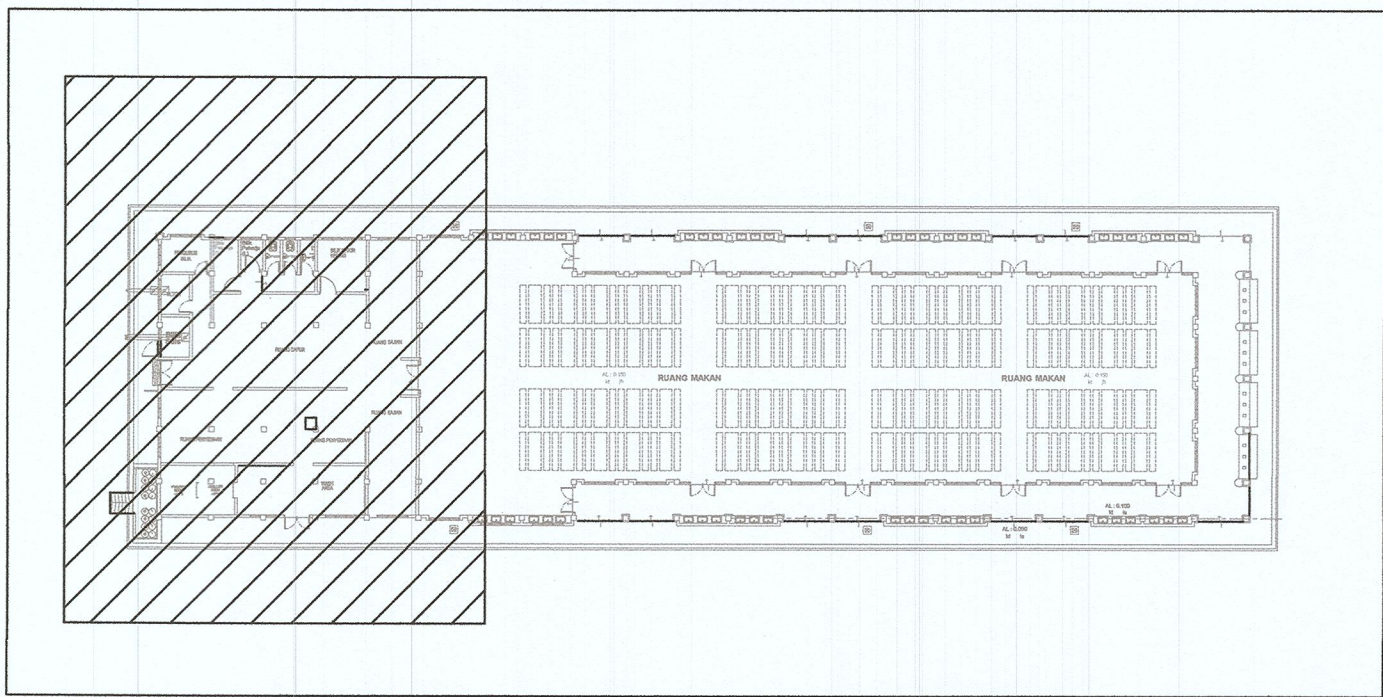
ITEM	MATERIAL	THICKNESS
KITCHEN HOOD	STAINLESS STEEL	16 SWG
C' SECTION STIFFENER	STAINLESS STEEL	16 SWG
GREASE FILTER	ALUMINIUM	3MM
DUCTING MATERIAL	GALVANISED IRON	16 SWG
BOLT & NUT FOR FIXING	STAINLESS STEEL	
KITCHEN HOOD HANGER	STAINLESS STEEL	1.5"x1.5" S/S ANGLE



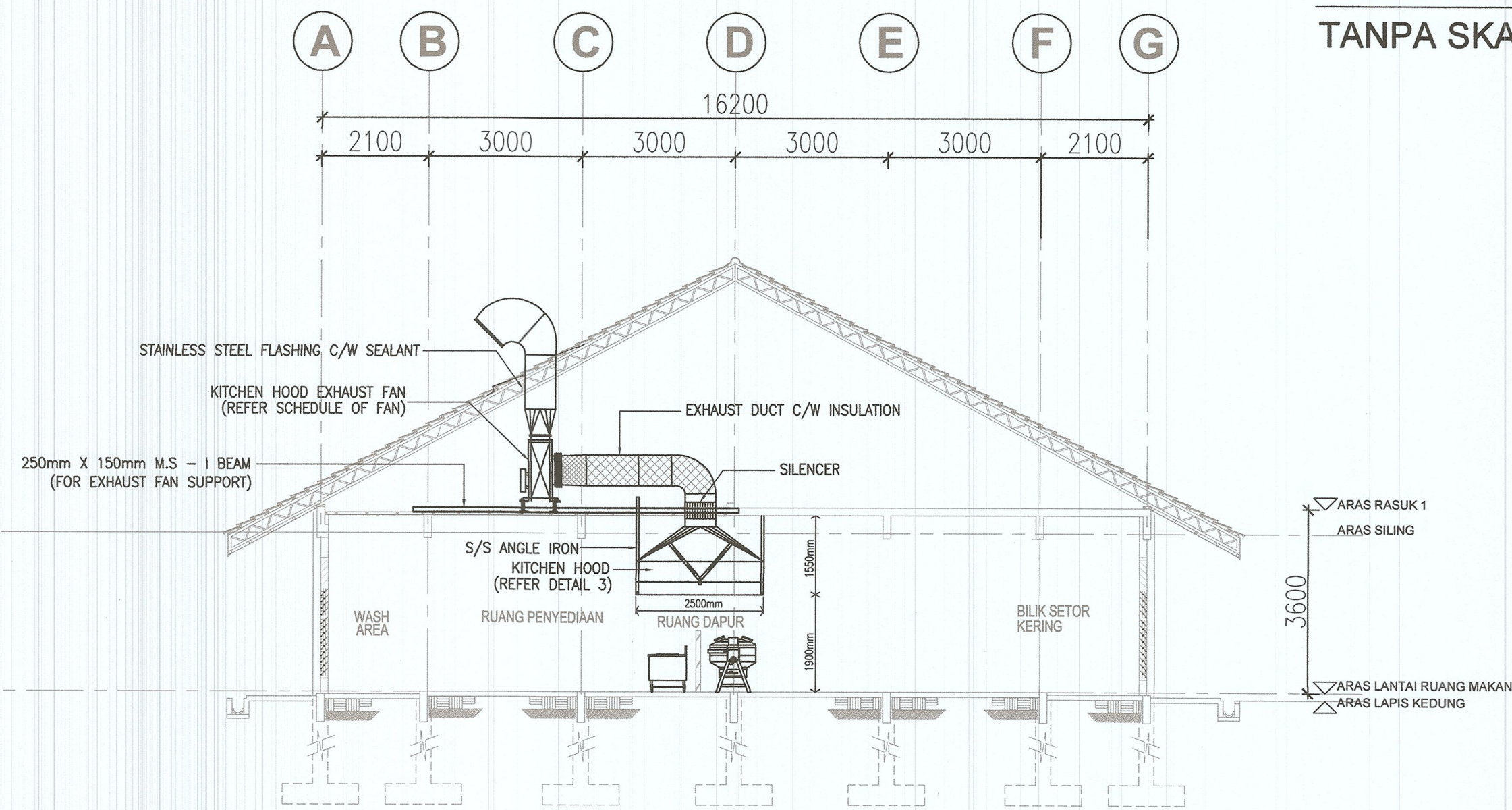
DETAIL 1: CONTROL PANEL
EXHAUST FAN
TANPA SKALA



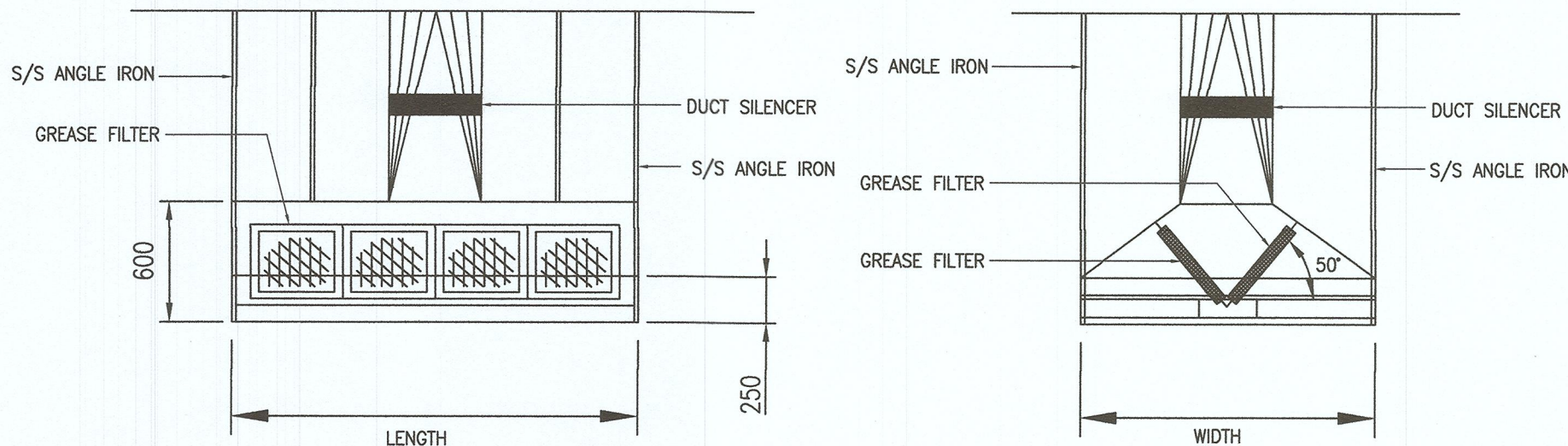
DETAILS 2 : RELIEF GOOSENECK DETAIL
TANPA SKALA



PELAN KUNCI
TANPA SKALA



KERATAN X-X
SCALE: 1:100



DETAILS 3 : TYPICAL KITCHEN HOOD
TANPA SKALA

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LEGEND :
C/W COMPLETE WITH
S/S STAINLESS STEEL



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TAJUK:

SISTEM PERALATAN DAPUR

KITCHEN HOOD & EXHAUST FAN

- DEWAN MAKAN

SKALA : DIREKABENTUK OLEH : *Mr. i.*

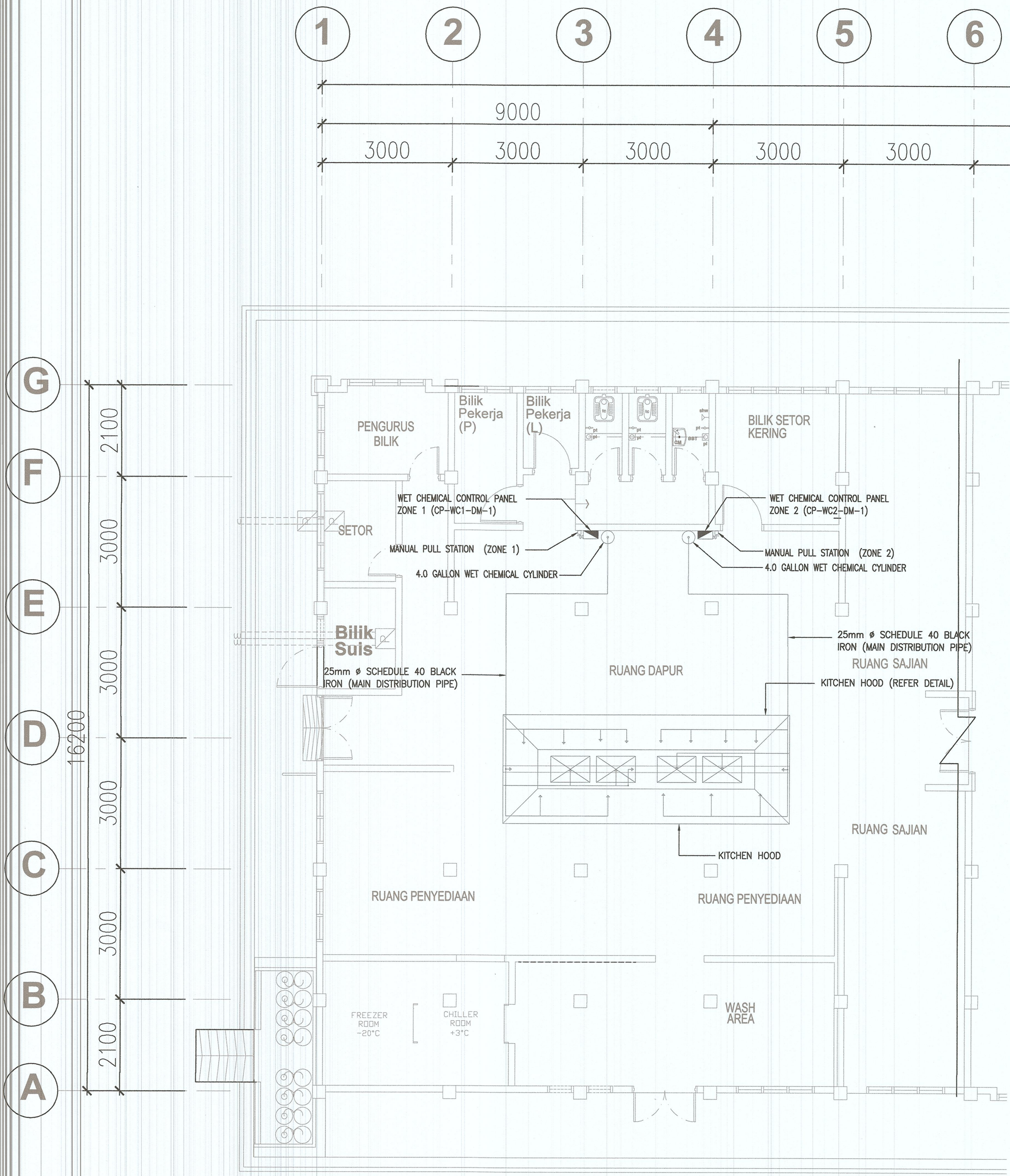
SEPERTI DITUNJUK MUHAMMAD FAIZ BIN SHAFEE

TARIKH : DILUKIS :

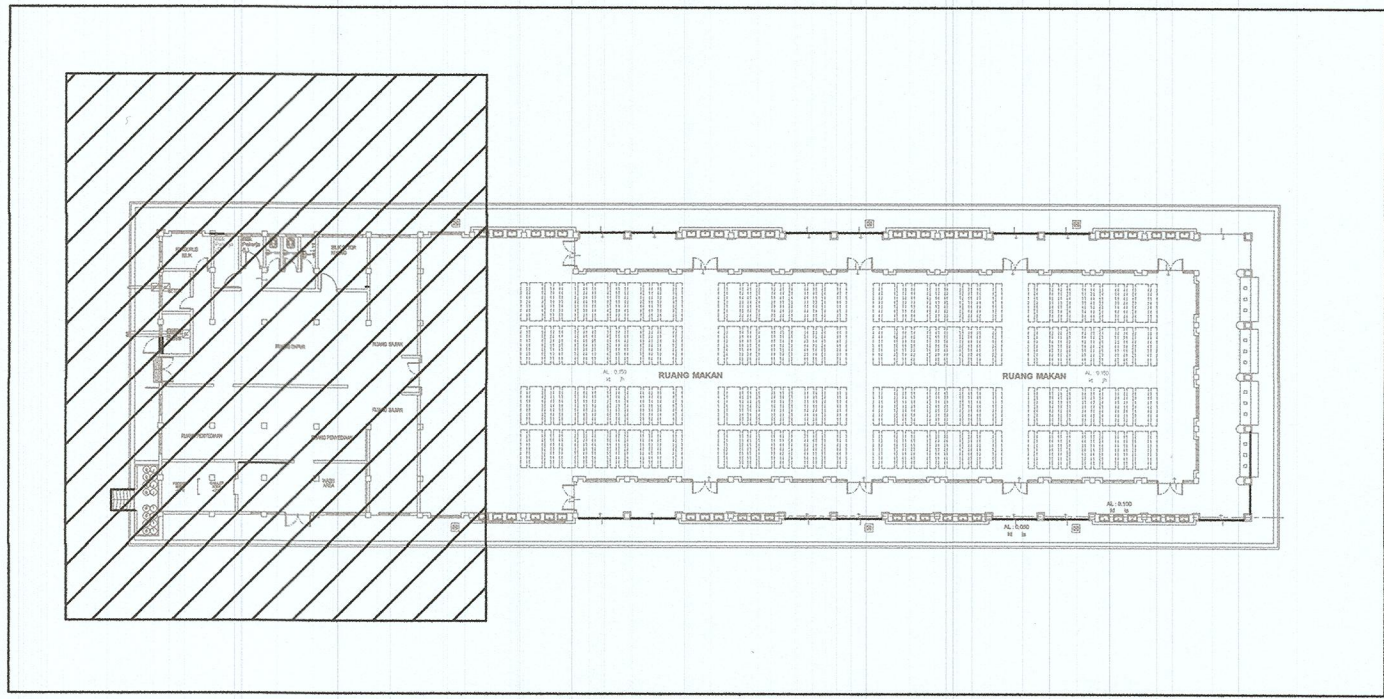
MAC 2021 SHAIPUL NIZAM B M ARSHAD

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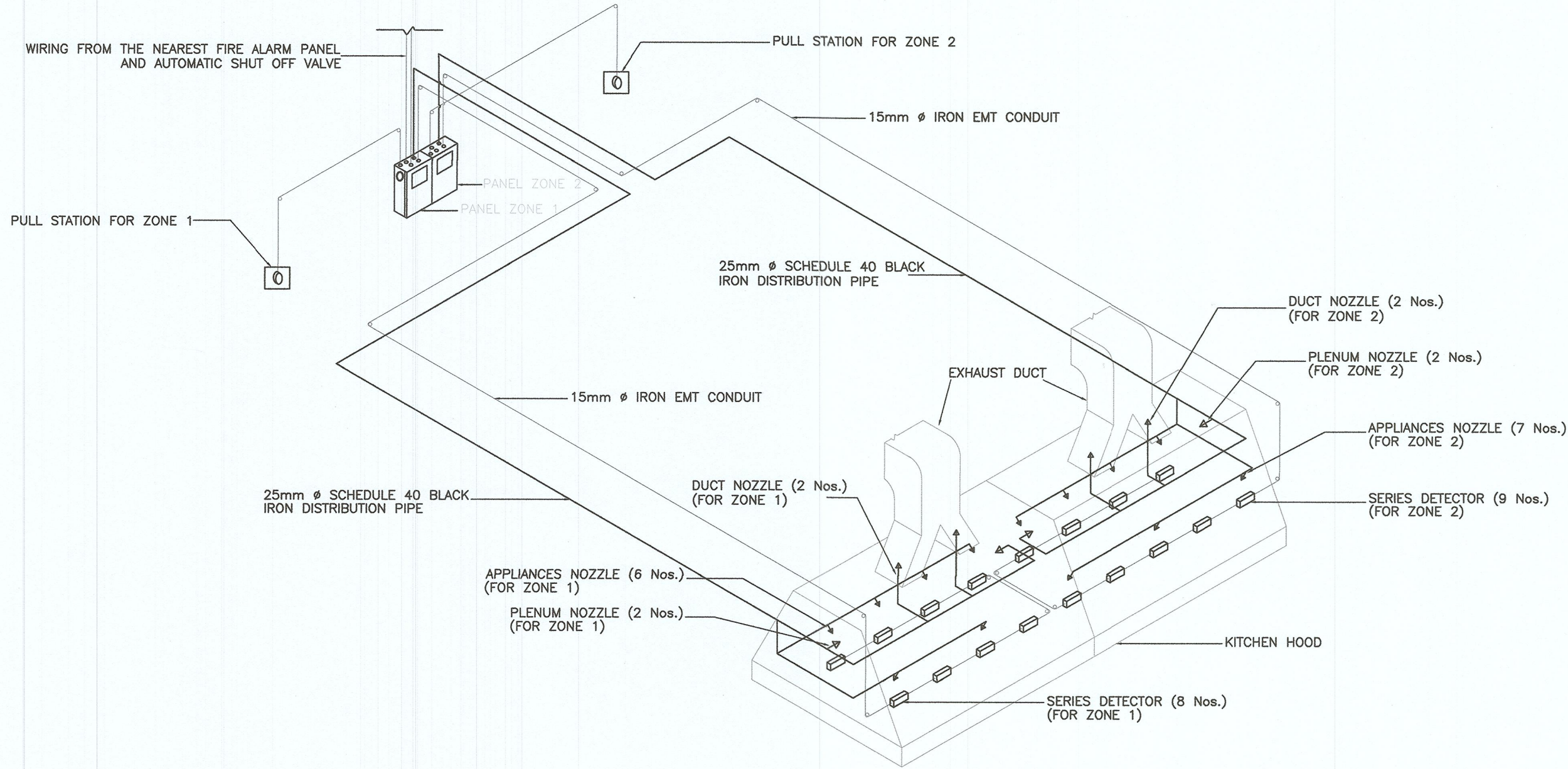
PELAN LANTAI ARAS SATU
SCALE: 1:75



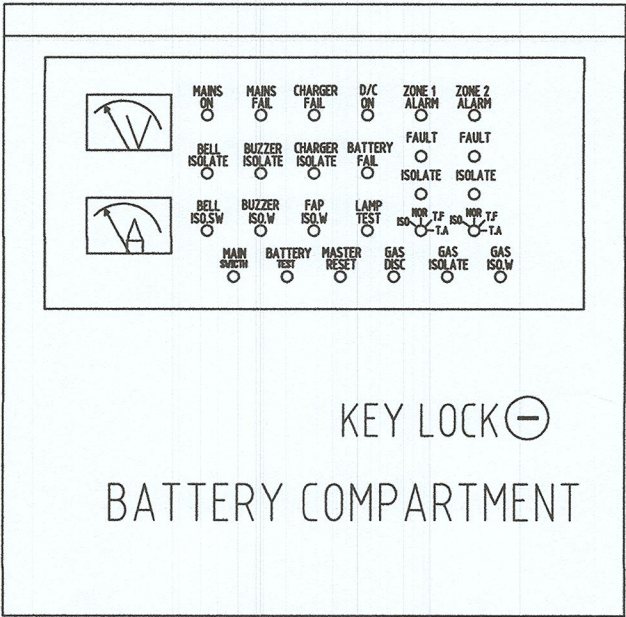
PELAN KUNCI
TANPA SKALA

SCHEDULE FOR WET CHEMICAL SYSTEM

	ZONE 1	ZONE 2
TANK CAPACITY	4.0 GALL. (Min)	4.0 GALL. (Min)
APPLIANCE NOZZLE	6 Nos.	7 Nos.
PLENUM NOZZLE	2 Nos.	2 Nos.
DUCT NOZZLE	2 Nos.	2 Nos.
SERIES DETECTOR	8 Nos.	9 Nos.



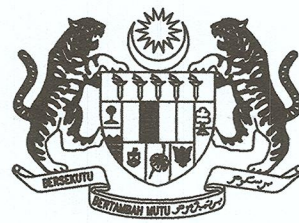
SCHEMATIC DRAWING FOR WET CHEMICAL SYSTEM
TANPA SKALA



TYPICAL CONTROL PANEL WET CHEMICAL SYSTEM
TANPA SKALA

NOTA PENENTUAN

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KERAJAAN MALAYSIA



JASA KEPADA RAKYAT

PEJABAT PENGARAH KANAN
IBU PEJABAT JKR MALAYSIA
CAWANGAN KEJURUTERAAN MEKANIKAL
TINGKAT 24-28, BLOK G,
NO.6, JALAN SULTAN SALAHUDDIN,
50480 KUALA LUMPUR.

DISAHKAN :

PENGARAH KANAN CAWANGAN KEJURUTERAAN MEKANIKAL

DATO' Ir. HJ. HABBALI BIN IBRAHIM

PENGARAH REKABENTUK CAWANGAN KEJURUTERAAN MEKANIKAL

Ir. SUHAILI BIN MANSOR

JURUTERA MEKANIKAL PENGUASA KANAN
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JURUTERA MEKANIKAL KANAN
(BAHAGIAN REKABENTUK PENDIDIKAN)

Ir. MOHD FADZIL BIN RAHIM

PROJEK :

PEMBINAAN SEKOLAH BAHARU 20 BILIK
DARJAH, ASRAMA (300L & 300P) DAN
LAIN-LAIN KEMUDAHAN MENGIKUT
PIAWAIAN DI SEKOLAH MENENGAH
KEBANGSAAN AGAMA SEBERANG PERAI
TENGAH,PULAU PINANG

TAJUK :

SISTEM PERALATAN DAPUR

WET CHEMICAL SYSTEM

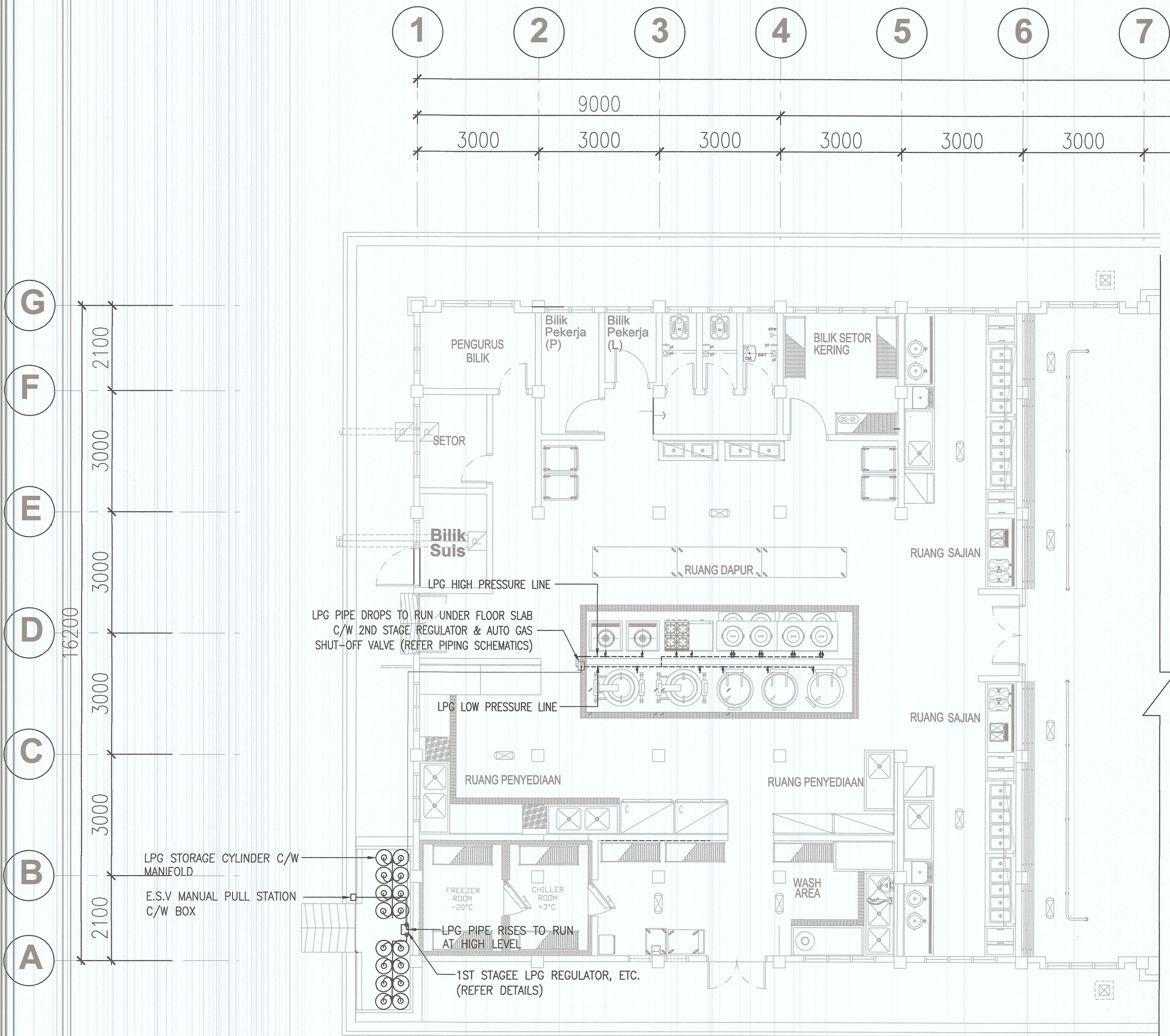
- DEWAN MAKAN

SKALA : DIREKABENTUK OLEH : Ir. HJ. MUHAMMAD FAIZ BIN SHAFEE

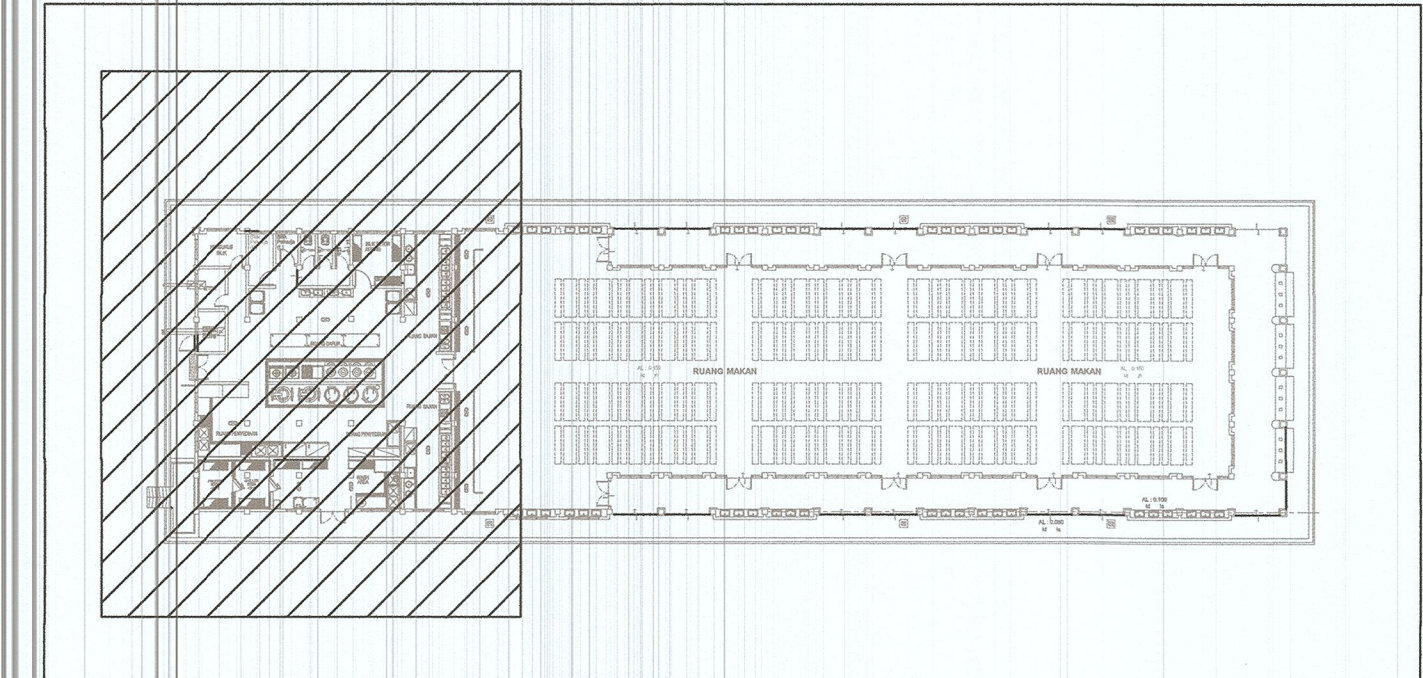
SEPERTI DITUNJUK

TARIKH : MAC 2021 DILUKIS : SHAIPUL NIZAM B M ARSHAD

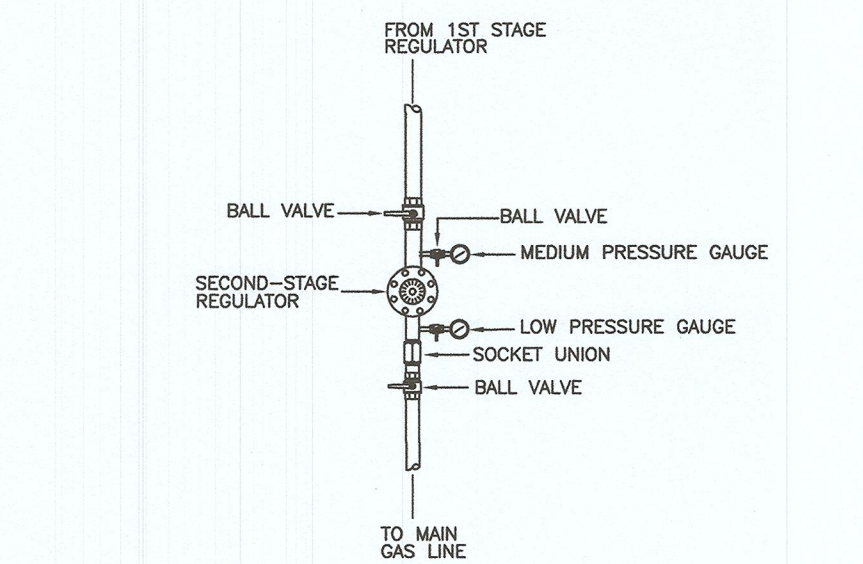
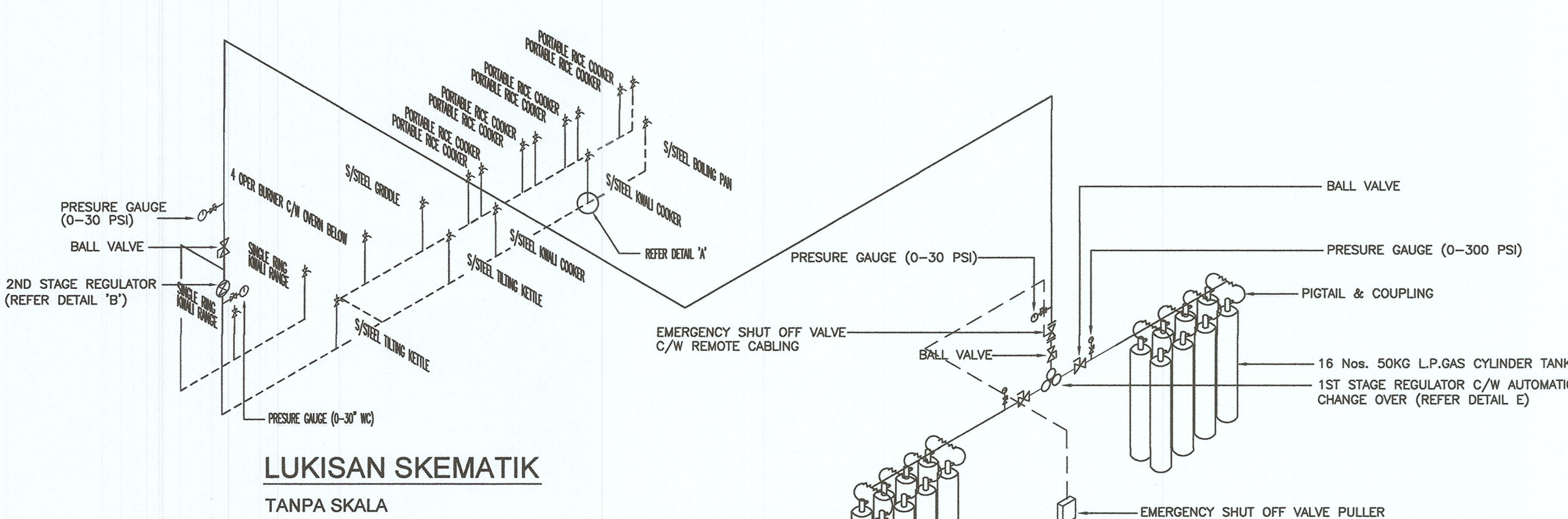
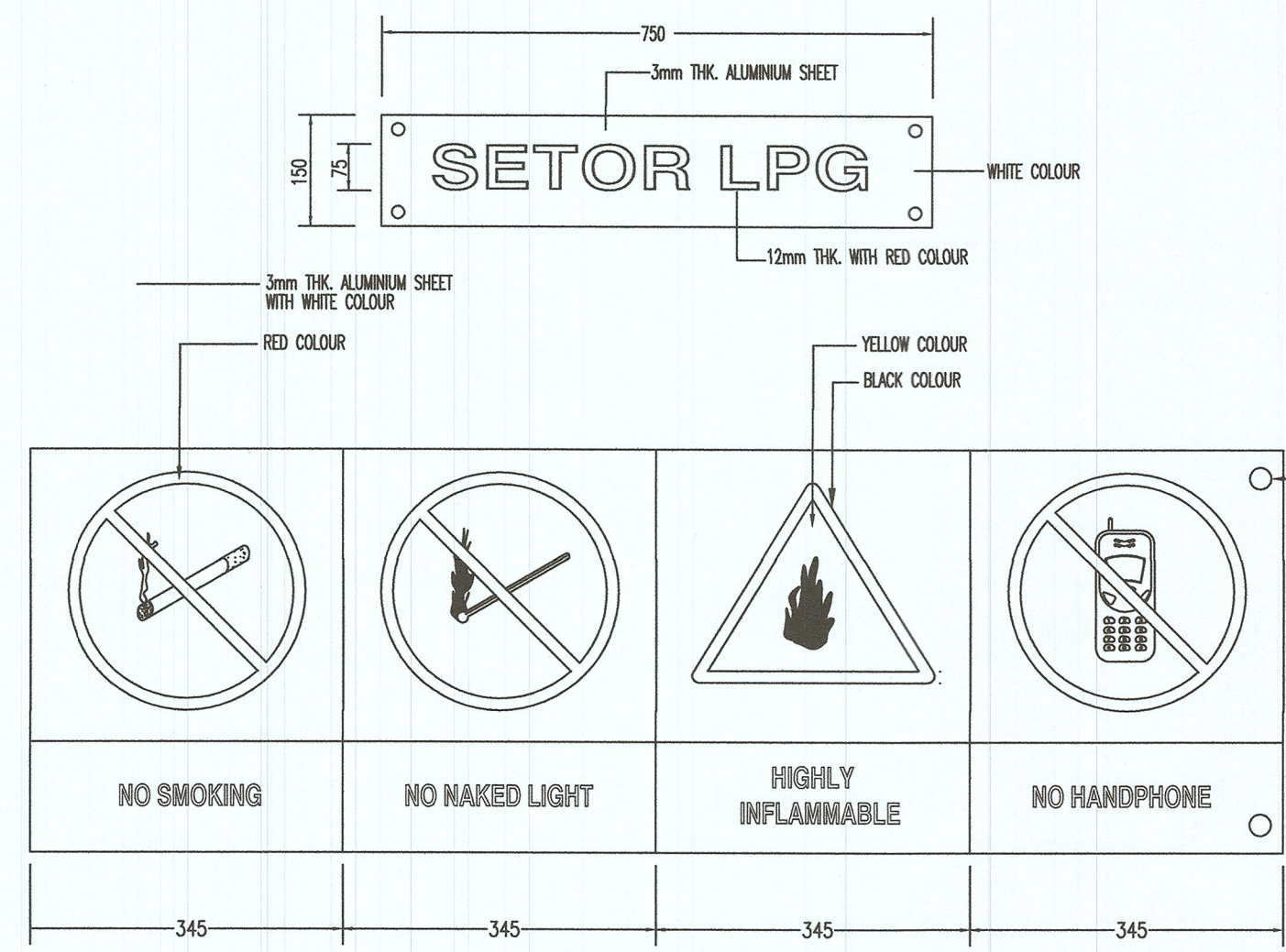
NO.LUKISAN: MEK/Pend/2021/3-320/KE/3-05



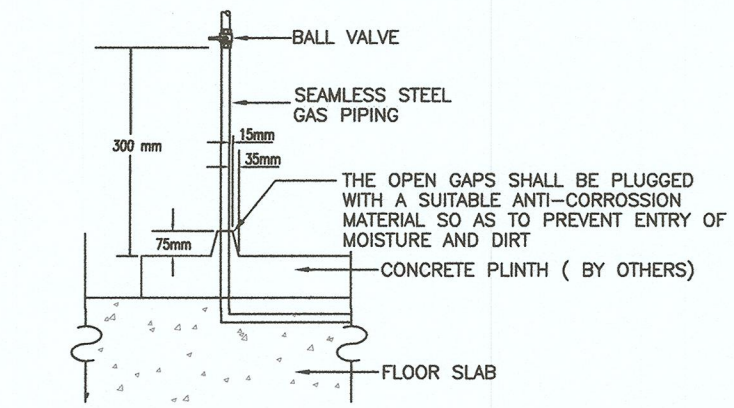
PELAN LANTAI ARAS SATU
SCALE: 1:75



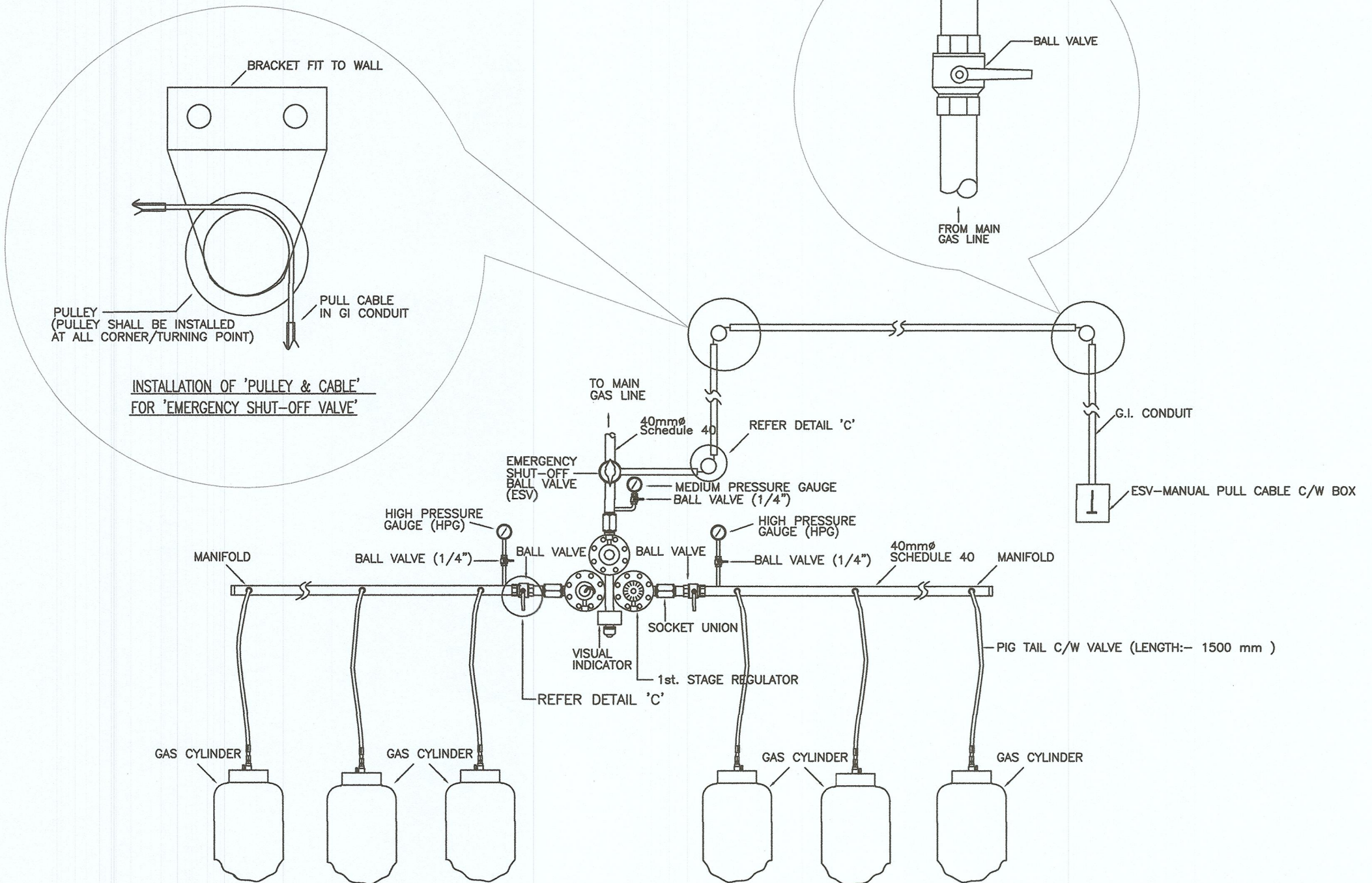
PELAN KUNCI
TANPA SKALA



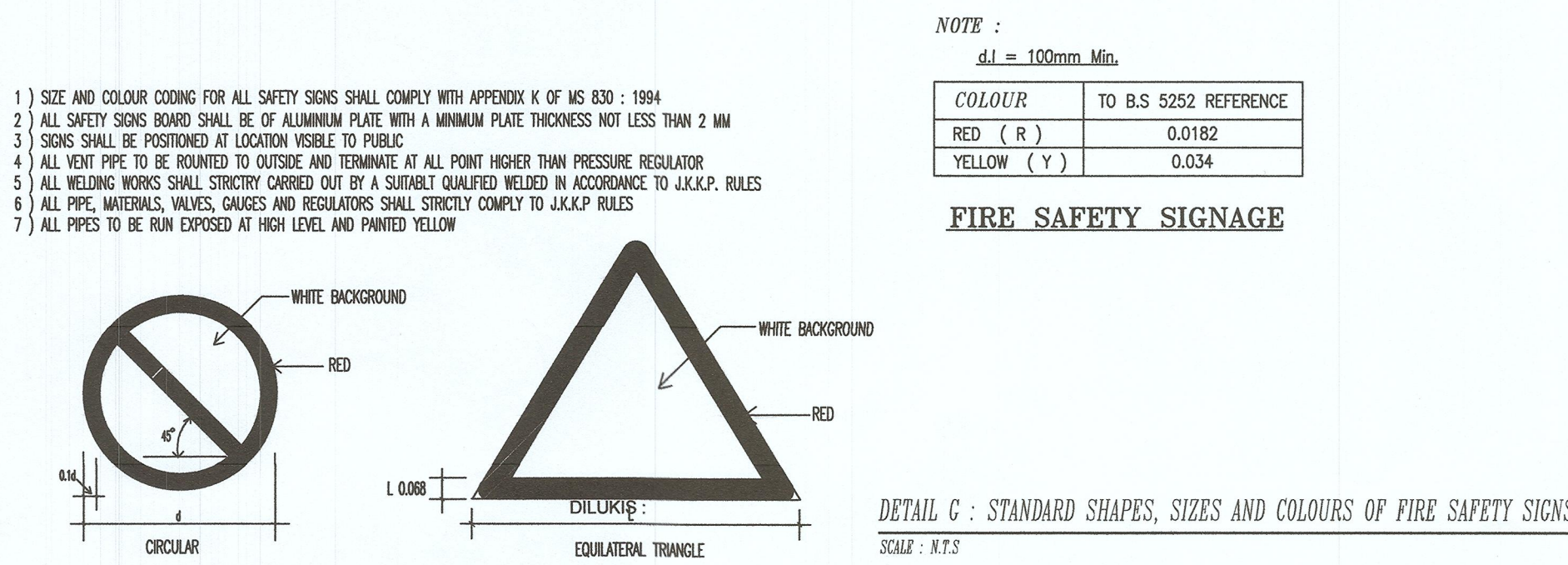
DETAIL 'B' - SECOND STAGE REGULATOR
TANPA SKALA



DETAIL 'A'
TANPA SKALA



DETAILS 'E' : MANIFOLD COMPLETE WITH MANUAL PULL CABLE
SYSTEM AND AUTOMATIC CHANGE-OVER REGULATOR
TANPA SKALA



NOTE :

COLOUR	TO B.S. 5252 REFERENCE
RED (R)	0.0182
YELLOW (Y)	0.034

FIRE SAFETY SIGNAGE

NOTA PENENTUAN

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LEGEND:

---	LPG SUPPLY PIPE
---	LPG SUPPLY PIPE (CHASED UNDER FLOOR SLAB)
---	ISOLATING VALVE (FULL BORE BALL VALVE)
G	GAS
C/W	COMPLETE WITH

KERAJAAN MALAYSIA

JASA KEPADA RAKYAT
PEJABAT PENGARAH KANAN
IBU PEJABAT JKR MALAYSIA
CAWANGAN KEJURUTERAAN MEKANIKAL
TINGKAT 24-28, BLOK G,
NO.8, JALAN SULTAN SALAHUDDIN,
50480 KUALA LUMPUR.

DISAHKAN :

PENGARAH KANAN CAWANGAN KEJURUTERAAN MEKANIKAL

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Ir. MOHD FADZIL BIN RAHIM
PROJEK :

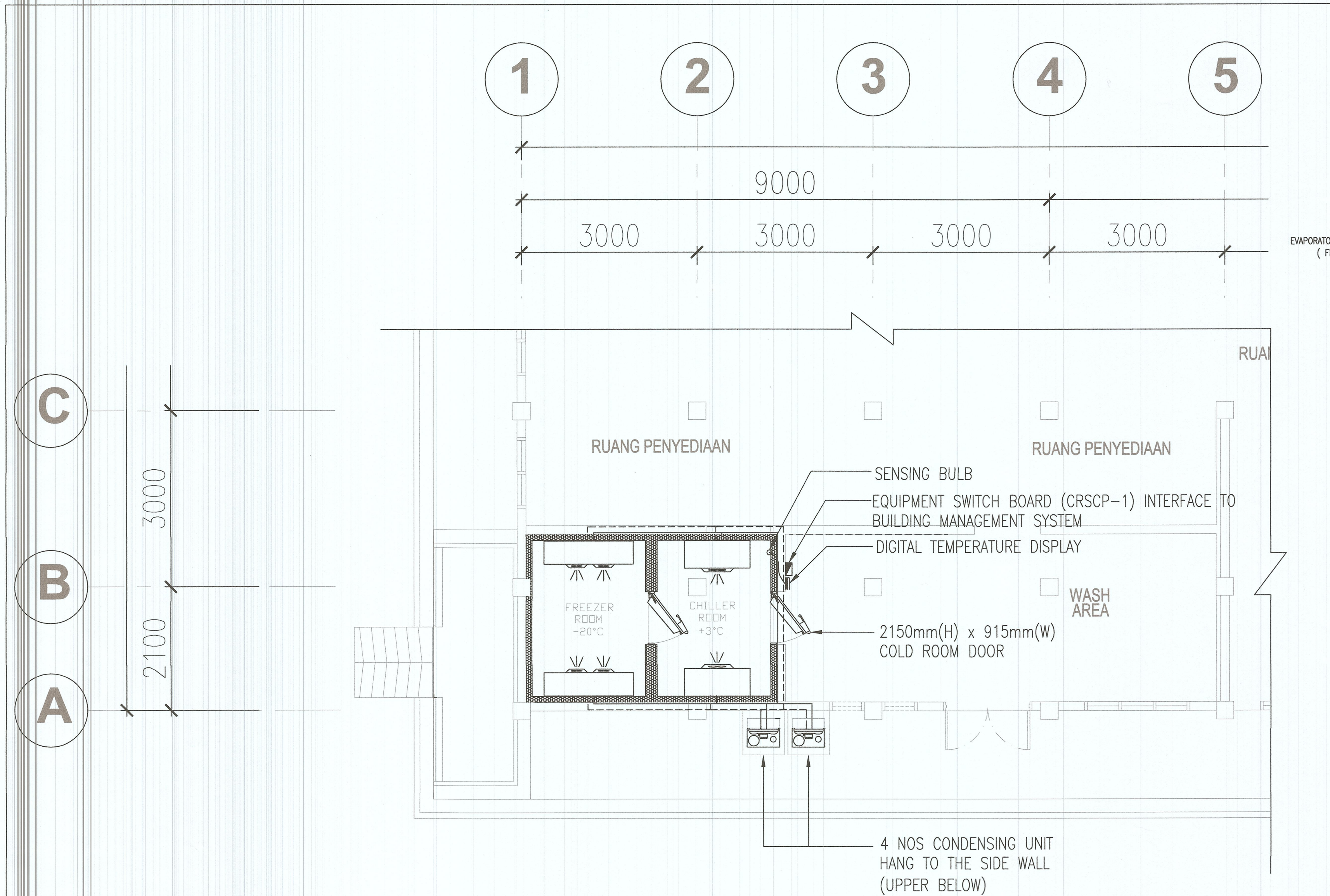
PEMBINAAN SEKOLAH BAHARU 20 BILIK DARJAH, ASRAMA (300L & 300P) DAN LAIN-LAIN KEMUDAHAN MENGIKUT PIWAIAAN DI SEKOLAH MENENGAH KEBANGSAAN AGAMA SEBERANG PERAI TENGAH,PULAU PINANG

TAJUK : **LIQUEFIED PETROLEUM GAS (LPG) SYSTEM**

- DEWAN MAKAN

SKALA :	DIREKABENTUK OLEH :
SEPERTI DITUNJUK	MUHAMMAD FAIZ BIN SHAFEE
TARIKH :	DILUKIS :
MAC 2021	SHAIPUL NIZAM B M ARSHAD
NO LUKISAN :	

MEK/Pend/2021/3-320/KE/3-06



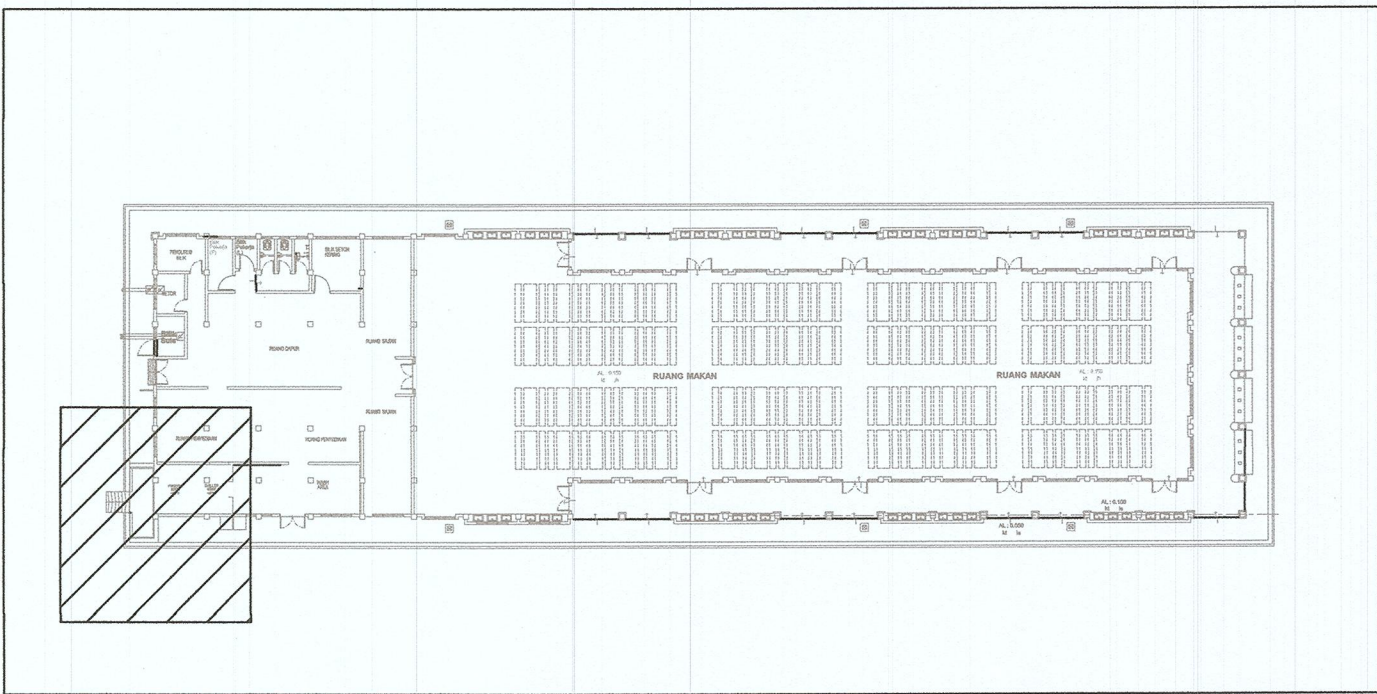
PELAN LANTAI ARAS SATU (GRID 1-5/A-C)
SCALE: 1:50

FREEZER ROOM:	
COOLING CAPACITY (MINIMUM):	38,000 Btu/hr
RELATIVE HUMIDITY RANGE:	55% ± 5 RH
NORMAL OPERATING TEMPERATURE:	-20°C
REFRIGERANT:	R134A

CHILLER ROOM:	
COOLING CAPACITY (MINIMUM):	29,000 Btu/hr
RELATIVE HUMIDITY RANGE:	55% ± 5 RH
NORMAL OPERATING TEMPERATURE:	+3°C
REFRIGERANT:	R134A

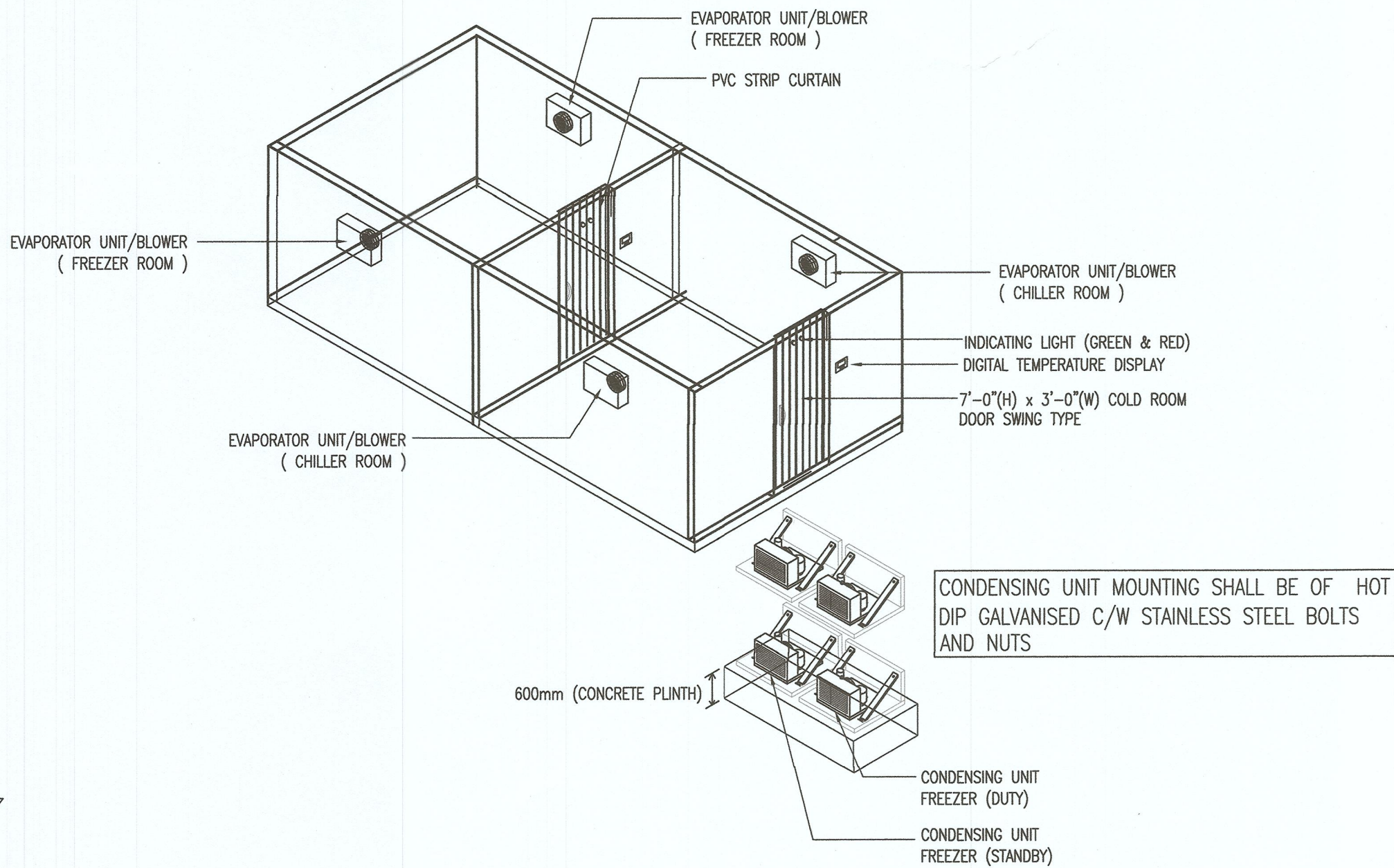
Evaporator	Air Flow	Type	Pipe Inlet	Suction Outlet
Chiller Room	4,760 cfm	unit cooler	12.70mm	28.60mm
Freezer Room	11,100 cfm	unit cooler	15.88mm	34.90mm

COLD ROOM INSULATION PANEL.		
LOCATION	MATERIAL	THICKNESS
CHILLER ROOM	POLYURETHANE	4"
FREEZER ROOM	POLYURETHANE	5"

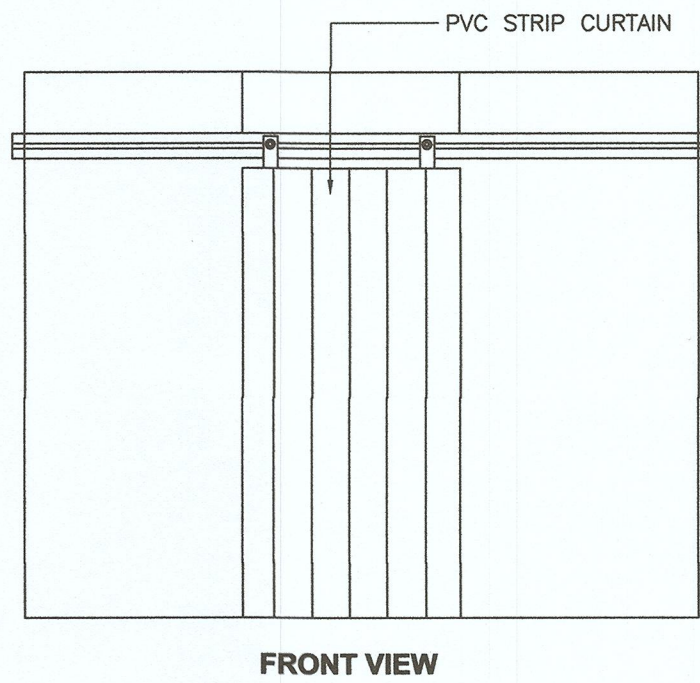


PELAN KUNCI
TANPA SKALA

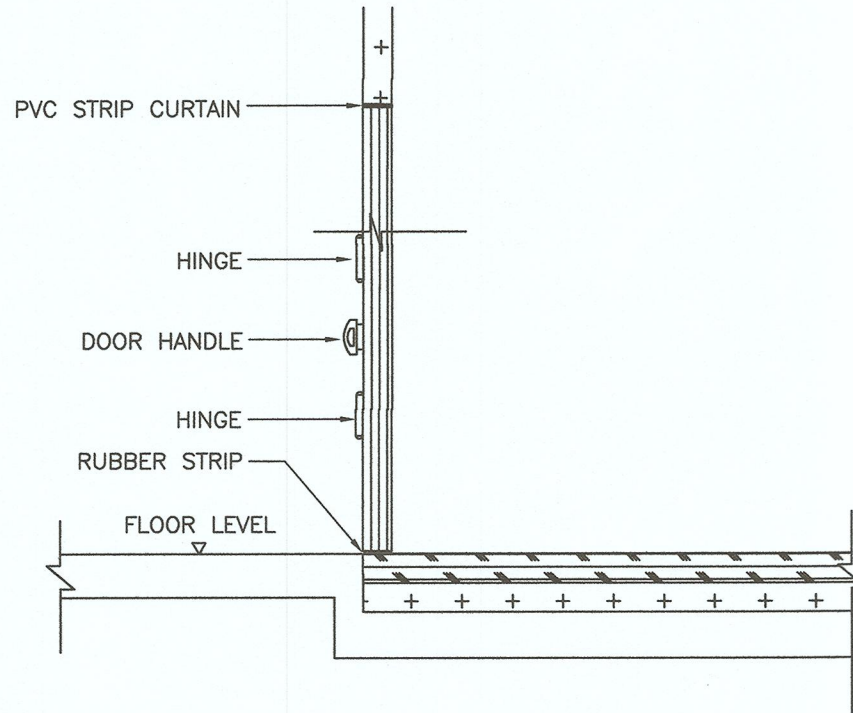
Condensing Unit	Compressor	Ref. Load	Pipe Inlet	Suction Outlet	Motor Output
Chiller Room	Hermatic	8.67 kw/ 29,600 Btu/hr	13mm	16mm	120 Watt
Freezer Room	Hermetic	11.14 kw/ 38,050 Btu/hr	13mm	16mm	250 Watt



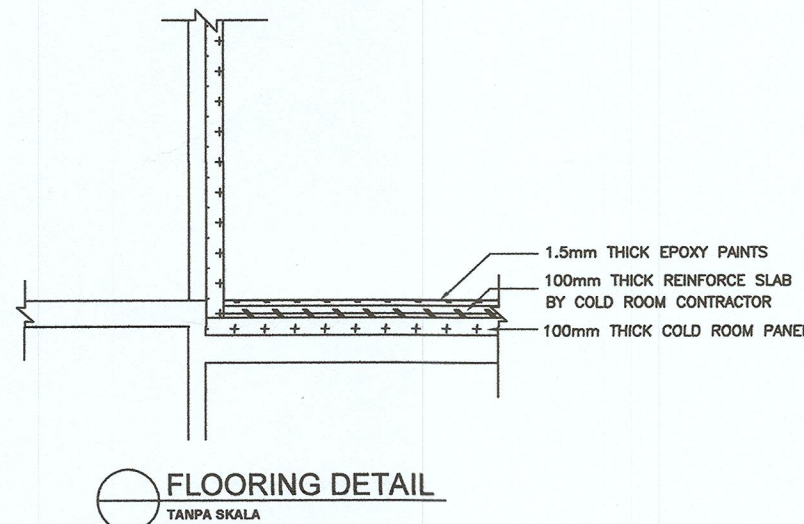
PANDANGAN ISOMETRIK
TIDAK MENGIKUT SKALA



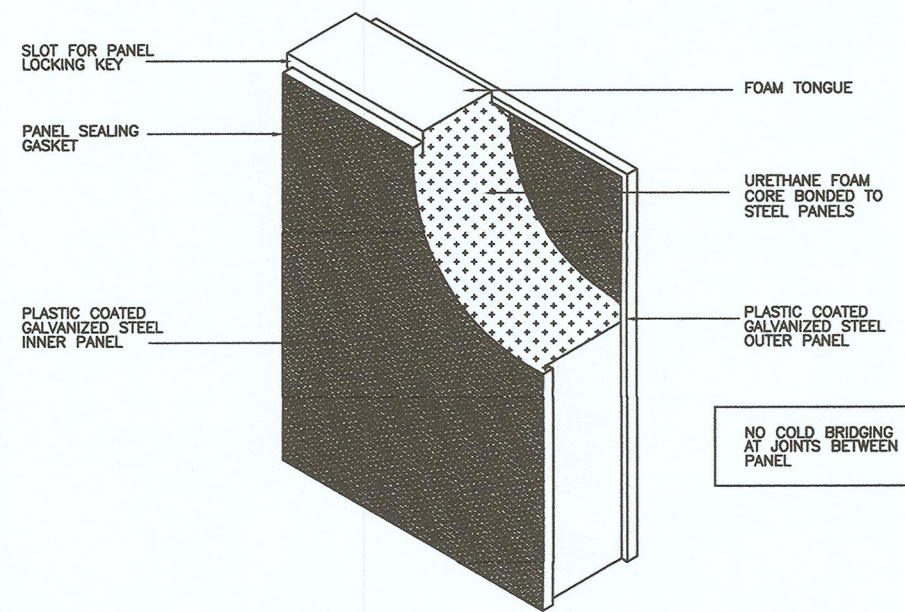
PVC STRIP CURTAIN
TIDAK MENGIKUT SKALA



DOOR SECTION VIEW
TIDAK MENGIKUT SKALA



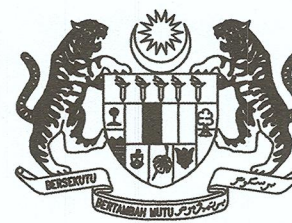
FLOORING DETAIL
TANPA SKALA



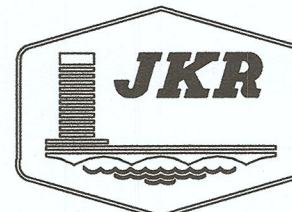
DETAILS OF TYPICAL INSULATED PANEL
TIDAK MENGIKUT SKALA

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TINGKAT 24-28, BLOK G,
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PIAWAIAN DI SEKOLAH MENENGAH
KEBANGSAAN AGAMA SEBERANG PERAI
TENGAH,PULAU PINANG

TAJUK :

SISTEM PERALATAN DAPUR

COLD ROOM SYSTEM

- DEWAN MAKAN

SKALA : DIREKABENTUK OLEH: *faiz*

SEPERTI DITUNJUK MUHAMMAD FAIZ BIN SHAFEE

TARIKH :

MAC 2021 SHAIPUL NIZAM B M ARSHAD

NO.LUKISAN:

MEK/Pend/2021/3-320/KE/3-07