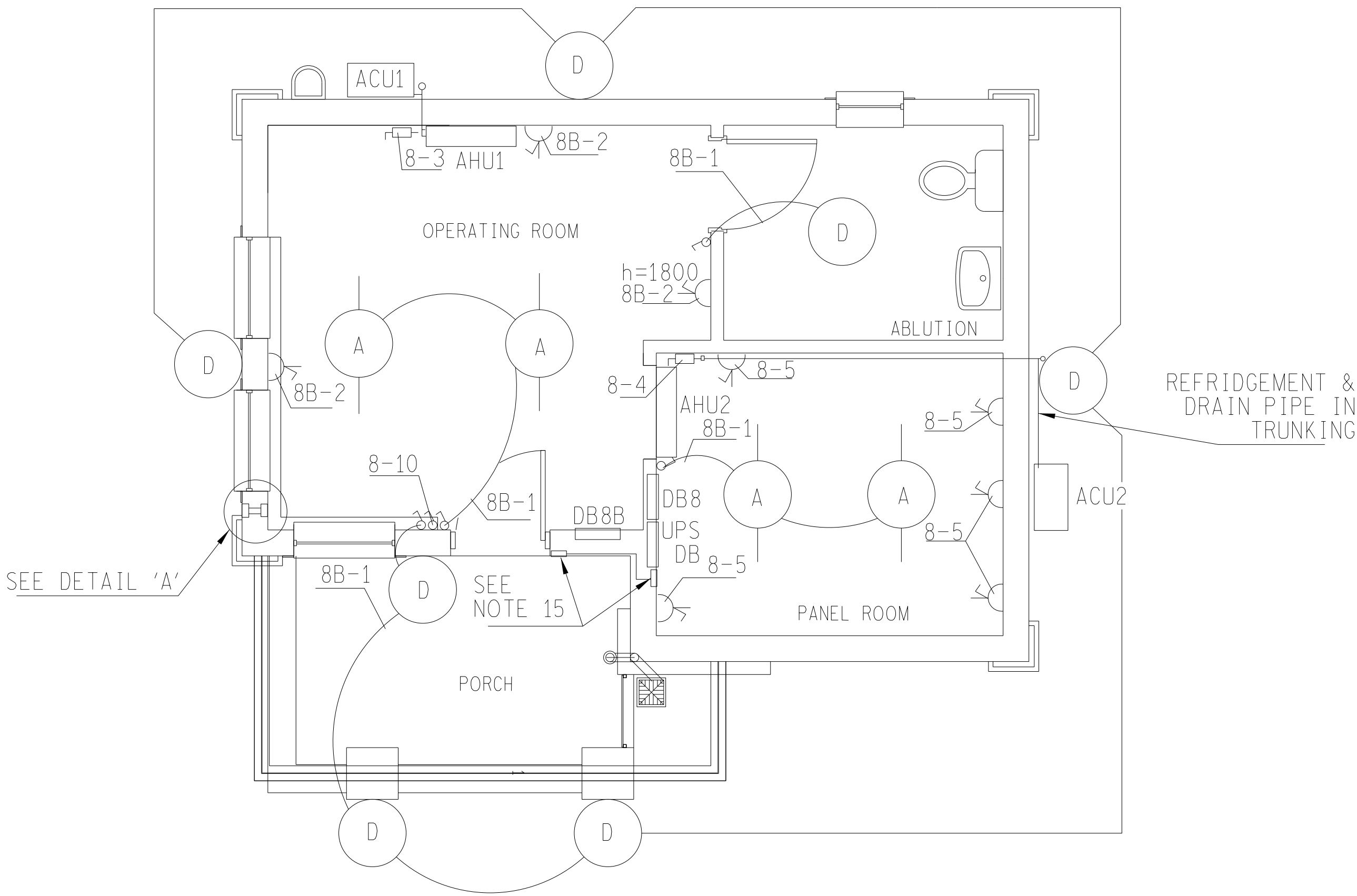




SCHEDULE OF LUMINAIRES WITH LAMPS

PLAN REF	DESCRIPTION	SUPPLIERS	CAT No
A	SURFACE MOUNTED LED LUMINAIRE.COLOUR TEMP.4000K.	LASCON LIGHTING	LBP-24-S-60W-LED/EMG
D	CEILING AND WALL LUMINAIRE.COLOUR TEMP.4000K.	LASCON LIGHTING	RIMINI-DOME 21W-LED
	100X100MM,4X4 COMBINATION SOCKET, CLASSIC, FLUSH, WHITE	CRABTREE	
	2X4 2 LEVER 1 WAY,50X100, BAGGED, CLASSIC, WHITE	CRABTREE	
	119X83 ISOLATOR, CLASSIC, WHITE	CRABTREE	

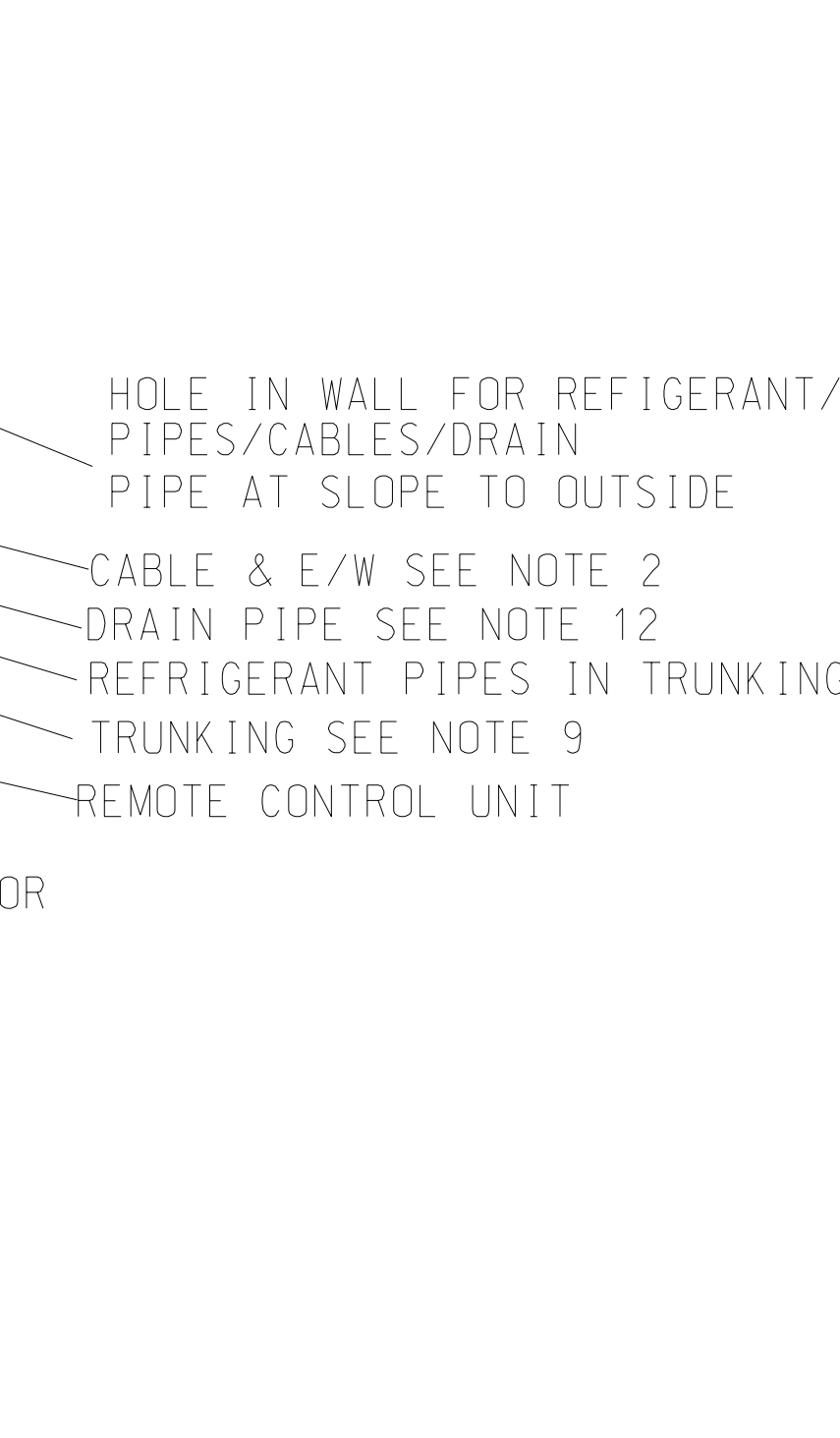
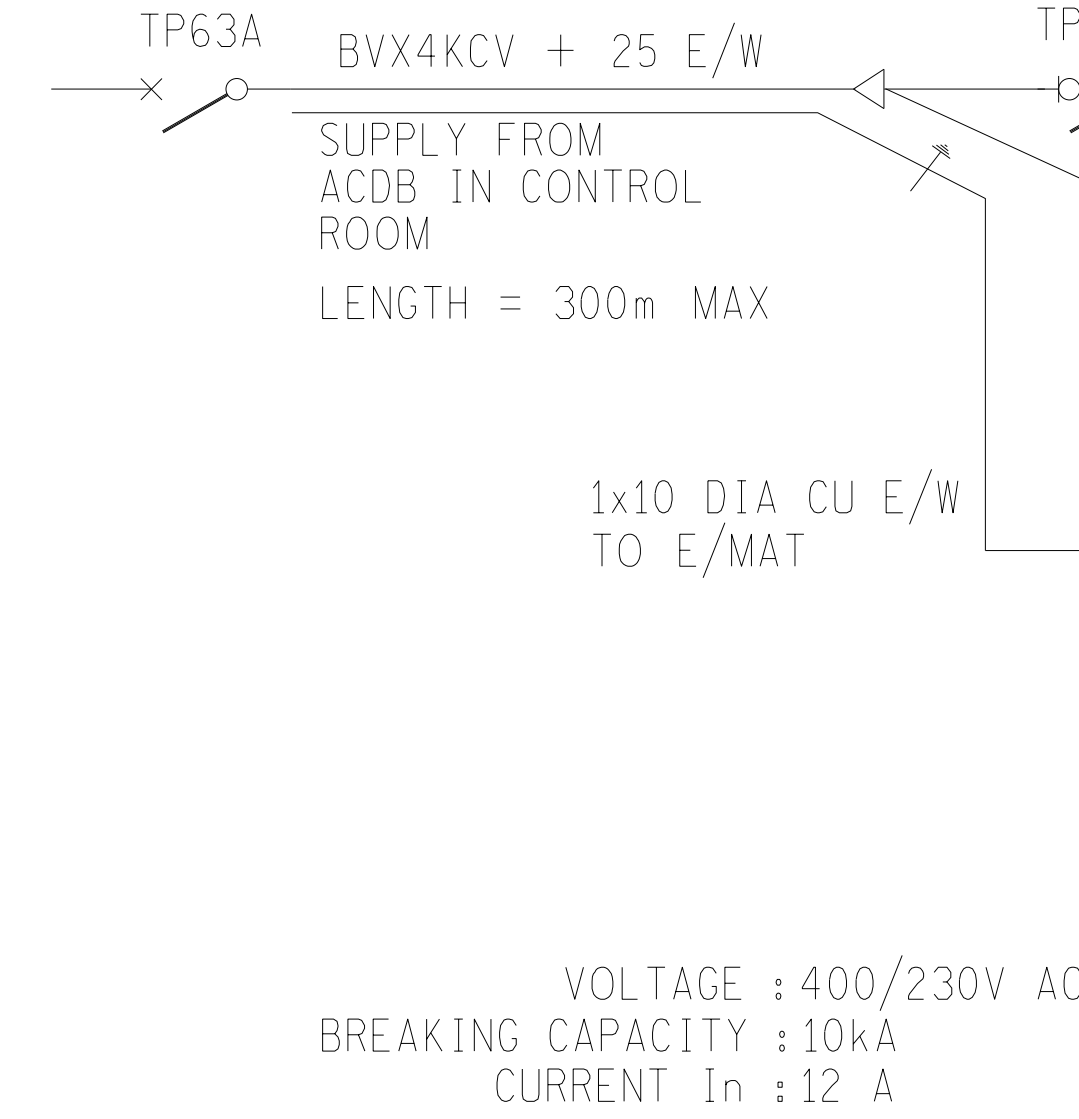
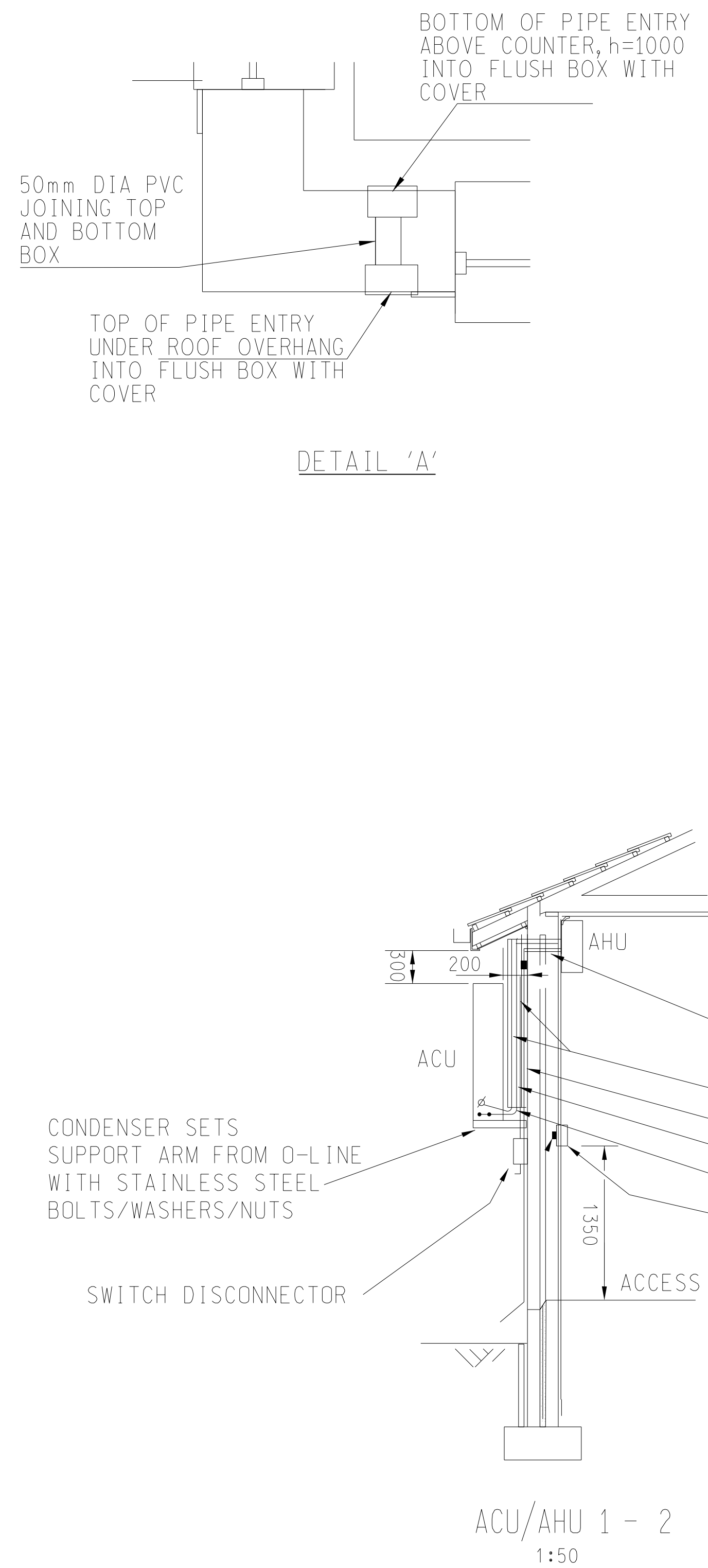
NOTES

- ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH:
 - SANS 10142
 - MODEL PREAMBLES FOR TRADES, SECTION 'S'ELECTRICAL WORK
 - TECHNICAL SPECIFICATION
- ALL WIRING SHALL BE CARRIED OUT USING PVC CABLES IN PVC CONDUITS TYPE OF INSTALLATION-FLUSH
- COLOUR OF LIGHT SWITCHES & SOCKET-OUTLET COVERS-WHITE
- MOUNTING HEIGHTS ABOVE FFL
 - LIGHT SWITCHES-1350
 - SOCKET-OUTLETS-350
 - DB -2000 TO TOP OF BOARD
 - LUMINAIRES SHALL BE INSTALLED AS SHOWN ON PLAN
- EARTH & NEUTRAL TERMINALS SHALL BE OF THE PRESSURE PLATE TYPE WITH CAPTIVE SCREWS
- POWER/CONTROL CABLES IN ROOF SPACE SHALL BE INSTALLED ON CABLE RACKING
- POWER/CONTROL CABLES AND REFRIGERANT PIPES IN ROOF SPACE IN CONTROL ROOM SHALL BE INSTALLED IN TRUNKING WITH COVERS
- POWER/CONTROL CABLES AND REFRIGERANT PIPES ON OUTSIDE WALLS SHALL BE INSTALLED IN TRUNKING WITH COVERS
- TRUNKING SHALL BE FABRICATED FROM 1mm SHEET STEEL,MEASURING 127x76,2 WITH CLIP-ON COVER.CORROSION PROTECTION:HOT-DIPPED GALVANISED TO SANS 1763.EXPOSED SURFACES ON OUTSIDE WALL SHALL BE BEIGE EPOXY-POWDER COATING
- CONTROL CABLES FROM REMOTE CONTROL UNITS TO HANDLING UNIT SHALL BE SURFACE MOUNTED WITHIN WHITE MINI TRUNKING ON WALL
- LIGHT DUTY CABLE TRAYS SHALL BE INSTALLED IN ROOF VOID WITH OVERALL WIDTH 50mm FOR CABLES & EARTH WIRE RUNNING FROM TRUNKING TO THE UNITS
- DRAIN PIPE FROM HANDLING UNITS SHALL BE POLYCOP PIPE WITH SUITABLE CONNECTOR,TYPE JG SPEEDFIT OR CONNEX, BETWEEN POLYCOP AND UNIT DRAIN PIPES.PVC TAPE IS NOT ACCEPTABLE. WATER SHALL BE DISCHARGED TO THE APRON SLAB (PIPE SHALL RUN IN TRUNKING, & ON OUTSIDE WALL FIXED ON MASTER BATS SADDLES & DISCHARGED 2 COURSE OF BRICKS ABOVE APRON SLAB & 200mm FROM WALL
- MOUNTING BRACKETS FOR OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAO FROM O-LINE OR EQUAL WITH STAINLESS STEEL BOLTS/WASHERS/NUTS.
- ALL AIRCONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
- FLUSH MOUNTED 4X4 COVERED BOX ON PORCH AND IN CONTROL ROOM,CONNECTED VIA 20 DIA PVC CONDUIT.H= 1350
- UPS DB SHALL HAVE 5 OF BOTTOM ENTRY 25mm DIA CONDUITS FROM ACCESS FLOOR.

AIRCONDITIONING UNITS SCHEDULE:

PLAN REF	DESCRIPTION	COOLING CAPACITY	SUPPLIER	No A/C UNIT
ACU/AHU1 & 2	WALL MOUNTED UNIT WITH HEATPUMP	3.15KW	MITSUBISHI	MSZ-DM25VA MUZ-DM25VA

CABLE SCHEDULE LV RETICULATION					
CABLE No	CABLE TYPE	FROM	TO	ESTIMATED LENGTH (m)	ACTUAL LENGTH (m)
DB1.DB8	BVX4KCV	DB1	DB8	300 MAX	



LABEL : DB 8 400/230V AC

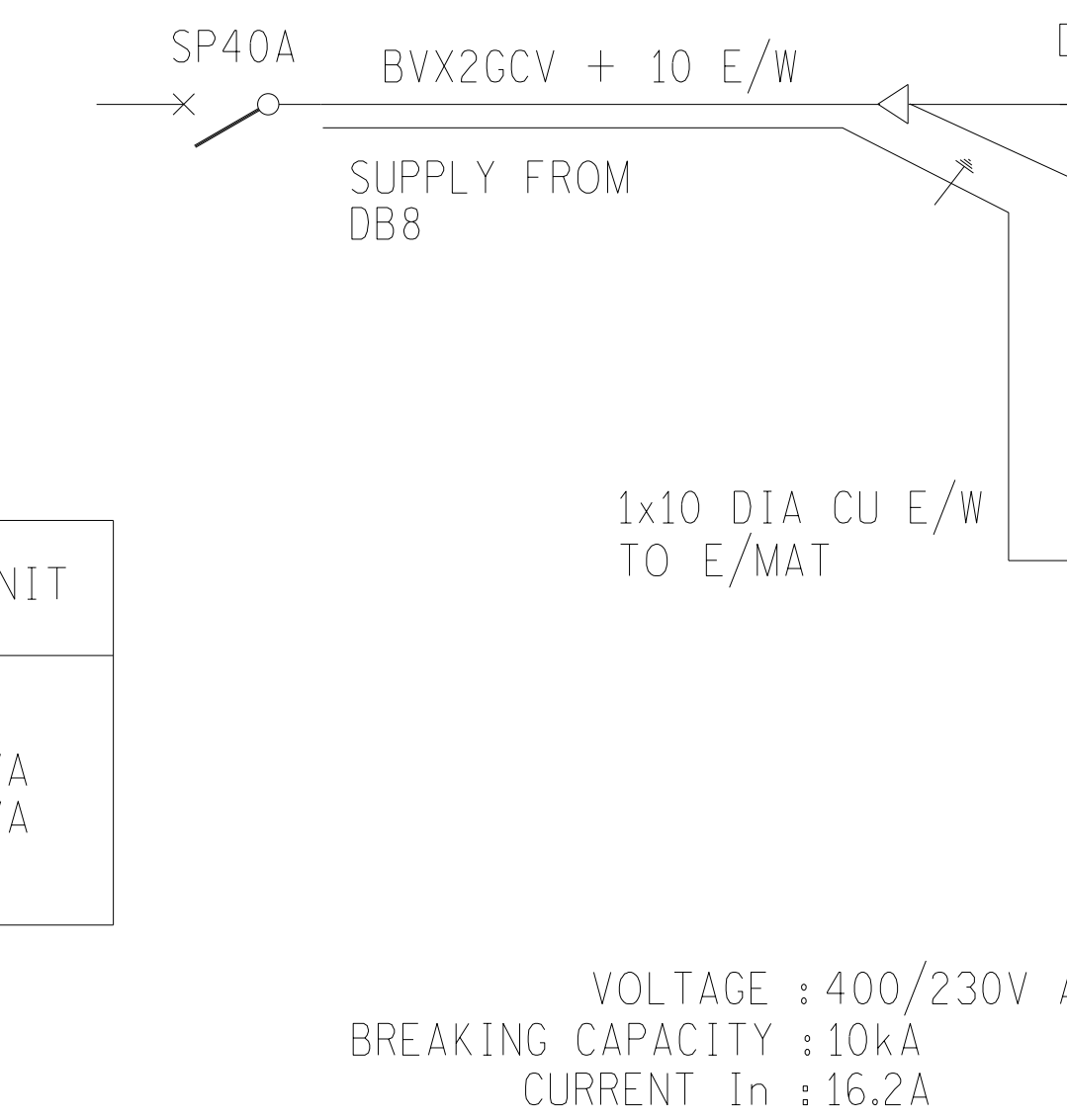
FLUSH MOUNTED DB, COLOUR-GREY G29 TO SANS11091 WITH DOOR

ELU'S	PHASE	MCB'S	CONDUCTOR SIZE mm ²	CIRC No	LABEL	POINT No	LOAD
							CONN = 9080W EST = 8030W
MAIN SWITCH							
W		SP20A	2 x 2.5 + 1 x 2.5 E/W	8-3	ACU/AHU1		1300 W
B		SP20A	2 x 2.5 + 1 x 2.5 E/W	8-4	ACU/AHU2		1300 W
B		SP20A	2 x 2.5 + 1 x 2.5 E/W	8-5	PLUGS		2000 W
R		SP15A		8-6	ACCESS CONTROL		1000 W
W		SP15A		8-7	GATE MOTOR 1		1000 W
W		SP15A		8-7	GATE MOTOR 2		1000 W
W		SP15A		8-7	GATE MOTOR 3		1000 W
B		SP10A		8-11	SPARE		
B		SP40A	BVX2GCV + 10E/W	8-12	DB8B		3480 W
R,W,B,N			SAL TYPE FROM 'CBi'	8-13	SURGE ARRESTORS		

LABEL : DB8B 230V AC

FLUSH MOUNTED DB, COLOUR-GREY G29 TO SANS11091 WITH DOOR

ELU'S	PHASE	MCB'S	CONDUCTOR SIZE mm ²	CIRC No	LABEL	POINT No	LOAD
							CONN = 3725W EST = 3725W
R		SP10A	2 x 1.5 + 1 x 1.5 E/W	8B-1	LIGHTS	1-11	1725 W
B		SP20A	2 x 2.5 + 1 x 2.5 E/W	8B-2	PLUGS	1-5	2000 W



ELECTRICAL LEGEND:

(IN ACCORDANCE WITH NRS002)

- 16A DOUBLE SWITCH SOCKET OUTLET
- CIRCUIT BREAKER
- SWITCH-DISCONNECTOR
- CABLE GLAND WITH EARTH TAG
- EARTHSTUD
- TERMINALS

FINAL DESIGN
FOR CONSTRUCTION

REV	REVISION DESCRIPTION	DRAWN	CHKD	AUTH	DATE	REFERENCE DRAWINGS
APPROVED BY						
DATE: 19/02/2025						
CHECKED BY						
DATE: 19/02/2025						
DRAWN BY						
DATE: 19/02/2025						
SCALE						
LES23P04-SE-E43						SHEET NUMBER 3
						REVISION 0

LESEding
ACCESS CONTROL BUILDING
ELECTRICAL INSTALLATION
AND SCHEMATIC DIAGRAM