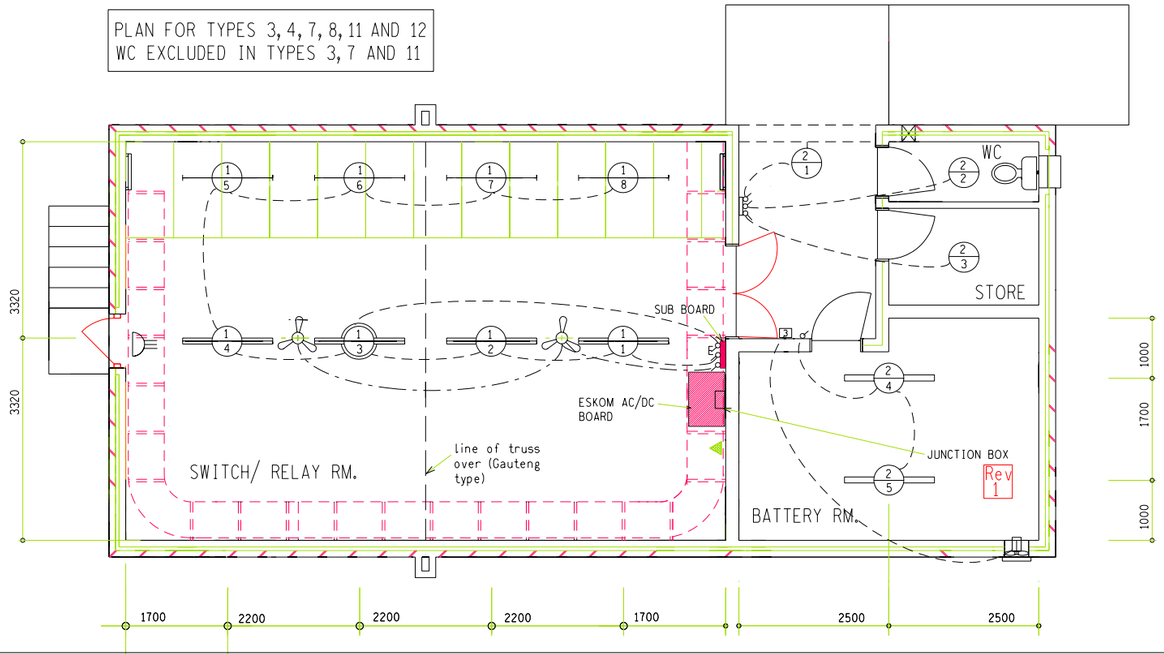
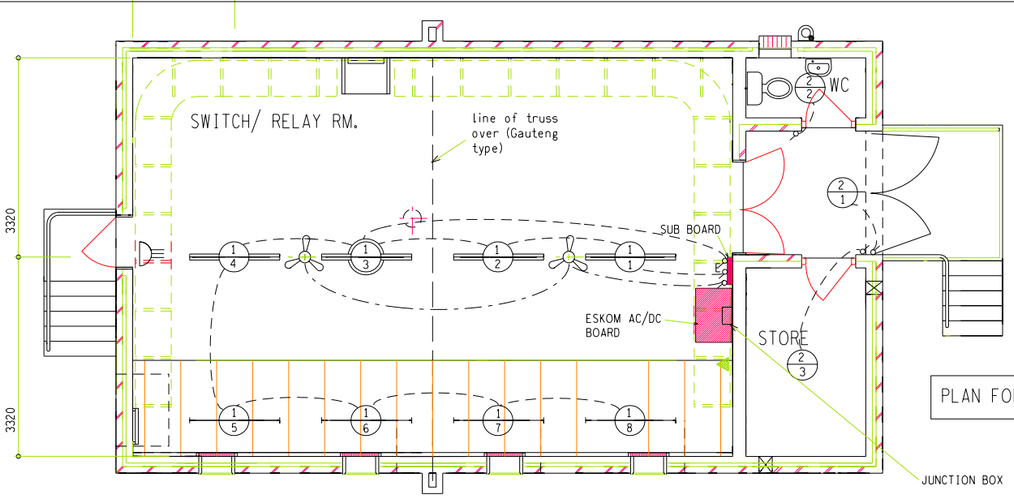
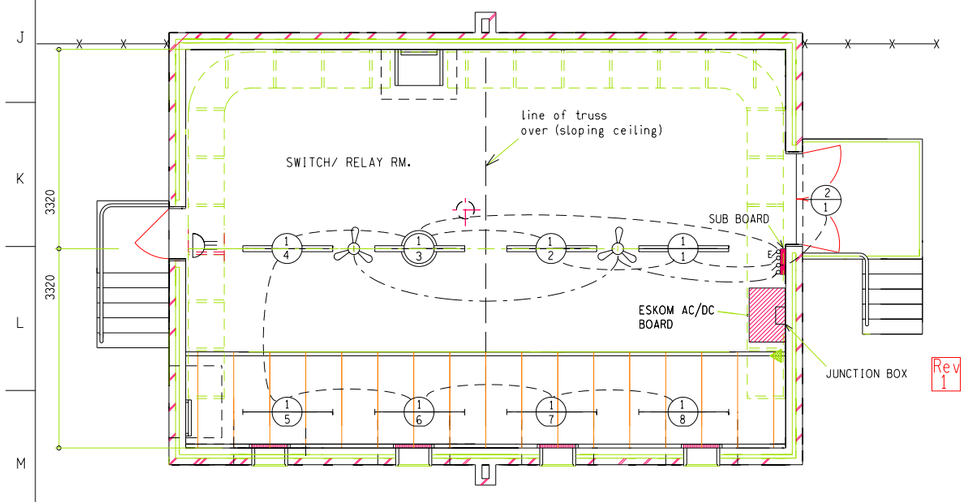
PLAN FOR TYPES 3, 4, 7, 8, 11 AND 12
WC EXCLUDED IN TYPES 3, 7 AND 11





PLAN FOR TYPES 2, 6, AND 10



PLAN FOR TYPES 1, 5, AND 9

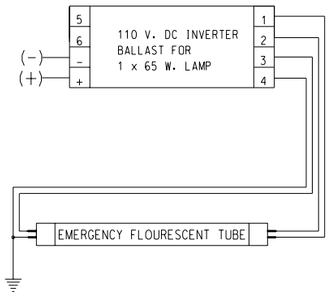


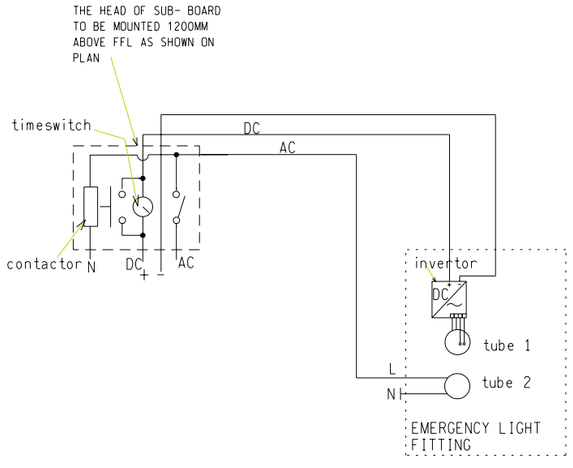
DIAGRAM SHOWING HOW THE DC INVERTER IS CONNECTED TO THE AFFECTED TUBE. (WITHIN THE FITTING).

EMERGENCY LIGHTING

Fitting No. 1-3 is the emergency fitting :
One tube in the fitting is to have an additional conduit run from the DC side of the distribution board which will include 1 positive. 1 switched positive & one negative wire. Contractor to supply & install a 110 V DC to 220 V AC invertor in the fitting and contactor rated at 10A in the Sub board.

Affected fittings end caps to be painted red to differentiate between fittings. Contractor to supply and fit switch and timer on wall as shown. Wiring to be connected by ESKOM to AC/DC board.

INVERTERS TO AFFECTED LIGHT FITTINGS : As supplied by Messrs Smith Walker of SABOOM ELECTRONICS CC. tel. 011-673-9851 or equal approved. Inverter to be fixed into fitting and replace the normal ballast. Inverter to be 110V. DC input and 1 X 60W output.



N.B. Luminance levels for Switch / Relay and Battery room is 300 lux
Store room and WC is...160 lux.

Emergency lighting to be 1 tube for every 60 square metres of room area.

THIS DRAWING HAS BEEN CREATED ON A C.A.D. SYSTEM AND ANY AMENDMENT TO THE DRAWING MUST BE EFFECTED ONLY ON THE SAME C.A.D. SYSTEM

N

SCALE 1:

THIS DRAWING IS THE PROPERTY OF ESKOM

ELECTRICAL SPECIFICATION

GENERALLY. All electrical work to be carried out in strict accordance with the latest revisions of S.A.N.S. 10142- 1993 CODE OF PRACTICE FOR THE WIRING OF PREMISES

AC/ DC BOARD SUPPLIED AND INSTALLED BY ESKOM. Electrical Contractor to supply and hang all light fittings. All wiring to these fittings to be run surface and terminate in Sub Board as shown on plan. Contractor to wire conduit and terminate wiring at surface mounted junction box above AC/ DC board. Top of ESKOM board is 2200mm above FFL. Wiring to be tagged to show destination. ESKOM to connect between junction box and AC/DC board. Rev 1

WIRING. To be p.v.c. sheathed in white seamless plastic conduit (with S.A.N.S. mark). All conduit to be run surface in straight lines.

M.C.B's. To be 5kA rating.
EARTH LEAKAGE UNIT. To be HY-MAGor equal approved } SUPPLIED BY ESKOM IN AC /DC BOARD
SOCKET OUTLETS. 3 No. 15A three pin round surface mounted

SWITCHES. SANS approved surface mounted toggle type mounted in Sub board.

LIGHTING. N.B All fittings to have SABS mark.

FITTING No.	DESCRIPTION OF FITTING	No.REQ
1-1 to 1-4	Two tube 58W fluorescent fitting	4
1-5 to 1-8	One tube 58W fluorescent fitting	4
2-1	100W Incandescent corrosion proof weatherproof fitting	1
2-2 & 2-3	60W Incandescent fitting with spherical bowl .	2
2-4 & 2-5	Class 1 Div.1 2 X 40W tube protected fitting.	2

BATTERY ROOM EXTRACT FAN : To be LUFT or equal approved 12 BWX/4D/EXE 3 phase flameproof motor with standard pvc coated heavy guage wire guard fitted to inside and standard glass fibre wall cowl fitted to outside. Unit to be switched from AC/DC board. Fan to have a 3 pole isolator mounted at high level externally next to Battery rm. door.

CEILING FANS (IF REQUIRED) 1400mm dia aluminium blade single phase with 5 speed wall mounted choke type regulator with 315mm anti vibration mounting and ceiling hook as Donkin Summerking "Coolflo" or equal approved by ESKOM. Max distance between fans to be 5000mm.
For mounting below sloping ceilings mounting point to be suspended from 144 X 69 timber beam fixed to roof beams/ purlins.

LEGEND

	2 X 58W fluorescent fitting hung from roof beams with galv chains (Gauteng type) or fixed to ceiling (all other types).
	1 X 58W fluorescent fitting. fixed to wall @ 2800mm above F.F.L
1/3	2 X 58W fluorescent fitting. (see emergency lighting notes above) .
	Wall mounted light fitting mounted 2800mm. above F.F.L.
	16A toggle light switch.
E	SABS approved 1 hr. mechanical timer mounted on Sub board and connected to AC/DC board.
3	3 phase isolator for extract fan
	Telephone outlet with 25mm conduit to cable tray over.
	20A three pole isolator mounted 3000mm above F.F.L. for future (if required) Air Con unit.
	CEILING FAN : See specification.

THIS DRAWING IS THE NEW OFFICIAL REVISION. IT SUPERCEDES ALL OTHER PUBLISHED DRAWINGS.

D-DT-

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO. / DRG NO. / REFERENCE DRAWINGS:
1	SABS CHANGED TO SANS AND JUNCTION BOX ADDED	PBM	B.P.H	B.P.H.	05/04/2005	
0	DRAWING NO. CHANGED FROM D-DT-5074	VvZ	JFS	JFS	10/12/2002	

Eskom Distribution

AUTH: B.P. HILL
DATE: 10/12/2002
CHKD: J.F. SCHOLTZ
DATE: 10/12/2002
DRAWN: C.GRAY
DATE: 09/12/2002

NATIONAL STANDARD "COMBO" CONTROL BUILDINGS POWER AND LIGHTING LAYOUT

D-DT-5238

SET	SHEET	REVISION
16	16	1