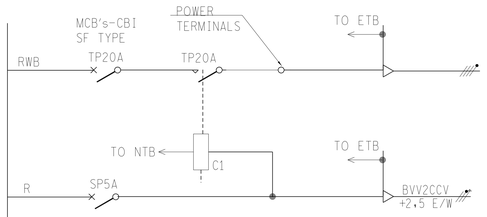
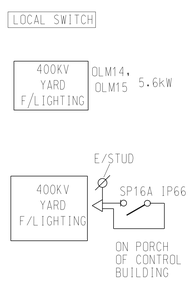
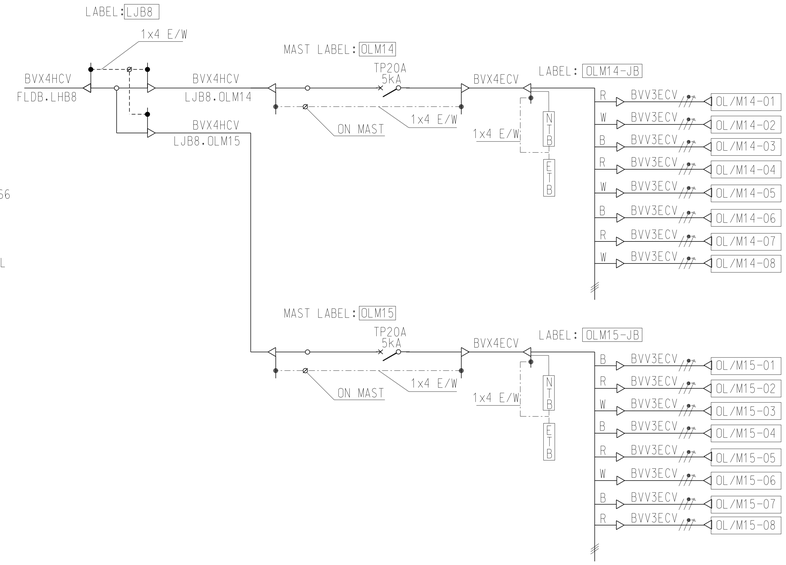
NEW FLOODLIGHTING DISTRIBUTION BOARD WITHIN CONTROL ROOM - FLDB

400/230V AC DISTRIBUTION BOARD FLDB				CCT No	LABEL	MAST No	LOAD	CABLE TYPE	TRENCH JUNCTION BOX	CABLE TYPE	MAST TERMINATION BOARD	MAST CABLE	MAST JUNCTION BOX	WIRING	LUMINAIRE LABEL
LOCAL SWITCH	PHASES	PROTECTION & CONTROL DEVICES	CABLE/CONDUCTOR & CONDUIT SIZE					CABLE No		CABLE No					







ELECTRICAL LEGEND:

- CONTACTOR
- CIRCUIT BREAKER
- SWITCH-DISCONNECTOR
- CABLE GLAND WITH EARTH TAG
- EARTHSTUD
- TERMINALS

NOTES:

1. OPERATIONAL FLOODLIGHTING ELECTRICAL INSTALLATION WORK SHALL BE IN ACCORDANCE WITH:
   1.1. TECHNICAL SPECIFICATION
   1.2. SABS 0142-1993
   1.3. SABS 0198
2. EARTH & NEUTRAL TERMINALS IN MAST TERMINATION BOARD & MAST JUNCTION BOX SHALL BE OF THE PRESSURE PLATE TYPE WITH CAPTIVE SCREWS.
3. FOR OPERATIONAL FLOODLIGHTING:
   3.1 CONTROL SWITCHES (IP66) SHALL BE FLUSH MOUNTED ON PORCH AS INDICATED.
4. FOR THE OPERATIONAL FLOODLIGHTING MAST TERMINATION BOARD, THE CONTRACTOR SHALL MOUNT THEIR ELECTRICAL EQUIPMENT WITHIN A WEATHERPROOF METALLIC HOT DIP GALVANIZED BOX. THE BOX SHALL BE FIRMLY SECURED TO THE INSIDE OF THE MAST AT ITS BASE, AND BE ACCESSABLE FOR MAINTANANCE
5. FOR THE OPERATIONAL FLOODLIGHTING MAST JUNCTION BOXES THE CONTRACTOR SHALL MOUNT THEIR ELECTRICAL EQUIPMENT WITHIN A 'YORK' TYPE OR EQUIVALENT FIBRE GLASS BOX. THE BOX SHALL HAVE A HINGED DOOR, WITH A PADLOCKABLE LEVER LOCK. BRASS HINGES SHALL BE USED. THE BOX SHALL BE WEATHERPROOF AND RATED IP65 ACCORDING TO SABS 1222. THE BOX SHALL BE FIRMLY SECURED TO THE MAST PLATFORM USING HOT DIP GALVANISED FLANGE CLAMPS OR BOLTS.
6. FOR PADLOCKABLE LEVER LOCK REFER TO DGN 0.52/1037 AND PANEL FASTENERS REFER TO 0.52/1038.
7. FOR ENGRAVING & LABELLING REQUIREMENTS REFER TO DGN 0.00/5007.
8. CABLE GLANDS SHALL BE FIXED TO GLAND PLATE AT MAST TERMINATION BOARD IN MAST & BONDED VIA A 4mm^2 Cu EARTHWIRE TO EXISTING EARTH STUD ON MAST.
9. CABLE GLAND FOR OUTGOING CABLE TO MAST JUNCTION BOX FROM MAST TERMINATION BOARD SHALL BE FIXED ON THE SAME CABLE GLAND PLATE AS ALL OTHER ARMOURED CABLES. ALL ARMOURED CABLES SHALL EXIT THE MAST TERMINATION BOARD FROM BOTTOM OF CABLE GLAND PLATE.
10. ALL WIRING AND CABLE GLANDS AT MAST JUNCTION BOX ON PLATFORM TO BE U.V. PROTECTED BLACK PVC.
11. MANUFACTURER'S DRAWINGS & FACTORY INSPECTIONS:-
    11.2. LABELLING:
    a. THE CONSECUTIVE NUMBERING FOR THE LABELLING UNDER THE DEVICES SHALL BE PROVIDED, THE LEGEND CARD SHALL BE SUPPLIED WITH THE BOARD WITH SUITABLE POCKETS ON THE INSIDE OF THE DOOR
    b. THE LEGEND CARD SHALL ALSO BE SHOWN ON THE MAKER'S DRAWING
12. ALL EXISTING CABLES SHALL BE REMOVED AND NEW CABLES SHALL BE INSTALLED AS SHOWN IN SCHEMATIC

FINAL DESIGN FOR CONSTRUCTION

REV	REVISION DESCRIPTION	DRAWN	CHKD	AUTH	DATE	REFERENCE DRAWINGS
1	REVISED FOR CONSTRUCTION	AR		AR	07/08/2025	

APPROVED BY: AR NAUDE — DATE 09/12/2021
CHECKED BY: DB NAUDE — DATE 09/12/2021
DRAWN BY: AR NAUDE — DATE 09/12/2021
SCALE

Eskom

Eskom Holdings SOC Ltd
Reg No 2002/015527/30

PEMBROKE

OPERATIONAL FLOODLIGHTING
400/230V AC SCHEMATIC AND CABLE BLOCK DIAGRAM

©

PEM13P01-SE-E44 | SHEET NUMBER 3 | REVISION 1

SIZE GROOTTE A1L