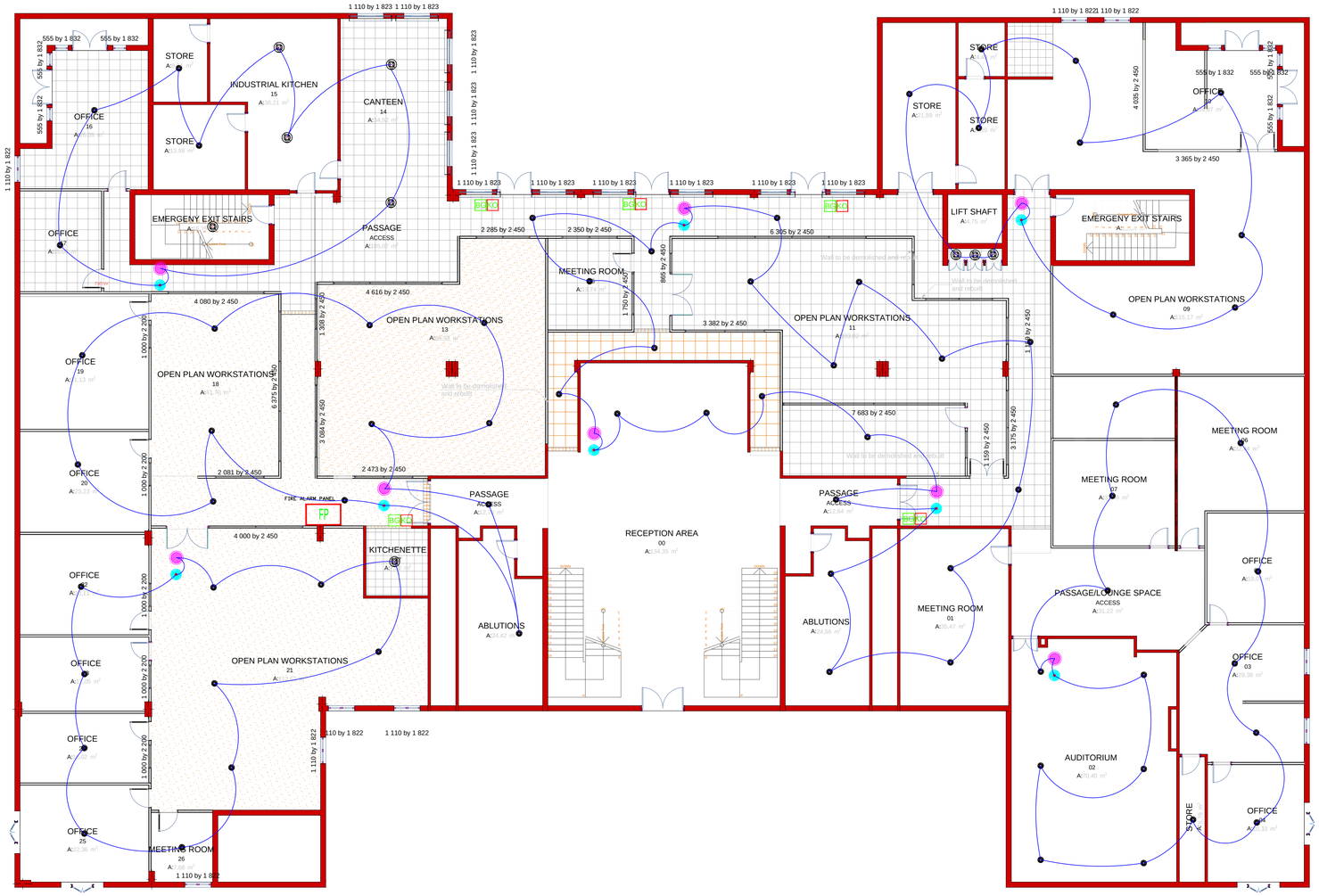


GROUND FLOOR SMOKE DETECTION LAYOUT
Scale 1:75

LEGEND OF SYMBOLS	
	20mm DIA GALVANISED STEEL CONDUIT
	P8000 STEEL TRUNKING
	DOOR POSITION SWITCH
BG	GREEN BREAK GLASS
KO	OVERRRIDE KEYSWITCH
EM	ELECTROMAGNETIC LOCK
	SPEAKER
	SMOKE DETECTOR
	BEACON SOUNDER
	HEAT DETECTOR
FP	FIRE ALARM PANEL

FIRE PROTECTION GENERAL NOTES:

All work must comply to the National Building Regulations and Building Standards Act No. 103 of 1977 Standard Application to fire installation referred to SANS 10400-W:2011, SANS 10090 and SANS 10400-T:2020

To comply with Local Authority Laws in conjunction with fire protection measure by the Local E.M.S.

1. Occupancy classification/ Design population : **A1**: 1 person per m^2 for fixed seats, **A3**: 1 person per $5m^2$,**B3 & G1**: 1 person per $15m^2$,**J3** : 1 person per $50m^2$, as per sans 10400-A Clause 20.
2. 1 x 4.5 kg DCP Extinguishers, per 200 m2 or part thereof, to be installed in accordance with sans 10105 and clause 4.37 and 4.38.
3. 1 x 30 m Hose reels, per 500 m^2 or part thereof, to be installed in accordance with SANS 543 and 4.34.

The entire installation for the communication pipe serving the installation should not be less than 75mm and all pipes serving each hose reel should not be less than 25mm.

4. **1 x 65**mm Hydrant to be installed 90m in accordance with SANS 1128 : **Part** I. and clause 4.35.
5. 4.35.2 an hydrant is required in terms of 4.35.1 and shall be provided at a rate of not fewer than one per 1 000 m^2
6. Water supply to the firefighting equipment to comply with SANS 10400- 2011 Part W -and with Local Authority water By-laws.
7. NOTE 3 The local authority cannot guarantee the pressure or supply of water and can only indicate what the residual pressure at a water connection should be accordingly, the owner should assess the risk or secure his water supply by means of on-site storage facilities providing his own storage water tank and 300kPa pump will be provided should the pressure and flow be insufficient during final inspection.
8. Portable fire extinguishers to be hung on purpose made boards, as indicated on plan, securely to walls or purpose made boards or frames, all fire extinguishers to be installed in accordance with SANS 10105 and 4.37.
9. Doors in escape routes may only be fitted with approved locking devices and shall comply with clause 4.16, 4.17, 4.19.
10. Doors in feeder routes shall be double swing type and shall not be lockable as per clause 4.18.
11. '…**B**…' Class fire doors to comply with SANS 1253 and to be fitted with approved locking devices.
12. All entrance unit doors must be Class " **E** " fire doors with self-closing device.
13. All doorways and circulation spaces, obstructions in the path of travel, ramps,handrails and warning signals located along escape routes in building classified H4 (Hostels)in terms of Regulation A20 (see SANS 10400-A) shall comply with the requirements of SANS 10400-S, Clause 4.16.5
14. Floor coverings to be Class : 2 as per Clause 4.14.
15. All opening in the floor must be sealed with a fire stopping element.
16. Wall coverings to be Class : 2 as per clause 4.15.
17. Emergency lighting to be installed and designed in accordance with SANS 10400 - Part T and SANS 10114-2 and SANS 1464-22, as per Clause 4.30.This lights will be independent of the main supply, must be capable in the event of any failure of the normal power , it should last for a period of time as specified in 4.30.2. except **Class A3.**

NB: ANY OMITTED ROOM TO BE EQUIPPED OF SMOKE OR HEAT DETECTOR, CONTRACTOR TO LIAISE WITH THE ENGINEER FOR CONFIRMATION

NB: SMOKE DETECTORS TO BE ADDRESSABLE TYPE PROGRAMMED

NB: SMOKE DETECTOR IN THE SERVER ROOM TO BE DOUBLE KNOCK PROGRAMMED

ALL EXISTING SMOKE DETECTOR TO BE DISACTIVATED DURING CONSTRUCTION, REMOVED WHERE APPLICABLE AND REINSTALLED ACCORDINGLY IN THE FULL RESPECT TO SANS 10139 ON THE NEW CEILING BOARD , TO INTEGRATED TO THE MAIN FIRE PANEL AS FOUND

ALL NEW PARTITIONS AND EXISTING WALL IN THE ESCAPE ROUTE TO BE RAISED UP TO THE UNDERSIDE OF THE SLAB

REV.:	DATE:	COMMENT:
T	19-09-2023	FOR PROPOSAL

Notes:
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PROJECT NAME:

CETA OFFICE- MIDRAND

DRAWING TITLE:

GROUND FLOOR SMOKE DETECTION

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