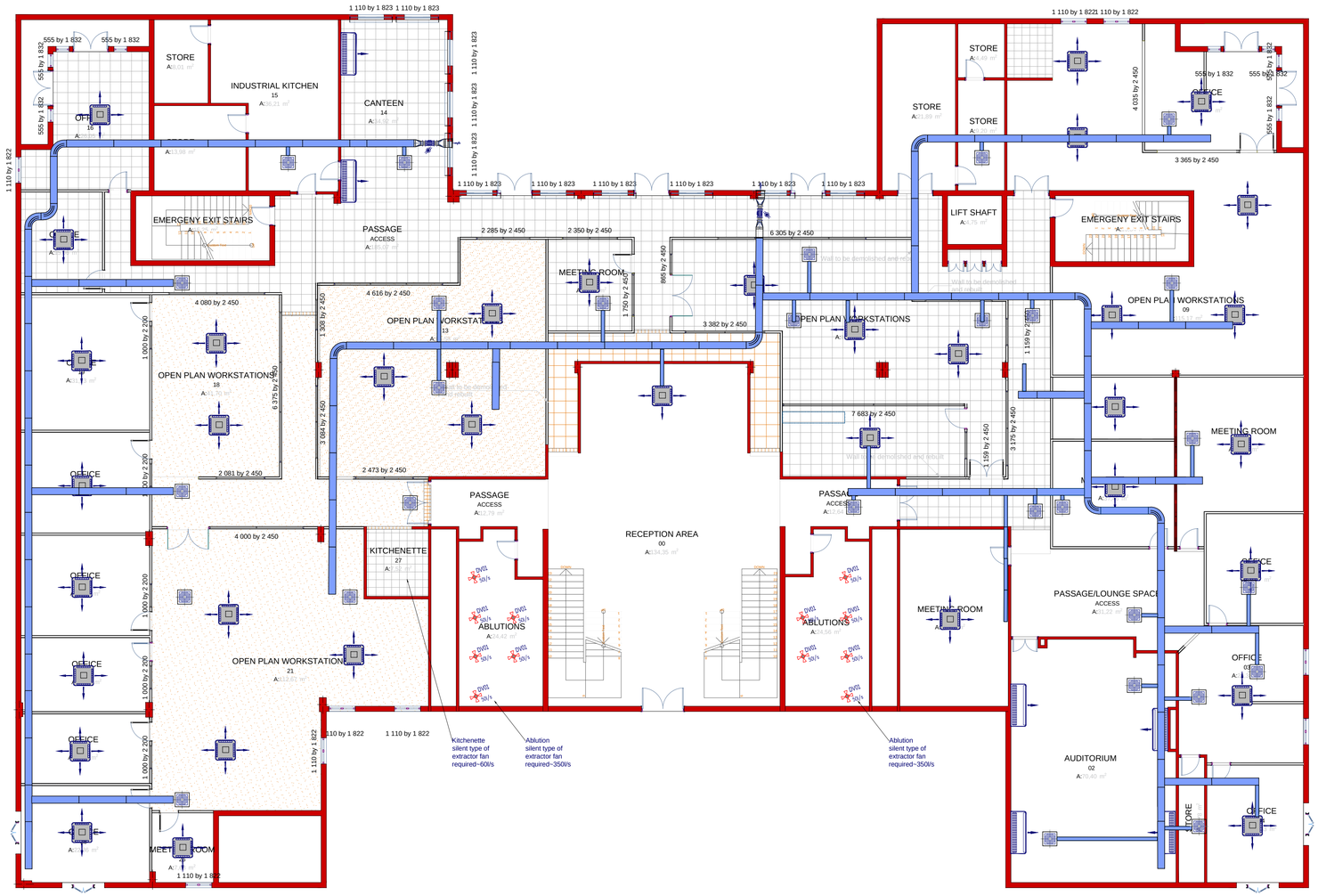


GROUND FLOOR HVAC LAYOUT
Scale 1:75

GENERAL NOTES:

- Builder is required to provide all openings in doors, hole to suit new ducts ,and in the ceiling to allow easy installation to mechanical contractor
- To consider 20 ACH for all toilets and 7.5l/s fresh air is to be considered(SANS 10400-O:2011 Edition 3)

Regulations
O1 Lighting and Ventilation Requirement
- 3 (b) Notwithstanding the provision of openings for natural ventilation in accordance with sub regulation (2) any room subject to the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), shall in terms of the said Act be provided with artificial ventilation as prescribed by such Act; and any room contemplated in subregulation (1) which is ^
(i) a room which, due to conditions of high temperature, may be dangerous to safety or health;
(ii) a room where there will be dust, gas, vapour or volatile matter and hazardous biological agents which might be dangerous to safety or health; or
(iii) used for any purpose for which natural ventilation is not suitable,shall be provided with a means of artificial ventilation.
  - Door grilles must be installed (or the doors undercut by 20mm) to all spaces served by artificial ventilation.
- Fire dampers must comply with SABS Code 0193 and must be installed wherever a duct penetrates a firewall or floor slab (refer to SABS Rule T743.3 & T76.1)

1) All electrical power supplies by others
2) All penetrations by builder
3) All door grilles by builder

All AC units to be connected to fire panel system and the fresh supply fan in such way that in case of fire all units and all mechanical system to shut down.

GENERAL NOTES:

- ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCING SETTING OUT WORKSHOP DRAWINGS OR CONSTRUCTION
- FIGURED DIMENSIONS ONLY TO BE USED.
- DISCREPANCIES, ERRORS AND DIMENSIONS ARE TO BE REPORTED TO THE MECHANICAL ENGINEER (EMPLOYER). IMMEDIATELY THEY BECOME EVIDENT.
- SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO MANUFACTURE OR INSTALLATION.

INFORMATION

This drawing shall not be used as a construction/ installation drawing.

Routes and zones have been allocated to this service, locations dimensions are indicated of these.

To prepare his construction/ installation drawing, the (sub) contractor shall adhere to this co-ordination principle and shall inspect
all the architect's drawings, including structural and other services design drawings pertaing to the works. The (sub) contractor shall acquaint him/herself with the general arrangement of all other services and ensure that in fixing his/her work it shall not obstruct the fixing of future maintenance of other services.

The (sub) contractor shall be responsible for the correct field dimensions: clearances and heights, quantities, fabrication processes and techniques of construction co-ordination of
his/her work with that of all other trades, providing all devices necessary for safe and satisfactory operation.

Legend:

- Air Diffuser
- Fresh air Fan
- Midwall split AC unit
- BC controller box
- Hideaway split AC unit
- Slot linear Air Diffuser
- air grille
- Ceiling cassette
- Condenser Split Unit
- Solid Duct
- Flexible Duct
- Drip tray
- Drain water pipe
- Refrigerant piping
- Single phase isolator
- Three phase isolator

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

Notes:
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PROJECT NAME:

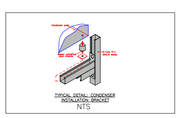
CETA OFFICE - MIDRAND

DRAWING TITLE:

HVAC GROUND FLOOR

DRAWN BY:	D.N	SIGNATURE
CHECKED BY:	D.N	
APPROVED BY:	D.N	
CLIENT PROJECT No.:	.....-01	
PROJECT No.:	JCM-23-HVAC-001	
DRAWING No.:	AC-001	

SCALE:	1/75	PAPER SIZE:	A1
DATE:	18/09/2023	REV.:	T





N.B: Typical Strong Room telescopic Ventilation

Double Ended Ventilator
250 x 250 Outer Baffle Plate
230 x 230 Inner Sleeve (Adjustable into a 230mm and more wall)
Fittings: Drop Shutter mechanism operating by fusable metal plug.

Design parameters	
Apparatus	25.6° C db 15.9 wb 50% RH
Fresh air	15% of supply air except stated otherwise
External Pressure	250Pa
Design Condition	30 °C Outdoor Temperature
	22 °C Indoor Temperature
Safety Factor	10%