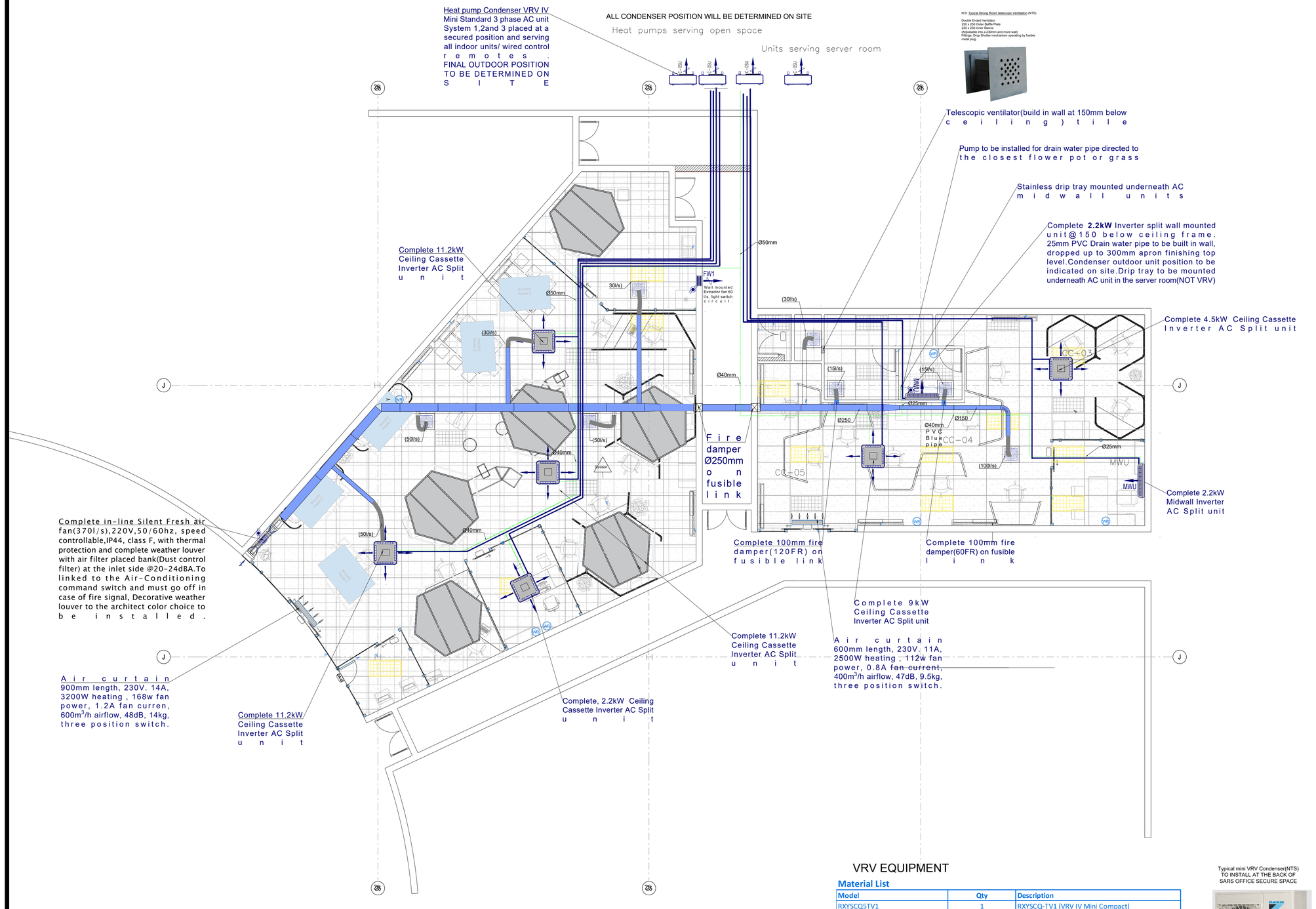

AIR CONDITIONING- FLOOR PLAN
Scale 1:75

VRV EQUIPMENT

Material List

Model	Qty	Description
RXYSCQ5TV1	1	RXYSCQ-TV1 (VRV IV Mini Compact)
RXYSQ6T8Y	1	RXYSQ-TY1 (VRV IV Mini Large 3 phase)
RXYSQ8TY1	1	RXYSQ-TY1 (VRV IV Mini Large 3 phase)
FXAQ25A	1	FXAQ-A - Wall mounted unit
FXFQ25B	1	FXFQ-B - Round Flow Round flow cassette
FXFQ50B	1	FXFQ-B - Round Flow Round flow cassette
FXFQ100B	1	FXFQ-B - Round Flow Round flow cassette
FXFQ125B	3	FXFQ-B - Round Flow Round flow cassette
KHRQ22M20T	3	Refnet branch piping kit
KHRQ22M29T9	1	Refnet branch piping kit
BRC1H52W	7	Remote controller (white)
BYCQ140E	6	Standard decoration panel

Typical mini VRV Condenser(NTS)
TO INSTALL AT THE BACK OF
SARS OFFICE SECURE SPACE

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:

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

Notes:
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:

- 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 TT43.3 & TT6.1)

Design parameters	
Apparatus	25.6° C ⇔ 15.9 ⇔ 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%

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.

ALL EXISTING AIR-CONDITIONING EQUIPMENT TO DECOMMISSIONED ,REMOVED ACCORDINGLY AND HANDED OVER TO THE FACILITY MANAGER..

REFERENCE DRAWINGS	
DRAWING NAME	No./Nr.

REVISION/WYSIGINGS		
T	Tender	10-09-2024
Revision Wysiging	Description Beskrywing	Date Datum

Principal Agent:

CELANKOBE
Engineering & Architectural Consultants

Client

.....

Project Infomation

SARS Randfontein

Project Name. Projek Naam

OFFICE

Services Tekening Nr.

AIR CONDITIONING- FLOOR PLAN

Drawings No. Tekening Nr.

HVAC-(1-1)

O | A

1:75

Designed Ontwerp	T. Nsenga Pr Tech Eng	10-09-2024
Drawn Geteken	D. N	10-09-2024
Checked Nagesien	T Nsenga Pr Tech Eng	10-09-2024

PROPOSAL

MECHANICAL

APPROVED DATE