

- NOTES:**
- POWER/CONTROL CABLES AND REFRIGERANT PIPES IN ROOF SPACE IN CONTROL ROOM SHALL BE INSTALLED IN TRUNKING WITH COVERS
 - POWER/CONTROL CABLES AND REFRIGERANT PIPES ON OUTSIDE WALLS SHALL BE INSTALLED IN TRUNKING WITH COVERS
 - TRUNKING SHALL BE FABRICATED FROM 1mm SHEET STEEL MEASURING 127x76,2 WITH CLIP-ON COVER, CORROSION PROTECTION: HOT-DIPPED GALVANISED TO SANS 1763. EXPOSED SURFACES ON OUTSIDE WALL SHALL BE BEIGE EPOXY-POWDER COATING
 - LIGHT DUTY CABLE TRAYS SHALL BE INSTALLED IN ROOF VOID WITH OVERALL WIDTH 50mm. FOR CABLES & EARTH WIRE RUNNING FROM TRUNKING TO THE UNITS
 - DRAIN PIPE FROM HANDLING UNITS SHALL BE POLYCOB PIPE WITH SUITABLE CONNECTOR, TYPE JG SPEEDFIT OR CONNEX, BETWEEN POLYCOB AND UNIT DRAIN PIPES. PVC TAPE IS NOT ACCEPTABLE. WATER SHALL BE DISCHARGED TO THE APRON SLAB (PIPE SHALL RUN IN TRUNKING, & ON OUTSIDE WALL FIXED ON MASTER BATS SADDLES & DISCHARGED 2 COURSE OF BRICKS ABOVE APRON SLAB & 200mm FROM WALL
 - PHASE 6 LAB, 2x EXISTING UNDER CEILING INDOOR UNITS AND 2x OUTDOOR UNITS TO BE REMOVED. EXISTING DIFFUSER AND RETURN GRILLS IN WALL TO BE REMOVED AND CLOSED OFF.
 - TELECOMS LAB, EXISTING DIFFUSERS AND RETURN GRILLS IN WALL TO BE REMOVED AND CLOSED OFF.
 - LEGACY LAB, EXISTING DIFFUSERS AND RETURN GRILLS IN WALL TO BE REMOVED AND CLOSED OFF.
 - OLD CHILLER PLANT EQUIPMENT LOCATED IN THE EXISTING STORAGE TO BE REMOVED AND MAKE WAY FOR THE NEW VRF SYSTEM EQUIPMENT.
 - EXISTING EXTRACTOR FAN IN THE WALL IN TELECOMS TRAINING ROOM TO BE REMOVED AND WALL MADE GOOD.
 - AIRCONDITIONING UNITS SCHEDULE:

PLAN REF	DESCRIPTION	COOLING CAPACITY	SUPPLIER	No A/C UNIT
ACU/AHU 1 TO ACU/AHU 2	INVERTER CEILING SUSPENDED SYSTEM TYPE INDOOR UNIT COP = 3.1	13.6kW	DAIKIN	PCA-RP140KAQ PUAZ-P140YHA
AHU 3 TO AHU 9	UNDER CEILING UNIT TYPE	14kW	MITSUBISHI	PCFY-P125VKM-E
AHU10	UNDER CEILING UNIT TYPE	7.1kW	MITSUBISHI	PCFY-P63VKM-E
BC1	BC CONTROLLER WITH 8 BRANCH POINTS		MITSUBISHI	CMB-P10BV-G1
ACU 1	VRF OUTDOOR UNIT R2 SERIES HEAT RECOVERY	101kW(C) 113kW(H)	MITSUBISHI	PURY-P900YSLM-AI-BS)

12. OUTDOOR SWITCH-DISCONNECTOR SHALL BE IP65 ENCLOSURE WITH 2 BOTTOM CABLE ENTRY FROM SA SOLENOID OR EQUAL TO BE INSTALLED NEXT TO OUTDOOR UNIT.

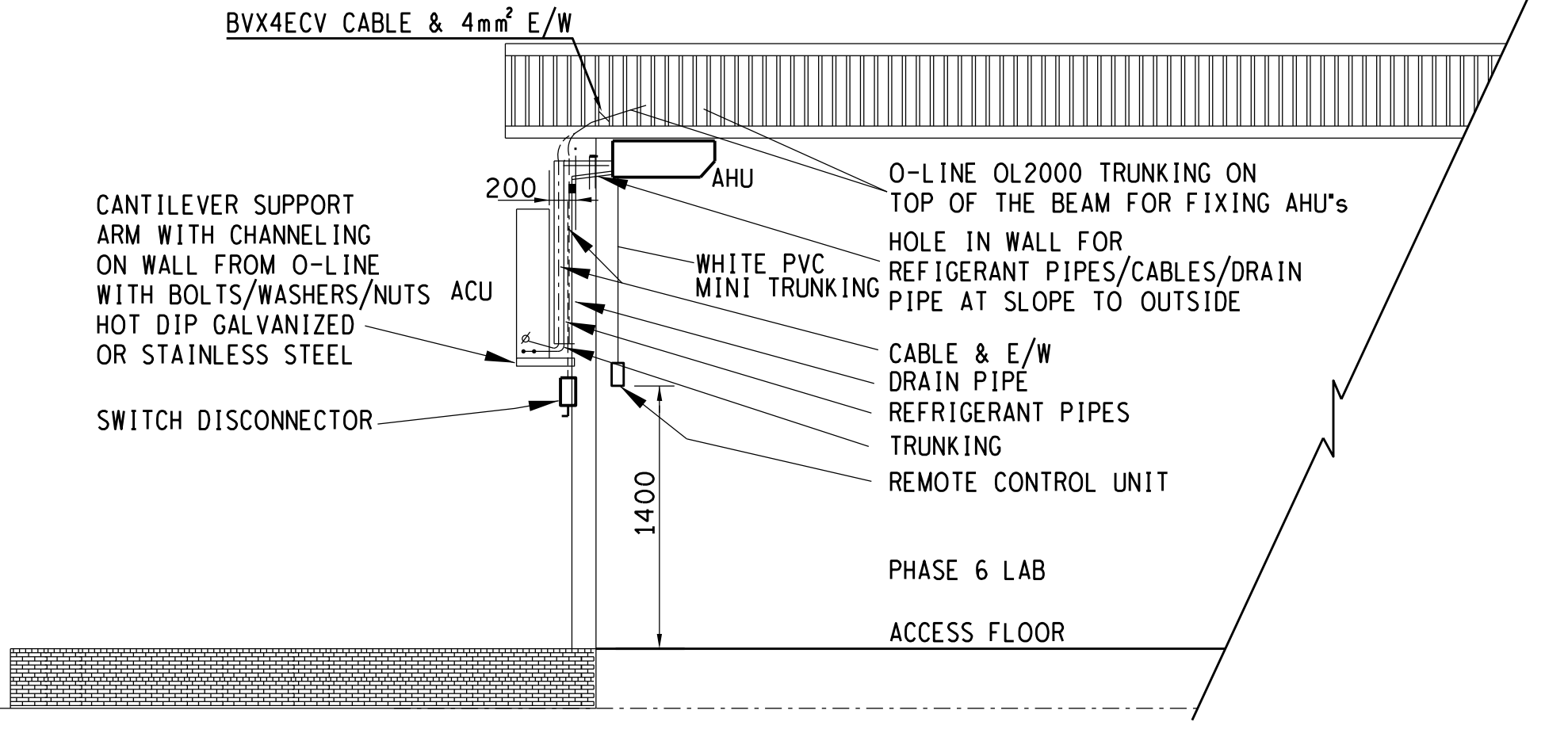
13. ALL AIRCONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS

14. PRESSURISATION FAN SCHEDULE:

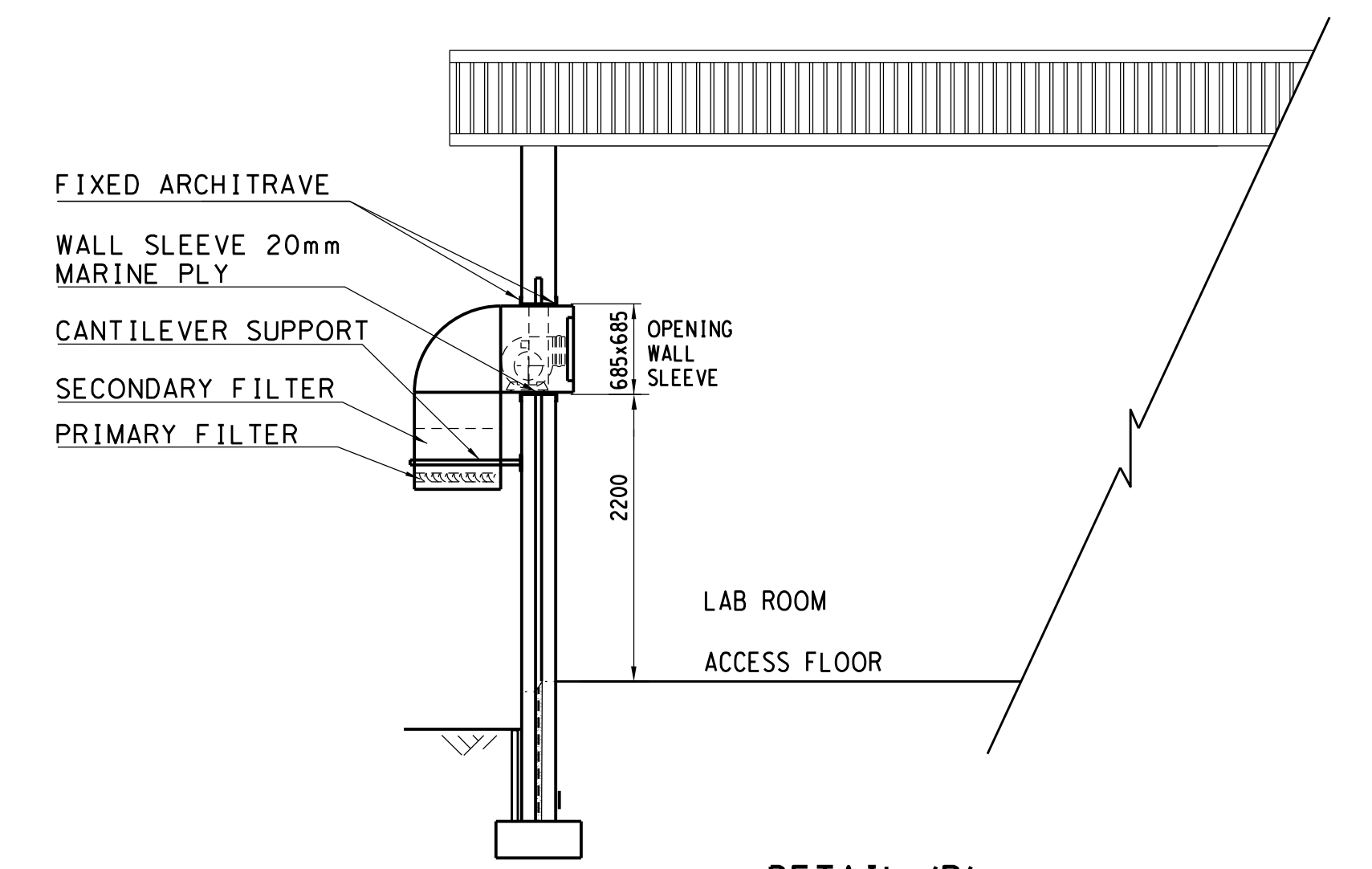
PLAN REF	DESCRIPTION	SUPPLIER	CAT. NO.
FAN 1 TO FAN 3	PRESURISATION FAN FILTER UNIT WITH WASHABLE PRIMARY AND SECONDARY FILTERS AND ACCESS DOORS, UNIT BODY: 3CR12 AND EPOXY MATT BLACK FINISH CAPACITY: 1m ³ /S, MOTOR: IP20 230V AC SPEED CONTROL UNIT SHALL BE PROVIDED.	FREUDENBERG NON WOVEN FILTER DIV	VARIVENT FCSB

15. EXTRACTION FAN SCHEDULE:

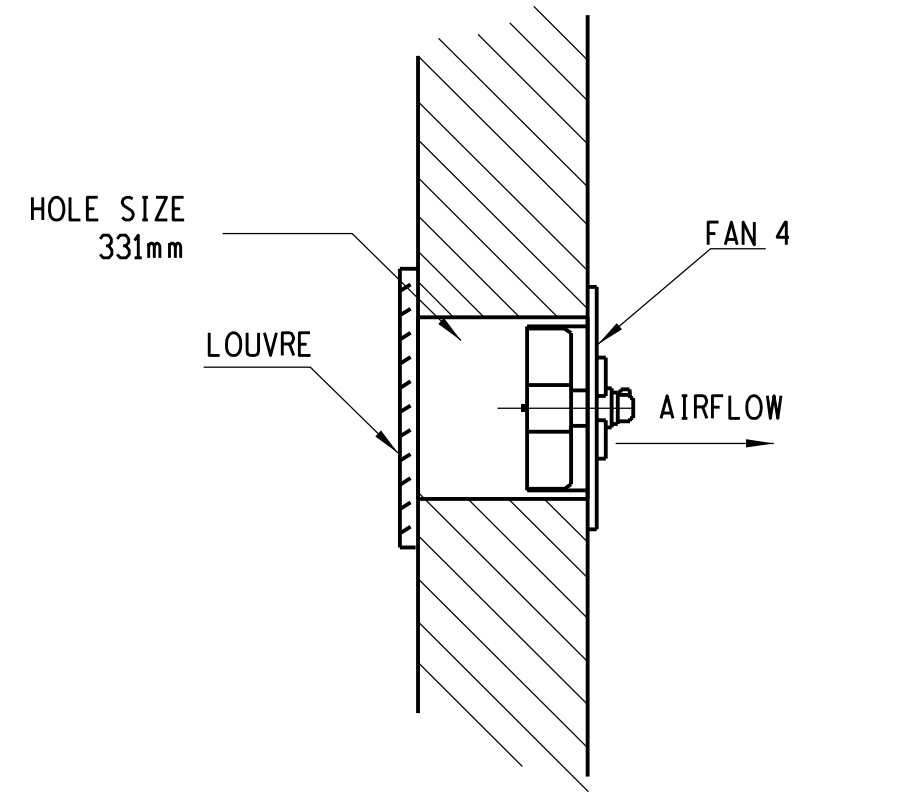
PLAN REF	DESCRIPTION	SUPPLIER	CAT. NO.
FAN 4	POWDER COATED FAN, 145W 220V AC, 0.56m ³ /s MOTOR WITH A SIZE: 331D1A WITH WEATHER LOUVRES	LUF FANS OR EQUAL APPROVED	FAN: LPA315/41F LOUVER: LS315



DETAIL 'A'
FOR UNIT 1 & 2
NTS



DETAIL 'B'
PRESSURISATION FAN/FILTER
UNIT FOR LAB ROOMS
NTS



DETAIL 'C'
N.T.S.

- ELECTRICAL LEGEND:**
(IN ACCORDANCE WITH NRS002)
- CIRCUIT BREAKER
 - SWITCH-DISCONNECTOR
 - CABLE GLAND WITH EARTH TAG
 - EARTHSTUD
 - TERMINALS

APPROVED BY: <i>[Signature]</i>	DESIGN: <i>[Signature]</i>	DATE: 04/12/2025	REVISION DESCRIPTION	DATE	BY	REFERENCE DRAWINGS
Eskom National Transmission Company South Africa SOC Ltd Reg No 2021/539129/GO						
SIMMERPAN COMPLEX LAB BUILDINGS (PHASE 6, LEGACY & TELECOMS) VENTILATION INSTALLATION LAYOUT						
SCALE: AS SHOWN SIMCO25P02-SE-E64			SHEET NUMBER: 1 TOTAL SHEETS: 0			

**FINAL DESIGN
FOR CONSTRUCTION**