

1 00.1_MEZZANINE FLOOR

- Externally insulated supply ducting - Externally insulated return ducting - Uninsulated extract ducting - Cladded extract ducting CV01: - 600x600 Constant Volume Supply Air diffuser with flow rate. - #32 galvanised condensate/drain piping - Refrigerant piping SE - Duct stop end Single phase isolator by electrician Three phase isolator by electrician - 4 Way Blow Ceiling Cassette with Cooling Capacity FD - Fire Damper with fusible link - Under Cut door (25mm) — Door Grille with size and flow rate DV077 - Disc valve with flow rate - Return Air Grille (600x600) with flow rate - Variable Refrigerant Flow Condensers - Mid Wall unit - Axial Fan SA - Sound Attenuator (1.5D) WL03(800x450) Weather Louvre with size and flow rate - Condenser

CONSTRUCTION NOTES This drawing is not to be used as a construction/installation drawing. Routes and zones have been allocated to this service, location dimensions are indicative of these. All installation should be carried out as per Part IV of the tender specification. 2. Duct sizes shown are sheet metal sizes. 3. All ducting to be manufactured & installed in accordance with the SANS standards.
4. All A/C shaft to be fitted with mentis grid platform on floors with access door.
5. All exposed ducting to be painted to an approved colour. 7. All take-offs from supply & exhaust air ducting to be 45° AC equipment to be fitted with anti-vibration mountings as per specification. 9. HVAC contractor to ensure that all condensate drains are tropped and slope adequately. All drains to be tested for leaks and operation. All ducting to be flat on top and installed hard-up to the underside of the slab above. HVAC Contractor is responsible for connecting the condensate drains to the drain stack or the nearest drain. The connection must be a solid connection to prevent leakage. 12. Thermostat positions are provisional. Final positions shall be determined on site in conjunction with Client/Engineer. Where full height partitioning is not available for mounting the thermostat, it must be mounted on the brick wall. 13. All refrigerant piping, electrical and control wiring between indoor and units must run in trunking/on cable trays with cover plate securely fitted against wall. 14. Condenser must be mounted on galvanised cantilever frame.
 15. All supply air ducting must be externally insulated. 16. All BMS wiring must be installed in PVC conduit by BMS controller. DIVISION OF WORK Work by Main Contractor Openings in doors for door grilles.

Openings in ceiling for air terminals and/or fans.

Openings in structure complete with timber frames (in non-fire walls) and making good after installation of HVAC equipment.

Concrete bases for fan sets, etc.

Enclosures around HVAC openings

Mentis grid platform in AC shafts.

Building in and sealing of fire dampers. Work by Electrical Subcontractor - Power supply terminating in Distribution boards. — Heater interfacing safeties with the air pressure switch. - Stop/Start interfacing of toilet exhaust fans. - Fire interfacing signal to each AHU. Work by Plumbing Subcontractor - Fullbore outlets on roof. - Water outlet points for Chiller Units REV DATE REVISION DETAILS 00 07.06.2022 PRELIMINARY DESIGN 01 14.10.2022 ARCHITECTS PLAN UPDATED COPYRIGHT OF THIS DESIGN AND DRAWINGS IS RESERVED. SCALED DIMENSIONS ARE INVALID. ALL DIMENSIONS AND LEVELS TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK. DISCREPANCIES TO BE REPORTED IMMEDIATELY. ALL BUILDING WORK TO BE IN COMPLIANCE WITH NATIONAL BUILDING REGULATIONS, SOUTH AFRICAN NATIONAL STANDARDS AND LOCAL AUTHORITY BY-LAWS. THE MASTER IS HELD AT ELTEK ENGINEERING SERVICES AND BEARS THE ORIGINAL SIGNATURE OF APPROVAL

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THIRD FLOOR LEVEL **HVAC LAYOUT**

ISSUED FOR INFORMATION

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