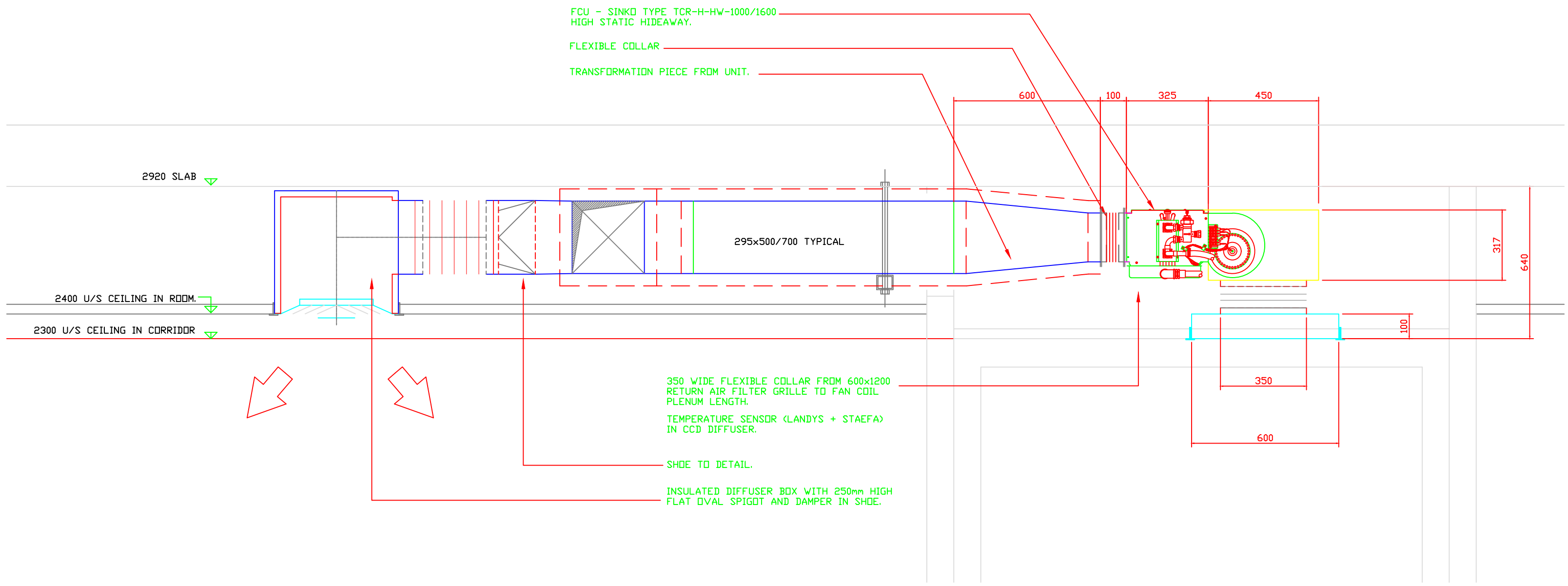


PARASITOLOGY & BSL-3 LAB
BLOCK 14 C (SOUTH UPPER)

EQUIPMENT SCHEDULE Hide Away Units								
Symbols: MCA: Minimum Circuit Amps; FLA: Full Load Amps; IFM: Indoor Fan Motor; Output: Fan Motor Rated Output								
ITEM	DESCRIPTION	AREA / LOCATION	QTY	COOLING CAPACITY (kW)	POWER SUPPLY	SIZE - Indoor Unit (HWD) (mm)	WEIGHT (kg)	NOTES
HAU 01	Hide Away Unit (Ceiling Concealed)			2.9 kW	220-240V / 50Hz, Max 284V & Min 198V; MCA = 0.59A; IFM: Output = 0.096kW; FLA = 0.47A	292x790x700	19	
HAU 02	Hide Away Unit (Ceiling Concealed)			3.2 kW	220-240V / 50Hz, Max 284V & Min 198V; MCA = 0.59A; IFM: Output = 0.096kW; FLA = 0.47A	292x790x700	20	
HAU 03	Hide Away Unit (Ceiling Concealed)			3.7 kW	220-240V / 50Hz, Max 284V & Min 198V; MCA = 0.59A; IFM: Output = 0.096kW; FLA = 0.47A	292x790x700	20	
HAU 04	Hide Away Unit (Ceiling Concealed)			5.9 kW	220-240V / 50Hz, Max 284V & Min 198V; MCA = 1.21A; IFM: Output = 0.08kW; FLA = 0.97A	380x690x800	45	
HAU-05	Hide Away Unit (Ceiling Concealed)			9.5 kW	220-240V / 50Hz, Max 284V & Min 198V; MCA = 1.85A; IFM: Output = 0.18kW; FLA = 1.48A	380x1000x800	50	
Outdoor Units								



TYPICAL FAN COIL UNIT MOUNTING/ARRANGEMENT DETAIL.
1 of 10

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.

To prepare his construction/installation drawing, the subcontractor must adhere to the co-ordination principle and must respect all the attached drawings, including structural and other services design drawings pertaining to the work shall acquire himself with the general arrangement of all other services and ensure that in doing his work it will not obstruct the fixing of future maintenance of other services.

The subcontractor is responsible for correct field dimensions, clearances and heights, quantities, installation processes and techniques of construction co-ordination of his work with that of all other trades, providing all devices necessary for safe and satisfactory installation of his work, typical electrical weight including all typical details as well as the legend can be read off drawing number MA-107.

All installation should be carried out as per Part IV of the tender specification.

Duct sizes shown are sheet metal sizes.

All ducting to be manufactured & installed in accordance with the 1442 standards.

All A/C ducts to be fitted with metal grid platform on floors with access door.

All exposed ducting to be painted to an approved colour.

All take-offs from supply & exhaust air ducting to be 45° ducts.

AC equipment to be fitted with anti-vibration mountings as per specification.

HVAC contractor to ensure that all condensate drains are trapped and slope adequately. All drains to be tested for leaks and operation.

All ducting to be flat on top and installed hand-up to the underside of the slab above.

1. 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.

2. Thermostat positions are provisional. Final positions must be determined after site co-ordination with Client/Engineer. Where full height wall units are in conjunction with Client/Engineer, where full height wall units are in conjunction with Client/Engineer, it must be mounted on the brick wall, mounting the thermostat.

3. All refrigerant piping, electrical and control wiring between indoor and outdoor units must run in trays/cable trays with cover plate securely fitted against wall.

4. Condenser must be mounted on galvanised container frame.

5. All supply air ducting must be externally insulated.

6. All BMS wiring must be installed in PVC conduit by BMS contractor.

DIVISION OF WORK

Work by Main Contractor

- Openings in slabs for door grilles.
- Openings in ceiling for air terminals and/or fans.
- Openings in structure complete with border frames (in non-fire walls) and concrete bases for fan sets, etc.
- Excavate bases for fan sets, etc.
- Mounting grid platform in AC shaft/rooms.

Work by Electrical Subcontractor

- Power supply terminating in Distribution boards.
- Heater interlocking relays with the air pressure switch.
- Stop/Start interlocking of inlet exhaust fans.
- Fire interlocking signal to auto. Aris.

Work by Plumbing Subcontractor

- Fulmore outlets on roof.
- Water outlet points for Chiller Units.

Legend

- Externally insulated supply ducting
- Externally insulated return ducting
- Uninsulated extract ducting
- Cladded extract ducting
- Fresh Air Duct
- 800x600 Constant Volume Supply Air Diffuser with flow rate.
- #32 galvanised condensate/drain piping
- Refrigerant piping
- Duct stop end
- Single phase isolator by electricity
- Three phase isolator by electricity
- Ceiling cassette with Cooling capacity
- Fire damper with fusible link
- Under Door (25mm)
- Door Grille with size and flow rate
- Disc valve with flow rate
- Return Air Grille (800x600) with flow rate
- Variable refrigerant Volume Condensers
- Mid wall unit
- Hide Away (Concealed) Unit
- Asial Fan
- Sound Attenuator (1.50)
- Weather Louvre with size and flow rate
- Condenser
- Supply Air Diffuser with
- Extract Air Grille

REVISIONS

Rev No.	DATE	DESCRIPTION
TD	03.10.25	ISSUED FOR TENDER
A	26.03.25	ISSUED FOR INFORMATION

CLIENT

NATIONAL HEALTH LABORATORY SERVICE

CONSULTING

POTENT Engineering Projects

Project: **NHLS BLOCK 14**

Master plan reference: **BLOCK 14 C**

Drawing: **SOUTH UPPER PLAN**

Status: **TENDER**

Drawn by: **T.M.**

Designed by: **J.M.**

Checked by: **M.M.**

Signature: **2025-03-07**

Date: **2025-03-07**

Scale: **1:50**

Date: **FEB-2025**

Drawing No: **P2309-MA-107**

Revision No.: **TD**