

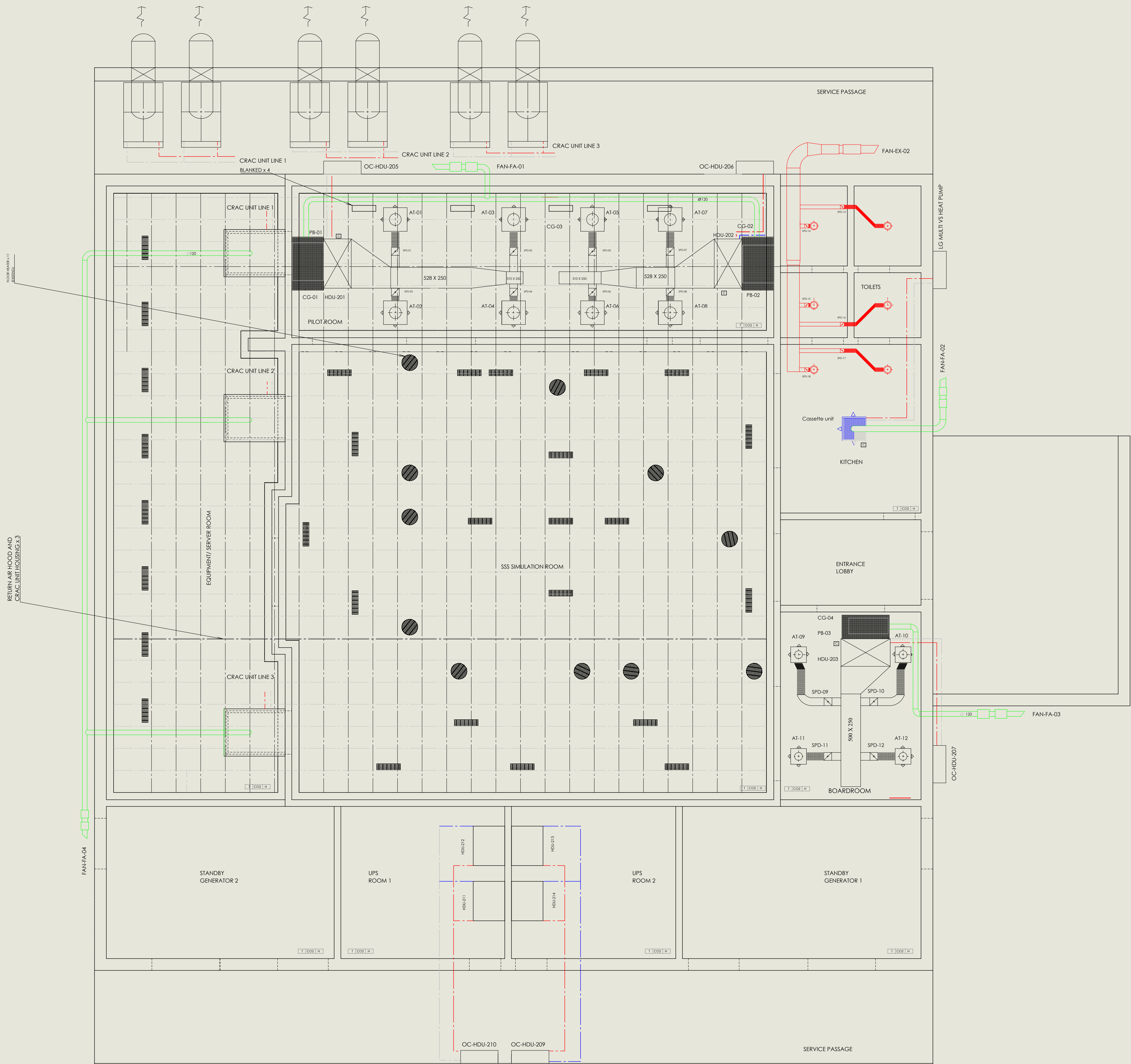


Table 1- Schedule of fan

ITEM NO.	DRAWING REFERENCE NO.	DESCRIPTION	VOLUME FLOW RATE (L/S)	STATIC PRESSURE (Pa)	POWER SUPPLY
1	FAN-FA-01	Pilot room fresh air fan with cowl & attenuation	40	>= 20	220 V/1phase/50 Hz
2	FAN-FA-02	Kitchen fresh air fan with cowl & attenuation			
3	FAN-FA-03	Boardroom fresh air fan with cowl & attenuation	45	>= 30	
4	FAN-FA-04	CRAC units fresh air fan with cowl & attenuation			
5	FAN-EX-02	Toilet & kitchen exhaust fan with cowl & attenuation	514	>= 30	

Table 4 - Schedule of units

ITEM NO.	DRAWING REFERENCE NO.	MODEL	ESSENTIAL POWER	LOCKED SET-POINT	SET-POINT	POWER SUPPLY
1	HDU-201	LG UM48N34 - indoor unit	YES	YES	20 °C	220v/1PHASE/50Hz
2	HDU-202					
3	HDU-203					
4	Cassette unit	LG CASSETTE UNIT ARNU48GTAB4				
5	OC-HDU-205	LG UU48WU32				
6	OC-HDU-206	OUTDOOR UNIT				
7	OC-HDU-207					
8	LG multi vs heat pump	LG ARUBO60GS54				
9	OC-HDU-209					
10	OC-HDU-210	LG ARUN120LS55				
11-14	HDU-211 TO HDU-214	LG ARNU48GV2A4				

Table 2- Schedule of air terminals

ITEM NO.	DRAWING REFERENCE NO.	DESCRIPTION	RANGE (L/S)
1	AT-1	Pilot room constant air volume terminal	166-200
2	AT-2		
3	AT-3		
4	AT-4		
5	AT-5		
6	AT-6	Boardroom constant air volume terminal	>= 111
7	AT-7		
8	AT-8		
9	AT-9		
10	AT-10		
11	AT-11		
12	AT-12		

Table 5 - Schedule of ceiling grid

ITEM NO.	DRAWING REFERENCE NO.	DESCRIPTION	SIZE (mm)
1	CG-01	Pilot room return ceiling grid 1	1200 X 600
2	CG-02	Pilot room return ceiling grid 2	1200 X 600
4	CG-04	Boardroom return ceiling grid	1200 X 600

Table 3- Schedule of spigot dampers

ITEM NO.	DRAWING REFERENCE NO.	DESCRIPTION	NOMINAL DIAMETER (mm)
1	SPD-01	Pilot room manual spigot damper	200
2	SPD-02		
3	SPD-03		
4	SPD-04		
5	SPD-05		
6	SPD-06		
7	SPD-07	Boardroom manual spigot damper	200
8	SPD-08		
9	SPD-09		
10	SPD-10		
11	SPD-11	Toilet manual spigot damper	200
12	SPD-12		
13	SPD-13	Kitchen manual spigot damper	200
14	SPD-14		
15	SPD-15	Kitchen manual spigot damper	200
16	SPD-16		
17	SPD-17	Kitchen manual spigot damper	200
18	SPD-18		

Table 6 - Schedule of plenum boxes

ITEM NO.	DRAWING REFERENCE NO.	DESCRIPTION	SIZE/TYPE
1	PB-01	PILOT ROOM FRESH & RETURN AIR NO. 1	TBA
2	PB-02	PILOT ROOM FRESH & RETURN AIR NO. 2	
3	PB-03	BOARDROOM FRESH & RETURN AIR	

General notes

- 1) Flexible ducts to be a maximum of 1.5 m.
- 2) Indoor units to comply to the specifications in the schedule of indoor units.
- 3) Outdoor units to comply to the specifications in the schedule of outdoor units.
- 4) Contractor to verify all dimensions on-site. Contractors must confirm all dimensions and ceiling heights before installation.
- 5) Coordination with other services: coordinate installation with electrical and fire protection systems to avoid clashes
- 6) Drainage slope: ensure that condensate drain lines from each indoor ducted unit are installed with a continuous slope of at least 1:100 to prevent water.
- 7) CO2 sensor to be set according to the hazardous chemical substances regulations.
- 8) Unit placement accuracy: install units strictly as per the design layout to ensure adequate airflow and avoid obstructing access doors, windows or light fixtures.
- 9) Contractor to select suitable plenum boxes for the selected indoor units.
- 10) Outlets for air-conditioned air in the pilot room must be blanked out.
- 11) All other units/ component installations must follow the schedules provided unless otherwise stated.

Ducting installation notes

- 1) Contractor to do shop detailing of the ductwork.
- 2) Insulation requirements: all ductwork and refrigerant lines must be insulated as per SANS 10400 standards to prevent energy loss and condensation.
- 3) Ductwork to minimise losses.
- 4) Contractors are responsible for testing and balancing airflows to meet design specifications.
- 5) Testing and balancing: contractors are responsible for testing and balancing airflows to meet design specifications.
- 6) Testing and balancing: contractors are responsible to ensure that the air flow range is as specified within the provided air terminal schedule
- 7) Duct sealing: all duct joints and connections must be sealed using an approved sealing method to prevent leakage.
- 8) Airflow testing: ensure even air distribution by adjusting dampers and verifying airflow rates match the design requirements for each zone.
- 9) Diffuser placement: confirm diffuser locations on-site to avoid interference with ceiling grids, light fixtures or structural elements.



DATE: 08/08/2023 DRAWN: [blank] CHECKED: [blank] APPROVED: [blank] MFG: [blank] QA: [blank]	NAME: [blank] SIGNATURE: [blank] DATE: [blank]	REVISION AND REVISION NOTES	DRAWING SCALE: [blank] REVISION: 2.0
PROJECT: ATNS CAPE TOWN INTERNATIONAL AIRPORT SSS BUILDING HVAC LAYOUT		SHEET: 1 OF 1	