



- LEGEND**
- RA -RETURN AIR
 - SA -SUPPLY AIR
 - FA -FRESH AIR
 - EXA -EXHAUST AIR
 - OBD -OPPOSED BLADE DAMPER
 - BDD -BACK DRAFT DAMPER
 - SDA -SOUND DAMPENING ATTENUATOR
 - CHWS -CHILLED WATER SUPPLY
 - CHWR -CHILLED WATER RETURN
 - FBO -FULL BORE OUTLET
 - FD -FIRE DAMPERS
 - PS -PIPE SUPPORTS
 - PRD(MOT) -STATIC PRESSURE REGULATING DAMPER (MOTORISED)
- * OBD's FOR ALL TERMINAL UNITS FA CONNECTION:
- RECTANGULAR TROX TYPE JZ-B TO SUIT DUCT
- ROUND BUTTERFLY DAMPER MANUAL TYPE TO SUIT DUCT OR OTHER APPROVED
- OBD(MAN) MANUAL OPPOSED BLADE DAMPERS, TROX TYPE JZ-B, OR OTHER APPROVED
- OBD(MOT) MOTORISED OPPOSED BLADE DAMPERS WITH SIDE MOUNTED MOTOR, TROX TYPE JK/B OR OTHER APPROVED
- * ALL IN-LINE EXTRACTION FANS TO BE INSTALLED WITH STANDARD SDA's EITHER SIDE OF FAN WITH A LENGTH OF 2x(FAN DIAMETER) -REFER TO SPECIFICATION ALL EXTRACTION FANS TO HAVE A LOCAL ISOLATOR & TO BE SWITCHED TO THE MAIN ROOM LIGHT SWITCH

- NOTES**
- CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES TO ENSURE NO CLASHES ARE ENCOUNTERED DURING CONSTRUCTION.
 - THIS DRAWING IS MERELY A GUIDE AND NO DIMENSIONS SHOULD BE TAKEN DIRECTLY FROM IT. ALL DIMENSIONS TO BE VERIFIED ON SITE.
 - ALL WORK TO BE DONE IN ACCORDANCE WITH NATIONAL BUILDING REGULATIONS AND BUILDING STANDARDS ACT (ACT 107 OF 1977)
 - DUCTING INSTALLATION IN ACCORDANCE TO SANS 1238
 - ALL DOOR GRILLES TO BE 250mm ABOVE FFL.
 - HARD-WIRED CONTROLS TO ALL AC UNITS.

DRG. No.

REFERENCE DRAWINGS

DUCTWORK NOTES:

- 1 ALL DUCT WORK TO BE MANUFACTURED TO S.A.B.S. 1238/79 STANDARDS, WITH FLANGED JOINTS ON DUCTS EXCEEDING 600 SEMI PERIMETER OR ONE SIDE EXCEEDS 1150 AND S&D JOINTS ON SMALLER DUCTS.
- 2 ALL A.C DUCTING TO BE EXTERNALLY INSULATED WITH 50mm FOIL FACED FIBREGLASS INSULATION.
- 3 ALL VENTILATION DUCTING TO BE UNINSULATED.
- 4 ALL FLEXIBLE DUCTING TO BE FACTORY PRE-INSULATED. ALL FLEXIBLE DUCTING TO BE FIXED TO SPIGOTS WITH JUBILEE CLAMPS AND STRAPPED WITH DUCT TAPE
- 5 SPIGOTS TO BE EXTERNALLY INSULATED WITH 25 FOIL FACED FIBREGLASS.
- 6 ALL HANGERS AND BRACKETS TO BE GALVANISED.
- 7 ALL DUCTWORK TO BE HUNG ON 30x50x1.6 G.S.M CHANNEL TRAPEZE HANGERS WITH 8# RODS.
- 8 FLEXIBLE CONNECTIONS TO BE FITTED TO ALL DUCTING BETWEEN AIRHANDLING AND PACKAGE UNITS, FANS, ETC.

300 TO 600	350		
601 TO 900	300	555	
901 TO 1200	250	450	750
1201 TO 2400	300	550	950

SUPPLY AIR ONLY	DUCT WIDTH (W) IN MM	R1	R2	R3
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DUCT SPLITTERS

0	FOR CONSTRUCTION	30/11/15	SZ	AW
A	ISSUED FOR TENDER	20/08/13	SZ	AW
REV	DESCRIPTION	DATE	REV BY	CHKD

DESIGNED	A. WILMOT	15/08/13
DRAWN	S. ZUMA	24/11/15
CHECKED	A. WILMOT	19/0813

APPROVED	
PROJ. PRINCIPAL:	
SIGNATURE:	DATE:

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CLIENT

PROJECT/DRAWING TITLE

INTERNAL REFURBISHMENT & FIT-OUT OF EXISTING SARS REVENUE BUILDING – PE OPTION 4
ROOF FLOOR HVAC LAYOUT

SCALE	SHEET
AS SHOWN	1 OF 1
CONTRACT No.	PROJECT No.
	M01.JNB.000014

DRAWING No.	REV
M01.JNB.000014/AC-09/4	0

EXISTING - OUTDOOR UNITS					
No	TYPE	DIMENSIONS (w x H x D)	WEIGHT (kg)	POWER SUPPLY	COOLING CAPACITY (kW)
THIRD FLOOR (LEVEL 3)					
OU-31	MDV-252(B)WD1(R)NT(B)	960 x 1615 x 785	227	30amp three ph	25.2
OU-32	MDV-252(B)WD1(R)NT(B)	960 x 1615 x 785	227	30amp three ph	25.2
OU-33	MDV-252(B)WD1(R)NT(B)	960 x 1615 x 785	227	30amp three ph	25.2
FOURTH FLOOR (LEVEL 4)					
OU-41	MDV-252(B)WD1(R)NT(B)	960 x 1615 x 785	227	30amp three ph	25.2
OU-42	MDV-252(B)WD1(R)NT(B)	960 x 1615 x 785	227	30amp three ph	25.2
OU-43	MDV-252(B)WD1(R)NT(B)	960 x 1615 x 785	227	30amp three ph	25.2
FIFTH FLOOR (LEVEL 5)					
OU-51	MTSUBSH 77	1250 x 1615 x 787	3037	380-415-3-50	37.67
OU-52	MTSUBSH 77	1250 x 1615 x 787	3037	380-415-3-50	37.67

NEW - OUTDOOR UNITS					
No	TYPE	DIMENSIONS (w x H x D)	WEIGHT (kg)	POWER SUPPLY	COOLING CAPACITY (kW)
FIRST FLOOR EAST					
COND F1	MDV-532(18W) D2RN1TD	1250 x 1615 x 785	303	380-415-3-50	43.4
FIRST FLOOR WEST					
COND F2	MDV-450(16W) D2RN1TD	1250 x 1615 x 785	303	380-415-3-50	38
SECOND FLOOR EAST					
COND E1	MDV-532(18W) D2RN1TD	1250 x 1615 x 785	303	380-415-3-50	47
SECOND FLOOR WEST					
COND E2	MDV-280(10W) D2RN1TC	1250 x 1615 x 785	303	380-415-3-50	43.5
GROUND FLOOR EAST					
COND G1	MDV-532(18W) D2RN1TD	1250 x 1615 x 785	255+295	380-415-3-50	66.2
GROUND FLOOR WEST					
COND G2	MDV-450(16W) D2RN1TD	1250 x 1615 x 785	303	380-415-3-50	38.5
SIXTH FLOOR WEST					
COND G3	MDV-532(18W) D2RN1TD	1250 x 1615 x 785	255+295	380-415-3-50	56.8
SIXTH FLOOR EAST					
COND G4	MDV-450(16W) D2RN1TD	1250 x 1615 x 785	303	380-415-3-50	40.8
PATCH ROOMS					
COND F3	MDV-450(16W) D2RN1TD	1250 x 1615 x 785	303	380-415-3-50	40.8

FOR INFORMATION ONLY