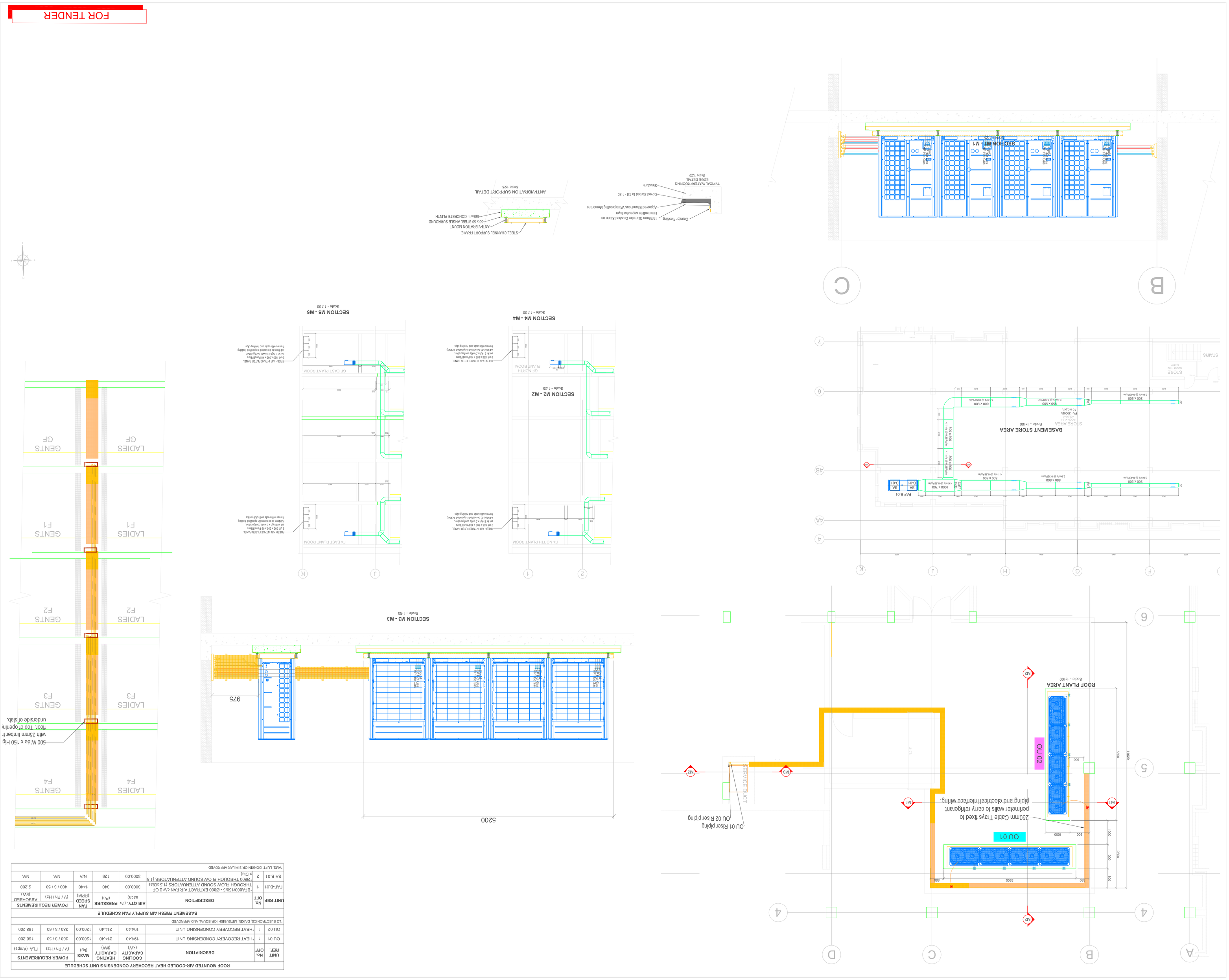

ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.
ALL WORK AND MATERIAL ARE TO COMPLY TO RELEVANT SABS CODES AND SANS PUBLICATIONS.
BRAND NAMES DENOTE SIMILAR WORKMANSHIP AND QUALITY APPROVED.
ALL WORK TO BE IN ACCORDANCE TO ARCHITECT OR ENGINEERS REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.

GENERAL NOTES:
- ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND.
- ALL SUB-CONTRACTOR IS RESPONSIBLE TO ENSURE ALL CO-ORDINATION & COMPLY DIMENSIONS OF DRAWINGS IS DONE WITH ALL OTHER SPECIFIC CONTRACTORS TO PROCUREMENT & INSTALLATION QUALITY MUST BE ADHERED TO ALL STANDARDS AS PER TENDER SPECIFICATIONS.

ROOF MOUNTED AIR-COOLED HEAT RECOVERY CONDENSING UNIT SCHEDULE							
UNIT REF.	No. OFF	DESCRIPTION	COOLING CAPACITY (kW)	HEATING CAPACITY (kW)	MASS (kg)	POWER REQUIREMENTS (V / Ph / Hz)	F.L.A (Amps)
OU 01	1	HEAT RECOVERY CONDENSING UNIT	194.40	214.40	1200.00	380 / 3 / 50	168.200
OU 02	1	HEAT RECOVERY CONDENSING UNIT	194.40	214.40	1200.00	380 / 3 / 50	168.200
*TO ELECTRONICS. CHANGE ARTISUBMISH OR EQUAL AND APPROVED							

BASEMENT FRESH AIR SUPPLY FAN SCHEDULE							
UNIT REF	No. OFF	DESCRIPTION	AIR QTY. (l/s)	PRESSURE (Pa)	FAN SPEED (RPM)	POWER REQUIREMENTS (V / Ph / Hz)	ABSORBED (kW)
FAF-B-01	1	BF-A500/150/5 - B800 EXTRACT AIR FAN c/w 2 OF THROUGH FLOW SOUND ATTENUATORS (1.5 X Dia)	3000.00	340	1440	400 / 3 / 50	2.200
SA-B-01	2	B800 THROUGH FLOW SOUND ATTENUATORS (1.5 x Dia)	3000.00	125	N/A	N/A	N/A
*ARA. LUFT. CONAIN OR SIMILAR APPROVED							

1 THIS DRAWING FORMS PART OF THE SPECIFICATION AND MUST BE READ IN CONJUNCTION WITH THE SAME.
2 ALL DUCTWORK TO BE MANUFACTURED IN ACCORDANCE WITH ABS-128-1979 LOW VELOCITY DUCT STANDARDS.
3 SUPPLY DUCTS TO BE EXTERNALLY INSULATED WITH 25mm FIRE INSULATION. UNLESS OTHERWISE SPECIFIED.
4 ALL DUCT SIZES SHOWN ARE ACTUAL INSTERNAL SIZES.
5 ALL OTHER DUCTS TO BE UNINSULATED. UNLESS SPECIFIED OTHERWISE.
6 ALL EXPOSED DUCTS TO BE PAINTED TO SPECIFICATION
7 ALL DUCTS WITH BREAKPRESSURE OF 1100mm OR LESS TO BE 'S & DRIVE'.
8 ALL BENDS TO HAVE MITRAL AGRUS OF 150mm AS SPLITTERS UNLESS OTHERWISE SPECIFIED.
9 ALL ROUND DUCT BENDS UP TO 600mm TO HAVE A RADIUS OF 200mm - UNLESS SHOWN OTHERWISE.
10 DUCT SIZES TO BE 150mm LONG @ 4/1
11 DUCTS TO BE 150mm LONG UNLESS OTHERWISE STATED.
12 ALL OPENINGS TO BE 100mm BIGGER THAN DUCT SIZES SHOWN (BUILDER INCLUDES A 25mm THK TIMBER FRAME ALL AROUND OPENING - BY BUILDER.
13 ALL OPENINGS TO BE 50mm BIGGER THAN GRILLE SIZES SHOWN WHICH TO MAKE GOOD AFTER DUCTS BRACKETS ARE INSTALLED.
14 SLEEVES IN WALLS, SLABS & BEAMS SIZE SHOWN ON DRAWING (BUILDER TO MAKE GOOD AFTER DUCTS ARE INSTALLED).

LEGEND:
- 400V / 3Ph / 50HZ POWER SUPPLY TERMINATING IN ISOLATOR WITHIN ONE METER OF EQUIPMENT - BY ELECTRICIAN
- 230V / 1Ph / 50HZ POWER SUPPLY TERMINATING IN ISOLATOR WITHIN ONE METER OF EQUIPMENT - BY ELECTRICIAN
- DOOR TO BE UNDERCUT BY 20mm MINIMUM - BY BUILDER
- WALL MOUNTED THERMOSTAT AT 1500 AFL (c/w 20mm CONDUIT AND 44 BOX IN WALL) - BY ELECTRICIAN AND BUILDER)
- WALL MOUNTED ON/OFF SWITCH AT 1500 AFL (c/w 20mm CONDUIT AND 44 BOX IN WALL) - BY ELECTRICIAN AND BUILDER)

ABBREVIATIONS:
- DG DOOR GRILLE
- TG TRANSFER GRILLE
- WL WEATHER LOUVRE
- EAD / G EXTRACT AIR DIFFUSER OR GRILLE
- MS NOT TO SCALE
- MOS MEASURE ON SITE
- TRF TRANSFORMATION OF DUCT
- c/w COMPLETE WITH
- WMS WIRE MESH SCREEN

LINE TYPE LEGEND:
- CONDENSATE DRAIN PIPE
- REFRIGERATION PIPE
- CENTRE LINE
- FLEXIBLE DUCT
- ELECTRICAL CABLE

SIZE ON ORIGINAL DRAWING 100 mm

REV No.	DATE :	DESCRIPTION:
A	22.11.2021	ISSUED FOR CLIENTS APPROVAL
B	11.02.2022	ISSUED FOR TENDER

TENDER

CLIENT LOGO

UNISA university of south africa

UNIVERSITY OF SOUTH AFRICA
FLORIDA CAMPUS
28 PIONEER STREET,
FLORIDA PARK,
ROODEPOORT

PROJECT DETAILS:
UNIVERSITY OF SOUTH AFRICA
FLORIDA CAMPUS
TSWELOPELE BUILDING (BLOCK 'E')
HEATING, VENTILATION & AIR CONDITIONING

CONTRACT No.
TCE 1167

DISCIPLINE
MECHANICAL

DRAWING DESCRIPTION
ROOF & BASEMENT LAYOUTS & SECTIONS

DESIGNED BY	DRAWN BY	CHECKED BY
HN	XO	HN

DRAWING UNITS	mm	SCALE	As Noted

RESPONSIBLE PROFESSIONAL			
DATE	NAME	SIGNATURE	PR NUMBER
11.02.2022	VAVAY RAMSUNDARA		201630001 0

UNIT K, GANDERS BUSINESS PARK
ATLLEE STREET
RANDPARK RIDGE, 2156
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Telephone 011 475 6050
Facsimile 011 475 9140
Thumbabole CONSULTING ENGINEERS (PTY) LTD

FOR TENDER

SIZE	DRAWING NUMBER	REV
A0	TCE-1167-M-TD-AC-001	B