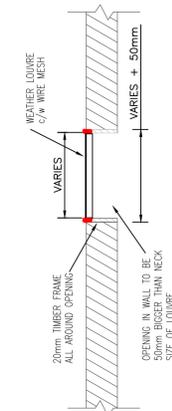
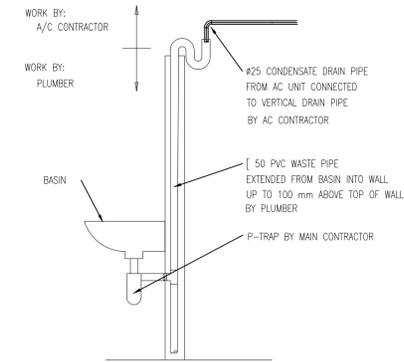


GROUND FLOOR HVAC LAYOUT
SCALE 1:100



(TYPICAL WEATHER LOUVRE DETAIL IN WALL)



TYPICAL CONDENSATE DRAIN PIPE CONNECTED TO ANY NEAREST SEWER CONNECTION

SHOULD THESE DRAWINGS AND PROJECT SPECIFICATIONS BE USED OR RELIED UPON FOR ANY OTHER PURPOSE OTHER THAN WHAT THEY WERE INTENDED FOR ON THIS SPECIFIC SITE, WITHOUT PHAKAMLE ENGINEERING PRIOR KNOWLEDGE & WRITTEN CONSENT, THEN THE USER SHALL INDEMNIFY THE COPYRIGHT HOLDER AGAINST ALL DAMAGES, CLAIMS, DAMAGES, LOSSES, FINES AND/OR PENALTIES (EITHER IN CONTRACT OR DELICT) INSTITUTED BY THE USER OR ANY OTHER PARTY AS RESULT OF THEIR RE-USE OF OR RELIANCE ON THESE DRAWINGS AND PROJECT SPECIFICATIONS"

ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND ALL WORK TO COMPLY TO LOCAL MUNICIPAL BY-LAWS HVAC SUB-CONTRACTOR IS RESPONSIBLE TO ENSURE ALL CO-ORDINATION AND CORRECT DIMENSIONING OF DRAWINGS IS DONE WITH ALL OTHER RESPECTIVE CONTRACTORS PRIOR TO PROCUREMENT AND INSTALLATION. QUALITY MUST BE ADHERED TO AS PER TENDER SPECIFICATIONS.

GENERAL NOTES

- THIS DRAWING FORMS PART OF THE SPECIFICATION AND MUST BE READ IN CONJUNCTION WITH THE SAME.
- ALL DUCTWORK TO BE MANUFACTURED IN ACCORDANCE WITH SABS-1238-1979, LOW VELOCITY DUCT STANDARDS
- ALL DUCT SIZES SHOWN ARE ACTUAL SHEETMETAL SIZES
- SUPPLY DUCTS TO BE EXTERNALLY INSULATED WITH 25mm FRK. INSULATION - UNLESS OTHERWISE SPECIFIED
- ALL OTHER DUCTS TO BE UNINSULATED, UNLESS SPECIFIED
- ALL EXPOSED DUCTS TO BE PAINTED TO SPECIFICATION
- ALL DUCTS WITH A SEMI-PERIMETER OF 1500mm, OR LESS TO BE "S & DRIVE" JOINTS, AND DUCTS ABOVE TO BE MEZ. FLANGED
- ALL BENDS TO HAVE INTERNAL RADIUS 150mm, AND SPLITTERS UNLESS OTHERWISE SPECIFIED
- ALL ROUND DUCT BENDS UP TO 4500mm - HAVE A RADIUS OF 200mm AND OVER 4500mm - RADIUS OF 300mm
- DUCT SHOES TO BE 150mm LONG @ 45°.
- SPIGOTS TO BE 100mm LONG, UNLESS OTHERWISE STATED.
- ALL REFRIGERANT PIPING TO BE COPPER AND INSULATED
- ALL REFRIGERANT / VAV PIPING TO BE NEATLY ROUTED AND INSTALLED ON GALVANISED CABLE TRAYS.
- ALL DRAINS TO BE 432mm RIGID PVC WITH A 1:100 MIN. FALL UNLESS OTHERWISE SPECIFIED

BUILDERSWORK NOTES

- ALL OPENINGS TO BE 100mm BIGGER THAN DUCT SIZES SHOWN (TO BE MADE GOOD AFTER DUCTS ARE INSTALLED - BY BUILDER)
- ALL OPENINGS TO BE 50mm BIGGER THAN GRILLE SIZES SHOWN WHICH INCLUDES A 20mm THK. TIMBER FRAME ALL AROUND OPENINGS - BY BUILDER
- SLEEVES IN WALLS, SLABS AND BEAMS FOR ALL TYPES OF PIPING (TO BE MADE GOOD AFTER DUCTS ARE INSTALLED - BY BUILDER)

REVISION No	DATE	DESCRIPTION
REVISIONS		

SIZE ON ORIGINAL DRAWING 100 mm

CONSTRUCTION OF MAKUWA LIBRARY

PROJECT NAME:
CONSTRUCTION OF MAKUWA LIBRARY

CLIENT:
FETAKGOMO-GREATER TUBATSE LOCAL MUNICIPALITY
PO BOX 206
BURGERSFORT 1150



DISCIPLINE:
MECHANICAL

WORK DESCRIPTION:
NEW LIBRARY

DRAWING DESCRIPTION:
HVAC LAYOUT

FILE No.	DESIGN	SCALE	W NGOBENI	W NGOBENI	DRAWN	CHECKED
	AS SHOWN		W NGOBENI	W NGOBENI		

DATE	NAME	SIGNATURE	PID NUMBER
16-11-2021	W NGOBENI		2019600355

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CONTRACTOR:

CADD SYSTEM	AUTOCAD	FILE NAME
SIZE	DRAWING NUMBER	REV

A1 WAN-MV01 0

SPLITTERS

DUCT WIDTH IN MM	R1	R2	R3
150 TO 600	350	555	
601 TO 900	300	450	750
901 TO 1200	250	550	950
1201 TO 2400	300	550	950

	AXIAL FAN C/W NOISE ATTENUATORS
	IN-LINE TUBE AXIAL FAN
	CEILING CASSETTE A/C UNIT
	MID-WALL SPLIT A/C UNIT
	HIDE AWAY A/C UNIT

	UNDER CEILING UNIT
	TOILET DISK VALVE
	A/C CONDENSER UNIT
	WALL MOUNTED EXTRACT FAN
	TEMPERATURE CONTROLLER - HARD WIRED TO INDOOR UNIT

	CONDENSATE DRAIN PIPE
	REFRIGERANT PIPE
	CONDUIT
	DOOR GRILLE

LEGEND

	ISOLATOR AND ELECTRICAL SUPPLY: 380 VOLT/ 3-PHASE. BY ELECT. CONTRACTOR
	INDICATED D/B BOARD. BY A/C CONTRACTOR
	ELECTRICAL POWER SUPPLY: 220V/SINGLE PHASE. BY ELECT. CONTRACTOR
	WALL BOX: 100 X 100 WITH #25 CONDUIT TO PANEL. BY ELECT. CONTRACTOR
	POWER TO VAV DIFFUSERS FROM A/C UNIT. BY A/C CONTRACTOR
	OPENING THROUGH WALL: 50mm LARGER THAN DUCT. BY MAIN CONTRACTOR
	OPENING THROUGH WALL: WITH 25mm HARDWOOD FRAME. BY MAIN CONTRACTOR
	DOORS TO BE UNDERCUT BY 20mm BY MAIN CONTRACTOR
	MAINS WATER SUPPLY: WITH GATE VALVE-SIZE AS NOTED BY PLUMBING CONTRACTOR
	DRAIN NB 50, CONNECTED INTO SEWER SYSTEM. BY PLUMBING CONTRACTOR