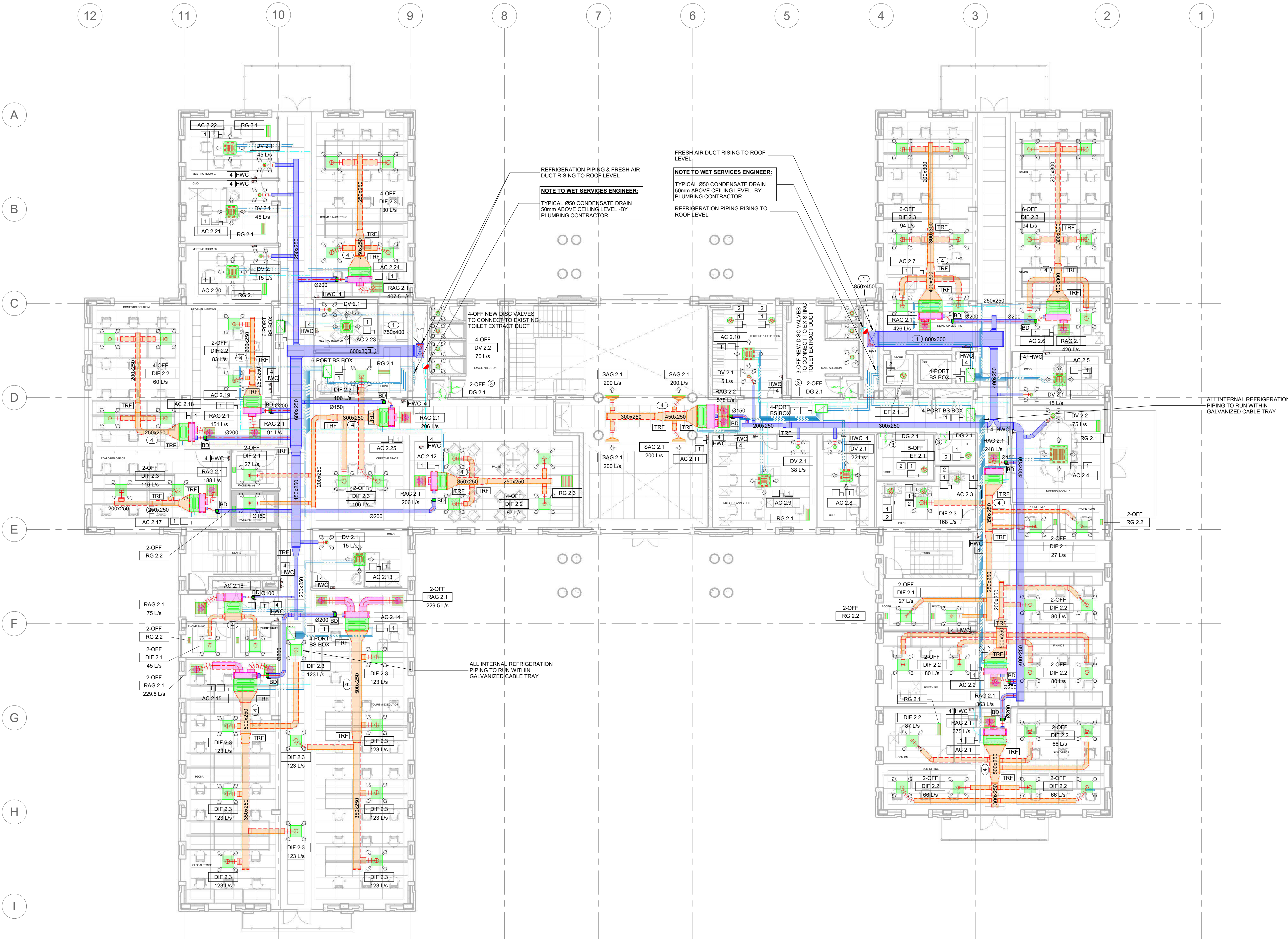




FIRST FLOOR

1 : 100

NOTES:				
SUB-CONTRACTOR TO BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS & COORDINATION BEFORE FABRICATION. THIS DRAWING TO BE READ IN CONJUNCTION WITH QUALITY SPECS				
COPYRIGHT & RIGHT OF REPRODUCTION OF THIS DRAWING OR ANY PORTION THEREOF IS RESERVED BY GRAEME PAGE CONSULTING ENGINEERS.				
ALL SPIGOTS TO BE INSULATED				
BACKGROUND DRAWING INFORMATION:				
Dwg No	Original	Description	Rev	Date Received

1002 DISC VALVES			
Mark	Count	Description	Colour
DV 2.1	9	Ø150 DISC VALVE	WHITE
DV 2.2	8	Ø200 DISC VALVE	WHITE

1002 DIFFUSERS			
Mark	Count	Description	Colour
DIF 2.1	8	GCD Ø65x495 PLATE Ø150 NECK	WHITE
DIF 2.2	23	GCD Ø65x495 PLATE Ø200 NECK	WHITE
DIF 2.3	32	GCD Ø65x495 PLATE Ø250 NECK	WHITE

1002 GRILLES				
Mark	Count	Description	OBD	Colour
DG 2.1	6	Ø100x300 DOOR GRILLE	NO	NATURALLY ANODISED WHITE
RAG 2.1	16	Ø100x400 CURVED BLADE RETURN AIR GRILLE ØW PLENUM & Ø350 SPIGOT	NO	WHITE
RAG 2.2	1	Ø100x400 CURVED BLADE RETURN AIR GRILLE ØW PLENUM & 2-OFF Ø350 SPIGOTS	NO	WHITE
RG 2.1	7	Ø100x200 CURVED BLADE RELIEF GRILLE	NO	WHITE
RG 2.2	8	Ø100x150 CURVED BLADE RELIEF GRILLE	NO	WHITE
RG 2.3	1	Ø100x150 CURVED BLADE RELIEF GRILLE	NO	WHITE
SAG 2.1	4	Ø100x150 LINEAR STRIP SUPPLY AIR GRILLE ØW PLENUM BOX & Ø300 SPIGOT	YES	WHITE

1002 AC UNITS						
Mark	Description	Total Cooling	Total Heating	Supply Air	Return Air	Power Requirements
AC 2.1	VRV HIDEAWAY UNIT	9.5W	HEAT RECOVERY	483 L/s	375 L/s	120 L/s
AC 2.2	VRV HIDEAWAY UNIT	9.5W	HEAT RECOVERY	483 L/s	363 L/s	120 L/s
AC 2.3	VRV HIDEAWAY UNIT	7.1 kW	HEAT RECOVERY	300 L/s	248 L/s	52 L/s
AC 2.4	VRV CEILING CASSETTE UNIT	5.6 kW	HEAT RECOVERY	216 L/s	216 L/s	75 L/s
AC 2.5	VRV COMPACT CEILING CASSETTE UNIT	2.2 kW	HEAT RECOVERY	150 L/s	150 L/s	15 L/s
AC 2.6	VRV HIDEAWAY UNIT	12.8 kW	HEAT RECOVERY	566 L/s	426 L/s	140 L/s
AC 2.7	VRV HIDEAWAY UNIT	12.8 kW	HEAT RECOVERY	566 L/s	426 L/s	140 L/s
AC 2.8	VRV COMPACT CEILING CASSETTE UNIT	2.2 kW	HEAT RECOVERY	150 L/s	150 L/s	22 L/s
AC 2.9	VRV COMPACT CEILING CASSETTE UNIT	3.6 kW	HEAT RECOVERY	175 L/s	175 L/s	38 L/s
AC 2.10	VRV COMPACT CEILING CASSETTE UNIT	3.6 kW	HEAT RECOVERY	175 L/s	175 L/s	15 L/s
AC 2.11	VRV HIDEAWAY UNIT	12.8 kW	HEAT RECOVERY	616 L/s	578 L/s	38 L/s
AC 2.12	VRV HIDEAWAY UNIT	7.1 kW	HEAT RECOVERY	350 L/s	230 L/s	120 L/s
AC 2.13	VRV COMPACT CEILING CASSETTE UNIT	2.2 kW	HEAT RECOVERY	150 L/s	150 L/s	15 L/s
AC 2.14	VRV HIDEAWAY UNIT	12.8 kW	HEAT RECOVERY	616 L/s	459 L/s	157 L/s
AC 2.15	VRV HIDEAWAY UNIT	12.8 kW	HEAT RECOVERY	616 L/s	459 L/s	157 L/s
AC 2.16	VRV HIDEAWAY UNIT	1.7 kW	HEAT RECOVERY	90 L/s	75 L/s	15 L/s
AC 2.17	VRV HIDEAWAY UNIT	4.5 kW	HEAT RECOVERY	233 L/s	188 L/s	45 L/s
AC 2.18	VRV HIDEAWAY UNIT	5.6 kW	HEAT RECOVERY	241 L/s	151 L/s	90 L/s
AC 2.19	VRV HIDEAWAY UNIT	2.8 kW	HEAT RECOVERY	166 L/s	91 L/s	75 L/s
AC 2.20	VRV COMPACT CEILING CASSETTE UNIT	2.8 kW	HEAT RECOVERY	166 L/s	166 L/s	15 L/s
AC 2.21	VRV COMPACT CEILING CASSETTE UNIT	2.8 kW	HEAT RECOVERY	166 L/s	166 L/s	45 L/s
AC 2.22	VRV COMPACT CEILING CASSETTE UNIT	3.6 kW	HEAT RECOVERY	175 L/s	175 L/s	45 L/s
AC 2.23	VRV COMPACT CEILING CASSETTE UNIT	1.5 kW	HEAT RECOVERY	148 L/s	148 L/s	30 L/s
AC 2.24	VRV HIDEAWAY UNIT	11.2 kW	HEAT RECOVERY	520 L/s	407 L/s	112 L/s
AC 2.25	VRV HIDEAWAY UNIT	5.6 kW	HEAT RECOVERY	266 L/s	206 L/s	60 L/s

1002 FANS					
Mark	Count	Description	Air Flow	Fan Speed (RPM)	Power Requirements
EF 2.1	8	CK10 CEILING FAN	97 L/s	28.0 RPM	230V-1PH-50Hz-0.05kW

KEY	LEGEND
SUPPLY AIR DUCTING	CHILLED WATER PIPING RETURN
RETURN AIR DUCTING	CHILLED WATER PIPING SUPPLY
FRESH AIR DUCTING	REFRIGERATION PIPING
EXTRACT AIR DUCTING	CONDENSATE DRAIN PIPING
	CONTROL WIRING

1	CLEAR OPENING THROUGH WALL WITH 20mm HARDWOOD FRAME - BY MAIN CONTRACTOR
2	CLEAR OPENING THROUGH WALL TO BE 100mm LARGER THAN DUCT - BY MAIN CONTRACTOR
3	CLEAR OPENING THROUGH SLAB TO BE 100mm LARGER THAN DUCT - BY MAIN CONTRACTOR
4	INDICATED DB BOARD - BY AC CONTRACTOR
5	INDICATED DB BOARD TO ELECTRICAL ENGINEERS DETAIL - BY ELECTRICAL CONTRACTOR
6	CEILING ACCESS PANEL TO ARCHITECTS DETAIL - BY MAIN CONTRACTOR
7	SPRING ANTI-VIBRATION MOUNTINGS
8	SPRING HANGER RODS
9	WIRE MESH SCREEN
10	OPPOSED BLADE DAMPER
11	EQUAL DUCT TRANSFORMATION
12	DUCT TRANSFORMATION TO BE FLAT ON TOP
13	DUCT TRANSFORMATION TO FLAT ON BOTTOM
14	SQUARE TO ROUND TRANSFORMATION
15	NON-RETURN DAMPER
16	HARD WIRED CONTROLLER ATTACHED TO THE WALL WITH BRACKET
17	FIRE DAMPER
18	INFRARED CONTROLLER ATTACHED TO THE WALL WITH BRACKET
19	SUPPORT AC EQUIPMENT WITH HANGER RODS & HARD RUBBER WASHERS
20	BALANCING DAMPER
21	SOUND ATTENUATOR
22	TICO AND SIMILAR APPROVED
23	SET UP DUCTS
24	SET DOWN DUCT
25	THERMOSTAT
26	1 PHASE ISOLATOR
27	3 PHASE ISOLATOR

1	FRAME INSIDE OF CLEAR OPENINGS WITH TREATED HARD WOOD/NOT SITE SCRAP
2	CLEAR OPENING THROUGH SLAB & WALL TO BE 100mm LARGER THAN DUCTING
3	DUCTING TO BE INTERNALLY LINED WITH 25mm SONIC LINER
4	DUCTING TO BE EXTERNALLY INSULATED WITH 25mm FOL FACED FIBREGLASS
5	DUCTING TO BE EXTERNALLY INSULATED WITH 50mm FOL FACED FIBREGLASS
6	PROTECTIVE COVERS TO BE FITTED OVER ALL FLEXIBLE CONNECTIONS
7	EXPOSED DUCTING TO BE PAINTED IN ACCORDANCE WITH SCHEDULE CONTAINED IN STANDARD SPECIFICATION DOCUMENT
8	FIBREGLASS MEMBRANE & RESIN WATERPROOFING
9	BURGLAR BARS WELDED IN DUCTING @ 150mm CENTRE
10	ELECTRICAL ISOLATOR & POWER - BY AC CONTRACTOR (NOT BY ELECTRICIAN)

1	DUCTING TO BE UNINSULATED
2	DUCTING TO BE INTERNALLY LINED WITH 25mm SONIC LINER
3	DUCTING TO BE EXTERNALLY LINED WITH 25mm SONIC LINER
4	DUCTING TO BE EXTERNALLY INSULATED WITH 25mm FOL FACED FIBREGLASS
5	DUCTING TO BE EXTERNALLY INSULATED WITH 50mm FOL FACED FIBREGLASS
6	PROTECTIVE COVERS TO BE FITTED OVER ALL FLEXIBLE CONNECTIONS
7	EXPOSED DUCTING TO BE PAINTED IN ACCORDANCE WITH SCHEDULE CONTAINED IN STANDARD SPECIFICATION DOCUMENT
8	FIBREGLASS MEMBRANE & RESIN WATERPROOFING
9	BURGLAR BARS WELDED IN DUCTING @ 150mm CENTRE
10	ELECTRICAL ISOLATOR & POWER - BY AC CONTRACTOR (NOT BY ELECTRICIAN)

1	ISOLATOR & POWER TO ISOLATOR
2	INTERLOCK FAN TO LIGHT SWITCH
3	POWER TO DISTRIBUTION BOARD
4	Ø65 DRAW BOX CHASED INTO WALL @ 1500mm AFFL OR AS INSTRUCTED BY ARCHITECT ØW Ø25 CONDUIT & DRAW WIRE RUNNING TO AC UNIT
5	100x100 DRAW BOX CHASED INTO WALL @ 1500mm AFFL OR AS INSTRUCTED BY ARCHITECT ØW Ø25 CONDUIT & DRAW WIRE RUNNING TO AC UNIT
6	GENERATOR POWER TO ISOLATOR

A

ISSUED FOR TENDER

N/W

S/B

2025/09/09

Rev

Description

Dwg

Appd

Date

GPCE

GRAEME PAGE CONSULTING ENGINEERS

-EST. 2013-

T: +27 11 794 1907

E: info@gpce.co.za

W: www.gpce.co.za

P.O. Box 472 Douglasdale 2165

CLIENT:

BETAPOINT

ARCHITECT:

THE GREY WHIPPET ARCHITECTURE

PROJECT DESCRIPTION:

PROJECT SPRINGBOOK

DRAWING TITLE:

HVAC INSTALLATION
FIRST FLOOR LAYOUT

STATUS:

TENDER

SCALE/ENL:

1 : 100

DRAWING NUMBER:

G4260-1002

APPROVED BY:

GPJ

REVIEW:

A