

NOTES

- ALL DUCTWORK IS MANUFACTURED TO DW/144
- ACCESS DOORS COMPLY WITH DW/144 & TR19
- ALL TAPERS ARE EQUAL UNLESS OTHERWISE STATED
- ALL UNSPECIFIED BENDS ARE EITHER 90° OR 45°
- ACCESS DOORS ARE PROVIDED ADJACENT TO FIRE DAMPERS
- VCD'S TO BE PROVIDED AT ALL FINAL RUN OUTS TO GRILLES.
- ALL HEAT RECOVERY DUCTWORK IS TO BE THERMALLY INSULATED.
- FIRE DAMPERS ARE INSTALLED THROUGH ANY FIRE WALLS AND FLOOR SLABS

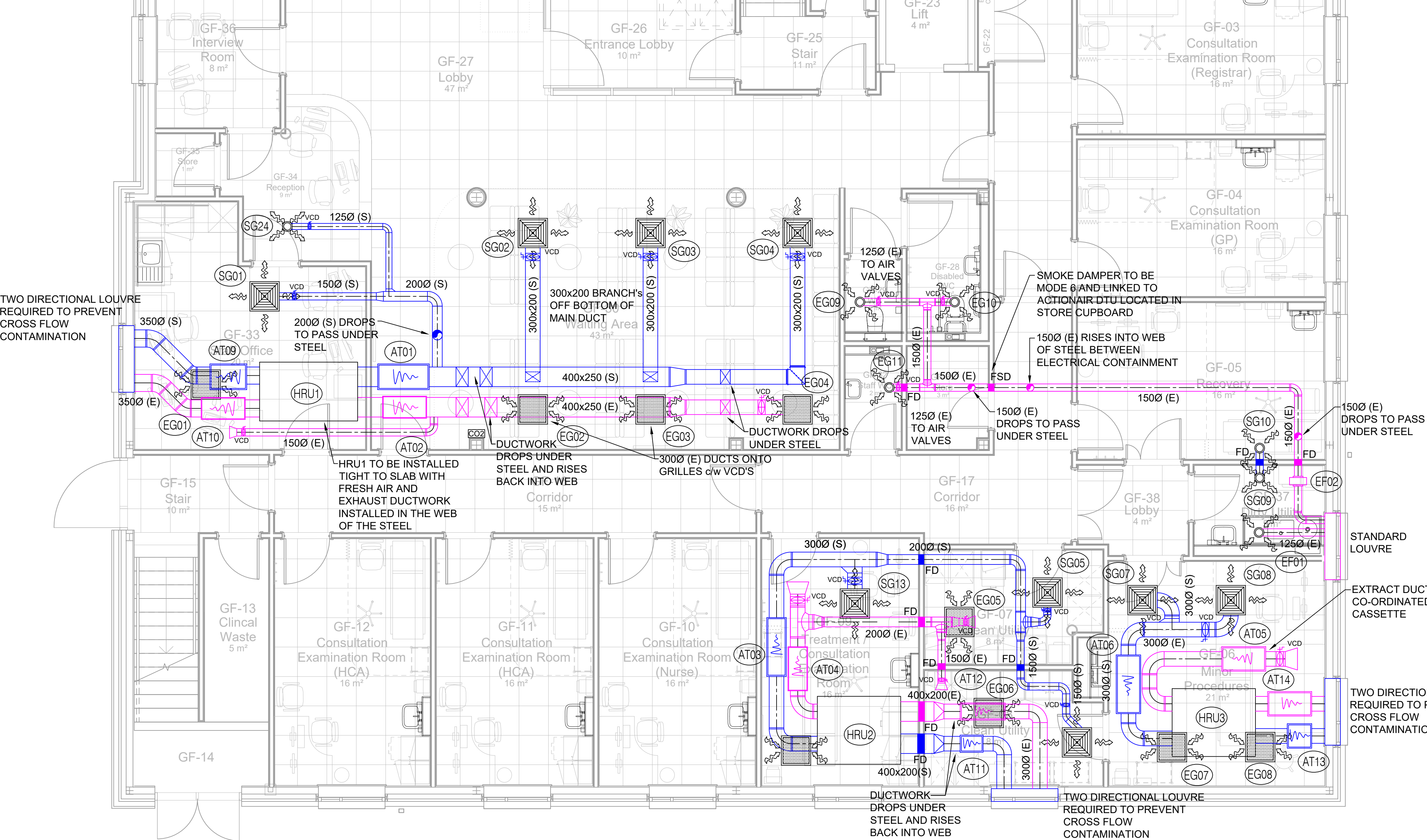
ABBREVIATIONS

- (E) EXTRACT
(S) SUPPLY
FD FIRE DAMPER
AD ACCESS DOOR
ATT ATTENUATOR
CO2 CO2 SENSOR
FSD FIRE & SMOKE DAMPER

SUPPLY GRILLE SCHEDULE									
REF	FLOOR	LOCATION	DUTY (l/s)	Pa DROP	SIZE	TYPE	SPIGOT	RAL	
SG01	GROUND	GF-33 STAFF OFFICE	50	7	595 x 595	4-WAY	150DIA	9010	
SG02	GROUND	GF-30 WAITING AREA	146	7	595 x 595	4-WAY	250DIA	9010	
SG03	GROUND	GF-30 WAITING AREA	146	7	595 x 595	4-WAY	250DIA	9010	
SG04	GROUND	GF-30 WAITING AREA	146	7	595 x 595	4-WAY	250DIA	9010	
SG05	GROUND	GF-07 CLEAN UTILITY	35	7	595 x 595	4-WAY	150DIA	9010	
SG06	GROUND	GF-08 CLEAN UTILITY	35	7	595 x 595	4-WAY	150DIA	9010	
SG07	GROUND	GF-06 MINOR PROCEDURES	114	7	595 x 595	4-WAY	250DIA	9010	
SG08	GROUND	GF-06 MINOR PROCEDURES	114	7	595 x 595	4-WAY	250DIA	9010	
SG09	GROUND	GF-37 DIRTY UTILITY	22	15	125DIA	AIR VALVE	125DIA	9010	
SG10	GROUND	GF-05 RECOVERY	22	15	125DIA	AIR VALVE	125DIA	9010	
SG11	GROUND	GF-21 CLEANERS	22	15	125DIA	AIR VALVE	125DIA	9010	
SG12	GROUND	GF-19 CHANGING PLACES	22	15	125DIA	AIR VALVE	125DIA	9010	
SG13	GROUND	GF-09 TREATMENT / CONSULTATION	173	7	595 x 595	4-WAY	300DIA	9010	
SG14	FIRST	FF-28 STAFF MEETING/TRAINING	150	7	595 x 595	4-WAY	250DIA	9010	
SG15	FIRST	FF-28 STAFF MEETING/TRAINING	150	7	595 x 595	4-WAY	250DIA	9010	
SG16	FIRST	FF-23 WAITING AREA	90	7	595 x 595	4-WAY	200DIA	9010	
SG17	FIRST	FF-23 WAITING AREA	17	15	125DIA	AIR VALVE	125DIA	9010	
SG18	FIRST	FF-26 CLEANERS	17	15	125DIA	AIR VALVE	125DIA	9010	
SG19	FIRST	FF-27 STAFF ROOM	30	15	125DIA	AIR VALVE	125DIA	9010	
SG20	FIRST	FF-06 STAFF OFFICE	26	15	125DIA	AIR VALVE	125DIA	9010	
SG21	FIRST	FF-07 CLOAKS	26	15	125DIA	AIR VALVE	125DIA	9010	
SG22	FIRST	FF-18 CONSULTATION / EXAMINATION	22	15	125DIA	AIR VALVE	125DIA	9010	
SG23	FIRST	FF-19 BABY FEED	22	15	125DIA	AIR VALVE	125DIA	9010	
SG24	GROUND	GF-34 RECEPTION	20	15	125DIA	AIR VALVE	125DIA	9010	

HEAT RECOVERY UNIT SCHEDULE												
REF	FLOOR	LOCATION	SUPPLY	EXTRACT	Pa	SFP	TYPE	MODEL	DIMENSIONS	MANUFACTURER	WEIGHT	CONTROLS
HRU01	GROUND	GF-33 STAFF OFFICE	488	488	200	1.8	VOID MOUNTED	TOPVEK FROBEL-R-CAV	2000 x 1600 x 640	SYSTEMAIR	278 Kg	CO2
HRU02	GROUND	GF-09 TREATMENT/CONSULTATION	228	197	250	1.2	VOID MOUNTED	VSC1500	1700 x 1270 x 390	SYSTEMAIR	170 Kg	PIR 1PH 18.5A
HRU03	GROUND	GF-06 MINOR PROCEDURES	243	220	200	1.6	VOID MOUNTED	VSC1500	1700 x 1270 x 390	SYSTEMAIR	170 Kg	PIR 1PH 18.5A
HRU04	FIRST	FF-23 WAITING AREA	90	90	150	1.5	VOID MOUNTED	VSC400	1190 x 780 x 310	SYSTEMAIR	75 Kg	CO2

ATTENUATOR SCHEDULE											
REF	FLOOR	LOCATION	UNIT	DUTY (l/s)	Pa DROP	DUCT	SIZE (wxhxl)	TYPE	CONNECTION	DUCT	WEIGHT
AT01	GROUND	GF-30 WAITING	HRU1	488	35	SUPPLY	525 x 450 x 1050	RECTANGULAR	FLANGED	400 x 250	44 Kg
AT02	GROUND	GF-30 WAITING	HRU1	488	29	EXTRACT	400 x 400 x 900	RECTANGULAR	FLANGED	400 x 250	22 Kg
AT03	GROUND	GF-06 MINOR PROCEDURES	HRU2	228	23	SUPPLY	350 x 500 x 1220	RECTANGULAR	SPIGOT	400 x 200	35 Kg
AT04	GROUND	GF-06 MINOR PROCEDURES	HRU2	197	21	EXTRACT	350 x 400 x 920	RECTANGULAR	SPIGOT	400 x 200	25 Kg
AT05	GROUND	GF-09 TREATMENT	HRU3	243	25	EXTRACT	350 x 400 x 920	RECTANGULAR	SPIGOT	300DIA	25 Kg
AT06	GROUND	GF-09 TREATMENT	HRU3	228	24	SUPPLY	350 x 500 x 1220	RECTANGULAR	SPIGOT	300DIA	35 Kg
AT07	FIRST	FF-23 WAITING AREA	HRU4	90	-	SUPPLY	200DIA x 900	CIRCULAR	SPIGOT	200DIA	11 Kg
AT08	FIRST	FF-23 WAITING AREA	HRU4	90	-	EXTRACT	200DIA x 300	CIRCULAR	SPIGOT	200DIA	5 Kg
AT09	GROUND	GF-33 STAFF OFFICE	HRU1	488	21	INTAKE	400 x 400 x 770	RECTANGULAR	SPIGOT	355DIA	21 Kg
AT10	GROUND	GF-33 STAFF OFFICE	HRU1	488	20	EXHAUST	575 x 380 x 920	RECTANGULAR	SPIGOT	355DIA	20 Kg
AT11	GROUND	GF-08 CLEAN UTILITY	HRU2	228	17	INTAKE	325 x 325 x 470	RECTANGULAR	SPIGOT	300DIA	16 Kg
AT12	GROUND	GF-08 CLEAN UTILITY	HRU2	197	27	EXHAUST	350 x 325 x 920	RECTANGULAR	SPIGOT	300DIA	25 Kg
AT13	GROUND	GF-06 MINOR PROCEDURES	HRU3	243	16	INTAKE	325 x 325 x 470	RECTANGULAR	SPIGOT	300DIA	16 Kg
AT14	GROUND	GF-06 MINOR PROCEDURES	HRU3	228	23	EXHAUST	350 x 325 x 920	RECTANGULAR	SPIGOT	300DIA	25 Kg
AT15	FIRST	FF-27 STAFF ROOM	HRU4	90	-	INTAKE	200DIA x 300	CIRCULAR	SPIGOT	200DIA	5 Kg
AT16	FIRST	FF-27 STAFF ROOM	HRU4	90	-	EXHAUST	200DIA x 1200	CIRCULAR	SPIGOT	200DIA	15 Kg



EXTRACT GRILLE SCHEDULE									
REF	FLOOR	LOCATION	DUTY (l/s)	Pa DROP	SIZE	TYPE	SPIGOT	RAL	
EG01	GROUND	GF-33 STAFF OFFICE	50	7	595 x 595	4-WAY	150DIA	9010	
EG02	GROUND	GF-30 - WAITING AREA	146	7	595 x 595	4-WAY	250DIA	9010	
EG03	GROUND	GF-30 - WAITING AREA	146	7	595 x 595	4-WAY	250DIA	9010	
EG04	GROUND	GF-30 - WAITING AREA	146	7	595 x 595	4-WAY	250DIA	9010	
EG05	GROUND	GF-07 CLEAN UTILITY	35	7	595 x 595	4-WAY	150DIA	9010	
EG06	GROUND	GF-08 CLEAN UTILITY	35	7	595 x 595	4-WAY	-	9010	
EG07	GROUND	GF-05 MINOR PROCEDURES	98	7	595 x 595	4-WAY	-	9010	
EG08	GROUND	GF-05 MINOR PROCEDURES	98	7	595 x 595	4-WAY	-	9010	
EG09	GROUND	GF-29 WC	13	15	125	AIR VALVE	125DIA	9010	
EG10	GROUND	GF-28 DISABLED WC	17	15	125	AIR VALVE	125DIA	9010	
EG11	GROUND	GF-32 STAFF WC	13	15	125	AIR VALVE	125DIA	9010	
EG12	FIRST	FF-28 STAFF MEETING/TRAINING	175	7	595 x 595	4-WAY	-	9010	
EG13	FIRST	FF-28 STAFF MEETING/TRAINING	175	7	595 x 595	4-WAY	-	9010	
EG14	FIRST	FF-23 WAITING AREA	90	7	595 x 595	4-WAY	200DIA	9010	

EXTRACT FAN SCHEDULE									
REF	FLOOR	LOCATION	DUTY (l/s)	Pa	TYPE	SFP	MODEL	MANUFACTURER	CONTROLS
EF01	GROUND	GF-37 DIRTY UTILITY	22	40	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR
EF02	GROUND	GF-37 DIRTY UTILITY	76	75	INLINE	0.2	KV 200 EC	SYSTEMAIR	TIMECLOCK BMS
EF03	GROUND	GF-21 CLEANERS STORE	22	45	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR
EF04	GROUND	GF-19 CHANGING PLACES	56	65	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR
EF05	FIRST	FF-25 SHOWER / WC	26	60	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR
EF06	FIRST	FF-24 DISABLED WC	17	50	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR
EF07	FIRST	FF-26 CLEANERS STORE	13	60	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR
EF08	FIRST	FF-07 CLOAKS	26	50	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR
EF09	FIRST	FF-19 BABY FEED	22	50	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR
EF10	FIRST	FF-27 STAFF ROOM	30	50	CEILING	0.3	CENTRIF DUO PLUS T	VENT AXIA	LIGHTING PIR



ACTIONAIR DAMPER TEST UNIT

04	Additional ventilation added to GF-34 Reception	JS	DWS	28.06.24
03	Revised to include additional attenuation to atmospheric side of heat recovery units	JS	DWS	04.06.24
02	Revised to suit latest Architects GA Drawing 151236-JTP-01-00-DR-A-1007_C06	JS	DWS	24.05.24
01	Revised to suit latest Architects GAS, and CPW Comments, Construction Issue Drawing	JS	DWS	12.04.24
REV NO	CONTENTS	DRAWN BY	APPROVED BY	DATE
REVISION NOTES ▲				
CUSTOMER				
GF TOMLINSON				
PROJECT				
BARWELL MEDICAL CENTRE				
DRAWING STATUS				
CONSTRUCTION				
DRAWING TITLE				
GROUND FLOOR VENTILATION LAYOUT				
JOB NO.		NO.	REV.	
45279		M003	04	
SCALE		1:50@A1	DRAWN BY	JS
DATE		26.09.2023	APPROVED BY	DWS
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