HEAT RECOVERY UNIT SCHEDULE

Project:	Nuneaton
Schedule No:	G0012-JPA-ZZ00-SC-M-57101
Revision:	P02
Date:	17.04.25
NOTES	1. Unit to be complete with anti-vibration mounts and flexible connections.

REFERENC	AREA-SERVED	MODEL	POWER (W)	RUNNING CURRENT (	FUSE RATING (A)	DIMENSIONS (MM W x D x H)	Mass (kg)	AIR FLOW (l/s)	DUCTWORK CONNECTION (mm)	EXTERNAL STATIC PRESSURE (	SOUND PRESSURE (dE	HEATER BATTERY	CONTROLS
HRU/00/001	GROUND FLOOR GUEST LOUNGE	LGH-250RVXT-E	420	2.5	6	1144 x 1231 x 404	198	695	600 x 300	170	37	Yes	INTEGRAL UNIT MOUNTED CONTROL PANEL
HRU/00/002	VES COLOURFAN SUPPLY	SIZE 5 WITH ELECTRONIC THYRISTOR HEATING	14400	18.9	32	1000 x 1600 x 550	180	600	900 x 550	120	38	Yes	INTEGRAL UNIT MOUNTED CONTROL PANEL

Extract Fan Schedule

Reference	Location	Model (Or Equivalent)	Duty	Electrical Details						Dimensions					
				Static Pressure	Specific Fan Power	Power Supply	Motor Power	Full Load Current	Sound	Height	Width	Depth	Mass	Connection Size	
			l/s	Pa	W/l/s	Ø, Hz, V	kW	A	dBA	mm	mm	mm	kg	mm	
KEF/00/01	Plantroom	MPC 355 D4 F4 T40	2527.1	500.0	1.0	1, 50, 400	0.600	6.0	67.0	700	700	700	63	315	

Notes:
1. Fans to be provided with speed controllers for commissioning.
2. Fans to be supplied with mounting brackets, fast clamps connections, anti-vibration mounts.
3. Fans to be interfaced with fire alarm to shut down on fire signal.
4. Kitchen Extract Fan to be rated for 200deg C continuous operation
5. Extract fan equipped with integrated condensate and grease drain

GRILLE SCHEDULE

Project:	Nuneaton
Schedule No:	G0012-JPA-ZZ00-SC-M-57101
Revision:	P02
Date:	25.04.25
NOTES	1. All grilles are to be installed in RAL 9010, unless specified otherwise. 2. All Grilles are to be independantly supported from the structure 3. All grilles utilising ex.isting plenums are to be complete with transforming piece to 315mm spigot.

REFERENC	AREA-SERVED	FLOW-RATE	GRILLE-TYPE	SPIGOT	PLENUM-BOX	OPTIONS	MAX-PRESSUI	THROW	TERMINAL-VELOCITY	MAX-NR	SYSTEM
EG00/001	00-GUETS LOUNGE	0.230	PERFORATED RETURN GRILLE	250Ø	TOP ENTRY PLENUM BOX	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR40	EXTRACT
EG00/002	00-GUETS LOUNGE	0.230	PERFORATED RETURN GRILLE	250Ø	TOP ENTRY PLENUM BOX	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR40	EXTRACT
EG00/003	00-GUETS LOUNGE	0.230	PERFORATED RETURN GRILLE	250Ø	TOP ENTRY PLENUM BOX	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR40	EXTRACT
EG00/004	00-WC	0.008	AIR VALVE	125Ø	NONE	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR20	EXTRACT
EG00/005	00-WC	0.008	AIR VALVE	125Ø	NONE	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR20	EXTRACT
EG00/006	00-WC	0.008	AIR VALVE	125Ø	NONE	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR20	EXTRACT
EG00/007	00-STAFF WC	0.008	AIR VALVE	125Ø	NONE	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR20	EXTRACT
SG00/001	00-GUETS LOUNGE	0.230	600x600 DIFFUSER	250Ø	TOP ENTRY PLENUM BOX	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR35	SUPPLY
SG00/002	00-GUETS LOUNGE	0.230	600x600 DIFFUSER	250Ø	TOP ENTRY PLENUM BOX	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR35	SUPPLY
SG00/003	00-GUETS LOUNGE	0.230	600x600 DIFFUSER	250Ø	TOP ENTRY PLENUM BOX	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR35	SUPPLY
SG00/004	00-KITCHEN	0.300	600x600 DIFFUSER	350x 250	TOP ENTRY PLENUM BOX	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR35	SUPPLY
SG00/005	00-KITCHEN	0.300	600x600 DIFFUSER	350x 250	TOP ENTRY PLENUM BOX	NECK REDUCING PLATE TO SUIT AIR VOLUME	30Pa	2m	0.25m/s	NR35	SUPPLY

GROUND FLOOR ATTENUATOR SCHEDULE

Project:	Nuneaton
Schedule No:	G0012-JPA-ZZ00-SC-M-57101
Revision:	P02
Date:	25.04.2025

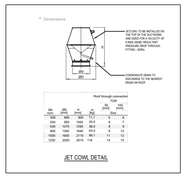
REFERENCE	AREA-SERVED	AIR-VOLUME	SYSTEM	DUCT-SIZE	PLANT-SERVED	REQUIRED-NR-RATING	LENGTH
ATT00/001	00-GUESTLOUNGE	0.695	FRESH AIR INTAKE	600 x 300	HRU00/001	NR35	TO BE DECIDED BY MANUFACTURER, DRAWN IN AT 600mm
ATT00/002	00-GUESTLOUNGE	0.695	RETURN	600 x 300	HRU00/001	NR45	TO BE DECIDED BY MANUFACTURER, DRAWN IN AT 600mm
ATT00/003	00-GUESTLOUNGE	0.695	EXAHUST	600 x 300	HRU00/001	NR45	TO BE DECIDED BY MANUFACTURER, DRAWN IN AT 600mm
ATT00/004	00-GUESTLOUNGE	0.695	SUPPLY	600 x 300	HRU00/001	NR45	TO BE DECIDED BY MANUFACTURER, DRAWN IN AT 600mm
ATT00/005	00-KITCHEN AHU	0.600	SUPPLY	900 x 600	HRU00/002	NR35	TO BE DECIDED BY MANUFACTURER, DRAWN IN AT 900mm
ATT00/006	00-KITCHEN AHU	0.600	SUPPLY	900 x 600	HRU00/002	NR35	TO BE DECIDED BY MANUFACTURER, DRAWN IN AT 900mm
ATT00/007	00-KITCHEN EXTRACT	0.700	EXTRACT	400 dia	KEF/00/001	NR35	TO BE DECIDED BY MANUFACTURER, DRAWN IN AT 800mm
ATT00/008	00-WC	0.084	EXTRACT	200 dia	EF00/011	NR45	TO BE DECIDED BY MANUFACTURER, DRAWN IN AT 600mm

NOTES
Final selections to be made by the manufacturer and acoustician.

EXTRACT FAN SCHEDULE

Project:	Nuneaton	
Schedule No:	G0012-JPA-ZZ00-SC-M-57101	
Revision:	P2	
Date:	25.04.25	
REFERENCE	**EF00/001 - 010 & EF01/001 - 014**	**EF00/011**
SYSTEM	CEILING MOUNTED EXTRACT FAN	CEILING MOUNTED EXTRACT FAN
LOCATION	ALL BEDROOMS	GROUND FLOOR WC
DIMENSIONS	391X391X248	391X391X248
FAN TYPE	Ceiling Void	Ceiling Void
INVERTER	Yes	Yes
SPARE MOTORS	NO	NO
EXTRACT VOLUME	8 l/s	84 l/s
STATIC PRESSURE	30Pa	70Pa
PART L2 SFP	0.17 w/l/s	0.17 w/l/s
FIRE RATED	NO	NO
ATTENUATORS	Yes, Supplied by others	Yes, Supplied by others
NOISE	37dBA @ 3m	37dBA @ 3m
CONTROLS	Continous operation with 3 x variable speeds	Continous operation with 3 x variable speeds
WEIGHT	UNDER 10kg	UNDER 20kg
NOTES:		

1) All selections are to be selected with a minimum margin of 0% on the air volume and 15% on the external static pressure.



1) ACCESS DOORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE BELOW SCHEDULE

IN-LINE EQUIPMENT	DUCTWORK CONTRACTOR	SPECIALIST CLEANING CONTRACTOR	
CIRCULAR CONTROL DAMPERS ≥ 100	UP-STREAM PANEL	DOWN-STREAM PANEL	
RECTANGULAR CONTROL DAMPERS ≥ 1000X100	UP-STREAM PANEL	DOWN-STREAM PANEL	
FIRE DAMPERS	TO SUIT DAMPER MAINTENANCE	OPPOSITE SIDE	
HEATING/COOLING/RE-CLAIM COILS	PANEL ON BOTH SIDES		
ATTENUATORS (RECTANGULAR)	UP-STREAM PANEL	DOWN-STREAM PANEL	
ATTENUATORS (CIRCULAR)	UP-STREAM PANEL	DOWN-STREAM PANEL	
FILTER SECTIONS	UP-STREAM PANEL	DOWN-STREAM PANEL	
AIR TUNING VANES	UP-STREAM PANEL	DOWN-STREAM PANEL	
CHANGE OF DIRECTION		ONE PANEL TO SUIT	
IN-DUCT FANS/DEVICES	UP-STREAM PANEL	DOWN-STREAM PANEL	
INLET/EXHAUST LOUVRE	ONE PANEL TO SUIT		
INTERMEDIATE CLEANING PANELS IN FIRE RATED DUCT		TO SUIT FREQUENCY SPECIFIED IN DW/172	
INTERMEDIATE CLEANING PANELS IN STANDARD DUCTWORK		EVERY 10M IN HORIZONTAL DUCTWORK	
VERTICAL DUCTWORK	ONE PANEL TOP AND BOTTOM	AT EACH ACCESSIBLE FLOOR	
CIRCULAR PRESSED BENDS	NOT REQUIRED		
CIRCULAR SEGMENTED BENDS	UP-STREAM PANEL		

IN A NEW DUCTWORK SYSTEM THESE ARE THE ONLY ACCESS PANELS THAT A DUCTWORK CONTRACTOR WILL PROVIDE UNLESS THERE IS A CLEAR INDICATION BY THE CLIENT DESIGNER/SPECIFIER AS TO THEIR REQUIREMENTS FOR ACCESS TO FACILITATE CLEANING/SURVEY/INSPECTION OR CLEANING ACTIVITY.

SIZE OF ACCESS DOORS

14) TABLE 4: RECOMMENDED SIZE OF OPENINGS (RECTANGULAR AND FLAT OVAL)

DUCT SIZE UP TO LONGEST SIDE	MAJOR AXIS RECOMMENDED DIMENSION OF OPENINGS	
200MM	300MM	150MM
300MM	300MM	200MM
400MM	500MM	300MM
≥500MM	450MM	450MM

TABLE 5: RECOMMENDED SIZE OF OPENINGS (CIRCULAR)

DUCT DIAMETER UP	RECOMMENDED DIMENSION OF OPENINGS	
310MM	250MM	150MM
450MM	400MM	300MM
550MM	400MM	300MM
≥600MM	500MM	400MM

15) KITCHEN DUCTWORK IS TO BE INSTALLED IN COMPLIANCE WITH DW/172 SPECIFICATION FOR KITCHEN VENTILATION SYSTEMS
16) ALL PLASTIC DUCTWORK IS TO BE INSTALLED IN ACCORDANCE WITH DW/154 SPECIFICATION FOR PLASTICS DUCTWORK
17) ALL GLASS FIBRE DUCTWORK IS TO BE INSTALLED IN ACCORDANCE WITH DW/191 GUIDE TO GOOD PRACTICE - GLASS FIBRE DUCTWORK
18) ALL DIMENSIONS ARE IN MILLIMETRES
19) ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM

FIRE DAMPER SCHEDULE

Project:	Nuneaton
Schedule No:	G0012-JPA-ZZ00-SC-M-57101
Revision:	P02
Date:	25.04.25

REFERENCE	FLOOR	SYSTEM	DUCT WIDTH	DUCT HEIGHT	WALL/FLOOR RATING	WALL/FLOOR TYPE
FSD00/001	Ground Floor	Fire and Smoke Damper	550	250	TBC by architect	TBC by architect
FSD00/002	Ground Floor	Fire and Smoke Damper	550	250	TBC by architect	TBC by architect
FSD00/003	Ground Floor	Fire and Smoke Damper	125 dia	N/A	TBC by architect	TBC by architect
FSD00/004	Ground Floor	Fire and Smoke Damper	550	250	TBC by architect	TBC by architect
FSD00/005	Ground Floor	Fire and Smoke Damper	550	250	TBC by architect	TBC by architect

ABBREVIATIONS

GS:	GENERAL SUPPLY DUCT
GE:	GENERAL EXTRACT DUCT
DE:	DIRTY EXTRACT DUCT
SE:	SMOKE EXTRACT DUCT
KE:	KITCHEN EXTRACT DUCT
KS:	KITCHEN SUPPLY DUCT
FAI:	FRESH AIR IN DUCT
EXH:	EXHAUST DUCT
FE:	FUME EXTRACT DUCT
BF:	BOILER FLUE
DTB:	DOWN TO BELOW
DFA:	DOWN FROM ABOVE
RFB:	RISE FROM BELOW
RTA:	RISE TO ABOVE
DTLL:	DOWN TO LOW LEVEL
SD:	SUPPLY DIFFUSER
EG:	EXTRACT GRILLE
RG:	RETURN GRILLE
ATT:	ATTENUATOR
CTA:	CROSS TALK ATTENUATOR
AP:	ACCESS PANEL
VCD:	VOLUME CONTROL DAMPER
SBD:	SINGLE BLADE DAMPER
FD:	FIRE DAMPER
FD-C:	FIRE DAMPER COMBINED VCD
HL:	HIGH LEVEL
LL:	LOW LEVEL
IL:	INVERT LEVEL
CL:	CENTRELINE OF DUCT

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1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. ALL FIRE DAMPERS REQUIRE SUITABLE ACCESS. ACCESS DOORS IN PLASTERBOARD CEILING/WALLS ARE TO BE PROVIDED BY THE MAIN CONTRACTOR WHERE DUCTWORK ACCESS DOORS ARE SHOWN.
3. ALL FIRE DAMPERS OPENING ARE TO BE TRIMMED BY WALLING TO ALLOW FIXING INTO PROPRIETARY STUD WORK IN ACCORDANCE WITH THE MANUFACTURERS DETAILS.
4. SUITABLE SPACE IS TO BE LEFT ALONG DUCTWORK TO FACILITATE CORRECT BEFORE & AFTER SPACING's FOR TEST POINTS.
5. COMMISSIONING ENGINEERS ARE TO INCLUDE FOR INSERTING TEST POINTS & ALSO PROVIDING & INSTALLING TEST POINT CAPS.
6. ALL DUCTWORK TO BE TESTED IN COMPLIANCE WITH THE REQUIREMENTS FOR THE PROJECT SPECIFIC EPC/PART L COMPLIANCE CHECK LIST.
7. THE FOLLOWING FINISHES ARE TO BE APPLIED TO THERMAL INSULATION:
 - CEILING VOID - FOIL FACE FINISH
 - PLANT ROOMS - VENTURE CLAD INTERNAL & EXTERNAL
 - RISERS - FOIL FACE FINISH
 - VRF SECONDARY/CONDITIONED AIR DUCTWORK - FOIL FACE FINISH
8. THE DUCTWORK CONTRACTOR IS DEEMED TO OR INCLUDED FOR ALL NECESSARY OFFSETS AND BENDS TO PROVIDE A COMPLETE INSTALLATION.
9. ALL METAL DUCTWORK IS TO BE INSTALLED IN ACCORDANCE WITH DW/144 SPECIFICATION FOR SHEET METAL DUCTWORK - LOW, MEDIUM & HIGH PRESSURE/VELOCITY AIR SYSTEMS.
10. ALL DUCTWORK IS TO BE INSTALLED AN INTERMEDIATE PROTECTION, DELIVERY AND INSTALLATION STANDARD AS SET OUT WITHIN TR19.
11. ALL DIMENSIONS ARE IN MILLIMETRES.
12. DUCTWORK WITHIN RISERS AND FALLOW AREAS SHALL BE INSULATED. WHERE DUCTWORK IS EXPOSED IN AN OCCUPIED ROOM IT SHALL NOT BE INSULATED.
13. ALL DUCTWORK FINAL CONNECTIONS SHALL BE INSTALLED IN FLEXIBLE DUCTWORK WITH A MAXIMUM DISTANCE OF 600mm.
14. THE CONTRACTOR SHALL ALLOW FOR ALL ACCESS HATCHES IN DUCTWORK TO FACILITATE CLEANING AND ACCESS FIRE DAMPERS. AS A MINIMUM THIS SHOULD BE BEFORE AND AFTER EACH DAMPER, 1 No. FOR EACH BEND, AND 1No.EVERY 10m OF STRAIGHT RUNS.
15. ALL MFSD'S TO BE CONTROLLED VIA CENTRAL PANEL LOCATED IN PLANTROOM (FINAL POSITION TBC) AND MONITORED BY BMS.
16. ALL FINAL BRANCHES TO HAVE VCD'S IN ORDER TO COMMISSION APPROPRIATELY. (UNLESS AIR VALVE TYPE USED FOR FINAL COMMISSIONING / FINE BALANCING)

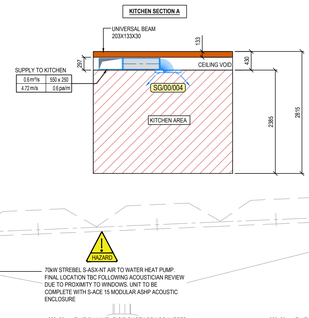
LEGEND

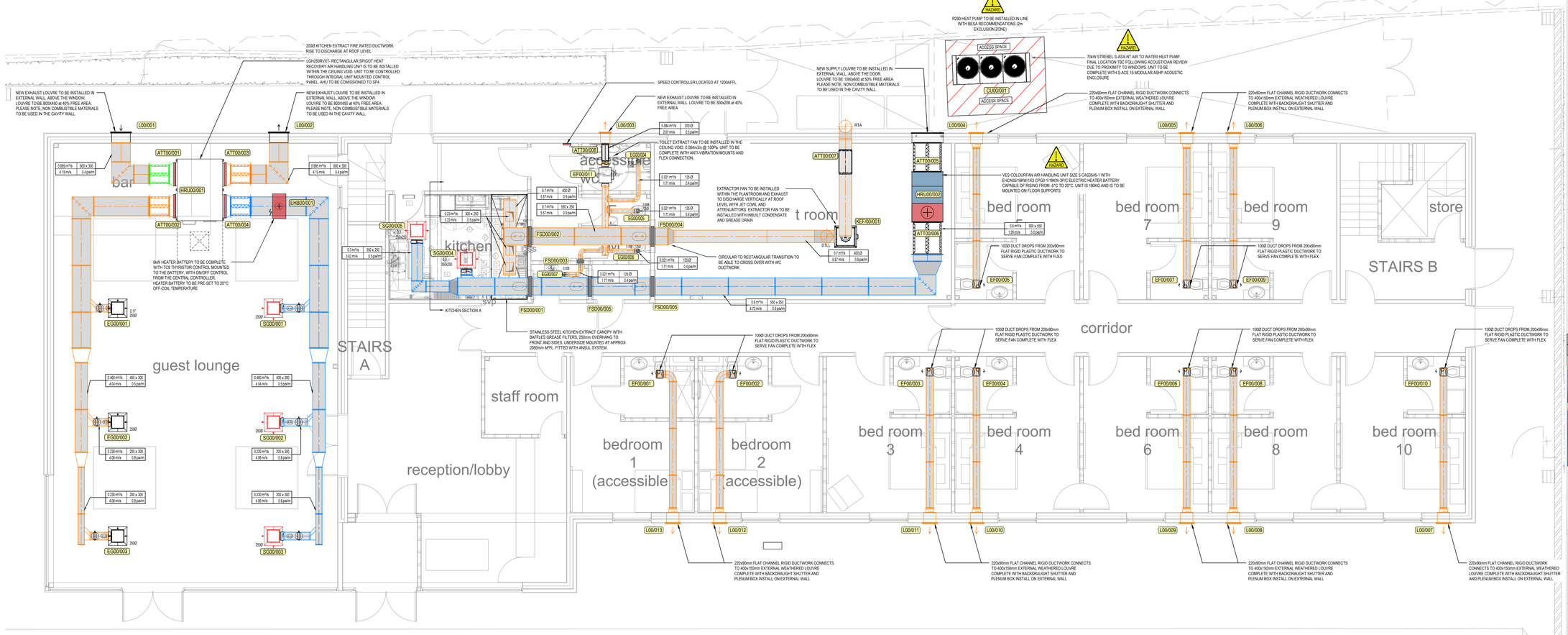
- SINGLE LEAF VOLUME CONTROL DAMPER
- SSDD — MULTI-LEAF VOLUME CONTROL DAMPER
- FD — FIRE DAMPER
- ATTENUATOR
- FLEXIBLE CONNECTION
- LINEAR GRILLE
- EXTRACT BELLMOUTH
- EXTRACT DUCT
- SUPPLY DUCT
- XX/00/00 — REFERENCE

ACRONYMS

RFB	RISE FROM BELOW
RTHL	RISE TO HIGH LEVEL
RTA	RISE TO ABOVE
DTB	DROP TO BELOW
DTLL	DROP TO LOW LEVEL
DFA	DROP FROM ABOVE

GREY SERVICES DENOTES EXISTING





1 GROUND FLOOR VENTILATION SERVICES LAYOUT
1:50

REV	DESCRIPTION	DES	CHD	DATE
P02	KITCHEN DESIGN IMPLEMENTED	J.L.W.	J.J.	25.04.25
P01	INITIAL ISSUE FOR COMMENT/APPROVAL	B.C.	J.L.W.	16.01.25

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CLIENT
NEPTUNE PLANNING

PROJECT
NUNEATON HOTEL, 291 WATLING STREET, NUNEATON, CV11 6BQ

SCALE	ORIGINAL PAPER SIZE	DATE
1:50	A0	Jan-25
DRAWN: B.C.	DESIGNED: B.C.	CHECKED: J.L.W.

CONTRACT DRAWING NUMBER
G0012-JPA-ZZ-00-DR-M-57101

TITLE
Ground Floor Ventilation Services Layout

REVISION
P02