

SCALE:

0 1m 2m 3m 4m 5m

BASED UPON DRAWINGS RECEIVED FROM GT ASSOCIATES
FILE REFERENCE Waverley Rd_GA Plans
RECEIVED 01/06/23

LEGEND

- FC INTUMESCENT FIRE COLLAR
- EV EXTRACT VALVE GRILLE, TYPE LINDAB AIRY 125#. FINAL FRONT GRILLE COVER SHAPE & FINISH TYPE TBC PRIOR TO ORDERING. INSTALLED WITH LINDAB PLENUM BOX. AIR VOLUME NOTED ON SCHEDULES
- SV SUPPLY VALVE GRILLE, TYPE LINDAB AIRY 125#. FINAL FRONT GRILLE COVER SHAPE & FINISH TYPE TBC PRIOR TO ORDERING. INSTALLED WITH LINDAB PLENUM BOX. AIR VOLUME NOTED ON SCHEDULES
- 204x60 DOMUS VENTILATION DUCT (UNLESS NOTED OTHERWISE)
- B MVHR/EXTRACT FAN RETRACTIVE MANUAL BOOST SWITCH INSTALLED ABOVE KITCHEN WORKTOP. TO MATCH OTHER KITCHEN SWITCHES. ENGRAVED LABEL
- EE CEILING MOUNTED EXTRACT FAN WITH 204x60 UPVC FLAT DUCT PLENUM

DRAWING NOTES:

- 15# HTG F&R IN CV
- 22# HTG F&R IN CV
- 28# HTG F&R IN CV
- 35# HTG F&R IN CV
- CEILING MOUNTED MVHR UNIT c/w CONDENSATE DRAIN. SEE SCHEDULES. ACCESS PANEL REQUIRED. 125# CONNS
- UPVC DUCT CONNECTS TO HIGH PERFORMANCE SINGLE AIRBRICK c/w SUITABLE ADAPTOR. SLEEVED THROUGH WALL
- INTAKE & EXHAUST DUCT TO BE THERMALLY INSULATED
- 125# DUCT TRANSITION TO UPVC FLAT DUCT
- MVHR & EXTRACT FAN BOOST SWITCH. MOUNTED ABOVE WORKTOP
- RECIRCULATION COOKER HOOD WITH CARBON FILTER. TO BE DETAILED BY OTHERS
- 100# UPVC DUCT FB TO TERMINATE AT LOW PROFILE ROOF COWL. FOR VENT COWL SPEC SEE ARCHITECTS DRAWINGS
- CEILING MOUNTED EXTRACT FAN. 100# DUCT THROUGH ROOF/VOID (RIGID) TO VENT COWL. c/w CONDENSATE TRAP
- CEILING MOUNTED EXTRACT FAN c/w 204x60 PLENUM. DUCT THROUGH CEILING VOID
- 204x60 EXTRACT DUCT c/w 100# PLENUM. 100# DUCT RISE TA

ABBREVIATIONS

HTG	HEATING
LL	LOW LEVEL
HL	HIGH LEVEL
CV	CEILING VOID
TA	TO ABOVE
TB	TO BELOW
FA	FROM ABOVE
FB	FROM BELOW
c/w	COMPLETE WITH
VCD	VOLUME CONTROL DAMPER
FC	FIRE COLLAR (INTUMESCENT)
AP	ACCESS PANEL
EV	EXTRACT VALVE GRILLE (LINDAB AIRY)
SV	SUPPLY VALVE GRILLE (LINDAB AIRY)
CPR	COPPER
AV	ANTI-VIBRATION

DOMESTIC HEATING AF/ARMAFLEX CLASS 'O' THICKNESS FOR PART L COMPLIANCE

COPPER PIPE, MAX OUTSIDE Ø (mm)	MAX PERMISSIBLE HEAT LOSS (W/m)	INSULATION THICKNESS (mm)
15#	7.89	19mm
22#	9.12	25mm
28#	10.07	25mm
35#	11.08	25mm
42#	12.19	25mm
54#	14.12	32mm

- PIPEWORK SUPPORTS AND SEPARATION TO BE SUITABLE TO ALLOW THE ABOVE INDICATED INSULATION THICKNESSES TO BE APPLIED WITHOUT COMPRESSION (TYPICALLY MUSEN RINGS OR SIMILAR)
- BASED ON EMISSIVITY OF 0.9 & THERMAL CONDUCTIVITY OF 0.033 W/mK
- ABOVE SIZES BASED ON COPPER PIPEWORK. IF UTILISING ALTERNATIVE MCLP OR SIMILAR PIPEWORK SYSTEMS CONSULT MANUFACTURER

NOTES

- DO NOT SCALE FROM THIS DRAWING. ALL DIMENSIONS TO BE MEASURED ON SITE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ON SITE WITH OTHER TRADES & SERVICES
- ALL PLANT & EQUIPMENT TO BE PROVIDED WITH UNIMPEDED ACCESS FOR MAINTENANCE, CLEANING & REPLACEMENT
- HEATING PIPEWORK TO BE RUN IN COPPER BSEN 1057 TABLE X & THERMALLY INSULATED USING ARMAFLEX CLASS 'O' (OR APPROVED EQUAL) WHERE INSTALLED IN PLANTROOMS, STORE CUPBOARDS, CEILING/FLOOR VOIDS, SERVICE VOIDS AND IN PARTITIONS. REFER TO SCHEDULE
- DRAIN POINTS TO BE INSTALLED AT ALL LOW POINTS & AAV's AT ALL HIGH POINTS ON THE SYSTEM
- REFER TO DRAWING No. 8747/M21 FOR TYPICAL SCHEMATIC ARRANGEMENTS
- ALL MVHR DUCTWORK UP TO BE UPVC TO DW/154 AS MANUFACTURED BY DOMUS (OR AN APPROVED EQUAL). DOMUS GREENLINE HIGH EFFICIENCY BENDS TO BE USED
- VALVE TYPE SUPPLY & EXTRACT GRILLES TO BE AS MANUFACTURED BY LINDAB. FROM THEIR AIRY RANGE
- ALL DOMESTIC VENTILATION SYSTEMS TO BE INSTALLED AND COMMISSIONED BY A COMPETENT BPEC APPROVED INSTALLER (OR EQUIVALENT CERTIFICATION) FAMILIAR WITH THE PROPOSED SYSTEMS
- INTUMESCENT FIRE COLLARS/WRAPPS TO BE FITTED TO ALL UPVC DUCTS WHERE PASSING THROUGH FIRE RATED WALL/PARTITION
- ALL MVHR DUCTWORK IN UNHEATED SPACES (INCLUDING ALL INTAKE & EXHAUST DUCTWORK) TO BE THERMALLY INSULATED. INSULATION TO BE 25mm THICK WITH A THERMAL CONDUCTIVITY OF 0.04W/mK
- MVHR & EXTRACT FAN INTAKES & EXHAUSTS TO BE HIGH PERFORMANCE SINGLE AIRBRICK TYPE, AS MANUFACTURED BY TITON. FROM THEIR 'O' RANGE (OR APPROVED EQUAL). COLOUR FINISH TBC BY ARCHITECT. SLEEVED THROUGH WALL WITH SUITABLE 204x60/220x90 ADAPTOR
- COOKER HOODS TO BE RECIRCULATION UNITS WITH CARBON FILTERS. TO BE DETAILED BY OTHERS
- LOCATION OF CEILING FANS, FCU's, ACCESS PANELS & GRILLES TO BE AGREED WITH ARCHITECTS AND COORDINATED WITH LIGHTING
- ALL VENTILATION SYSTEMS TO BE FULLY COMMISSIONED PRIOR TO HANDOVER BY A QUALIFIED SPECIALIST CONTRACTOR USING VANE ANEMOMETER & HOOD IN ACCORDANCE WITH BUILDING REGULATIONS PART F 2021:APPENDIX 3
- MVHR UNITS TO RUN AT BOOST CONDITION VIA RETRACTIVE BOOST SWITCH IN KITCHEN (BY ELECTRICAL CONTRACTOR) AND LIGHTING CIRCUIT FROM BATHROOM/WC OR VIA INTEGRAL HUMIDISTAT
- KITCHEN EXTRACT FANS (WHERE INDICATED) TO RUN AT BOOST CONDITION VIA RETRACTIVE BOOST SWITCH IN KITCHEN (BY ELECTRICAL CONTRACTOR) AND DEDICATED LIGHTSWITCH CIRCUIT FOR BATHROOMS/ENQUIRIES/WC's (BY ELECTRICAL CONTRACTOR)
- DOORS WITHIN FLATS TO BE UNDERCUT 10mm FROM FLOOR FINISH.
- ARCHITECT TO CONFIRM FINAL FIRE STRATEGY AND LOCATION/REQUIREMENT OF FIRE COLLARS & DAMPERS
- PRIMARY LTHW HTG CIRCUIT TO UNDERFLOOR MANIFOLDS DESIGNED ON 5°C AT TEMPERATURES
- HEATING SYSTEM DESIGNED AT 35/30°C F&R TO ALIGN WITH PART L 2021. CONTRACTOR TO ENSURE SYSTEM IS PROVIDED WITH A SUITABLE BIOCIDIC TREATMENT IN ACCORDANCE WITH BS 7539
- HEATING SYSTEM TO BE COMMISSIONED IN STRICT ACCORDANCE WITH BS 7539:2019. TO INCLUDE (BUT NOT LIMITED TO) SYSTEM CLEAN, SYSTEM FLUSH, ADD INHIBITOR/BIOCIDIC, & CHECK LEVELS PRIOR TO HANDOVER. TO INCLUDE A FULL BALANCE TO SUIT THE VOLUMES INDICATED ON THE DRAWINGS
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EXPANSION LOOPS, GUIDES & ANCHORS AS REQUIRED IN ORDER TO ACCOMMODATE SYSTEM EXPANSION
- REFER TO DRAWING 8747/M22 FOR VENTILATION SCHDULES

TOWEL RAILS

TOWEL RAILS TO BATHROOMS & ENSUITES TO BE ELECTRIC ONLY AND DETAILED BY OTHERS

TENDER ISSUE

T	12/06/23	TENDER ISSUE	LT	JT	JT
P	13/02/23	FOR CLIENT COMMENT/APPROVAL	LT	JT	JT
REV	DATE	REVISION			
BSEC DESIGN LTD BUILDING SERVICES ENGINEERING CONSULTANTS					
Akeman Business Park Honours Building 72-80 Akeman Street Tring Hertfordshire HP23 6AF					
01442 827404 cad@bsec.co.uk www.bsec.co.uk					
CLIENT: Paul Simon Homes					
ARCH: gtassociates					
PROJECT: 9 WAVERLEY ROAD CROUCH END LONDON, N8 9QS					
TITLE: PROPOSED MECHANICAL SERVICES GROUND FLOOR					
SCALE: 1:50 @ A1		DATE: JANUARY 2023			
DRAWING No.		REV.		T	
8747/M02					