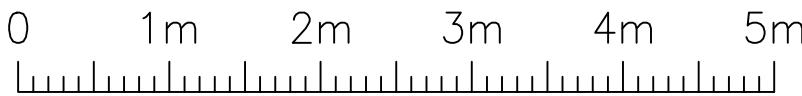


SCALE:



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

LEGEND

- FC INTUMESCENT FIRE COLLAR
- 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
- 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)
- MVHR/EXTRACT FAN RETRACTIVE MANUAL BOOST SWITCH INSTALLED ABOVE KITCHEN WORKTOP. TO MATCH OTHER KITCHEN SWITCHES. ENGRAVED LABEL
- 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 @ 0°C
 - ABOVE SIZES BASED ON COPPER PIPEWORK. IF UTILISING ALTERNATIVE MCLP OR SIMILAR PIPEWORK SYSTEMS CONSULT MANUFACTURER
- 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

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 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 BPCC 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/m/K
- 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, FOU'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)

TOWEL RAILS

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

FIRE RATED LOBBY VENT

FIRE RATED SMOKE EXTRACT DUCT TO BE 120 MINUTE FIRE RESISTANT CONSTRUCTED IN ACCORDANCE ASPF GUIDE TO FIRE RESISTANT DUCTING TO MEET EITHER:

- EUROPEAN STANDARD:** THE SMOKE EXTRACT DUCTWORK TO PROVIDE AN EN13501-3/4 CLASSIFICATION OF 120/120/120 (E/I/LEAKAGE) WHEN TESTED TO THE REQUIREMENTS OF EN 1366 BY A UKAS APPROVED RECOGNISED LABORATORY. THE DUCTWORK SHOULD BE CAPABLE OF PROVIDING DUCT TYPE B (FIRE INSIDE) FIRE CONTAINMENT AND, UNDER NORMAL NON-FIRE OPERATING CONDITIONS, SHOULD CONFORM TO THE CLASS A PRESSURE CLASSIFICATION OF THE CURRENT HVCA DW/144 SPECIFICATION FOR SHEET METAL.
- NATIONAL STANDARD:** TO PROVIDE 120 MINUTES STABILITY, 120 MINUTES INTEGRITY AND 120 MINUTES INSULATION WHEN TESTED TO THE REQUIREMENTS OF BS 476: PART BY A UKAS, OR EQUIVALENT APPROVED LABORATORY. THE DUCTWORK SHOULD BE CAPABLE OF PROVIDING DUCT TYPE B (FIRE INSIDE) FIRE CONTAINMENT AND, UNDER NORMAL NON-FIRE OPERATING CONDITIONS, SHOULD CONFORM TO THE CLASS A PRESSURE CLASSIFICATION OF THE CURRENT HVCA DW/144 SPECIFICATION FOR SHEET METAL.

DETAILED INSTALLATION DRAWINGS TO BE PROVIDED BY SPECIALIST CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION

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			



Akeman Business Park
Honours Building
72-80 Akeman Street
Tring
Hertfordshire
HP23 6AF



ARCH: gtassociates

PROJECT: 9 WAVERLEY ROAD
CROUCH END
LONDON, N8 9QS

TITLE: PROPOSED MECHANICAL SERVICES
LOWER GROUND FLOOR

SCALE: 1:50 @ A1	DATE: JANUARY 2023
DRAWING No. 8747/M01	REV. T