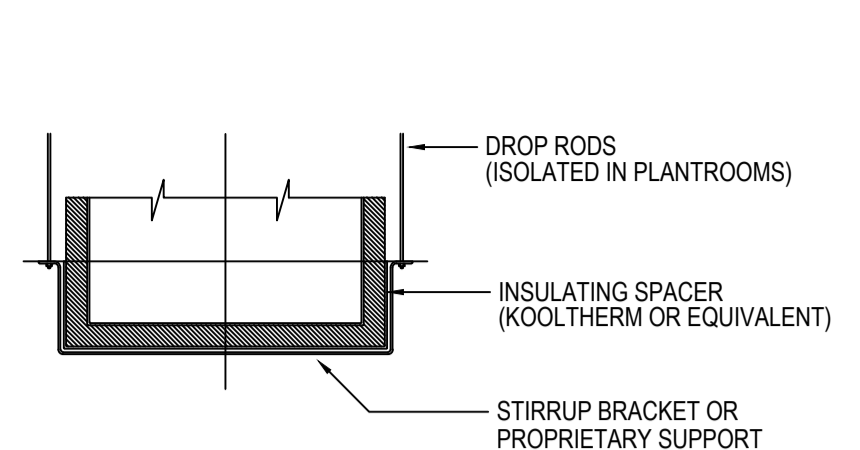
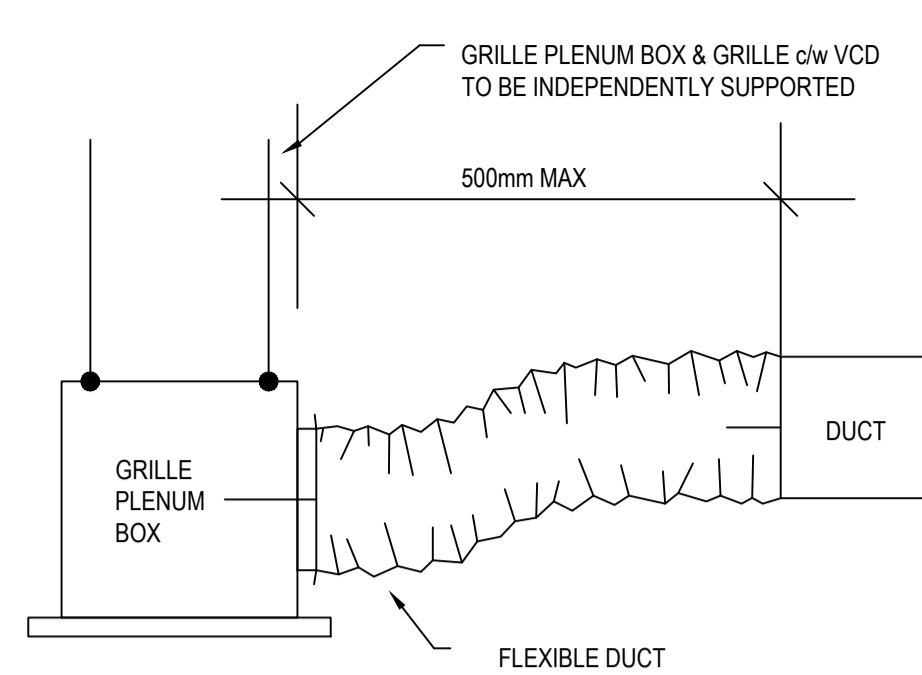


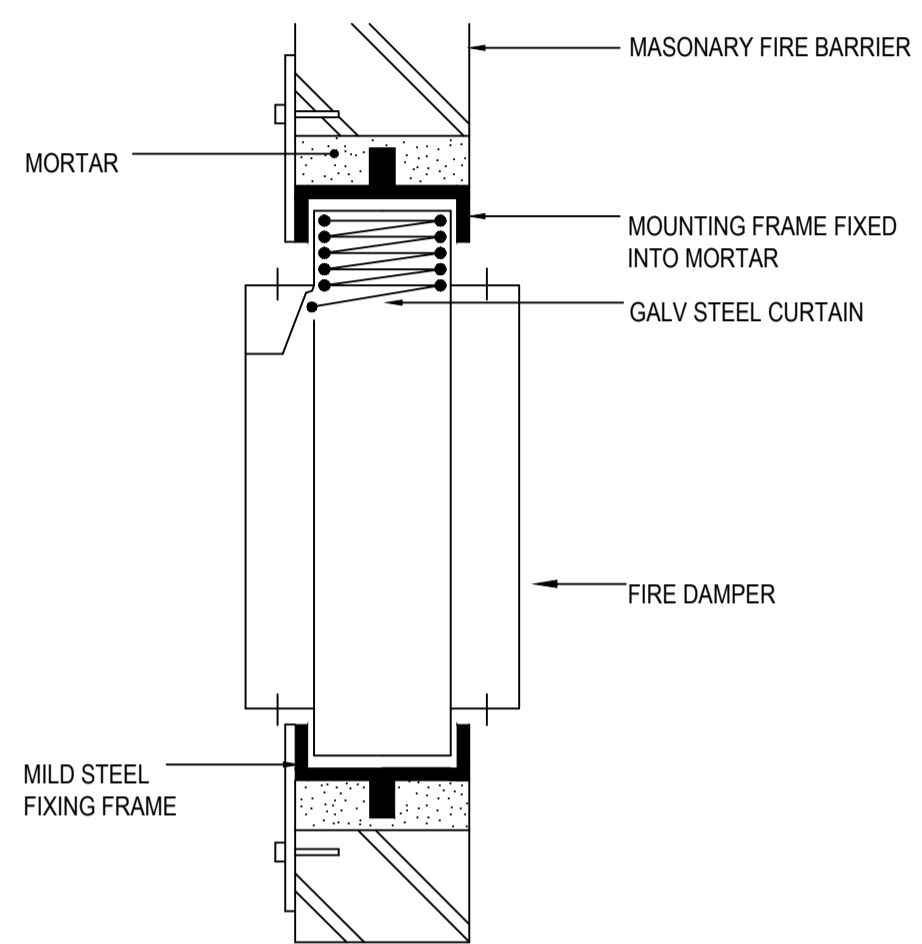
TYPICAL DUCTWORK SUPPORT TO DW144



TYPICAL RECTANGULAR DUCTWORK SUPPORT TO DW144

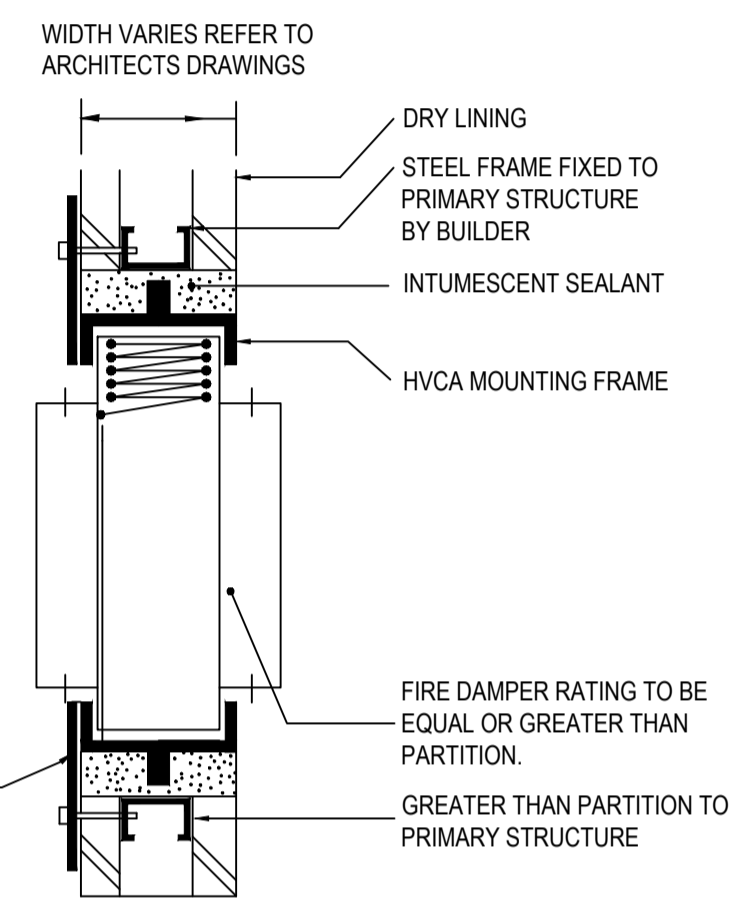


STANDARD DETAIL FOR INSULATED FLEXIBLE DUCTWORK



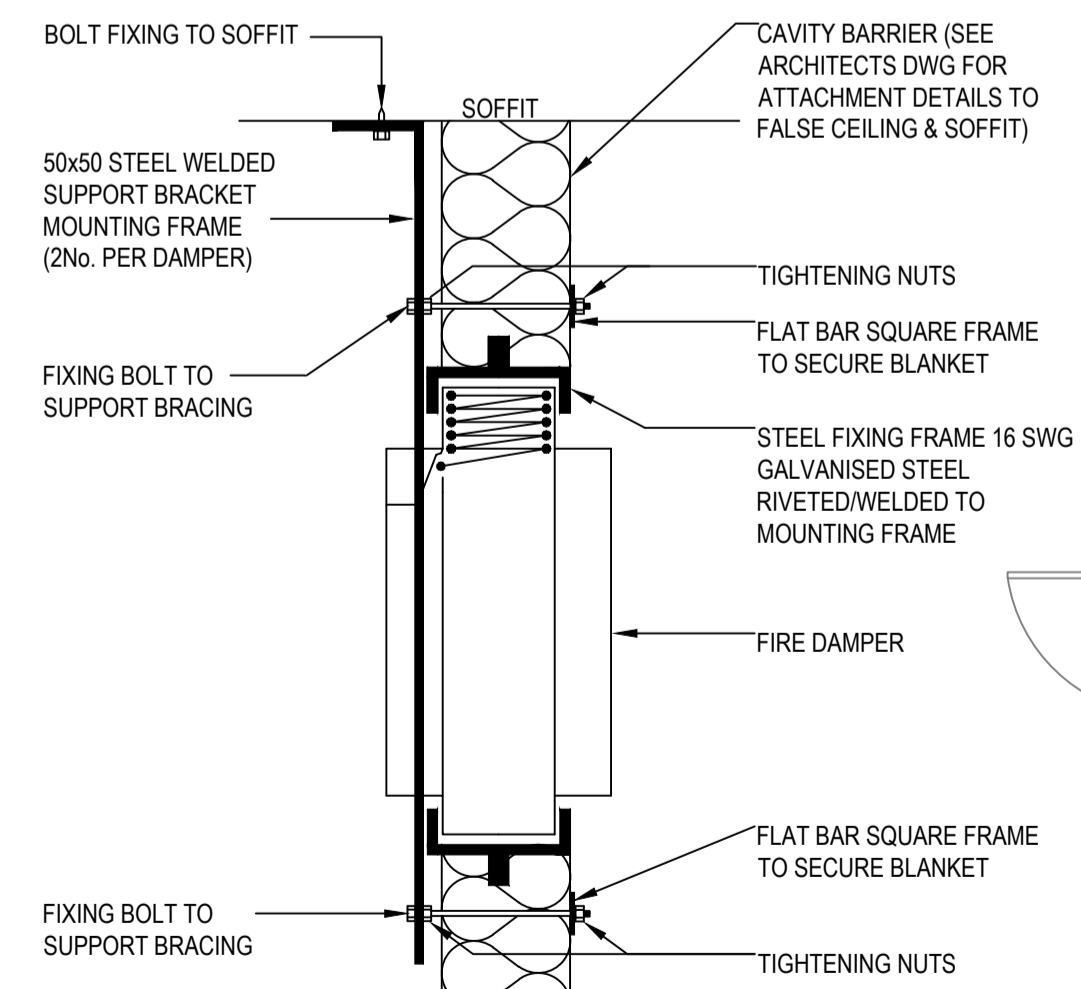
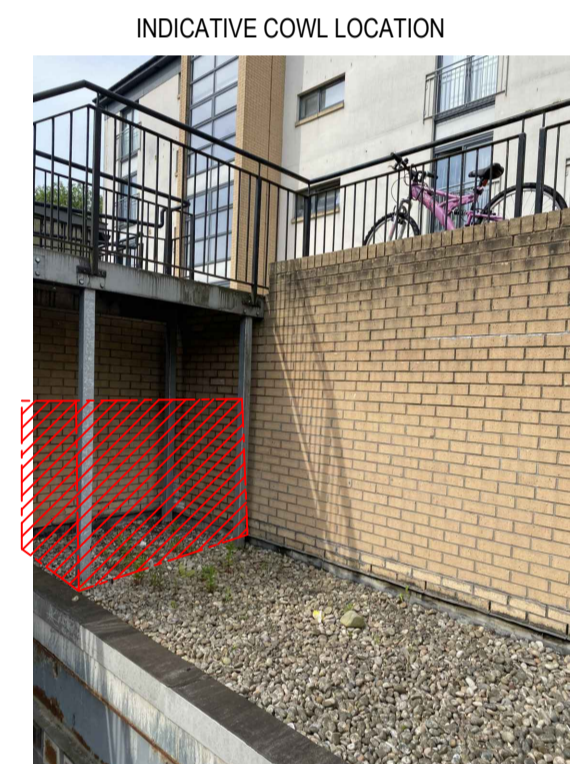
TYPICAL DETAIL OF DUCT THROUGH FIRE RATED MASONRY STRUCTURE TO CONFORM TO BS476 & DW144 (4 HOUR AS STANDARD)

FIRE DAMPER DETAILS ARE INDICATIVE. PLEASE REFER TO MANUFACTURER DOCUMENTATION FOR SPECIFIC TO APPLICATION, TESTED INSTALLATION DETAILS.



ALTERNATIVE TYPICAL DETAIL OF FIRE DAMPER FRAME THROUGH FIRE RATED DRY-LINED PARTITION

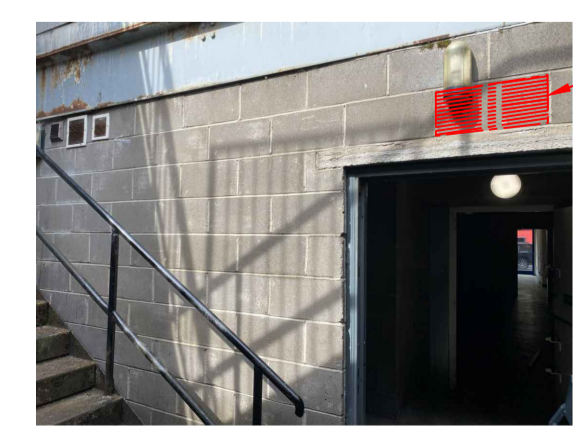
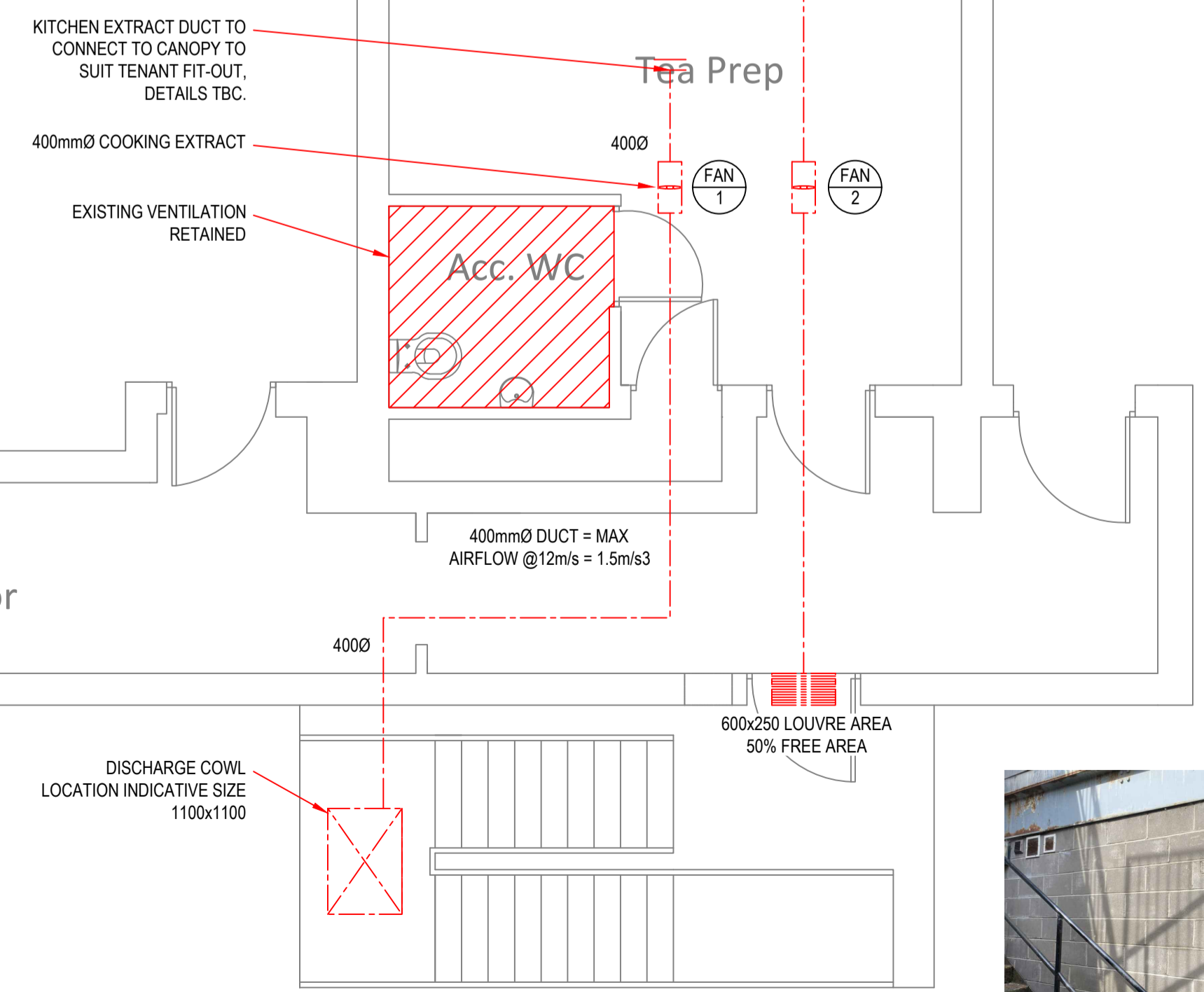
FIRE DAMPER DETAILS ARE INDICATIVE. PLEASE REFER TO MANUFACTURER DOCUMENTATION FOR SPECIFIC TO APPLICATION, TESTED INSTALLATION DETAILS.



TYPICAL DETAIL OF FIRE DAMPER THROUGH FIRE RATED CAVITY BARRIER

FIRE DAMPER DETAILS ARE INDICATIVE. PLEASE REFER TO MANUFACTURER DOCUMENTATION FOR SPECIFIC TO APPLICATION, TESTED INSTALLATION DETAILS.

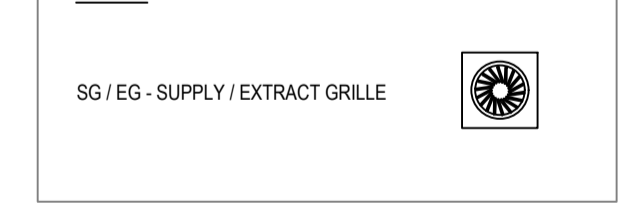
KITCHEN EXTRACT DUCT TO CONNECT TO CANOPY TO SUIT TENANT FIT-OUT, DETAILS TBC.
400mmØ COOKING EXTRACT
EXISTING VENTILATION RETAINED



VENTILATION NOTES

- THIS DRAWING IS NOT TO BE SCALED.
- ALL MEASUREMENTS ARE TO BE VERIFIED ON SITE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CONTRACT CONDITIONS, ALL OTHER RELEVANT ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS INCLUDING ASSOCIATED SCHEDULES AND SPECIFICATIONS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL THE RELEVANT MAKE SERVICES DRAWINGS AND ACCOMPANYING SCHEDULES.
- THIS DRAWING SHALL ONLY BE USED FOR THE SPECIFIC SERVICES INTENDED.
- THIS IS NOT AN INSTALLATION DRAWING.
- REFER TO THE ARCHITECTS DRAWINGS FOR DETAILS OF ALL THE BUILDING COMPARTMENTATION. ALL SERVICES SHALL BE FIRE SEALED USING APPROVED PENETRATION DETAIL, FULLY IN ACCORDANCE WITH THE COMPARTMENT RATING. WHERE FITTED, ALL FUSIBLE LINK FIRE DAMPERS WILL MAINTAIN FIRE INTEGRITY OF THE WALL/FLOOR/CEILING IN WHICH THEY ARE INSTALLED. FIRE DAMPERS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDANCE. HVCA (BESA) DW145 AND ALL RELEVANT REGULATIONS.
- FLEXIBLE DUCTWORK TO BE USED FOR CONNECTIONS TO GRILLE & DIFFUSER PLENUM BOXES UP TO 500MM IN LENGTH (MAX). NEW TEAR RESISTANT ALUMINIUM FLEXIBLE DUCTWORK SHALL BE SECURELY FASTENED IN ACCORDANCE WITH DW141 TO ENSURE THE SEAL IS IN ACCORDANCE WITH THE SYSTEM AIR TIGHTNESS. FLEXIBLE JOINTS MUST BE IN ACCORDANCE WITH THE BUILDING REGULATIONS IN RELATION TO THE SPREAD OF FIRE AND SMOKE. FLEXIBLE DUCTWORK SHALL BE MULTI-LAYER ALUMINIUM FLEXIBLE DUCTWORK.
- DUCTWORK SHALL BE SUITABLE FOR CLASS A USE. HOT DIP GALVANISED STEEL TO BS EN 10142, GRADE DX51D-Z, COATING TYPE Z275 WITH ALL FITTINGS AND SUPPORTS TO DW144, CLASS B (MEDIUM).
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SECONDARY STEELWORK/WOOD REQUIRED TO SUPPORT EQUIPMENT AND COORDINATE NEW PLANT, NEW PLANT SUPPORTS AND NEW EQUIPMENT WITH THE EXISTING STRUCTURE AND FABRIC.
- ALL TESTING & COMMISSIONING AND EXISTING SYSTEM CHECKS AS OUTLINED IN THE SPECIFICATION SHALL BE INCLUDED IN THE CONTRACT IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE. ALL TEST CERTIFICATES & COMMISSIONING REPORTS TO BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.
- CONTRACTOR TO CO-ORDINATE WITH THE STAFF AT ALL TIMES FOR ACCESS, PARKING, PROGRAMME OF WORKS, THE MOVING OF FURNITURE, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE MECHANICAL INSTALLATION IS FULLY CO-ORDINATED WITH ALL OTHER SUB-CONTRACTORS AND TRADES.
- FULL AND PROPER CARE SHALL BE EXERCISED IN THE POSITIONING AND MARKING OUT OF ALL BRACKETS AND SUPPORTS. BRACKETS AND SUPPORTS SHALL BE SET OUT SO THAT THEY DO NOT OBSTRUCT THE ACCESS TO VALVES, FLANGES OR FITTINGS REQUIRING MAINTENANCE.
- ALL SERVICES SHALL BE OFFSET AS REQUIRED DUE TO VARYING THICKNESS OF WALLS, FLOORS, CEILINGS AND OTHER STRUCTURAL WORKS OR SERVICES, WHETHER SUCH CHANGES IN DIRECTION ARE INDICATED ON THE DRAWINGS OR NOT.
- PIPES SHALL BE SPACED IN RELATION TO ONE ANOTHER AND TO THE BUILDING STRUCTURE SO AS NOT TO INTERFERE WITH ANY OTHER SERVICES AND TO ALLOW FOR THE REQUIRED METHOD AND THICKNESS OF THE THERMAL INSULATION AS SPECIFIED. CLEARANCE BETWEEN PIPEWORK (BOTH INSULATED AND UN-INSULATED) AND FINISHED WALLS, FLOORS, CEILINGS AND OTHER FIXTURES SHALL BE ADEQUATE FOR CLEANING PURPOSES, FUTURE DISMANTLING, ETC.
- PROVISION OF EASY AND SAFE ACCESS TO PLANT AND SERVICES, WITHIN THE BUILDING AND PLANTROOMS IS A CRITICAL REQUIREMENT OF THE WORKS. IT IS ESSENTIAL THAT THE NEW PIPEWORK AND EQUIPMENT IS EASILY ACCESSIBLE AND THAT THE NEW INSTALLATIONS DO NOT FURTHER COMPROMISE EXISTING ACCESS. THIS MAY FOR EXAMPLE NECESSITATE MODIFICATION OF EXISTING SERVICES TO SUIT THE NECESSARY POSITIONING OF NEW EQUIPMENT. THIS SHALL BE IDENTIFIED AND INCLUDED IN THE WORKS COST. EXISTING ACCESS SHALL BE IMPROVED WHERE OPPORTUNITY PRESENTS AS A CONSEQUENCE OF THE NEW PIPEWORK AND EQUIPMENT PROVISIONS.
- ALL NEW PLANT, CONTROL VALVES AND ANCILLARIES SHALL BE CAPABLE OF BEING REMOVED FOR MAINTENANCE AND FUTURE REPLACEMENT BY MEANS OF DISCONNECTING UNIONS OR FLANGES.
- THIS DRAWING SHALL NOT BE USED FOR INSTALLATION. THE MECHANICAL SERVICES CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTION OF CO-ORDINATED INSTALLATION DRAWINGS CHECKED WITH ACTUAL SITE DIMENSIONS & APPROVED BY THE CA PRIOR TO COMMENCEMENT OF WORKS.
- ANY DISCREPANCY ON THIS DRAWING MUST BE REFERRED TO THE CA & CLARIFICATION OBTAINED PRIOR TO COMMENCEMENT OF WORK.
- WHERE FITTED, ALL FIRE DAMPERS WILL BE MAINTAINED FULLY IN ACCORDANCE WITH THE COMPARTMENT RATING. ALL FIRE DAMPERS TO HAVE GALVANISED STEEL CURTAIN RETAINED BY A FUSIBLE LINK, OUT OF THE AIRSTREAM, TO BS476.
- ALL TRANSFER GRILLES ON FIRE RATED DOORS/WALLS TO BE INTUMESCENT TYPE TO MAINTAIN THE INTEGRITY OF THE DOOR/WALL FULLY IN ACCORDANCE WITH THE COMPARTMENT RATING.
- THE ARCHITECT IS TO CONFIRM LOCATION OF FIRE COMPARTMENTS AND LOCATION OF FIRE DAMPERS TO TAKE COGNISANCE OF THIS.
- DUCTWORK INSTALLATION TO COMPLY FULLY WITH DW144, AND HVCA TR19 WITH REGARD TO SYSTEM CLEANLINESS.
- DUCTWORK SHALL BE SUITABLE FOR CLASS A USE. HOT DIP GALVANISED STEEL TO BS EN 10142, GRADE DX51D-Z, COATING TYPE Z275 WITH ALL FITTINGS AND SUPPORTS TO DW144.
- ALL SUPPLY AND EXTRACT DUCTWORK TO BE INSULATED DIRTY EXTRACT SHALL REMAIN UN-INSULATED
- VENTILATION DUCTWORK TO BE SUPPORTED VIA DROP RODS FIXED SECURELY AND SOLELY FROM THE BUILDING STRUCTURE.
- VCD'S TO BE MULTIBLADE TYPE.
- ALL EXISTING FIRE BARRIERS POSITIONS ARE PRESUMPTIVE. REQUIREMENT FOR NEW CAVITY FIRE BARRIERS INSTALLATION AND LOCATION TO BE CONFIRMED. FIRE DAMPERS TO BE INSTALLED ON ALL DUCTWORK PENETRATION THROUGH BARRIERS. ALL SERVICES PENETRATIONS TO BE FIRE SEALED.

LEGEND



ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH AND CONFORM TO THE REQUIREMENTS OF THE CURRENT BUILDING REGULATIONS (SCOTLAND), THE HEALTH AND SAFETY AT WORK ACT 1974 AND THE CURRENT LOCAL WATER BYELAWS. ELECTRICAL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT I.E.E. REGULATIONS. ALL APPARATUS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. THESE SHALL SUPERCEDE SYSTEM SCHEMATICS AND DETAILS WHERE APPLICABLE.

THE CONTRACTOR WILL DURING THE TENDER PERIOD, VISIT THE SITE TO FULLY FAMILIARISE HIMSELF WITH THE FULL EXTENT OF THE WORKS INVOLVED, THE NATURE OF THE SITE, ACCESS THERETO AND ALL LOCAL CONDITIONS AND RESTRICTIONS LIKELY TO AFFECT THE EXECUTION OF THE CONTRACT WORKS INCLUDING WORKING HOURS.

ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PROTECT OCCUPANTS, STAFF, FURNITURE, FLOORING AND BUILDING FABRIC FROM DAMAGE. ALL BUILDERSWORK SHALL BE INCLUDED I.E. CUTTING HOLES IN WALLS/FLOORS/CEILING/GLAZING, MAKING GOOD, PROPER WEATHERING OF EXTERNAL OPENINGS, BOXING IN PIPEWORK AND DUCTWORK, ETC. ENSURE ALL HEALTH & SAFETY PLANS, RISK ASSESSMENTS, METHOD STATEMENTS & PERMITS ARE IN PLACE BEFORE WORK COMMENCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL DUST, DIRT, RUBBISH AND DEBRIS ON A DAILY BASIS. EACH AREA SHALL BE THOROUGHLY CLEANED AT COMPLETION OF THE WORKS ALL TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SECONDARY STEELWORK/WOOD REQUIRED TO SUPPORT EQUIPMENT AND COORDINATE NEW PLANT, NEW PLANT SUPPORTS AND NEW EQUIPMENT WITH THE EXISTING STRUCTURE AND FABRIC.

ALL TESTING & COMMISSIONING AND EXISTING SYSTEM CHECKS AS OUTLINED IN THE SPECIFICATION SHALL BE INCLUDED IN THE CONTRACT IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE. ALL TEST CERTIFICATES & COMMISSIONING REPORTS TO BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.

CONTRACTOR TO CO-ORDINATE WITH THE STAFF AT ALL TIMES FOR ACCESS, PARKING, PROGRAMME OF WORKS, THE MOVING OF FURNITURE, ETC.

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ALL NEW PLANT, CONTROL VALVES AND ANCILLARIES SHALL BE CAPABLE OF BEING REMOVED FOR MAINTENANCE AND FUTURE REPLACEMENT BY MEANS OF DISCONNECTING UNIONS OR FLANGES.

Rev	Date	By	Chkd	Appd
P02	16.07.21	WLJ	MAG	MAG
REVISED PRELIMINARY ISSUE				
P01	06.07.21	WLJ	MAG	MAG
PRELIMINARY ISSUE				

Client
PMP

Project Title
315 KILMARNOCK ROAD
GLASGOW

Drawing Title
GROUND FLOOR
PROPOSED VENTILATION LAYOUT

Date of 1st Issue	Designed	Drawn
06.07.21	WLJ	JDA
Scale	Checked	Approved
1:50 @ A1	MAG	MAG
Suitability	Revision	
PRELIMINARY		P02
Drawing Number	GLA2021-026-L(57)-001	



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