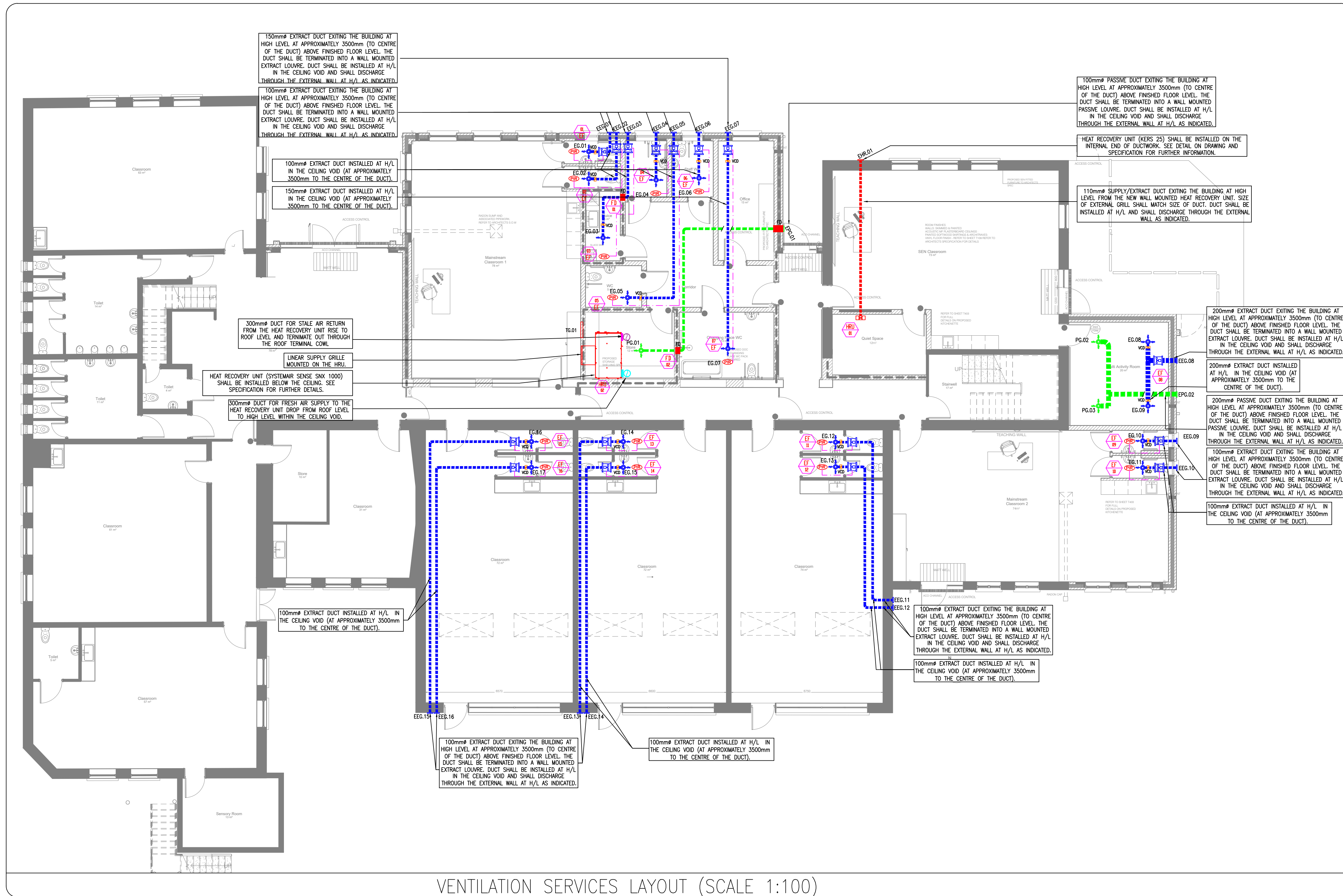
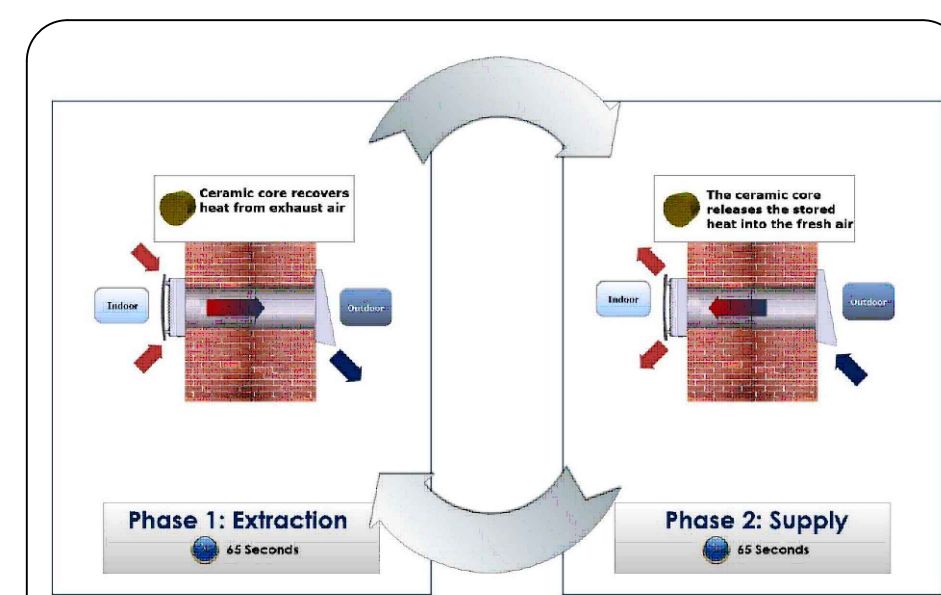
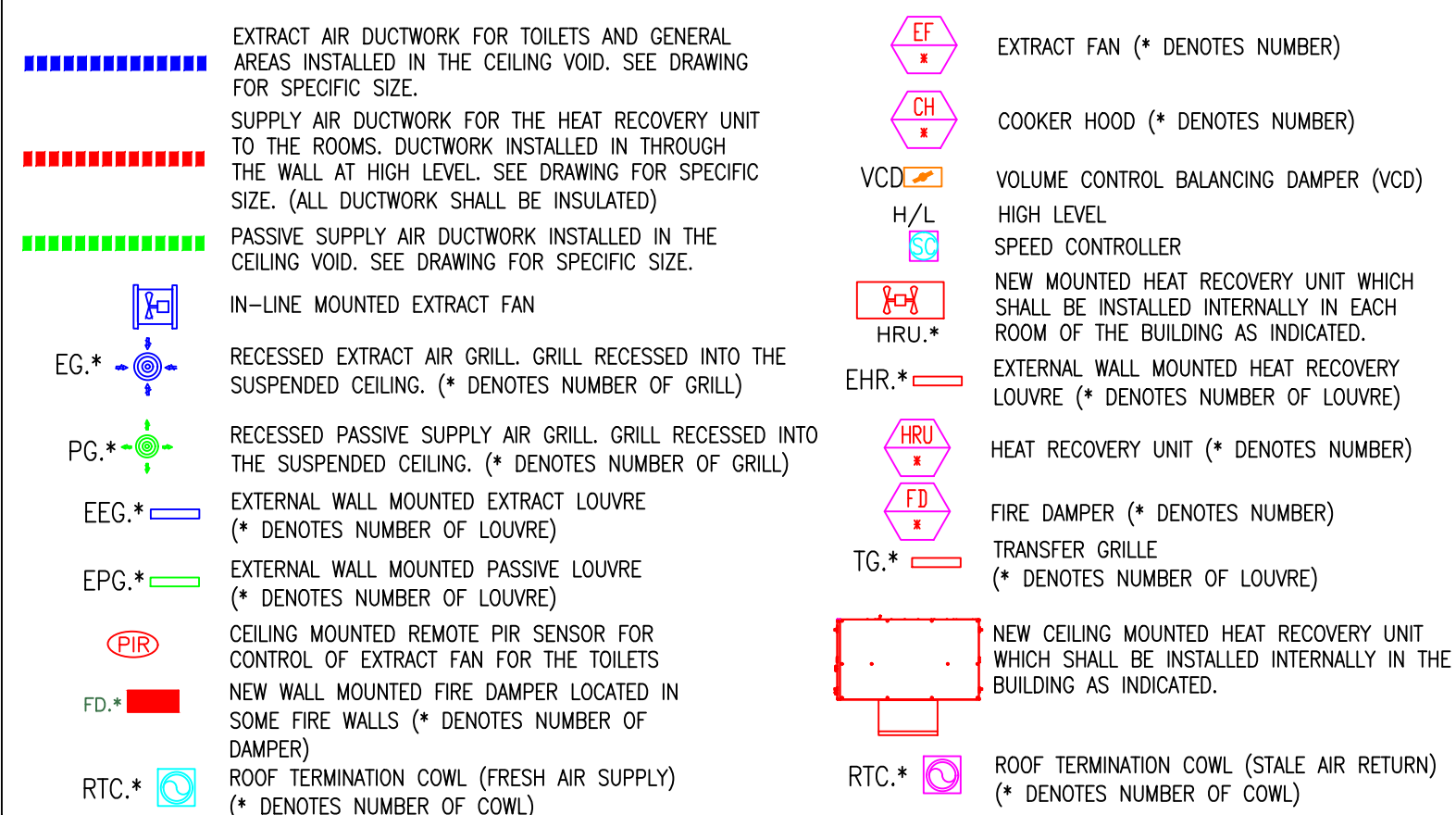


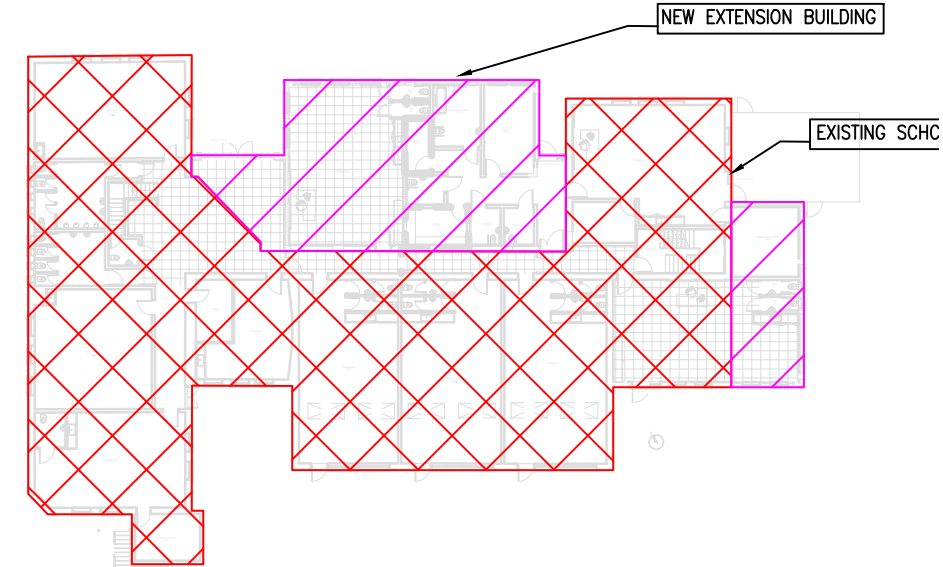


VENTILATION SERVICES LAYOUT (SCALE 1:100)

VENTILATION LEGENDS AND SYMBOLS



DETAIL INDICATING THE WORKING OF THE HEAT RECOVERY UNIT IN THE ROOMS AS INDICATED.



KEYPLAN 1:500

CONTRACTOR TO ALLOW FOR INSULATION ON ALL DUCTWORK WITH AN OUTWARD FALL IN ORDER TO AVOID CONDENSATION.

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.
- THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE NECESSARY INFORMATION TO ALLOW THE MAIN CONTRACTOR CO-ORDINATE ALL SERVICES.
- THE MECHANICAL CONTRACTOR SHALL ALLOW FOR CO-ORDINATING THE MECHANICAL INSTALLATION WITH THE ELECTRICAL CONTRACTOR ON SITE. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE.
- THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL MECHANICAL SERVICES INDICATED ON THIS DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR PIPEWORK, MECHANICAL SERVICES, ETC. AS INDICATED ON THE DRAWINGS.
- NEW MAINS RUN OF MECHANICAL PIPEWORK SHALL BE INSTALLED IN THE AREAS AS INDICATED. THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR THE MECHANICAL SERVICES ON SITE THEN THAT WILL BE ACCEPTABLE.
- FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
- ALL SERVICES THROUGH FIRE BARRIERS SHALL BE SLEEVED EACH SIDE OF THE BARRIER. THE MAIN CONTRACTOR SHALL ALLOW FOR FIRE PROOFING THE OPES AFTER SERVICES IS INSTALLED.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE MECHANICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- ASD UNIT: ALL MECHANICAL SERVICES BELOW CEILING LEVEL FOR THE MECHANICAL INSTALLATION IN THE ASD UNIT SHALL BE RECESSED/CONCEALED AND FINISHED FLUSH WITH THE FINISHED WALL, UNLESS STATED OTHERWISE. LIAISE WITH THE MAIN CONTRACTOR FOR ALL NECESSARY CHARGES OR BOXING OUT TO CONCEAL SERVICES IN THE UNIT.
- GENERAL AREAS (EXCLUDING ASD UNIT): THE MECHANICAL INSTALLATION IN THESE AREAS SHALL BE GENERALLY SURFACE MOUNTED.

VENTILATION SERVICES NOTES:

- THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL FANS, DUCTWORK, SUPPORTS, INSULATION, ETC. THROUGHOUT THE BUILDING FOR THE SUCCESSFUL INSTALLATION OF THE VENTILATION SYSTEM INSTALLATION AS INDICATED ON THE DRAWINGS.
- FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK ROUTES, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
- REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED SERVICES THROUGHOUT THE BUILDING.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE VENTILATION WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- FINAL LOCATIONS OF ALL GRILLES TO BE CO-ORDINATED ON SITE WITH LIGHTING LAYOUTS.
- ALL GRILLES SHALL HAVE LOCAL VOLUME CONTROL BALANCING DAMPERS. ALL VCD'S SHALL BE BLADE TYPE AND SHALL HAVE A LOCKING QUADRANT C/W WING NUT LOCKING DEVICE.
- ALL DUCTWORK INDICATED ON THE DRAWINGS (TOILET EXTRACT & PASSIVE AIR SUPPLY) SHALL BE INSTALLED IN GALVANIZED SHEET METAL.
- ALL BENDS & CHANGES IN DIRECTION TO BE AS PER DW 144.
- ALL DUCTING AND ASSOCIATED VENTILATION WORKS SHALL BE CARRIED OUT BY THE MECHANICAL CONTRACTOR.
- SEE SPECIFICATIONS FOR THE CONTROLLING THE EXTRACT FAN. THE EXTRACT FAN SHALL BE CONTROLLED VIA PIR SENSOR IN THE LOBBY OF THE TOILETS.
- ALL DUCTWORK LOCATED AT HIGH LEVEL WITHIN CEILING VOID / ATTIC SPACE.
- FIRE DAMPERS SHALL BE INSTALLED WHEREVER A DUCT PASSES THROUGH A FIRE WALL AND SHALL BE MOUNTED WITHIN THE BUILDING FABRIC AND SECURELY ATTACHED TO IT. FIRE DAMPERS SHALL BE OF MULTI-LEAF SHUTTER PATTERN WITH A RESEALABLE LINK MECHANISM AND VISUAL POSITION INDICATOR. THEY SHALL BE A MINIMUM OF 60MINS FIRE RATING.
- SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS TO FIRE DAMPERS.
- THE VENTILATION SYSTEM SHALL BE COMMISSIONED AND BALANCED AS SPECIFIED IN THE TENDER DOCUMENTS.
- THE CONTRACTOR SHALL ALLOW FOR THE COMMISSIONING AND BALANCING OF THE VENTILATION SYSTEMS IN THE BUILDING ONCE ALL ITEMS HAVE BEEN COMPLETED AND INSTALLED.

T4	17.07.2026	E.OLAYA	G.BENNDORF
T3	06.01.2025	J. MARTIN	G. BENNDORF
T2	27.11.2024	J. MARTIN	G. BENNDORF
T1	14.08.2024	K. DAVITT	G. BENNDORF
REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY:

M&E CONSULTANT

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Drawing Status

TENDER

Job Title

KILDANGAN NATIONAL SCHOOL,
KILDANGAN,
MONASTEREVIN,
CO. KILDARE.

Drawing Title

VENTILATION
SERVICES LAYOUT

Architect M'LOUGHLIN ARCHITECTURE

Unit A6, Elm House
Millennium Park, Naas
Co.Kildare, Ireland

Tel. 045 854 900

Scale:

1:100 @ A1

Drawn By:

E.O

Job No.

22-055

Drawing No.

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Rev.

T4