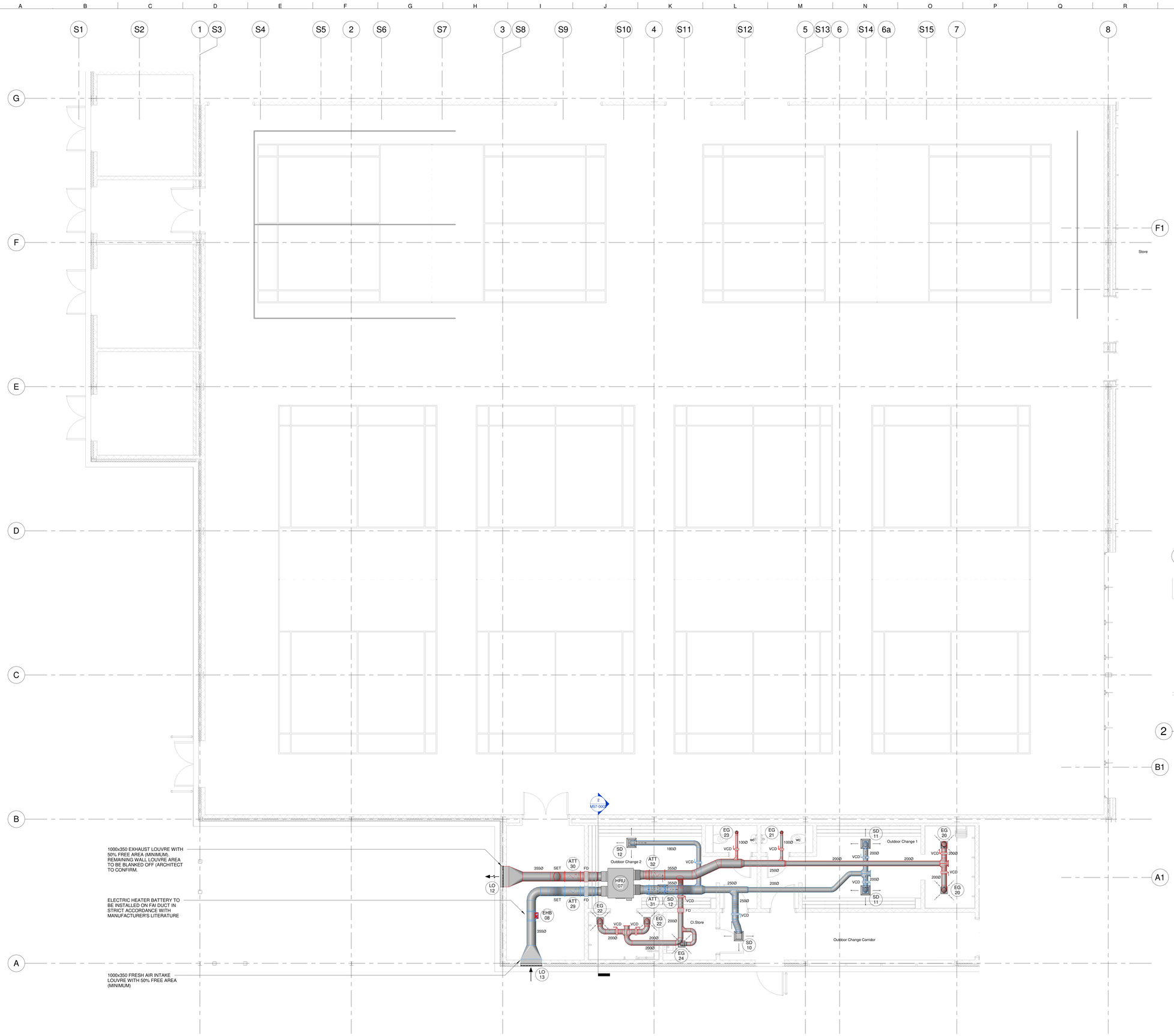


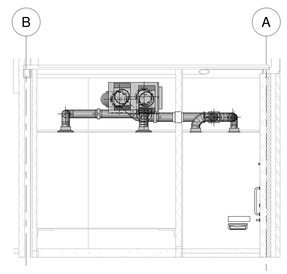
1 GROUND FLOOR SPORTS HALL & OUTDOOR CHANGE VENTILATION LAYOUT
1 : 50

GENERAL NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ASSOCIATED SERVICES DRAWINGS, ARCHITECTS AND STRUCTURAL DRAWINGS TOGETHER WITH THE SCHEMATIC DRAWINGS AND ALL MECHANICAL AND ELECTRICAL SPECIFICATIONS.
2. ALL SERVICES INSTALLATIONS SHALL BE CO-ORDINATED AND FULLY INTEGRATED WITH THE MECHANICAL AND ELECTRICAL SERVICES, ARCHITECTURAL FEATURES, REFRIGERATION PLANT, STRUCTURAL ELEMENTS etc.
3. THE SERVICES CONTRACTORS SHALL FAMILIARISE THEMSELVES WITH THE MECHANICAL AND ELECTRICAL SERVICES, ARCHITECTURAL FEATURES, REFRIGERATION PLANT, STRUCTURAL ELEMENTS etc.
4. THE INSTALLING SUB-CONTRACTOR SHALL ISSUE FULL "WORKING DRAWINGS" IN LINE WITH THE SPECIFICATION PROVIDED. THE "WORKING DRAWINGS" SHALL BE ISSUED TO ALL DESIGN TEAM MEMBERS FOR THEIR COMMENT PRIOR TO INSTALLATION. THE INSTALLATION AND CO-ORDINATION OF SERVICES WITH OTHER SERVICES, THIRD PARTY SUPPLIERS AND THE BUILDING FABRIC IS THE RESPONSIBILITY OF THE INSTALLING SUB-CONTRACTOR.
5. THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR DEVELOPING THIS STAGE 4 TECHNICAL DESIGN THROUGH RIBA STAGES 4B-5 TO A FULLY CO-ORDINATED INSTALLATION DESIGN. ANY SIZES / SERVICE ROUTES SHOWN ARE INDICATIVE IN NATURE AND PROVIDED TO ASSIST THE D&B CONTRACTOR WITH THEIR DETAILED DESIGN PROPOSALS.

VENTILATION NOTES

1. ALL DUCTWORK SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND IS TO BE INSTALLED BY A SPECIALIST DUCTWORK SUB-CONTRACTOR. THE ENTIRE DUCTWORK INSTALLATION SHALL BE IN COMPLIANCE WITH DW144, BS2989, BS4929 AND DW/TM2 GUIDE TO GOOD PRACTICE INTERNAL CLEANLINESS NEW DUCTWORK INSTALLATIONS 1991. VOLUME CONTROL DAMPERS SHALL BE INSTALLED IN THE POSITIONS INDICATED ON THE DRAWINGS.
2. THE DUCTWORK AND EQUIPMENT SUPPORT SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE SPECIFICATION FOR SHEET METAL DUCTWORK DW144. MATERIALS, CONSTRUCTION, METHOD OF FIXING TO THE BUILDING FABRIC, PRACTICABILITY AND APPEARANCE SHALL BE CAREFULLY CONSIDERED FOR EACH OCCURRING SITUATION. THE MECHANICAL SERVICES CONTRACTOR SHALL TAKE ACCOUNT OF THE VARIED NATURE OF THE BUILDING STRUCTURE AND THE NEED FOR ALTERNATIVE FIXING METHODS IN DIFFERENT AREAS OF THE BUILDING.
3. GRILLES AND DIFFUSERS SHALL BE INSTALLED IN THE POSITIONS INDICATED ON THE DRAWINGS. THE FRAME AND FIXING DETAILS SHALL BE SELECTED TO BE COMPATIBLE WITH THE CEILING TYPE.
4. DUCT MOUNTED ATTENUATORS SHALL BE SUPPLIED AND FIXED IN THE POSITIONS INDICATED ON THE DRAWINGS. ATTENUTORS SHALL BE PURPOSE BUILT UNITS CONSTRUCTED BY A SPECIALIST MANUFACTURER AND SHALL BE SUITABLY MATCHED TO THE EQUIPMENT TO BE INSTALLED. CASING THICKNESS AND FLANGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH HVCA SPECIFICATION DW144 BUT CASING THICKNESS SHALL NOT EXCEED 0.8mm.
5. ALL DUCTWORK SYSTEMS SHALL BE FULLY ACCESSIBLE FOR CLEANING. REMOVABLE ACCESS DOORS SHALL BE PROVIDED, AS REQUIRED, TO ENABLE FULL ACCESS TO EACH ITEM OF DUCTWORK MOUNTED EQUIPMENT. ACCESS DOORS SHALL BE IN ACCORDANCE WITH DW144.
6. TESTING AND COMMISSIONING - THE MECHANICAL SERVICES CONTRACTOR SHALL DEMONSTRATE THE AIR FLOW OF THE VENTILATION SYSTEMS IN COMPLIANCE WITH THE EQUIPMENT SCHEDULES TO THE SATISFACTION OF THE ENGINEER.
7. THE MECHANICAL SERVICES CONTRACTOR SHALL SUPPLY AND FASTEN PVC/POLYESTER LAMINATE FLEXIBLE DUCT WITH A MAXIMUM LENGTH OF 1000mm TO ALL GRILLES AND DIFFUSERS, AS INDICATED ON THE DRAWINGS. BENDS FORMED SHALL BE LONG RADIUS WITH FULL SECTIONAL AREA FORM MAINTAINED THROUGHOUT.
8. THERMAL INSULATION SHALL BE CARRIED OUT BY A SPECIALIST SUB-CONTRACTOR. INSULATION TO BE FOIL FACED MINERAL FIBRE WITH NOMINAL DENSITY 45-48 kg/m³ THERMAL CONDUCTIVITY NOT EXCEEDING 0.04 W/mK.



2 SECTION ON CEILING VOID AHU 01
1 : 50

LAYOUT BASED ON DRAWING No:
ARCHITECTS: 12944-DB3-B02-ZZ-M3-A-00001 Castle Farm Leisure Centre_WIP ISSUE 8
STRUCTURAL: 7380-CCE-ZZ-ZZ-M3-S-0002

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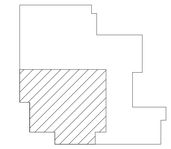
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

Refer to the DDA Ltd project specific risk assessment and design criteria for the M&E services installation. The installing contractor must prepare method statements for the installation works and agree all works in advance with the main contractor.

It is assumed that all works associated with this drawing will be carried out by competent operatives working, where appropriate, to an approved method.

NOTES



KEYPLAN

VENTILATION LEGEND

- SUPPLY DUCT
- EXTRACT DUCT
- ATTENUATOR
- VOLUME CONTROL DAMPER
- ELECTRIC HEATER BATTERY
- SUPPLY DIFFUSER/ GRILLE
- EXTRACT GRILLE
- EXHAUST VALVE
- DOOR TRANSFER GRILLE
- FIRE DAMPERS (FD)
- SMOKE DAMPER
- BRANCH SELECTOR BOX (BS)

ABBREVIATIONS

LL LOW LEVEL
HL HIGH LEVEL
FA FROM ABOVE
TA TO ABOVE
TB TO BELOW
FB FROM BELOW
FFL FINISH FLOOR LEVEL
AFFL ABOVE FINISH FLOOR LEVEL
SSL STRUCTURAL SLAB LEVEL
c/w COMPLETE WITH
FAI FRESH AIR INTAKE
EXH EXHAUST
SUP SUPPLY
EXT EXTRACT
VCD VOLUME CONTROL DAMPER
FD FIRE DAMPER
SD SMOKE DAMPER
EF EXTRACT FAN
AHU AIR HANDLING UNIT
HRU HEAT RECOVERY UNIT

Rev	Date	Description	Eng
A	29/10/20	STAGE 4 ISSUE	MM
0	21/08/20	PRELIMINARY ISSUE	MM

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Client
WARWICK DISTRICT COUNCIL

Project
CASTLE FARM
RECREATIONAL CENTRE

Drawing Title
GROUND FLOOR
SPORTS HALL & OUTDOOR CHANGE
VENTILATION LAYOUT

Scale at A0 1 : 50	Date 17/02/2020
Drawn R.CHADWICK	Engineer A.PARRY
Status TENDER	Checked P.GUEST
Drawing No. 18/2995/CF/M57-0002	Rev A

Do not scale