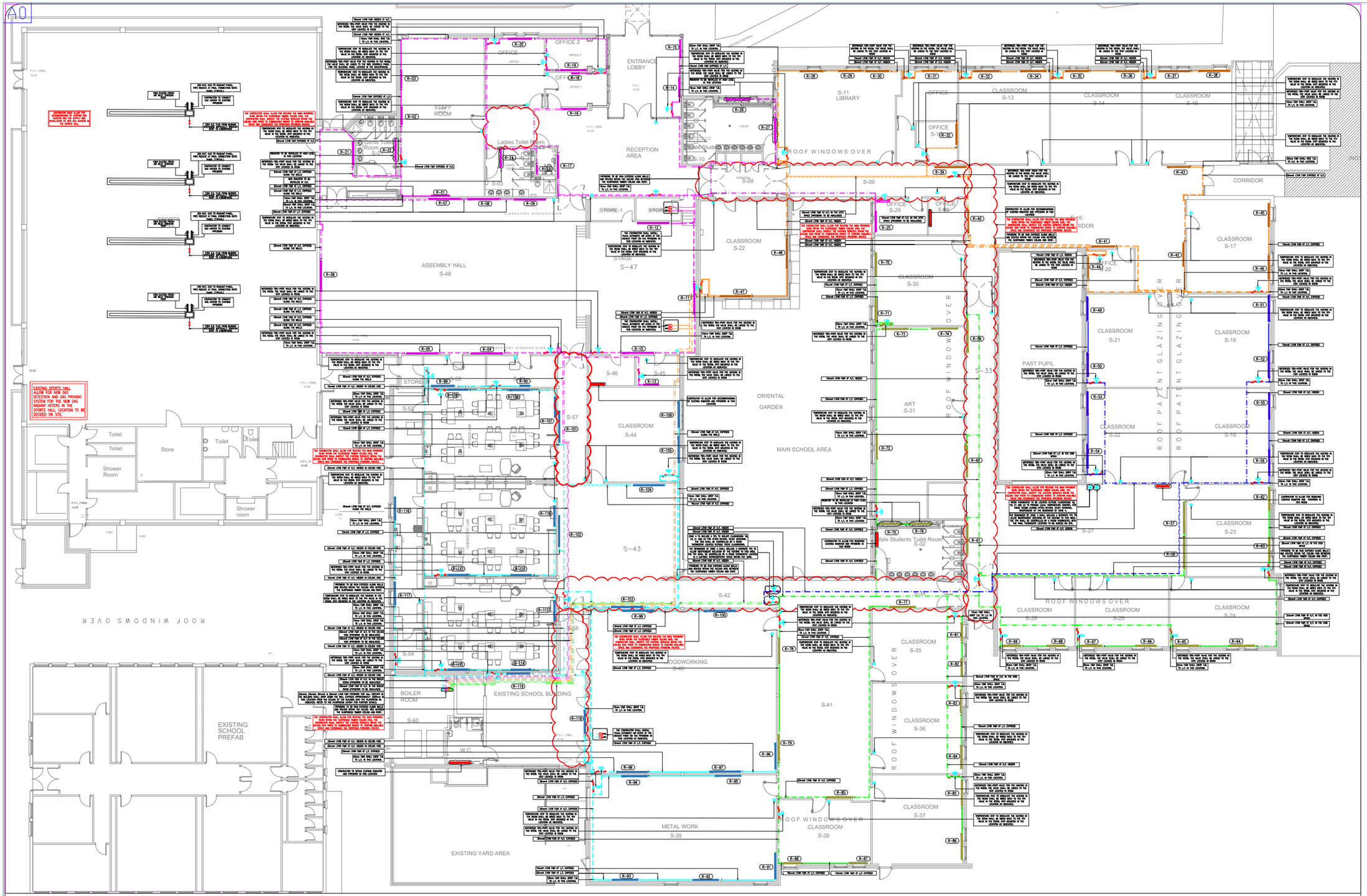
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SPACE HEATING INSTALLATION SERVICES LAYOUT FOR THE BUILDING (SCALE 1:150)

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.

2. 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.

3. 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 CONTRACTOR.

4. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE.

5. THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL MECHANICAL SERVICES INDICATED ON THIS DRAWING.

6. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR PIPEWORK, MECHANICAL SERVICES, ETC. AS INDICATED ON THE DRAWINGS.

7. NEW BEAMS RUN OF MECHANICAL PIPEWORK SHALL BE INSTALLED IN THE AREAS AS INDICATED. THIS IS INDICATIVE ONLY AND THE CONTRACTOR FINDS A MORE SUITABLE ROUTE FOR THE MECHANICAL SERVICES ON SITE THEN THIS WILL BE ACCEPTABLE.

8. FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.

9. 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.

10. THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, MATERIALS AND ATTENDANCES IN COMPLETING ALL THE MECHANICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

SPACE HEATING SERVICES NOTES:

11. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR DISCONNECTIONING AND REMOVING FROM SITE ALL OF THE SPACE HEATING INSTALLATION THROUGHOUT THE BUILDING. THIS SHALL INCLUDE ALL OF THE EQUIPMENT IN THE EXISTING BOILERHOUSE, EXISTING RADIATORS AND ASSOCIATED SPACE HEATING PIPEWORK.

12. THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, MATERIALS AND ATTENDANCES IN COMPLETING ALL THE MECHANICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

13. THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF A NEW SPACE HEATING INSTALLATION THROUGHOUT THE ENTIRE BUILDING INCLUDING ALL NEW RADIATORS, UPHW FLOW AND RETURN PIPEWORK, CONTROLS, ELECTRICAL WORKS, ETC. AS INDICATED ON THE DRAWINGS.

14. THE EXISTING HEATING CONTROL VALVES, CONTROLS, PUMPS, ETC. IN THE EXISTING BOILERHOUSE SHALL BE DISCONNECTED AND REMOVED IN ITS ENTIRETY. THE NEW HEATING SERVICES PIPEWORK FOR THE ENTIRE BUILDING SHALL BE CONNECTED BACK INTO THE HOT FLOW AND RETURN HEADERS IN THE BOILERHOUSE AS INDICATED ON THE DRAWINGS.

15. FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK ROUTES, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.

16. REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED SERVICES THROUGHOUT THE BUILDING.

17. ALL PIPES IN CEILING VOIDS, NON-HEATED ATTIC SPACES AND OTHER NON-OCCUPIED AREAS ARE TO BE INSULATED. INSULATION SHALL BE FOILED BACK MINERAL WOOL INSULATION. INSULATION SHALL BE FIXED TO ALL CONNECTIONS, BENDS, TEE'S AND VALVES.

18. THE CONTRACTOR SHALL ENSURE ALL RADIATORS ARE MEASURED IN RELEVANT LOCATIONS PRIOR TO ORDERING.

19. FINAL LOCATIONS OF ALL RADIATORS TO BE CO-ORDINATED ON SITE WITH FIXED FURNITURE LAYOUTS.

20. RADIATOR CONNECTIONS SHALL BE BOTTOM ONE END UNLESS OTHERWISE STATED. ALL CONNECTIONS TO RADIATORS SHALL BE 15mm, UNLESS INDICATED OTHERWISE.

21. ALLOW FOR INSTALLING 2-PORT VALVES ON PIPEWORK TO RADIATORS IN THE BUILDING AS INDICATED. SEE DETAIL ON DRAWING FOR FINAL ARRANGEMENT OF 2-PORT VALVE ARRANGEMENTS. ALL 2-PORT VALVE ARRANGEMENTS SHALL BE LINKED TO THE BMS CONTROLS PANEL IN THE BOILERHOUSE.

22. AUTOMATIC AIR VENTS SHALL BE PROVIDED AT ALL HIGH POINTS THROUGHOUT THE SYSTEM.

23. THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL VALVES INDICATED ON THIS DRAWING i.e. RADIATORS, UPHW FLOW AND RETURN SERVICES PIPEWORK, CONTROLS, TWO-PORT VALVES, ETC.

24. HEATING SYSTEM FLOW AND RETURN UPHW PIPEWORK SHALL BE INSTALLED IN 32dn BARREL BLACK STEEL TUBE, SUITABLE FOR THE OPERATING TEMPERATURES AND PRESSURES OF THE UPHW SYSTEM.

25. ALL NEW RADIATORS THROUGHOUT THE BUILDING SHALL BE SURFACE MOUNTED.

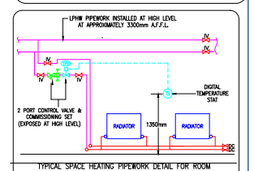
26. EQUIPMENT TO HAVE LOCAL ISOLATING VALVES.

27. DRAIN VALVES SHALL BE PROVIDED AT ALL LOW POINTS THROUGHOUT THE SYSTEM.

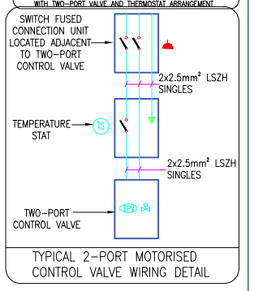
28. THE HEATING SYSTEM PIPEWORK THROUGHOUT (INCLUDING ALL HEATING PIPEWORK IN THE PLANTROOM AND IN THE BUILDING) SHALL BE MEDIUM GRADE BLACK MILD STEEL TUBE.

29. UNLESS INDICATED, THE SIZE OF ISOLATION VALVES, DRAIN VALVES, COMMISSIONING VALVES, ETC. SHALL MATCH THE PROVIDED SIZE OF THE PIPEWORK, REFER TO EQUIPMENT IS REQUIRED.

30. THE CONTRACTOR TO ALLOW FOR DISCONNECTIONING THE EXISTING GAS HEATERS IN THE SPORTS HALL AND THE SUPPLY AND INSTALL OF NEW GAS HEATERS IN THE LOCATION AS SHOWN ON DRAWING.



TYPICAL SPACE HEATING PIPEWORK DETAIL FOR ROOM WITH TWO-PORT VALVE AND THERMOSTAT ARRANGEMENT.



TYPICAL 2-PORT MOTORISED CONTROL VALVE WIRING DETAIL

SPACE HEATING SERVICES LEGENDS AND SYMBOLS

- WALL MOUNTED HORIZONTAL RADIATOR (ALL RADIATORS) (ZONE 1)
- WALL MOUNTED HORIZONTAL RADIATOR (ALL RADIATORS) (ZONE 2)
- WALL MOUNTED HORIZONTAL RADIATOR (ALL RADIATORS) (ZONE 3)
- WALL MOUNTED HORIZONTAL RADIATOR (ALL RADIATORS) (ZONE 4A)
- WALL MOUNTED HORIZONTAL RADIATOR (ALL RADIATORS) (ZONE 4B)
- R-* SURFACE MOUNTED RADIATOR (* DENOTES RADIATOR NUMBER AND TYPE)
- THV THERMOSTATIC RADIATOR VALVE
- AAV AUTOMATIC AIR VENT
- 2-PORT ROOM MOTORISED VALVE (LINKED TO THE BMS CONTROL PANEL)
- ISOLATION VALVE
- DC DRAIN COCK
- WALL MOUNTED ROOM THERMOSTAT & CO2 SENSOR (LINKED TO THE BMS CONTROL PANEL)

- T.B. TO BELOW
- T.A. TO ABOVE
- L/L LOW LEVEL
- H/L HIGH LEVEL
- D.T.L.L. DOWN TO LOW LEVEL
- F.B. FROM BELOW
- F.A. FROM ABOVE
- BOE BOTTOM OPPOSITE END
- F&R FLOW AND RETURN
- GAS PANEL HEATERS LOCATED ON THE SPORTS HALL. EXISTING TO BE DECOMMISSIONED AND REPLACED WITH NEW.

- UPHW FLOW & RETURN PIPEWORK INSTALLED AT HIGH LEVEL EXPOSED ALONG THE WALL. (PIPEWORK SHALL BE HIDDEN AND AS A RESULT, ALL PIPEWORK SHALL BE THOROUGHLY INSULATED)
- UPHW FLOW & RETURN PIPEWORK INSTALLED AT HIGH LEVEL IN THE ATTIC SPACE. (PIPEWORK SHALL BE HIDDEN AND AS A RESULT, ALL PIPEWORK SHALL BE THOROUGHLY INSULATED)
- SURFACE RUN UPHW FLOW AND RETURN HEATING SERVICES PIPEWORK (PIPEWORK IS NOT REQUIRED TO BE INSULATED)
- DROP/RISE IN HEATING SERVICES PIPEWORK

REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY
T2	09.10.26	E.OLAYA	G.BENNDORF
T1	13.08.26	D. LE BAULT	E.OLAYA

M&E CONSULTANT

Galileo ENERGY SERVICES
UNIT A6, M4 BUSINESS PARK,
CELBRIDGE, CO. KILDARE.
Tel: 01-6274103
www.galileoenergy.ie

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Architect:

Drawing No.: 56(M001)

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