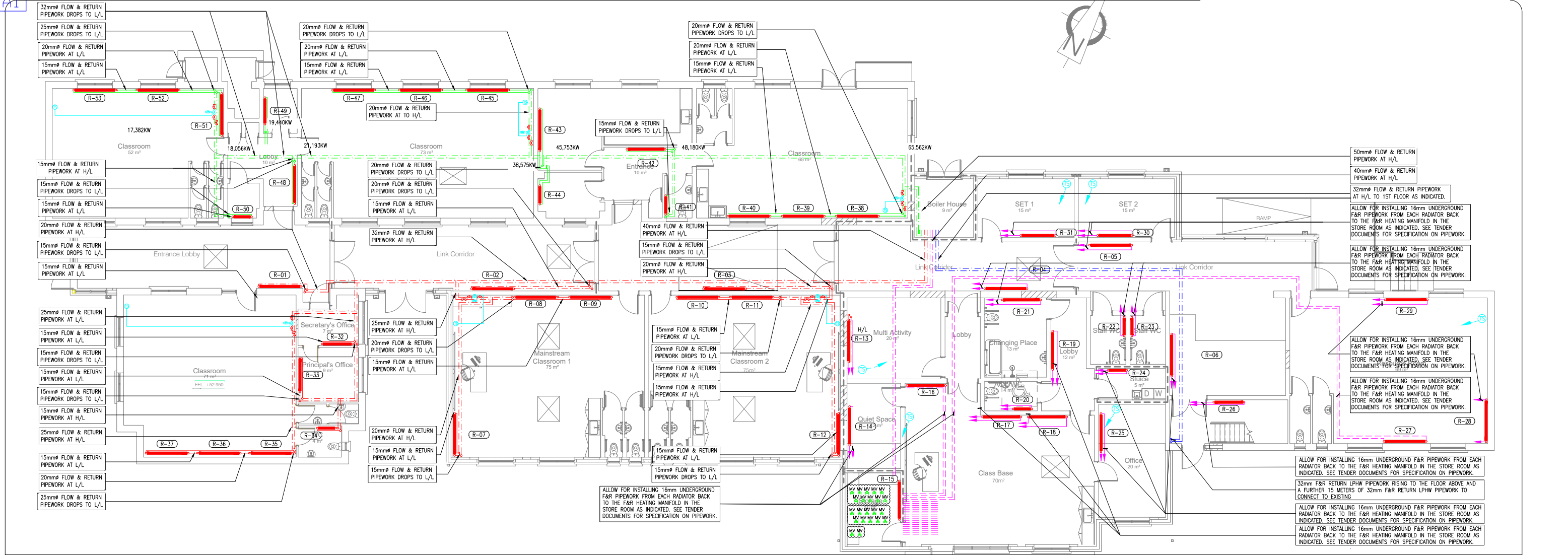
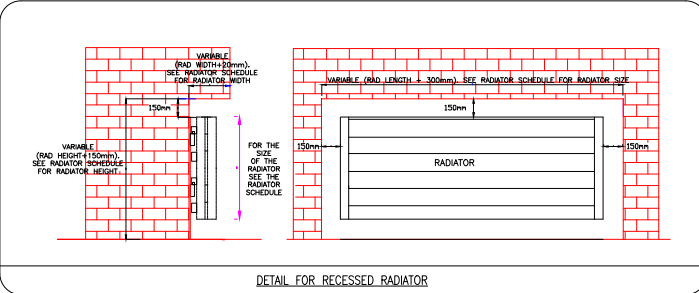




SPACE HEATING SERVICES LAYOUT (SCALE 1:100)

Radiator Schedule									
Location	Ref	Style	Code	Type	Height	Length	Depth	Output at At 50	Output at At 30
Link Corridor	R01	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Link Corridor	R02	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Link Corridor	R03	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Link Corridor	R04	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Link Corridor	R05	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Link Corridor	R06	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Mainstream Classroom 1	R07	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Mainstream Classroom 1	R08	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Mainstream Classroom 1	R09	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Mainstream Classroom 1	R10	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Mainstream Classroom 1	R11	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Mainstream Classroom 1	R12	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Multi Activity	R13	Maxi WF	MAXW.074.063.130.101/WF	H11	740	2030	130	2555	1197
Quiet Space	R14	Maxi WF	MAXW.059.1830.130.101/WF	H11	590	1830	130	1753	821
Storage	R15	Maxi WF	MAXW.059.1830.130.101/WF	H11	590	1830	130	1753	821
Class Base	R16	Maxi WF	MAXW.074.163.230.101/WF	H11	740	1830	230	3801	1765
Class Base	R17	Maxi WF	MAXW.074.163.230.101/WF	H11	740	1830	230	3801	1765
Class Base	R18	Maxi WF	MAXW.074.163.230.101/WF	H11	740	1830	230	3801	1765
Lobby	R19	Maxi WF	MAXW.059.1830.130.101/WF	H11	590	1830	130	1753	821
Acc WC	R20	Maxi WF	MAXW.059.830.130.101/WF	H11	590	830	130	674	316
Lobby	R21	Maxi WF	MAXW.059.1830.130.101/WF	H11	590	1830	130	1753	821
Staff WC	R22	Maxi WF	MAXW.059.830.130.101/WF	H11	590	830	130	674	316
Staff WC	R23	Maxi WF	MAXW.059.830.130.101/WF	H11	590	830	130	674	316
Sluice	R24	Maxi WF	MAXW.059.083.130.101/WF	H11	590	830	130	674	316
Office	R25	Maxi WF	MAXW.059.183.230.101/WF	H11	590	1830	230	3324	1542
Stairwell	R26	Maxi WF	MAXW.059.143.230.101/WF	H11	590	1430	230	2505	1162
Resource Room	R27	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Resource Room	R28	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Resource Room	R29	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Set 2	R30	Maxi WF	MAXW.059.163.230.101/WF	H11	590	1630	230	2914	1352
Set 1	R31	Maxi WF	MAXW.059.163.230.101/WF	H11	590	1630	230	2914	1352
Secretary's Office	R32	Maxi WF	MAXW.059.143.230.101/WF	H11	590	1430	230	2505	1162
Principals Office	R33	Maxi WF	MAXW.059.163.230.101/WF	H11	590	1630	230	2914	1352
WC	R34	Maxi WF	MAXW.059.830.130.101/WF	H11	590	830	130	674	316
WC	R35	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R36	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R37	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R38	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R39	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R40	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
WC	R41	Maxi WF	MAXW.059.830.130.101/WF	H11	590	830	130	674	316
Entrance	R42	Maxi WF	MAXW.059.1830.130.101/WF	H11	590	1830	130	1753	821
Kitchenette	R43	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Store	R44	Maxi WF	MAXW.059.1230.130.101/WF	H11	590	1230	130	1384	655
Classroom	R45	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R46	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R47	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Lobby	R48	Maxi WF	MAXW.059.1830.130.101/WF	H11	590	1830	130	1753	821
Store	R49	Maxi WF	MAXW.059.1230.130.101/WF	H11	590	1230	130	1384	655
180,180,561,818	R50	Maxi WF	MAXW.059.830.130.101/WF	H11	590	830	130	674	316
Classroom	R51	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R52	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733
Classroom	R53	Maxi WF	MAXW.074.203.230.101/WF	H11	740	2030	230	5794	2733



LEGEND OF SYMBOLS			
	SURFACE RUN PIPEWORK		GAS DETECTION PANEL (* DENOTES NUMBER ON PANEL)
	DROP/RISE IN PIPEWORK		EXTERNAL TEMPERATURE SENSOR (LINKED TO MCC CONTROLS PANEL)
	PIPEWORK AT LOW LEVEL IN FLOOR (NON VISIBLE)		EXTERNAL FROST STAT (LINKED TO MCC CONTROLS PANEL)
	PIPEWORK FROM BOILERHOUSE AT HIGH LEVEL IN CEILING VOID (NON VISIBLE)		FLOW AND RETURN HEATING MANIFOLDS IN THE DRAWING. SEE DRAWING FOR QUANTITIES.
	WALL MOUNTED RADIATOR		F&R FLOW AND RETURN
	* DENOTES RADIATOR NUMBER FOR RECESS MOUNTED RADIATOR		F&R FLOW AND RETURN
	2-PORT ROOM MOTORISED VALVE (LINKED TO BMS SYSTEM)		F&R FLOW AND RETURN
	WALL MOUNTED ROOM THERMOSTAT (LINKED TO BMS SYSTEM)		F&R FLOW AND RETURN
	CONTROL WIRING		F&R FLOW AND RETURN
	NEW BOILER		F&R FLOW AND RETURN
	NEW MOTOR CONTROL CENTRE (* DENOTES NUMBER OF PANEL)		F&R FLOW AND RETURN

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.

HEATING SERVICES NOTES:

- ALL SERVICES AS SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE FINAL TENDER PRICE.
- SAMPLE OF ALL EQUIPMENT SHALL BE APPROVED BY CLIENT, ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO ORDERING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR PIPEWORK.
- AUTOMATIC AIR VENTS TO BE FITTED AT ALL HIGH POINTS THROUGHOUT THE PIPEWORK SYSTEM. DRAW COCKS TO BE FITTED AT ALL LOW POINTS THROUGHOUT THE SYSTEM.
- THE CONTRACTOR SHALL ENSURE ALL RADIATORS ARE MEASURED IN RELEVANT LOCATIONS PRIOR TO ORDERING.
- FINAL LOCATIONS OF ALL RADIATORS TO BE CO-ORDINATED ON SITE WITH FIXED FURNITURE LAYOUTS. ALL PERIMETER RADIATORS SHALL BE CENTERED UNDERNEATH WINDOWS WHERE POSSIBLE.
- THE HEATING PIPEWORK SHALL BE INSTALLED IN THE CEILING VOID THROUGHOUT AS INDICATED ON THE DRAWINGS. WHERE THE PIPEWORK DROPS TO FEED RADIATORS, THIS PIPEWORK SHALL BE CONCEALED IN THE CEILING VOID AS INDICATED. WHERE POSSIBLE, ALL DROPS TO RADIATORS IN CORRIDORS, SHALL BE LOCATED IN ADJOINING ROOMS. ADVISE AND LIAISE WITH THE MAIN CONTRACTOR ON THIS.
- ALL EQUIPMENT TO HAVE LOCAL ISOLATING VALVES.
- ALL DIMENSIONS IN mm, UNLESS STATED OTHERWISE.
- RADIATOR CONNECTIONS SHALL BE BOTTOM OPPOSITE END UNLESS OTHERWISE STATED. RADIATOR CONNECTIONS TO BE 15mm FOR RADIATORS UP TO 4000 WATTS & 20mm ABOVE 4000 WATTS. ALL CONNECTIONS TO RADIATORS SHALL BE 45mm, UNLESS INDICATED OTHERWISE.
- ALL EQUIPMENT TO HAVE LOCAL ISOLATING VALVES.
- ALLOW FOR INSTALLING 2-PORT VALVES C/W 5000 ON PIPEWORK TO RADIATORS IN ALL TEACHING SPACES, OFFICES AND OTHER OCCUPIED ROOMS AS INDICATED.
- THE 2-PORT VALVES SHALL BE INSTALLED AT THE MANIFOLD LOCATION IN THE STORE OF THE BUILDING AS INDICATED ON THE DRAWING.
- THE WILL BE 20mm HEATING MANIFOLDS REQUIRED FOR THE EXTENSION TO CATER FOR ALL RADIATORS. REFER TO THE SPECIFICATION FOR THE SIZE AND TYPE OF MANIFOLD.
- ALL PIPEWORK IS SIZED BASED ON A FLOW TEMPERATURE OF 80 DEGREES CELSIUS AND A RETURN TEMPERATURE OF 60 DEGREES CELSIUS.
- ALL NEW SURFACE MOUNTED & EXPOSED LPHW PIPEWORK FOR THE HEATING SYSTEM PIPEWORK SHALL BE MEDIUM GRADE BLACK MILD STEEL TUBE.
- NEW MAINS RUN OF PIPEWORK SHALL BE INSTALLED IN THE AREAS AS INDICATED. THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR PIPEWORK ABOVE THE CEILING ON SITE THEN THAT WILL BE ACCEPTABLE.

T121.07.26R. WHYTEG. BENNDORF

REVDATEPREPARED BY/PROJECT ENGINEERQUALITY CHECK BY:

M&E CONSULTANT

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**HEATING SERVICES
LAYOUT.**

Architect

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Co.Kildare, Ireland

Tel. 045 854 900

Scale:

1:100 @ A1

Drawn By:

ROBERT WHYTE

Job No.

22-053

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