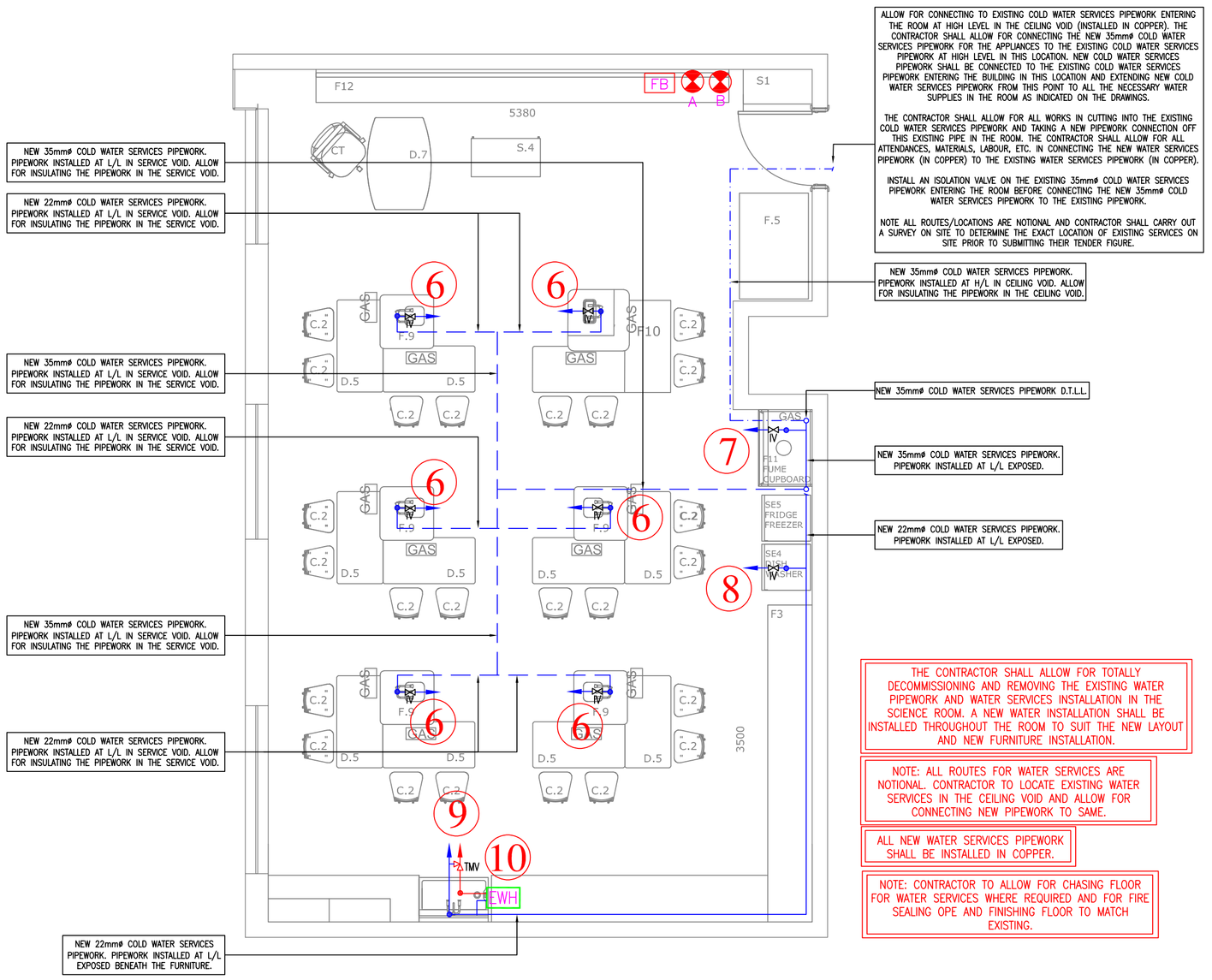
A1



WATER SERVICES INSTALLATION LAYOUT FOR THE SCIENCE ROOM (SCALE 1:50)

GENERAL NOTES:

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

2. THE MECHANICAL 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 ENGINEER.

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

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

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

7. NEW MAINS RUN OF MECHANICAL PIPEWORK AND SERVICES 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.

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, WIRING AND ATTENDANCES IN COMPLETING ALL THE MECHANICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

WATER SERVICES NOTES:

11. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR DECOMMISSIONING AND REMOVING THE EXISTING WATER SERVICES INSTALLATION THROUGHOUT THE SCIENCE ROOM. THE MECHANICAL CONTRACTOR SHALL DECOMMISSION AND REMOVE ALL WATER SERVICES PIPEWORK, VALVES, ETC. THROUGHOUT THE SCIENCE ROOM.

12. A NEW WATER SERVICES INSTALLATION SHALL BE SUPPLIED AND INSTALLED IN THE SCIENCE ROOM AS INDICATED ON THE DRAWING. ALL WORKS SHALL BE CARRIED OUT BY THE MECHANICAL CONTRACTOR.

13. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR WATER SERVICES PIPEWORK. ALL MAIN RUNS OF PIPEWORK SHALL BE INSTALLED IN THE CEILING VOID. ALL PIPEWORK IN THE CEILING VOID AND IN THE SERVICE VOID SHALL BE INSULATED.

14. ALL SERVICES AS SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE FINAL TENDER PRICE.

15. ALL WATER SERVICES PIPEWORK SHALL BE CONCEALED WITHIN SERVICE VOIDS.

16. THE CONTRACTOR SHALL CO-ORDINATE THE FINAL POSITIONS OF ALL EQUIPMENT & SERVICES WITH ALL OTHER TRADES. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.

17. THE CONTRACTOR SHALL ALLOW FOR A COMPLETE NEW WATER SERVICES SYSTEM IN THE BUILDING WHICH INCLUDES ALL PIPEWORK, VALVES, ETC. AS INDICATED ON THE DRAWINGS.

18. PROVIDE BALL-O-FIX VALVES ON ALL FINAL CONNECTIONS TO FITTINGS. VALVES SHALL BE PROVIDED IN AN ACCESSIBLE LOCATION ON ALL INTERNAL WATER SERVICES OUTLETS WITHIN 1 METER OF THE FINAL CONNECTION.

19. THE HOT WATER SERVICES SYSTEM IS SUPPLIED FROM ELECTRIC UNDERSINK WATER HEATERS. REFER TO SPECIFICATION FOR DETAILS OF THE ELECTRIC UNDERSINK WATER HEATER. THE CONTRACTOR SHALL ALLOW FOR THE INSTALLATION OF THE UNDERSINK WATER HEATERS AS INDICATED.

20. ALL TMV's TO BE TMV3 D08 COMPLIANT. ALL HOT WATER OUTLETS SHALL BE PROVIDED WITH FAIL-SAFE LOCKABLE THERMOSTATIC BLENDING VALVES LIMITING MAXIMUM TEMPERATURE TO 43c. BACK-TO-BACK OR GROUPS OF WASH HAND BASINS SHALL BE SERVED BY A SINGLE BLENDING VALVE. ALL THERMOSTATIC BLENDING VALVES ON THE HOT WATER SERVICES ARE TO BE CONNECTED TO THE COLD WATER DISTRIBUTION SERVICE.

21. ALL NEW COLD WATER SERVICES PIPEWORK, HOT WATER SERVICES SUPPLY PIPEWORK INSTALLED THROUGHOUT THE ROOMS SHALL BE INSTALLED IN COPPER TUBE.

22. ALL SANITARY WARE, TAPS, ETC. SHALL BE SUPPLIED AND INSTALLED BY THE MAIN CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR THE CONNECTION OF NEW WATER SERVICES PIPEWORK TO ALL THE SANITARY WARE AND TAPS.

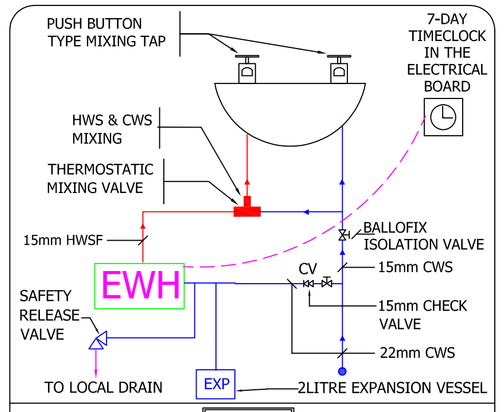
23. THE NEW COLD WATER SERVICES PIPEWORK FOR THE SCIENCE ROOM SHALL BE CONNECTED BACK TO THE EXISTING COLD WATER SERVICES 'PIPEWORK IN THE ROOM. THE NEW COLD WATER SERVICES PIPEWORK SHALL CONNECT TO THE EXISTING COLD WATER SERVICES PIPEWORK IN THE ROOM AS INDICATED ON THE DRAWINGS.

WATER SERVICES LEGENDS AND SYMBOLS

IV	COLD WATER CONNECTION C/W ISOLATION VALVE. REFER TO NUMBER SYSTEM ABOVE FOR CONNECTION SIZES AND DETAILS.
IV	HOT WATER CONNECTION C/W ISOLATION VALVE. REFER TO NUMBER SYSTEM ABOVE FOR CONNECTION SIZES AND DETAILS.
	NEW COLD WATER SERVICES PIPEWORK INSTALLED AT LOW LEVEL IN THE SERVICE VOID (HIDDEN FROM VIEW). ALL PIPEWORK IN THE SERVICE VOID SHALL BE THOROUGHLY INSULATED. REFER TO DRAWING FOR SIZES AND ROUTES. ALL PIPEWORK SHALL BE INSTALLED IN COPPER.
	NEW COLD WATER SERVICES PIPEWORK INSTALLED AT HIGH LEVEL IN THE CEILING VOID (HIDDEN FROM VIEW). ALL PIPEWORK IN THE CEILING VOID SHALL BE THOROUGHLY INSULATED. REFER TO DRAWING FOR SIZES AND ROUTES. ALL PIPEWORK SHALL BE INSTALLED IN COPPER.
	NEW HOT WATER SERVICES PIPEWORK INSTALLED IN COPPER. (PIPEWORK INSTALLED IN THE SERVICE VOID AND SHALL BE INSTALLED AT LOW LEVEL). REFER TO DRAWING FOR SIZES AND ROUTES.
EWH	NEW 10LITRE ELECTRIC WATER HEATER INSTALLED AT LOW LEVEL UNDER THE SINK. HEATER CONTROLLED VIA 7-DAY TIMECLOCK
IV	NEW ISOLATION VALVE
TMV	NEW THERMOSTATIC MIXING VALVE FOR SINKS
HWSF	HOT WATER SUPPLY
CWS	COLD WATER SUPPLY
H/L	HIGH LEVEL
L/L	LOW LEVEL
T.B	TO BELOW
F.B.	FROM BELOW

WATER NUMBERING SYSTEM

6	22mm COLD WATER SERVICES PIPEWORK (INSTALLED IN COPPER) CONNECTED TO THE SCIENCE SINK ON THE STUDENT BENCH. INCLUDE FOR THE SUPPLY AND INSTALLATION OF A BALLOFIX ISOLATION VALVE ON THE PIPEWORK TO ISOLATE THE WATER TO THE TAP.
7	22mm COLD WATER SERVICES PIPEWORK (INSTALLED IN COPPER) CONNECTED TO THE DOCKING STATION FOR THE FUME CUPBOARD. INCLUDE FOR THE SUPPLY AND INSTALLATION OF A BALLOFIX ISOLATION VALVE ON THE PIPEWORK TO ISOLATE THE WATER TO THE DOCKING STATION.
8	22mm COLD WATER SERVICES PIPEWORK (INSTALLED IN COPPER) CONNECTED TO THE DISHWASHER. INCLUDE FOR THE SUPPLY AND INSTALLATION OF A BALLOFIX ISOLATION VALVE ON THE PIPEWORK TO ISOLATE THE WATER TO THE DISHWASHER.
9	22mm COLD WATER SUPPLY & 22mm HOT WATER SUPPLY TO THE SINK FROM THE UNDERSINK ELECTRIC WATER HEATER. ALL PIPEWORK TO THE APPLIANCE SHALL BE HIDDEN FROM VIEW WHERE POSSIBLE. THERMOSTATIC MIXING VALVE (TMV) TO BE INSTALLED ON THE HOT WATER SUPPLY TO THE SINK.
10	NEW 10LITRE UNDERSINK ELECTRIC WATER HEATER TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. ALLOW FOR A 22mm COLD WATER SERVICES PIPEWORK (INSTALLED IN COPPER) TO THE WATER HEATER. INCLUDE FOR THE SUPPLY AND INSTALLATION OF A BALLOFIX ISOLATION VALVE ON THE PIPEWORK TO ISOLATE THE WATER TO THE WATER HEATER.



DETAIL A:

THERMOSTATIC MIXING VALVE DETAIL FOR THE BELFAST SINKS IN THE SCIENCE ROOM

REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY:
T1	04.06.26	J. MARTIN	G. BENNDORF

M&E CONSULTANT

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Drawing Title
NEW WATER SERVICES TO BE INSTALLED IN THE SCIENCE ROOM.

Architect
McLoughlin Architecture
Unit 4B, Elm House,
Millenium Park,
Naas, Co. Kildare

Drawing No:
53(M001)

Job No.	Drawn by:	Scale:	Rev.
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