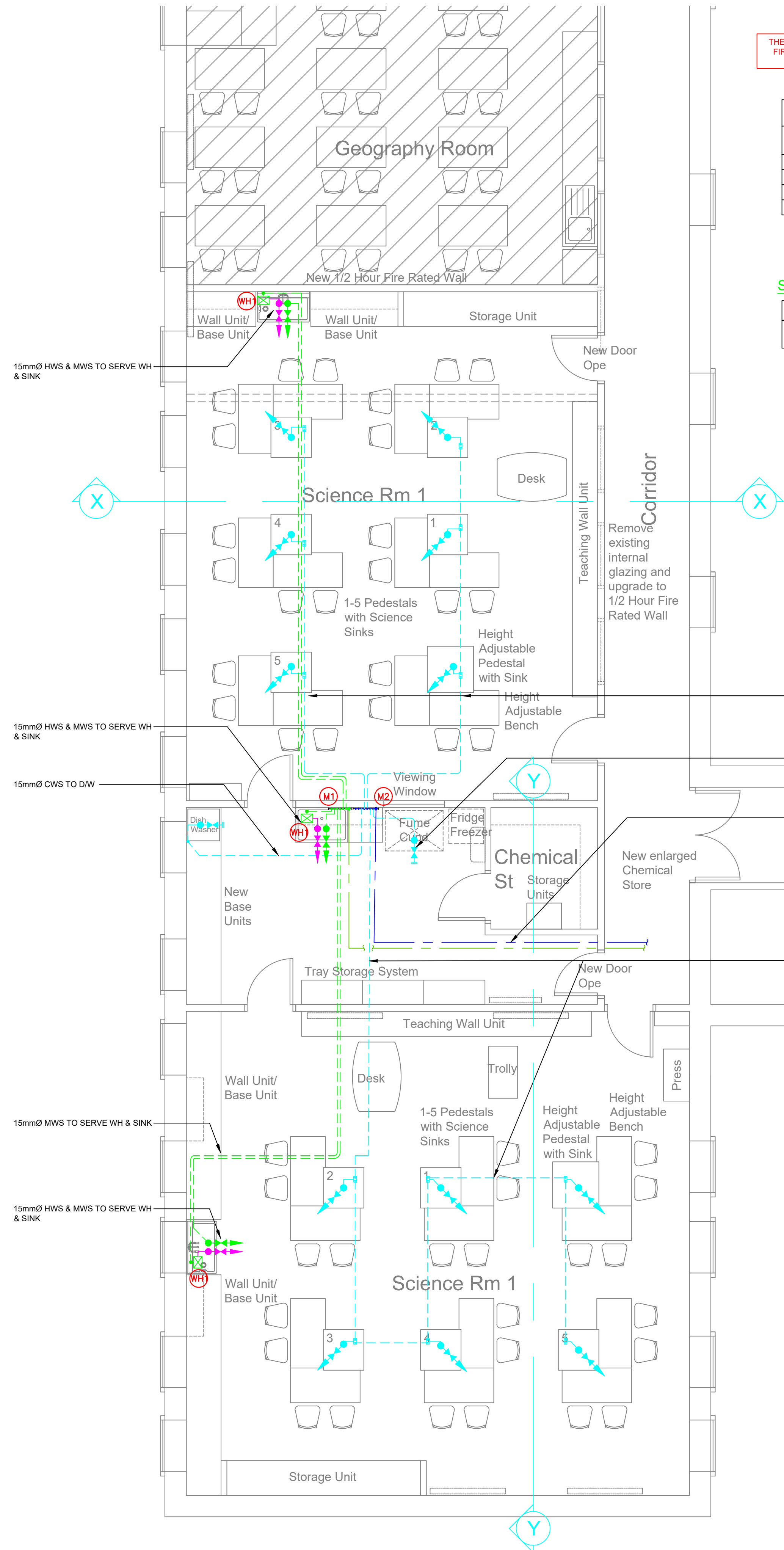


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Proposed Floor Plan

THE CONTRACTOR SHALL ENSURE APPROPRIATE USE OF FIRE COLLARS WHERE PIPEWORK OF 40mmØ OR MORE PASSES THROUGH ANY FIRE COMPARTMENTION

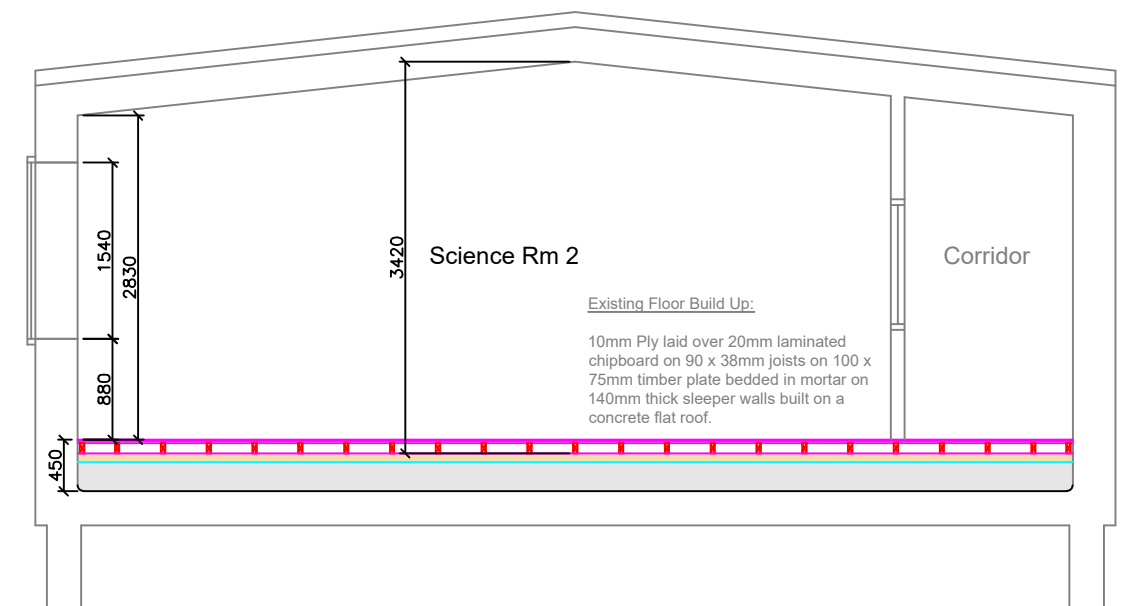
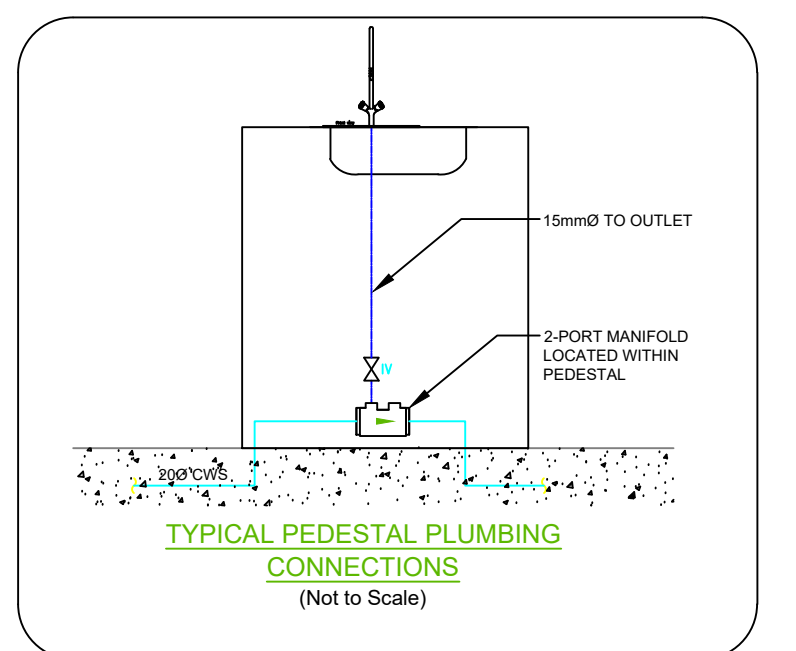
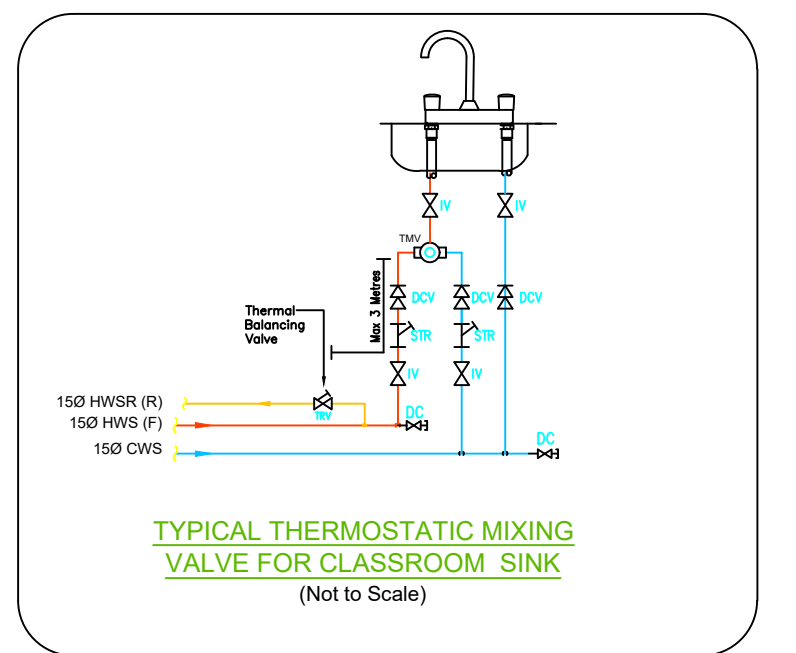
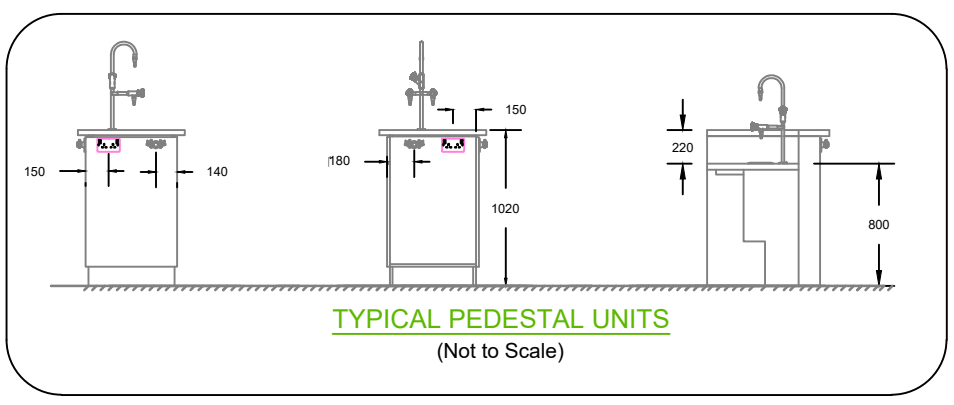
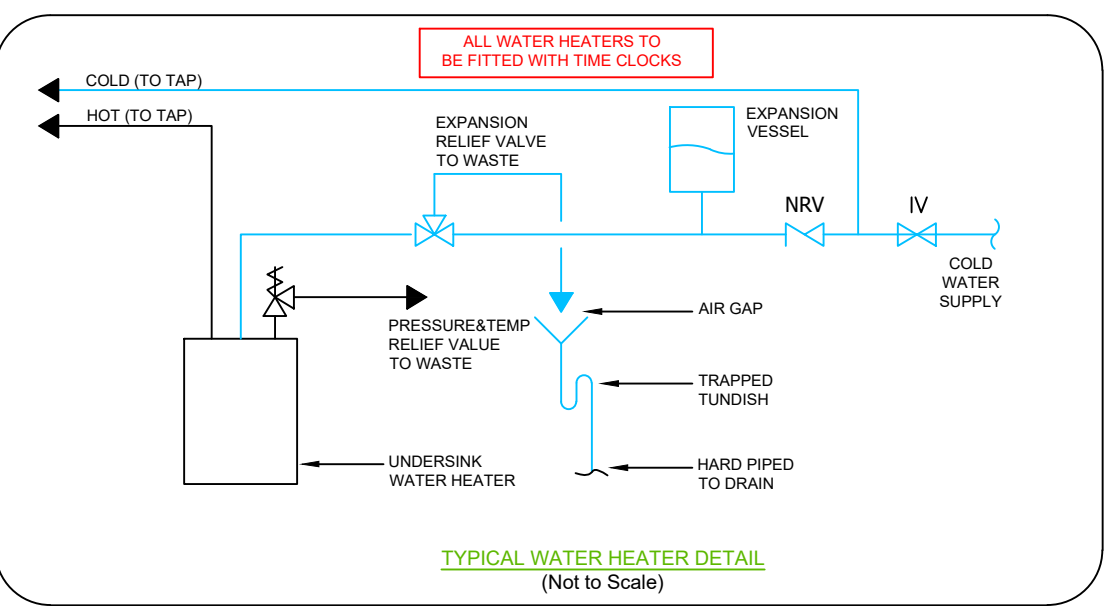
MANIFOLD SCHEDULE			
REF.	LOCATION	SERVICE	No. of PORTS
M01	PREP ROOM	MWS	6
M02	PREP ROOM	CWS	8
M03	SCIENCE ROOM	GAS	6
M04	SCIENCE ROOM	GAS	6

SCHEDULE: ELECTRIC WATER HEATER UNIT

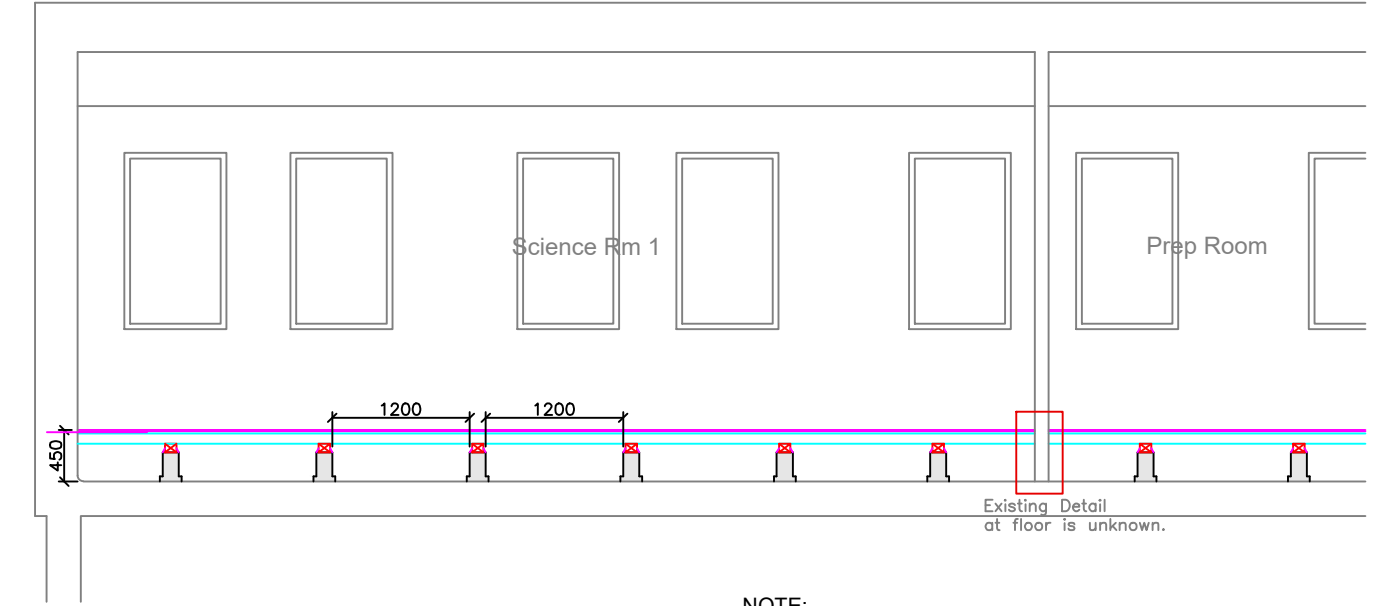
REF	MODEL	CAPACITY	MANUFACTURER	DIMENSIONS (w/d/h) (mm)	ELECTRICAL SUPPLY
WH-01	3100306 (100)	10 LITRES	ARISTON - ANDRIS LUX	360x360x298	2.0kW @230v

- ABBREVIATIONS**
- DS - DISCHARGE STACK
 - VP - VENT PIPE
 - C/S - CEILING SPACE
 - HWS - HOT WATER SUPPLY
 - CWS - COLD WATER SUPPLY
 - MWS - MAINS WATER SUPPLY
 - TMV - THERMOSTATIC MIXING VALVE
 - DOC - DRAIN OFF COCK
 - RV - REGULATING VALVE
 - IV - ISOLATING VALVE
 - TA - TO ABOVE
 - TB - TO BELOW
 - RTA - RISE TO ABOVE
 - RFB - RISE FROM BELOW
 - DTB - DROP TO BELOW
 - DFA - DROP FROM ABOVE
 - DTL - DROP TO LOW LEVEL
 - RTHL - RISE TO HIGH LEVEL
 - FFL - FINISHED FLOOR LEVEL

- LEGEND**
- ELECTRIC WATER HEATER. FINAL LOCATION TO BE AGREED WITH ENGINEER ON SITE.
 - COLD WATER OUTLET TO D/W OR FUME HOOD
 - COLD WATER OUTLET.
 - MAINS WATER OUTLET.
 - HOT WATER OUTLET.
 - PIPE WORK WITHIN FLOOR VOID
 - PIPE WORK AT LOW LEVEL
 - PIPE WORK AT HIGH LEVEL
 - PIPE WORK IN CEILING VOID



Existing Section X-X



Existing Section Y-Y

NOTE:
ALL SERVICES TO RUN BETWEEN TIMBER JOISTS. JOISTS TO BE NOTCHED OUT WHERE REQUIRED (FOLLOWING AGREEMENT WITH ARCHITECT)



TYPICAL 2 PORT VALVE (Not to Scale)

GENERAL PUBLIC HEALTH NOTES:-

THE COMPLETE INSTALLATION SHALL COMPLY WITH BS EN 806 'SPECIFICATION FOR INSTALLATIONS INSIDE BUILDINGS CONVEYING WATER FOR HUMAN CONSUMPTION' INCLUDING ALL AMENDMENTS (BS EN 12897:2006, BS 6700:2006 + A1:2009 (AS APPROPRIATE)), THE CURRENT WATER BYELAWS, ALL LOCAL WATER AUTHORITY REQUIREMENTS AND BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATION.

ALL PEX PIPES TO CONFORM TO EN STANDARD 15875 AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.

ALL COPPER PIPE FITTINGS FROM 15 - 54mmØ SHALL BE MANUFACTURED BY IM YORKSHIRE FITTINGS LTD. USING YORKSHIRE POTABLE RANGE FINE SOLDER LEAD FREE TYPE USING ONLY YORKSHIRE FLUX. FITTINGS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS. ALL FITTINGS 67mmØ AND ABOVE SHALL BE BRAZED, ALL AS DESCRIBED.

ISOLATING VALVES TO BE PROVIDED AT ALL HOT AND COLD WATER OUTLETS. VALVES SHALL BE BALL-O-FIX WITH HANDLES.

DRAIN OFF VALVES SHALL BE INSTALLED AT LOW POINTS WITHIN PIPEWORK DISTRIBUTION TO ALLOW COMPLETE DRAINING.

HOT WATER SUPPLY DEAD-LEGS SHALL BE LIMITED TO 3 METRES, BLENDED WATER 1.5 METRES.

FLOW LIMITERS SHALL BE FITTED AT ALL TAP INLETS TO PROVIDE FLOW RATES IN ACCORDANCE WITH THE FOLLOWING HOT AND COLD WATER OUTLETS -

- WHB - 0.1 L/s PER TAP OR 0.15 L/s PER MIXER.
- WC - 0.1 L/s
- SHOWER - 0.15 L/s PER HEAD.

HOT WATER TAPS WITHOUT MIXING VALVES TO HAVE A LABEL FIXED ABOVE OUTLETS STATING "HOT WATER" E.G CANTEENS & STAFF ROOMS.

THERMOSTATIC MIXING VALVES TO INCLUDE CHECK VALVES, STRAINERS, FLOW RESTRICTORS AND IV'S ON BOTH HOT AND COLD INLETS.

ALL WHB'S AND SINKS TO BE FITTED WITH IV'S AND DOC'S AT LOW LEVEL.

WHB'S AND SINKS TO BE FITTED WITH THERMOSTATIC MIXING VALVES IN COMPLIANCE WITH D08 AND TMV'S WHERE INDICATED ON THE DRAWING.

ALL PIPEWORK TO BE CONCEALED WHERE POSSIBLE WITHIN FORMED ACCESSIBLE DUCT ENCLOSURES INCORPORATING ACCESS HATCHES TO VALVES WHERE POSSIBLE.

ALL PIPEWORK TO BE THERMALLY INSULATED IN ACCORDANCE WITH THE SPECIFICATION.

WHERE PIPEWORK RUNS & DROPS TO SANITARYWARE ARE NOT WITHIN IPS OR ACCESSIBLE DUCTED INSTALLATION, THEY SHALL BE BOXED IN USING DE-MOUNTABLE SOLUTION TO ALLOW FUTURE ACCESS. PIPEWORK INSTALLATION EXPOSED IN FINISHED AREAS SUCH AS TILED WALLS ETC. SHALL BE CHROME PLATED THROUGHOUT.

SINGLE CHECK VALVES TO BE PROVIDED ON ALL MIXER TAP PIPE SUPPLY.

DOUBLE CHECK VALVES TO BE FITTED ON HOT AND COLD SUPPLIES PROVIDED WITH FLEXIBLE HOSE OUTLETS.

AUTOMATIC AIR VENTS SHALL BE INSTALLED AT HIGH POINTS WITHIN PIPEWORK DISTRIBUTION COMPLETE WITH DRIP PIPES AT ATMOSPHERE.

COLD WATER MAINS OUTLETS SHALL BE IDENTIFIED BY LABELING FITTED ADJACENT TO OUTLET.

ALL W/C'S TO BE 4.5 LITRE.

REGULATING VALVES TO BE FITTED ON ALL HOT WATER RETURN SINGLE BRANCH LINES IN ADDITION TO ISOLATING VALVE.

CONTRACTOR TO INCLUDE FOR PROVISION OF ANCHOR POINTS & EXPANSION BELLOWS DESIGNED & LOCATED BY SPECIALIST PIPE EXPANSION SUPPLIER/MANUFACTURER.

DOUBLE CHECK VALVES TO BE PROVIDED TO ALL COLD WATER SUPPLY BRANCH CONNECTIONS RISING & DROPPING BETWEEN FLOORS.

IV'S SHALL BE FITTED ADJACENT TO BRANCH CONNECTION TO MAIN LINES OR CONNECTED SUPPLY LINES.

ARCHITECT TO ALLOW FOR BOXING IN OF ALL PIPES AND PROVIDE DETAIL FOR FULL ACCESS TO ALL VALVES.

THERMOSTATIC MIXING VALVES

ALL WHB MIXING VALVES TO BE INDIVIDUAL THERMOSTATIC IN COMPLIANCE WITH D08 & TMV/3 STANDARD. TMV TO BE FITTED BELOW WHB'S. VALVES TO BE SET WITH A MAXIMUM TEMPERATURE OF 43°C.

MECHANICAL CONTRACTOR SHALL ENSURE THERMOSTATIC MIX VALVES ARE SUITABLE FOR OPERATION AT LOW HEAD PRESSURE.

THERMOSTATIC WHB MIXING VALVE TO BE MANUFACTURED BY THE HORNE ENGINEERING Co. LTD. OR EQUAL AND APPROVED WITH CHROME FINISH COMPLETE WITH PLUMBING KIT, WHICH INCLUDES NON-RETURN VALVES, STRAINERS & ISOLATING VALVES. ANY VALVED MOUNTED IN EXPOSED AREAS TO BE COMPLETE WITH ASSOCIATED COVER.

VALVE SIZES TO BE GENERALLY AS FOLLOWS:-

- 1 WHB - 15mm
- UP TO 3 WHB's - 22mm
- UP TO 6 WHB's - 28mm

VALVES TO BE LOCATED CENTRALLY UNDER RANGE OF BASINS TO MINIMISE DEADLEG FROM OUTLET.

THE EXACT NUMBER OF THERMOSTATIC BLENDING VALVES REQUIRED SHALL BE DETERMINED ON SITE. (WHERE WHBS ARE LOCATED BACK TO BACK 1No. TMV WILL BE SUFFICIENT)

IMPORTANT NOTE:- ALLOW FOR FITTING NON-RETURN VALVES TO PIPEWORK SUPPLIES RISING FROM GROUND FLOOR CEILING VOID TO SERVE ANY ITEM OF SANITARYWARE LOCATED ON THE FIRST FLOOR LEVEL.

LIAISON BETWEEN THE ALL CONTRACTORS ON SITE

THE MAIN CONTRACTOR, THE MECHANICAL CONTRACTOR & THE ELECTRICAL CONTRACTOR SHALL REMAIN IN CONSTANT COMMUNICATION WITH EACH OTHER AND OTHER EMPLOYED SPECIALISTS/SUPPLIERS. THE MECHANICAL & ELECTRICAL CONTRACTORS MUST AGREE CO-ORDINATION ROUTES OF SERVICES AND PLACING OF PLANT AND EQUIPMENT ASSOCIATED WITH THE PROPOSED WORKS. SHOULD THERE BE ANY CLASHING OF SERVICES, THE MECHANICAL AND ELECTRICAL CONTRACTORS SHALL RELOCATE AND RESOLVE THE ISSUES AT THEIR OWN EXPENSE.

THE MECHANICAL CONTRACTOR SHALL TIMEOUSLY INFORM THE ELECTRICAL CONTRACTOR OF ALL THEIR POWER AND CABLE REQUIREMENTS E.G. FOR THE VENTILATION FANS, THE CONTROLS INSTALLATIONS, ETC. LIKEWISE THE ELECTRICAL CONTRACTOR IS TO DETERMINE FROM THE MECHANICAL CONTRACTOR FINAL LOCATIONS OF ALL ITEMS OF MECHANICAL PLANT AND EQUIPMENT PRIOR TO FIRST FIX WORKS TO ABL INSTALLATION OF SUPPLIES TO CORRECT LOCATIONS.

