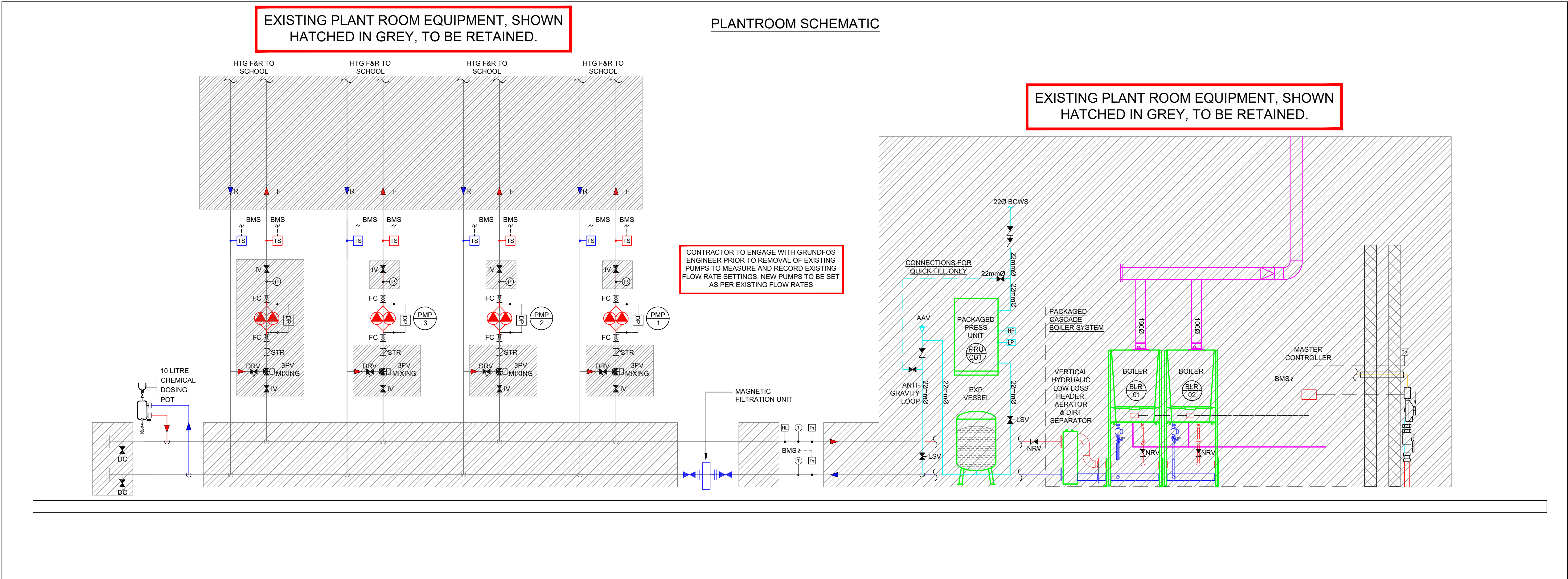




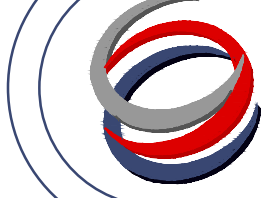
HEATING NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DRAWINGS.
- THE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATING THE MECHANICAL SERVICES SO AS TO ENSURE A NEAT AND ACCESSIBLE INSTALLATION
- REFER TO OTHER RELEVANT STRUCTURE DRAWINGS INCLUDING ARCHITECTURAL DETAILED ROOM LAYOUTS.
- CONTRACTOR SHALL TAKE FULL COGNISANCE OF THE SAFETY AND HEALTH PLAN, AND PROVIDE FULL METHOD STATEMENTS FOR ALL HAZARDOUS OPERATIONS LISTED THEREIN. METHOD STATEMENTS SHALL ALSO BE PROVIDED FOR ANY HAZARDOUS OPERATION WHICH BECOMES APPARENT THROUGHOUT THE CONSTRUCTION PHASE.
- ALL HEATING PIPEWORK SHALL BE MEDIUM GRADE STEEL AND SHALL BE INSTALLED IN ACCORDANCE WITH PART 3 OF THE STANDARD SPECIFICATION.
- ALL PIPEWORK IN PLANTROOM, CEILING VOIDS, FLOOR DUCTS AND RISING SERVICES DUCTS SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATION.
- WHERE PIPEWORK PASSES THROUGH WALLS OR FLOOR SLABS, SLEEVES MANUFACTURED FROM SIMILAR MATERIAL SHALL BE PROVIDED.
- AUTOMATIC AIR VENTS SHALL BE PROVIDED ON ALL HIGH POINTS IN THE PIPEWORK INSTALLATION TO FACILITATE VENTING OF THE SYSTEM AND DRAINED TO TUNDISH.
- DRAIN VALVES SHALL BE PROVIDED ON ALL LOW POINTS OF THE INSTALLATION TO FACILITATE COMPLETE DRAINING DOWN OF THE SYSTEM.
- HEATING SYSTEM TO BE COMPLETE WITH NECESSARY CORROSION INHIBITOR AS DETAILED BY THE MANUFACTURER.
- ALL HEATING PIPEWORK TO BE HYDRAULICALLY TESTED TO TWICE THE WORKING PRESSURE FOR A PERIOD OF TWO HOURS. TEST TO WITNESSED BY THE ENGINEER (TEST CERTIFICATE TO BE PROVIDED BY THE CONTRACTOR).
- ALL LPHW PIPEWORK PASSING THROUGH FIRE COMPARTMENT WALLS & FLOORS TO BE FIRE DAMPED, STOPPED & SLEEVED BY THE CONTRACTOR.

PUMP SCHEDULE							
ITEM	CIRCUIT	MAKE/MODEL	DUTY	STATIC HEAD	TYPE	POWER	CONTROLS
P1	HEATING CIRCUIT	MAGNA3 D 50-150F	5.5 kg/s	80 kPa	TWIN HEAD INLINE	230v/1ph/50Hz	VARIABLE SPEED PUMP c/w DIFFERENTIAL PRESSURE CONTROLS & BACNET BMS LINK
P2	HEATING CIRCUIT	MAGNA3 D 50-150F	5.5 kg/s	80 kPa	TWIN HEAD INLINE	230v/1ph/50Hz	VARIABLE SPEED PUMP c/w DIFFERENTIAL PRESSURE CONTROLS & BACNET BMS LINK
P3	HEATING CIRCUIT	MAGNA3 D 50-150F	5.5 kg/s	80 kPa	TWIN HEAD INLINE	230v/1ph/50Hz	VARIABLE SPEED PUMP c/w DIFFERENTIAL PRESSURE CONTROLS & BACNET BMS LINK

LTHW HEATING LEGEND	
	ISOLATION VALVE
	NON RETURN CHECK VALVE
	DOUBLE REGULATING VALVE
	COMMISSIONING SET
	THREE PORT CONTROL VALVE
	THREE PORT VALVE
	TWO PORT CONTROL VALVE
	ANGLE PRESSURE RELIEF SAFETY VALVE
	MEASURING STATION
	LOCKSHIELD VALVE
	DEADWEIGHT VALVE
	PRESSURE RELIEF SAFETY VALVE
	PRESSURE INDEPENDENT CONTROL VALVE
	DIFFERENTIAL PRESSURE VALVE
	DIFFERENTIAL PRESSURE VALVE C/W TWO PORT CONTROL
	ANGLE VALVE
	STRAINER
	FLEXIBLE CONNECTION
	ANCHOR POINT
	EXPANSION GUIDE
	EXPANSION BELLOWS
	DRAINCOCK C/W HOSE UNION
	HEAT METER
	METER
	SINGLE PUMP
	TWIN PUMP
	DIFFERENTIAL PRESSURE SENSOR
	TEMPERATURE GAUGE
	TEMPERATURE SENSOR
	PRESSURE GAUGE
	PRESSURE SENSOR
	ROOM SENSOR
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	PIPEWORK AT LOW LEVEL
	PIPEWORK AT HIGH LEVEL
	PIPEWORK IN CEILING VOID
	PIPEWORK UNDER FLOOR
	HEATING FLOW PIPEWORK SERVING GF
	HEATING RETURN PIPEWORK SERVING GF
	HEATING FLOW PIPEWORK SERVING FF
	HEATING RETURN PIPEWORK SERVING FF
	HEATING FLOW/RETURN PIPEWORK SERVING CIRCULATION
	HEATING FLOW/RETURN PIPEWORK CONSTANT TEMP
	LPHW LOW PRESSURE HOT WATER
	MPHW MEDIUM PRESSURE HOT WATER
	HPHW HIGH PRESSURE HOT WATER
	VTC VARIABLE TEMPERATURE CIRCUIT
	CTC CONSTANT TEMPERATURE CIRCUIT
	DTA DROPS TO ABOVE
	DTB DROPS TO BELOW
	RTA RISES TO ABOVE
	RFB RISES FROM BELOW
	C/V CEILING VOID
	H/L HIGH LEVEL
	L/L LOW LEVEL

TENDER

REV / DESCRIPTION		DRN	CKD	DATE
ISSUE				
TENDER				
 semple mckillop				
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PROJECT TITLE ST OLIVERS CC DROGHEDA EWS2026				
DRAWING TITLE PLANTROOM LAYOUT & SCHEMATICS				
DRAWING REFERENCE 3279-SMK-ZZ-LL-DR-M-5101		DRN CM	SCALE A0 1:100	