

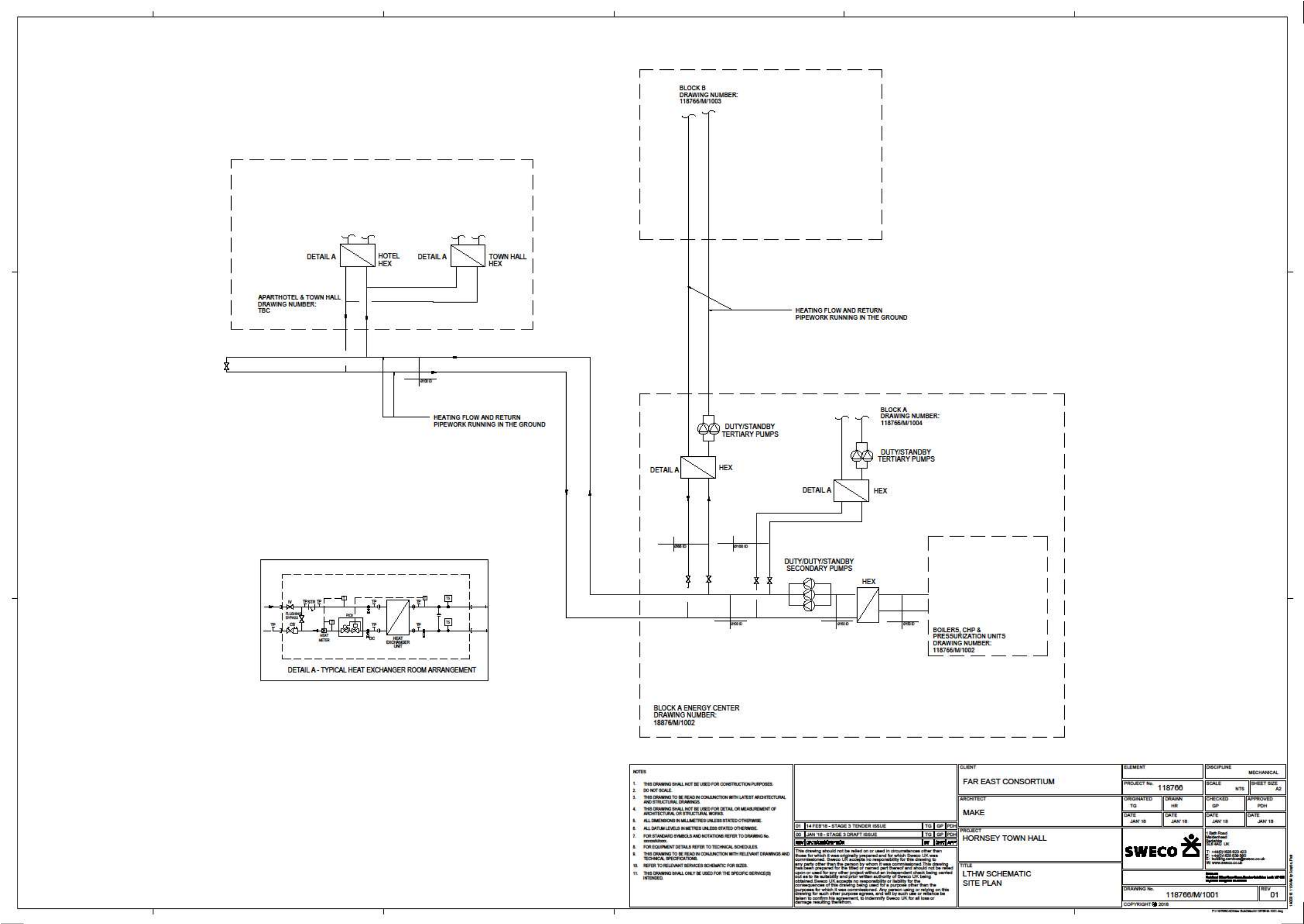
Hornsey town hall

HGY/2022/0256 - Condition 34 – CHP

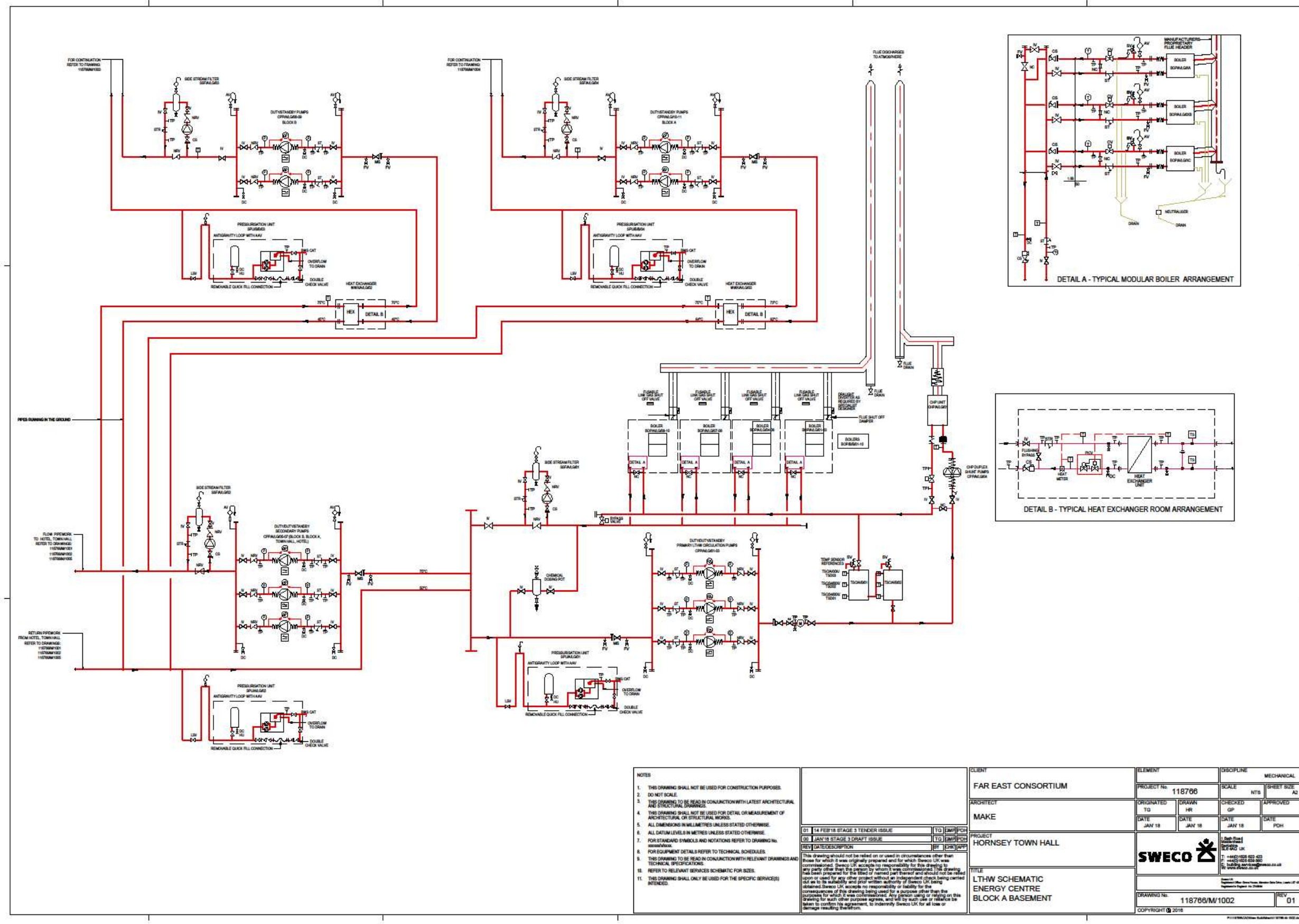
Update to previous application HGY/2017/2220

This application is being resubmitted for the following reason. Previously the CHP in Block A energy centre was serving Block, Block B, the town Hall, and the Hotel. The submission is now showing additional connections to the mews and the Broadway Annex building. Additional documentation showing the heat distribution schematics for each block has been added. The energy centre has also been redesigned because of the aforementioned.

PREVIOUSLY APPROVED SITE WIDE SCHEMATIC NO LONGER APPLICABLE. NO CONNECTION TO ANNEX AND MEWS SHOWN



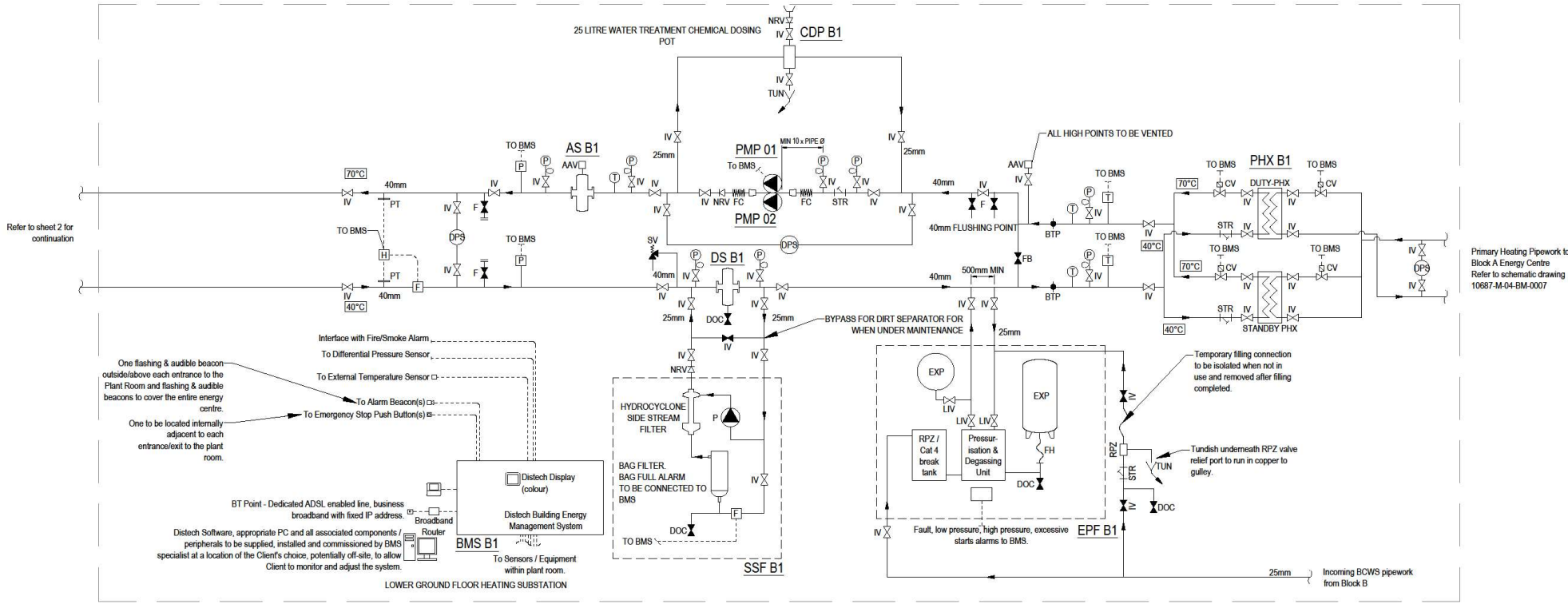
PREVIOUSLY APPROVED ENERGY CENTRE SCHEMATIC



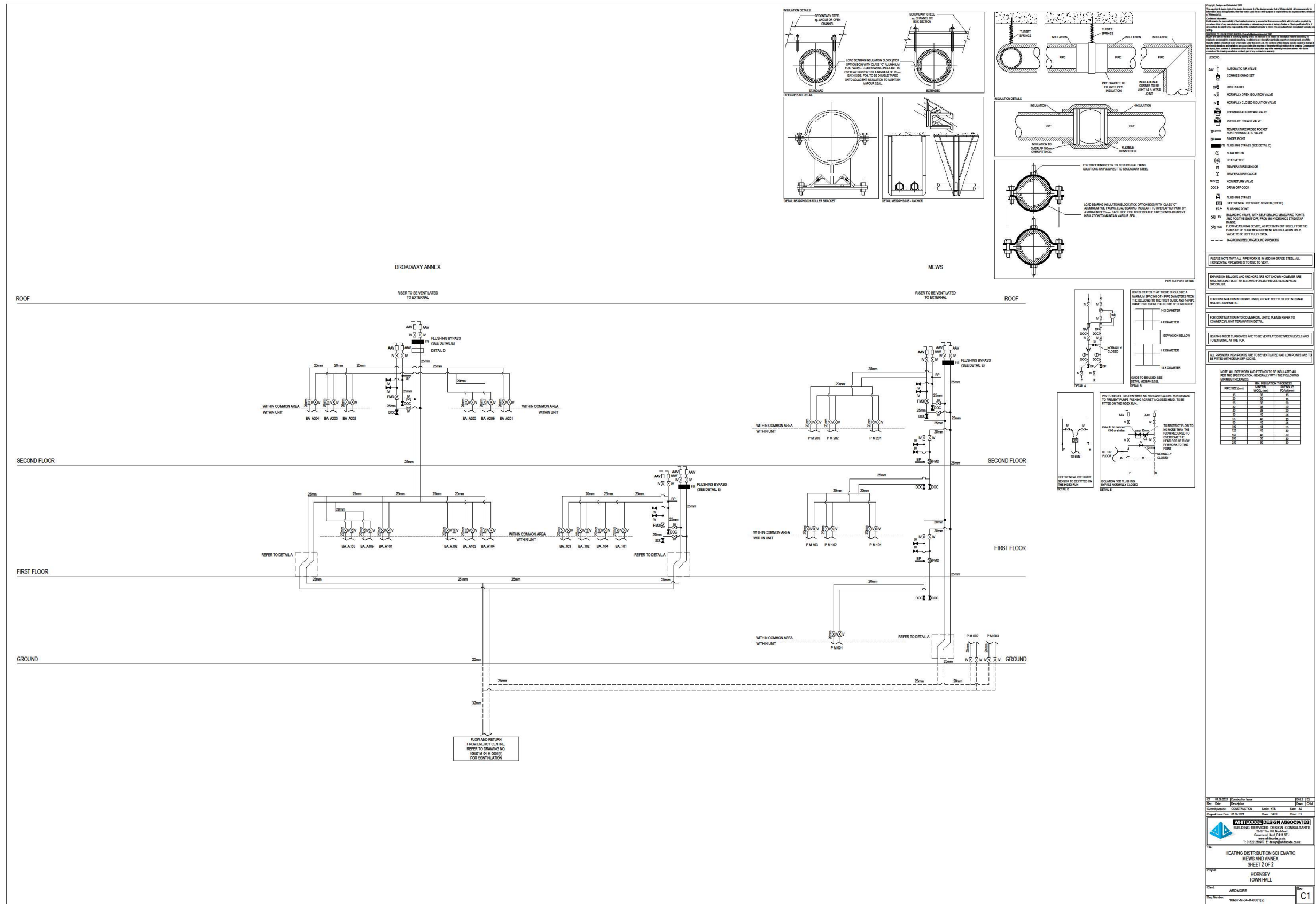
ENERGY CENTRE SCHEMATIC SHOWING NEW CONNECTIONS TO MEWS AND ANNEX

BLOCK B SCHEMATIC (NOT PREVIOUSLY ISSUED)

Block B Heating Substation Plant Schedule					
Plant Ref	Duty	Description	Manufacturer / Supplier	Product Range	Product Ref
AS B1	Full In-Line Flow	Smart Microbubble Air Separator with Compressed Particle Extractor and automatic air vent.	Flamco	Flamcovent Smart F	50
BMS B1	As per detailed quotation.	Management system with both local and remote maintenance access to ensure all plant can operate as intended and raise a fault alarm, including an automatic email message, should an item of plant become faulty. Incorporated safety system as noted.	Distech	-	-
CDP B1	25 Litre	Wall Mounted chemical dosing pot with funnel, non-return valve on fill line and air release valve.	ESG Waterwise	DP	DP25
DS B1	Full In-Line Flow	Smart Dirt Separator with Compressed Particle Extractor, supermagnetics, dirt collector, double scraper and drain off.	Flamco	Clean Smart F	50
EPF B1	3,100 litres system volume, 2.9 bar cold fill, 2.6 minimum pressure, 3.1 final pressure, 6 bar safety valve	Pressure maintenance, pump driven expansion provision, vacuum degassing and water make up.	IMI Hydronic	Pleno water make-up, Compresso Pressurisation/Expansion unit, Vento Vacuum Degasser, Braincube controller	-
PMP 01 & PUMP 02	1.84 l/s @ 157 KPA / Pump	Twin head variable speed pumpset, including built-in frequency converter. Operating as Duty/Standby. Installed on inertia bases.	Grundfos	TPED 32-230/2 A-F-A-BQQE-FDB	96114829
SSF B1	1.5m ³ /hr filtration (at least system volume litres / 86,400)	Skid mounted sidesystem filtration package with closed recovery system, bag filtration, and insulation kit. Bag filter to be reduced to 5 micron bags before system is handed over.	Scotec	CSF filter with CRS dirt recovery system	CSF 0505 & CRS 8-16

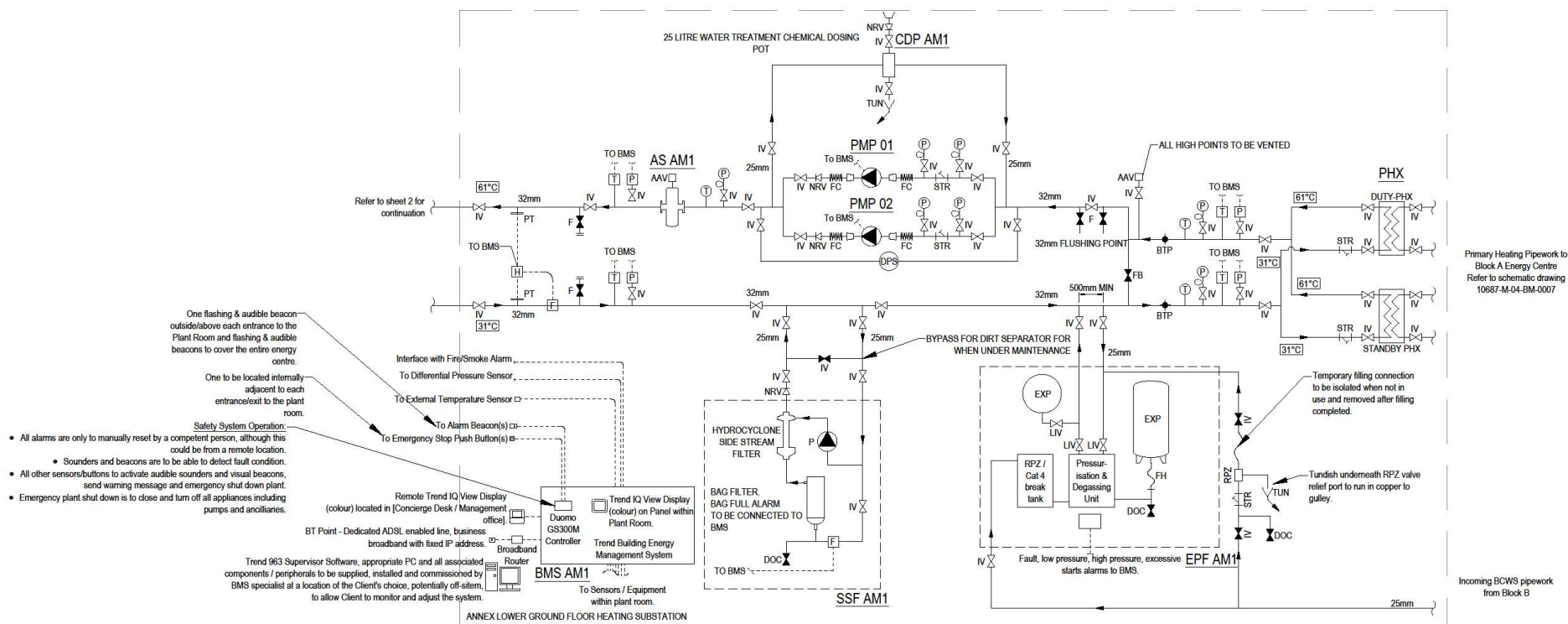
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MEWS AND SCHEMATIC (NOT PREVIOUSLY ISSUED)

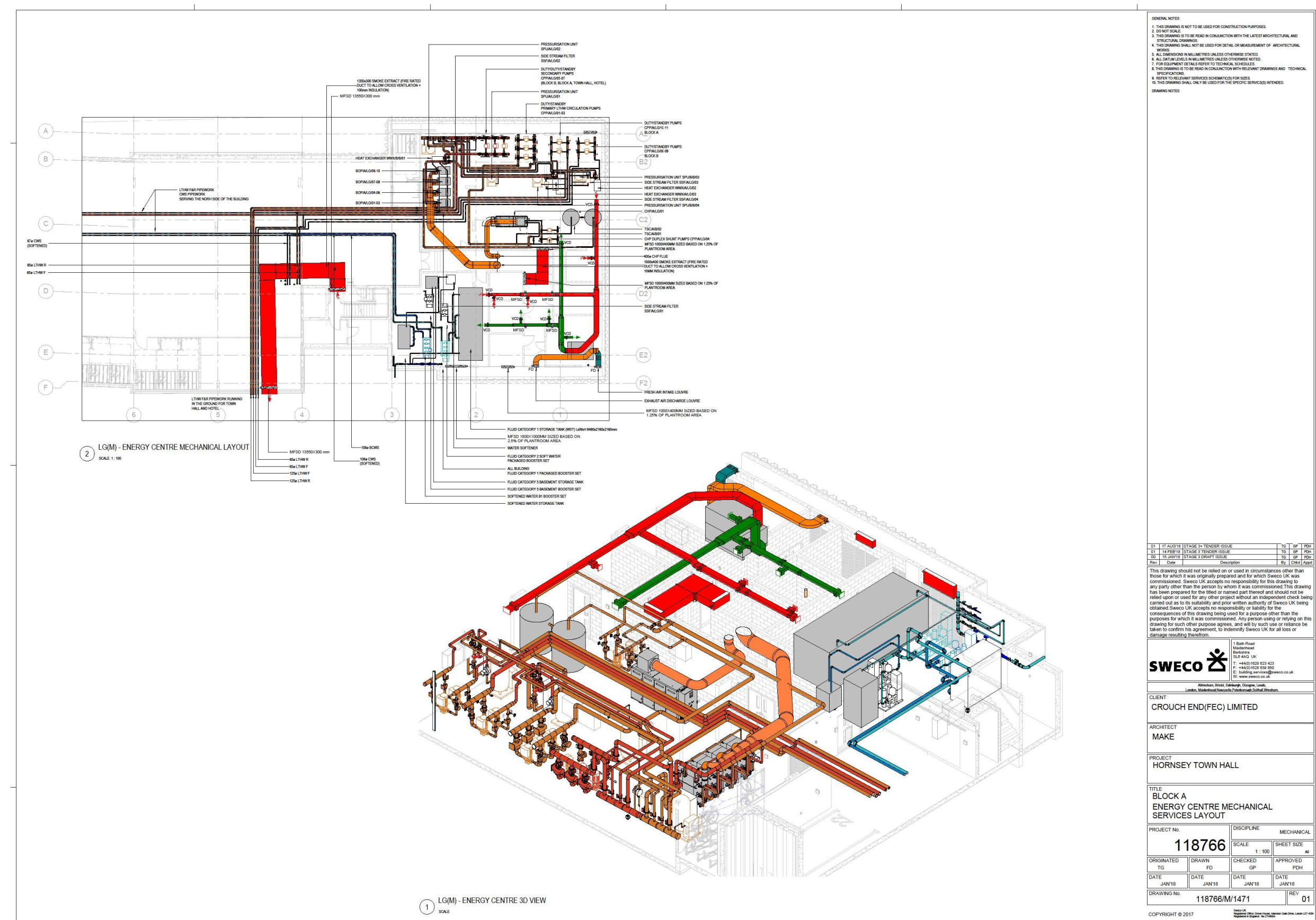


MEWS AND SCHEMATIC (NOT PREVIOUSLY ISSUED)

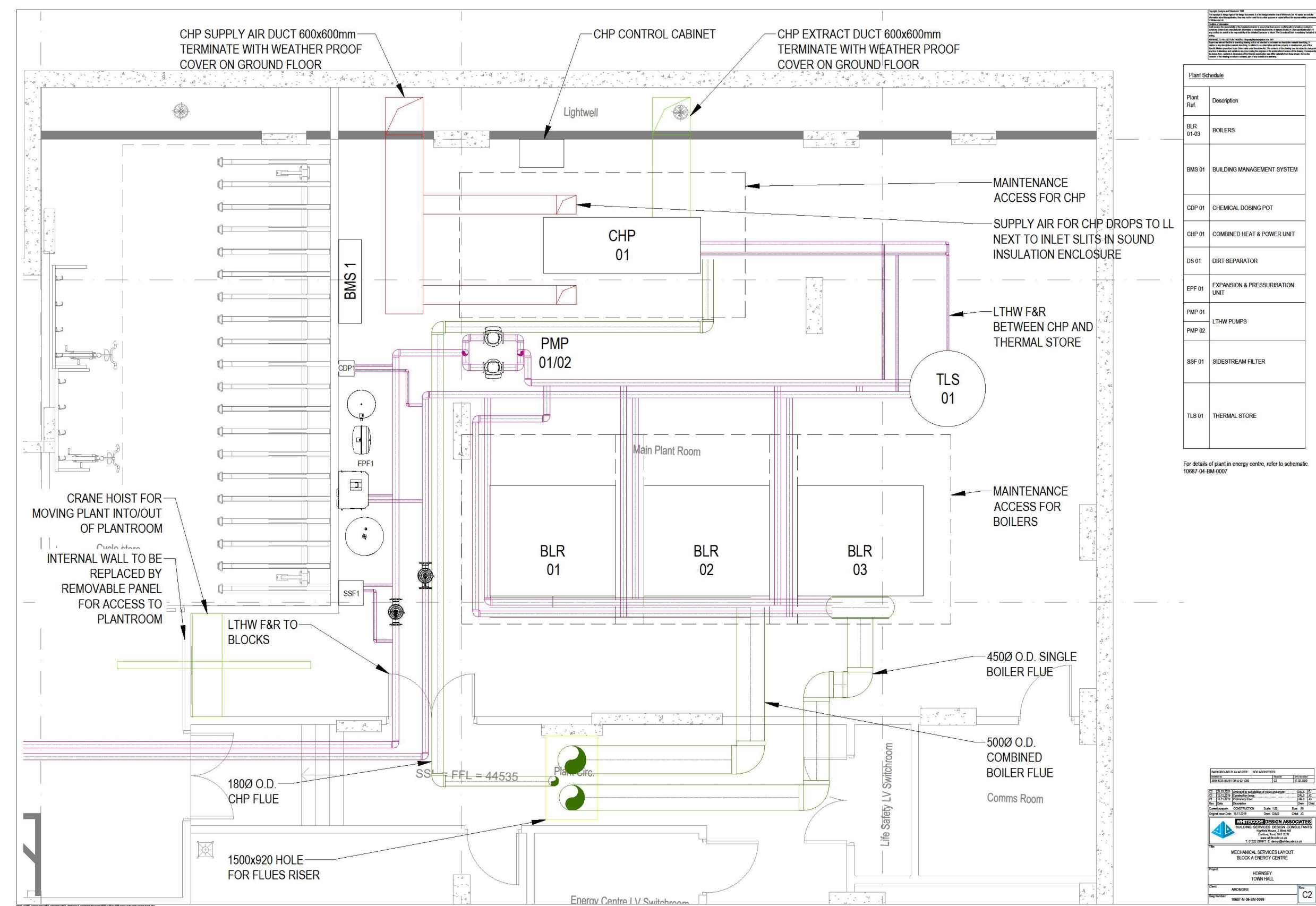
Annex Heating Substation Plant Schedule					
Plant Ref.	Duty	Description	Manufacturer / Supplier	Product Range	Product Ref
AS AM1	Full In-Line Flow	Microbubble, dirt and magnetite separator with Compressed Particle Extractor and automatic air vent.	IMI Hydronic	Zeparo ZIO	ZCD 32
BMS AM1	As per detailed quotation.	Management system with both local and remote maintenance access to ensure all plant can operate as intended and raise a fault alarm, including an automatic email message, should an item of plant become faulty. Incorporated safety system as noted.	Safe & Sound Controls	Trend	-
CDP AM1	25 Litre	Wall Mounted chemical dosing pot with funnel, non-return valve on fill line and air release valve.	ESG Waterwise	DP	DP25
EPF AM1	1.38 minimum pressure 1.98 final pressure	Pressure maintenance, pump driven expansion provision, vacuum degassing and water make up.	IMI Hydronic	SD 80.10 Statloc V 6.1 E Connect Tecbox P ABS Pleno Make-Up Tecbox	-
PMP 01 & PUMP 02	0.9 l/s @ 79 kPa / Pump	Twin head variable speed pumpset, including built in frequency converter. Operating as Duty/Standby. Installed on Inertia bases.	Grundfos	MAGNA3 32-100	97924257
SSF AM1	0.49m ³ /hr filtration	Skid mounted sidestream filtration package with closed recovery system, bag filtration, and insulation kit. Bag filter to be reduced to 5 micron bags before system is handed over.	Socotec	CSF filter with CRS dirt recovery system	CSF05/CRS1/01W
PHX 01 & 02	113kW Max 16.3kPa pressure loss	Duty and standby heating plates.	ALFA LAVAL	Gasketed plate heat exchanger	AQ2L-FM

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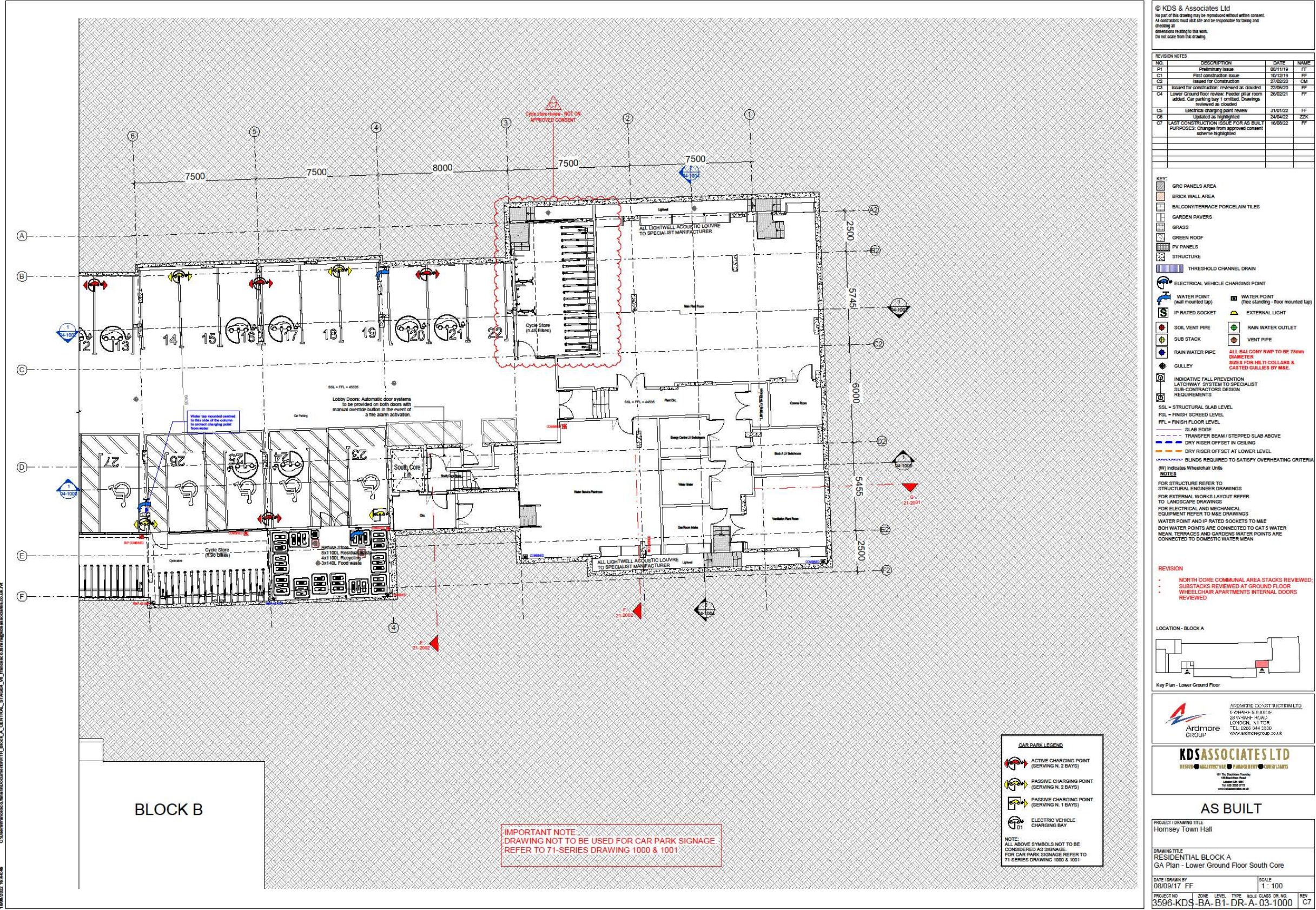
PREVIOUSLY APPROVED ENERGY CENTRE LAYOUT



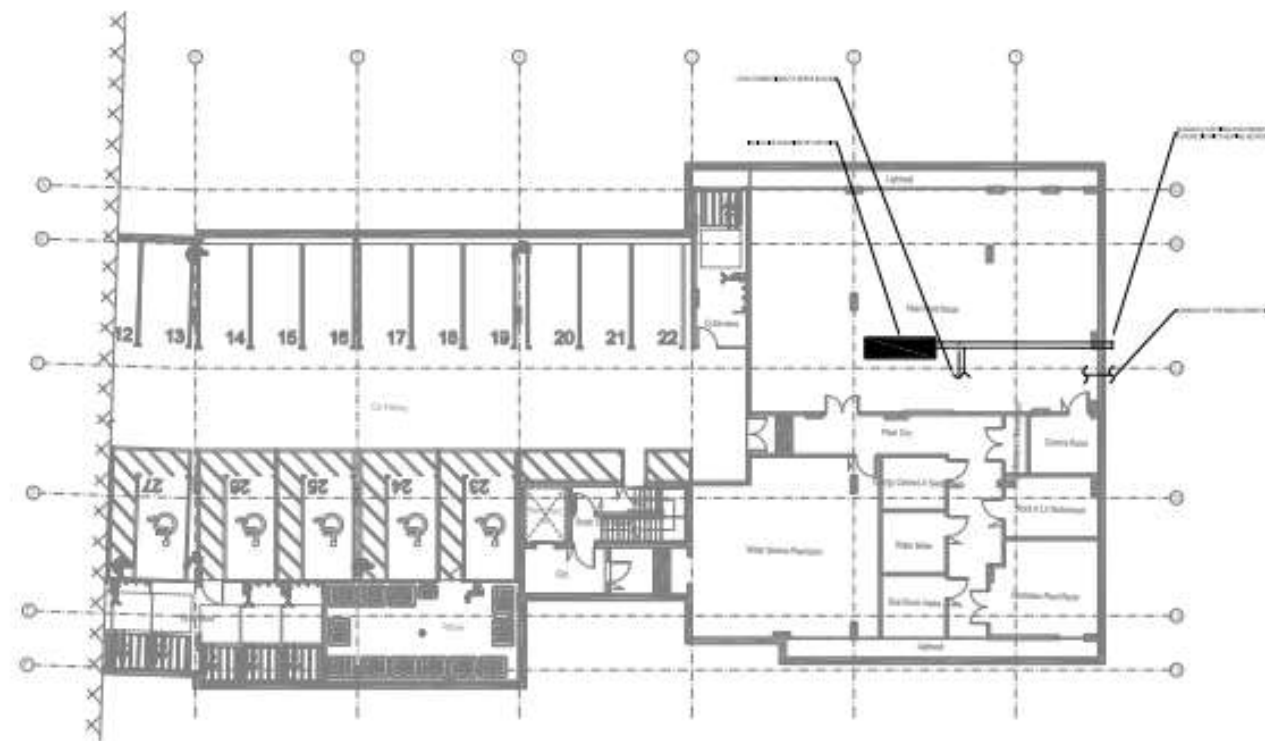
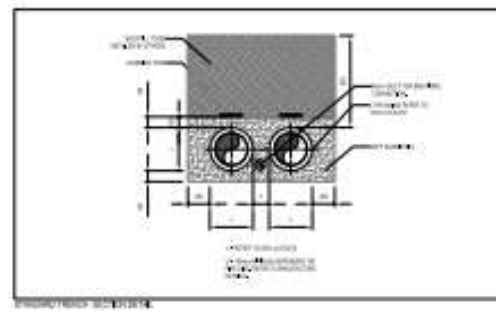
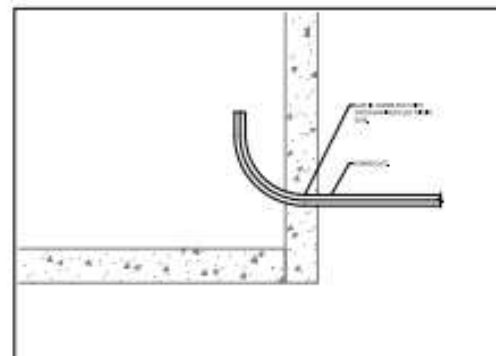
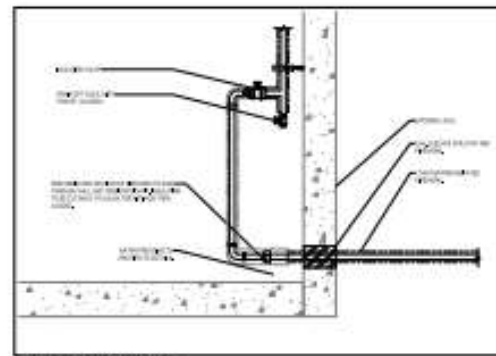
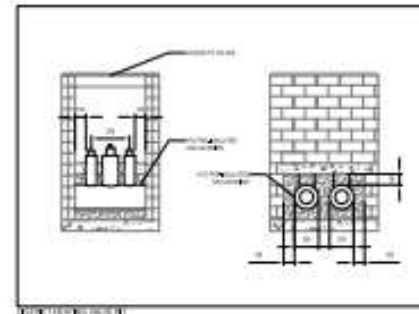
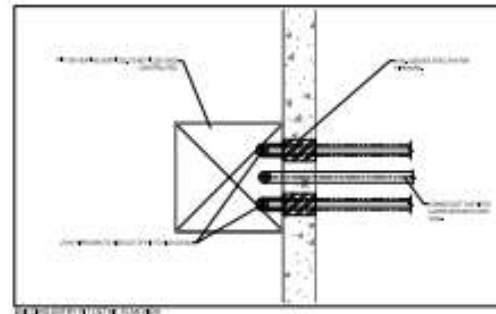
ENERGY CENTRE LAYOUT



PLAN SHOWING LOCATION OF ENERGY CENTRE IN BASEMENT OF BLOCK A



FUTURE CONNECTIONS AS PER PLANNING APPLICATION HGY/2017/2220 (no change)

[illegible]

SERVICE CONTRACT BOILER WITH BOSCH AS PER PLANNING APPLICATION HGY/2017/2220

Bosch Thermotechnology Ltd.
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Worcester
WIM 0SW
Tel: 0844 892 3004
Fax: 01905 753130
www.bosch-thermotechnology.co.uk



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Bosch Thermotechnology Ltd. has a policy of continuous research and development and this may involve alterations to this specification from time to time. Therefore before accepting for the installation of the appliance it is important that the instructions issued with the unit are carefully read and followed. The liability of the customer is not affected. Photographs shown are used for illustration purposes only. All information is correct at time of going to press. Bosch Thermotechnology Ltd. reserves the right to alter any information where necessary. 12/15



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Combined heat and power modules
Premium plus and Premium service contracts

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CONDITION OF OPERATION AS PER PLANNING APPLICATION HGY/2017/2220 (COVER PAGE ONLY ATTACHED)



Design Development Note				
Condition 34 Planning: CHP				
Project: Hornsey Town Hall			Project No: 10687	
Rev No.:	Date:	Status/Comments:	Prepared by:	Checked by:
01	08.07.2019	Preliminary Issue	JC	NE

1.0 Introduction

The purpose of this Design Development Note (DDN) is to clarify the operation & maintenance strategies of the CHP unit in the Block A Energy Centre, in order to satisfy Condition 34 of Haringey Council's Planning Conditions.

For the maintenance strategy, please refer to Bosch Premium service contract information, available on the Bosch website.

For details of connections for future district heating networks, please refer to WDA sketch numbered SK-001.