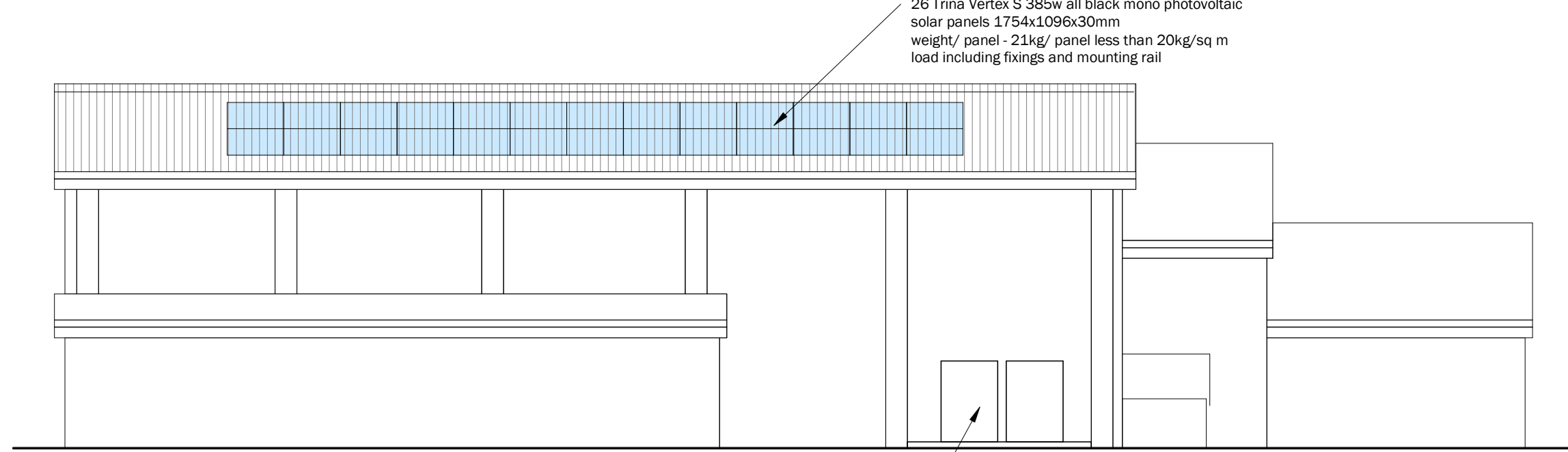


South East (Rear Elevation) - Existing
1 : 100

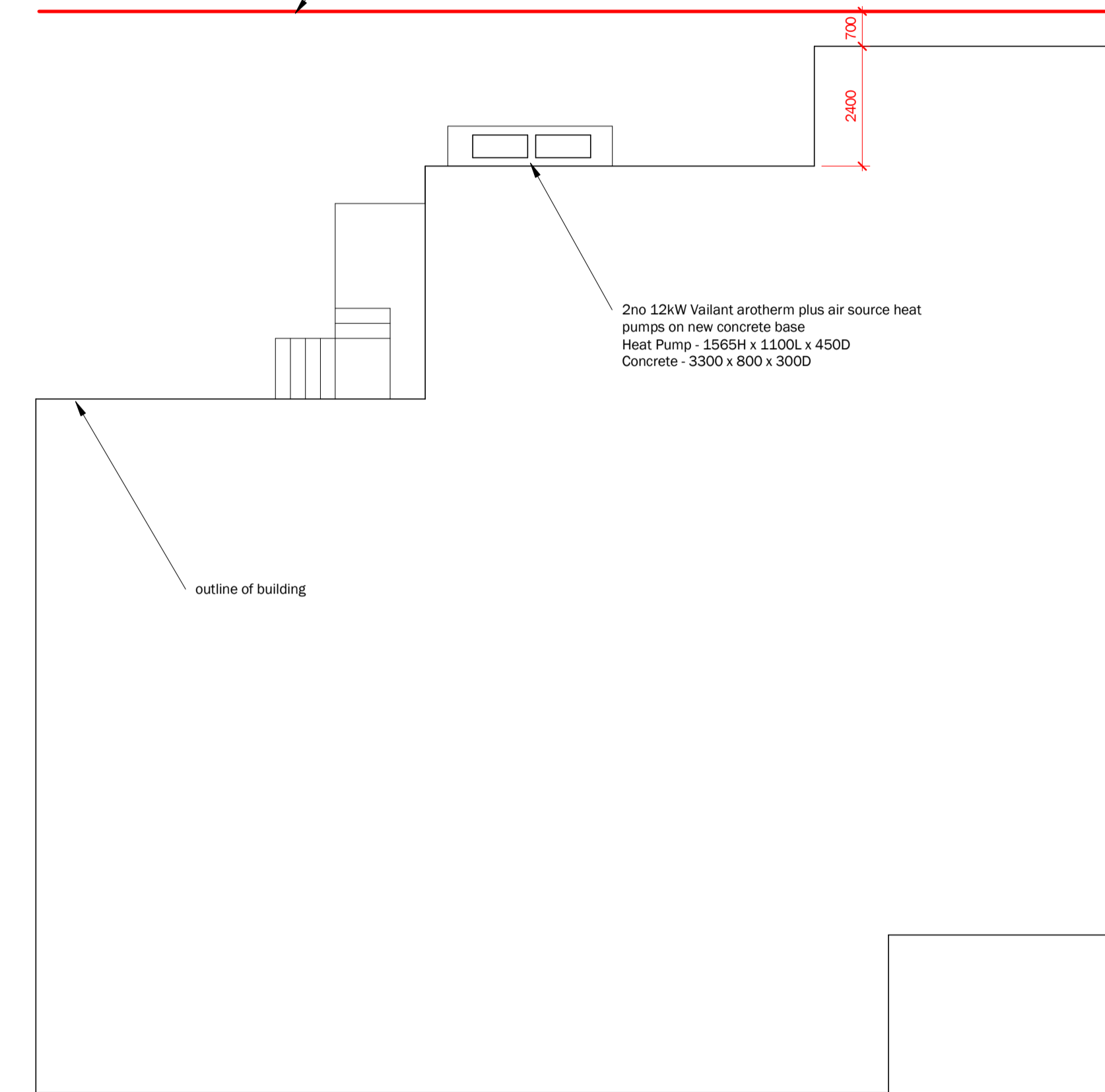


South East (Rear Elevation) - Proposed
1 : 100

2no 12kW Vaillant arotherm plus air source heat pumps on new concrete base
Heat Pump - 1565H x 1100L x 450D
Concrete - 3300 x 800 x 300D

DO NOT SCALE FROM THIS DRAWING FOR CONSTRUCTION PURPOSES. THIS DRAWING MUST ONLY BE VIEWED AT THE SCALE SHOWN. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LEVELS ON SITE. ANY DISCREPANCY BETWEEN DRAWINGS AND SITE CONDITIONS TO BE REFERRED TO THE ARCHITECT FOR CLARIFICATION. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH MANUFACTURERS LITERATURE.

Revision Schedule		
rev	date	amendment



Ground Floor Plan - Proposed
1 : 100

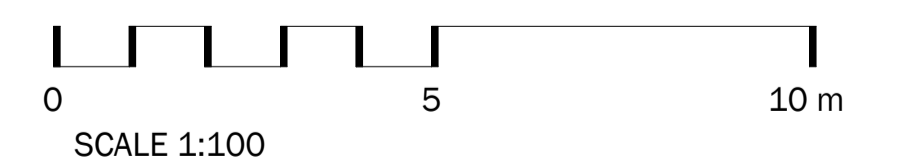
front entrance

GENERAL:
ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH THE RECOMMENDATIONS AND REQUIREMENTS OF CURRENT BRITISH STANDARDS, SPECIFICATIONS, CODES OF PRACTICE, BUILDING REGULATIONS. ALL PROPRIETARY PRODUCTS TO BE USED IN COMPLIANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
NOTCHING AND DRILLING OF JOISTS TO BE IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND RECOGNISED LIMITS.

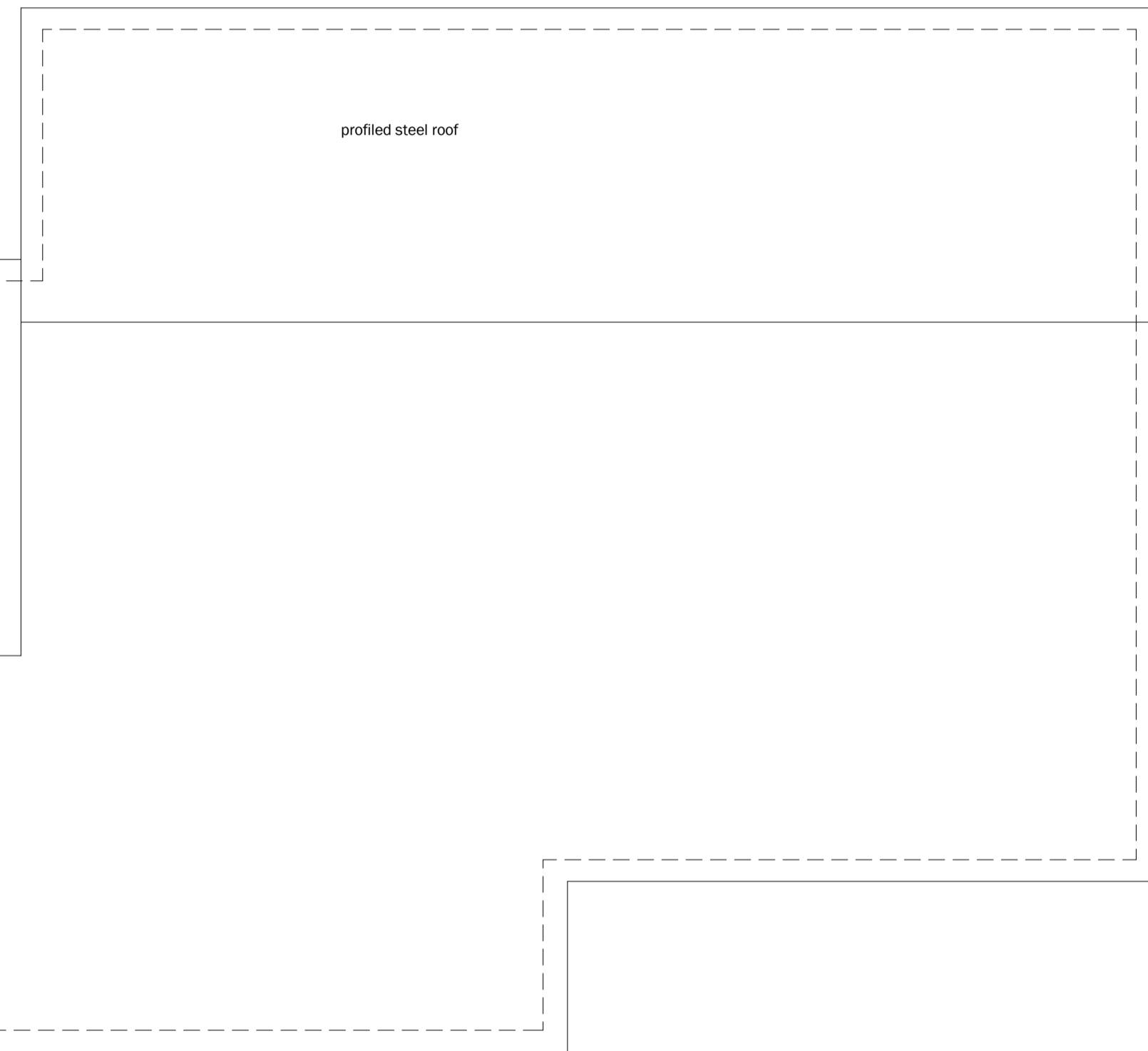
AIR SOURCE HEAT PUMP:
2no 12kW VAILLANT AROTHERM PLUS AIR SOURCE HEAT PUMPS ON 300MM DEEP CONCRETE BASE LOCATED AS SHOWN ON PLANS AND 200 LITRE VAILLANT FLOOR STANDING BUFFER TANK/ VESSEL. 50 LITRE EXPANSION VESSEL/ FLOOR STANDING TANK. HEATING SYSTEM TO BE SPLIT INTO ZONES TO IMPROVE EFFICIENCY AND CONTROLLED BY INDIVIDUAL THERMOSTATS. ALL VALVES, EXPANSION VESSEL AND ALL SAFETY DEVICES, CONTROLS AND OTHER COMPONENTS AND WILL MEET STATUTORY REQUIREMENTS AND COMPLY WITH PART G3 OF THE BUILDING REGULATIONS.
COMMISSIONING OF HEAT PUMP EQUIPMENT, CERTIFICATION OF UNVENTED CYLINDER AND SAFETY DEVICES WILL BE CARRIED OUT IN ACCORDANCE TO MANUFACTURERS INSTRUCTIONS AND COMMISSIONING WITH BE DONE BY TRAINED AND ACCREDITED STAFF.
ALL PIPEWORK INSULATED IN ACCORDANCE WITH BS 5422. ANTI-SCALD THERMOSTATIC MIXER VALVES TO BS EN 1111.

HEATING:
REMOVE EXISTING ELECTRIC HEATING SYSTEM AND HOT WATER CYLINDER. REMOVE EXISTING ELECTRIC HEATING SYSTEM AND REPLACE WITH NEW RADIATORS/ PIPEWORK. ALL NEW HEATING AND WATER PIPES TO BE ADEQUATELY INSULATED TO BS 5422. ALL RADIATORS TO BE FITTED WITH TRVS. HEATING SYSTEM TO BE ALTERED AND COMMISSIONED BY A SUITABLE QUALIFIED FITTER. THE HEATING SYSTEM MUST BE COMMISSIONED AND TESTED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS TO ENSURE OPTIMUM EFFICIENCY IN CONSERVATION OF FUEL AND POWER AND TO COMPLY WITH THE TECHNICAL STANDARDS.

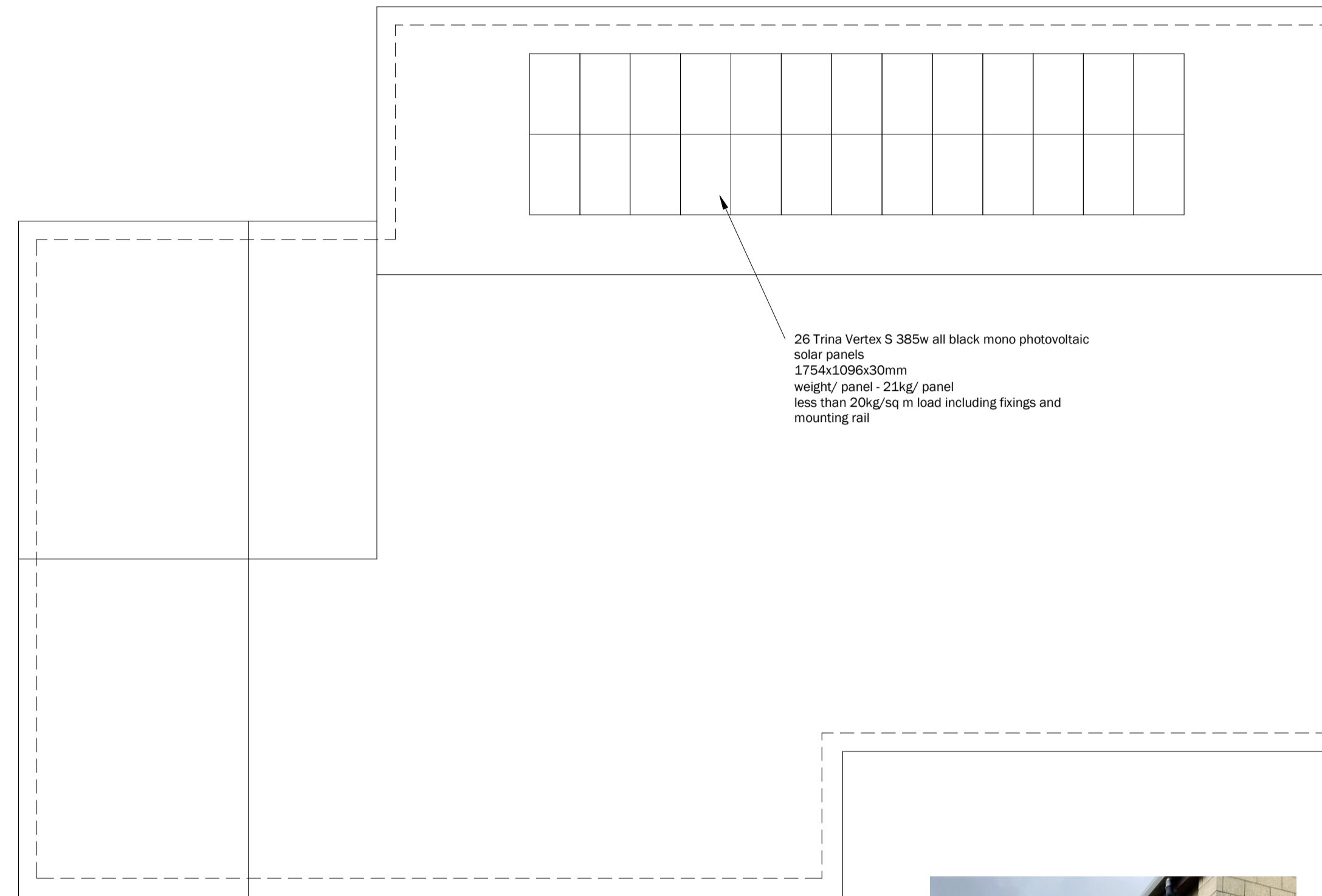
SOLAR PANELS:
26 TRIANA VERTEX S 385W ALL BLACK MONO PHOTOVOLTAIC SOLAR PANELS



client Thornhill Community Hall	project name ASHP's and Solar Panels
drawing title ROBERT PAUL ARCHITECTS	scale As indicated
102 High Street Dunblane FK15 0ER T. 01786 825575 e. info@paul-architects.co.uk	drawn by @ A1 RP
project number 22-06	date 17/5/22
	rev A03

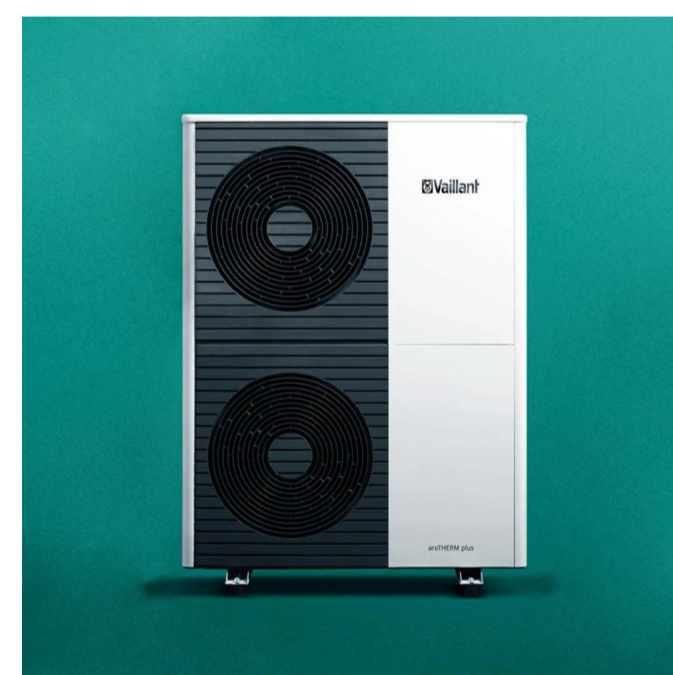


Roof Plan - Existing
1 : 100



Roof Plan - Proposed
1 : 100

26 Trina Vertex S 385w all black mono photovoltaic solar panels 1754x1096x30mm weight/ panel - 21kg/ panel less than 20kg/sq m load including fixings and mounting rail



AIR SOURCE HEAT PUMP



SOLAR PANELS

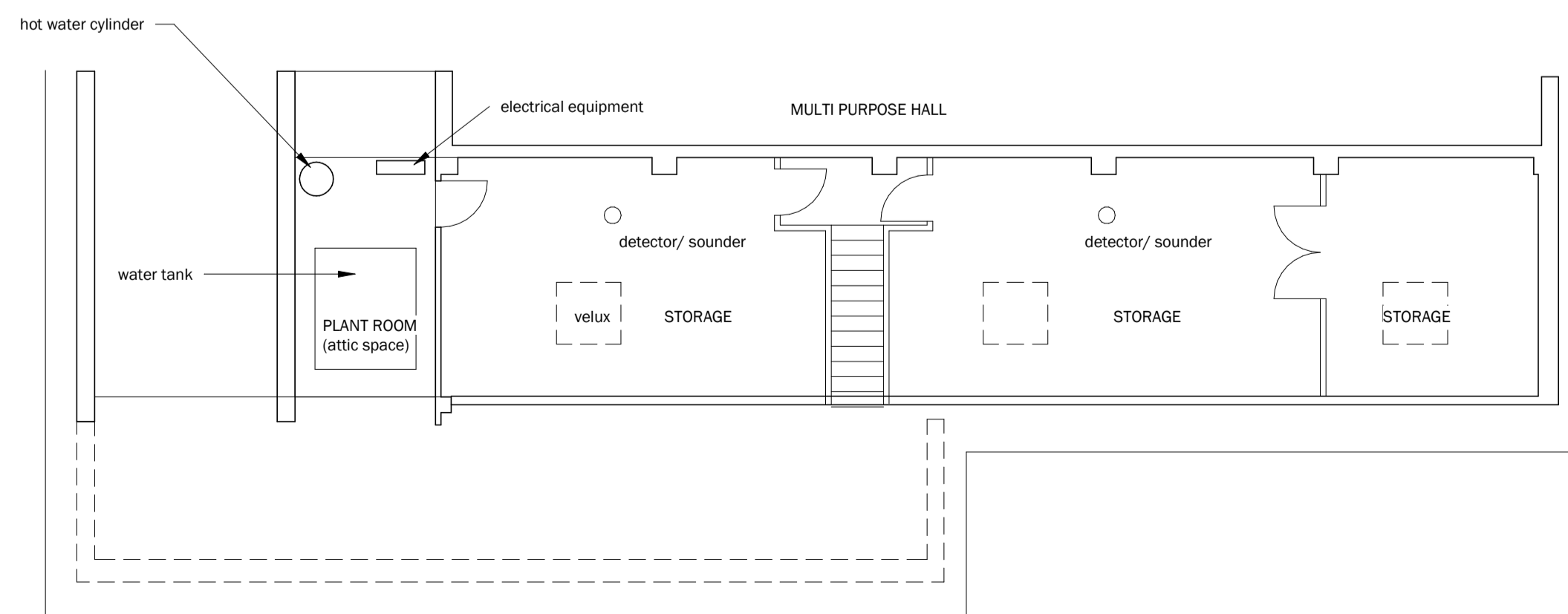


SOLAR PANELS

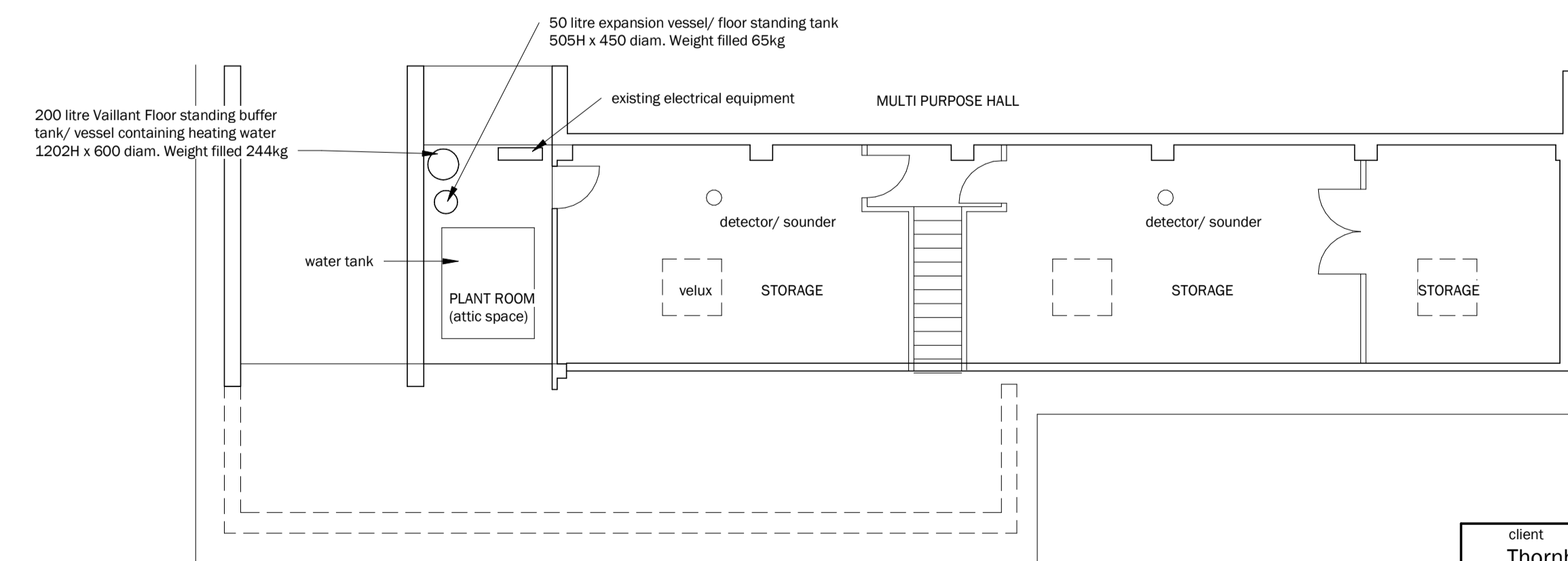
LOCATION OF AIR SOURCE HEAT PUMPS



LOCATION OF ASHP



First Floor - Existing
1 : 100



First Floor - Proposed
1 : 100

200 litre Vaillant Floor standing buffer tank/ vessel containing heating water 1202H x 600 diam. Weight filled 244kg