

Notes to Specification

- 1 St Andrew's Church Biggleswade is a Grade 2 listed building dating from the 12th century under the Diocese of St Albans. All necessary protection must be provided by the Contractor to avoid any loss or damage whatsoever to the Church building fabric, monuments, fixtures or fittings during execution of the works. Contractor is requested to observe due reverence with respect to the sacred nature of the Church.
- 2 Nominal dimensions are shown in mm and metres and must be checked on site prior to tender and installation.
- 3 Drawings must be read in conjunction with the specification.
- 4 New floor and wall mounted LPHW fan convector heaters are to be provided with integral on/off control, fan speed change thermostats and low temperature cutout switch, master and slave control relays, fitted with wheelhead isolation and double regulation valves, units to be secured square to the building fabric with concealed fixings. Heating radiators are to be provided with thermostatic control and lockshield regulation valves.
- 5 Final location of equipment and service routing details are to be agreed with the Church Architect and Engineer before installation.
- 6 All equipment, valves, brackets, supports and services are to be installed securely with the required clearances in accordance with the manufacturer's written instructions and the relevant current Standards & Regulations to ensure satisfactory operation, application of thermal insulation, and service access.
- 7 Surface mounted heating pipework shall be mild steel heavy weight quality specification with theaded or welded joints . Pipework concealed in floor ducts with access shall be copper with capillary or pressed joints. Natural gas pipework shall be mild steel medium weight quality with threaded joints. Surface mounted mains cold water service, heating feed and expansion pipework shall be copper with capillary or compression joints. Insulated and concealed copper pipes may have capillary or pressed joints. Line size isolation and regulation valves provided as indicated on the drawings and elsewhere as necessary. Automatic, manual air vents and drain cocks shall be provided at high and low points respectively as indicated and necessary. Sections of heating and mains cold water services can be drained as necessary during installation.
- 8 Surface mounted heating pipes emitting useful heat shall be uninsulated. All heating and water services pipework in the boiler room shall be insulated. Surface mounted water services pipework shall be uninsulated. Heating and water services pipework concealed in builder's work casings shall be insulated.
- 9 Controls and all necessary electrical work in connection with the mechanical heating installation is to be carried out in accordance with CIBSE recommendations, BS 7671, CBC Guidance Note Electrical Wiring Installations in Churches, current Standards and Regulations including local isolation, containment, equipotential cross bonding and earthing. Wiring is to be concealed where possible utilising existing floor ducts and voids. Plant room wiring is to be contained within galvanised steel trunking or circular conduit as appropriate. General surface mounted wiring in the Church is to be fitted within black metal conduit and sleeved at masonry penetrations. An external tamperproof key operated metal clad double pole switch fuse connection unit with neon indicator shall be be fitted to each fan convector and 2 no underfloor heating manifold cupboards. New lighting is to be provided in the plant room to specification.
- 10 Workmanship and supply of best quality materials is to be maintained at a good standard throughout the Contract works to the satisfaction of the Engineer and Architect. Square, horizontal, vertical and building lines are to be observed.
- 11 Existing obsolete mechanical heating plant, flue system, feed and expansion tank, general equipment, cast iron, steel and copper pipe services, electrical services and controls are to be isolated, disconnected, made safe, dismantled with due care, broken up as necessary, stripped out and removed from site. Existing retained services are to be modified and extended as necessary to suit the new installation.
- 12 Pre-commissioning flushing and cleaning of heating equipment and circuits, hydraulic pressure testing, soundness testing of natural gas services, specialist boiler testing and commissioning, testing and commissioning of controls and electrical installation, balancing of heating circuits and water treatment is to be carried out.
- 13 CDM Regulations, fire precautions, health and safety requirements must be strictly adhered to.
- 14 Drilling of holes in agreed locations up to 50mm diameter and provision of metallic sleeves in the building fabric to assist routing of mechanical, controls and electrical services is to be carried out by the Contractor in approved manner.
- 15 Builder's work throughout the Church heating installation is to be carried out by a nominated specialist building subcontractor in accordance with a schedule of works and specification prepared by the Church Architect. Sizes indicated are clear internal dimensions.
- 16 Builder's work in and associated with the plant room heating installation is to be carried out by a specialist building subcontractor in accordance with the mechanical drawings and specification. Refurbishment of the basement plant room is to provide a dry and dust-free environment for satisfactory operation of new plant and equipment. Sizes indicated are clear inside dimensions.
- 17 Engraved rectangular laminated plastic labels fitted to control and electrical equipment, test certificates, record 'as installed' drawings of heating, controls and electrical services, user, operating and maintenance instruction manuals provided.

0 0.5 1 2 3 4

1:50 scale metres

C	Pre Tender Information	28.10.22
В	Information	15.10.22
А	Preliminary	16.9.22
REV	DETAILS	DATE

Project ST ANDREW'S CHURCH BIGGLESWADE						
James Sheehan M&E BUILDING SERVICES CONSULTING ENGINEERS Orchard House 17 Ivy Lane Finedon Northants NN9 5NE telephone 01933 681084 email jes@jesce.co.uk						
Scale	Size	Date	Drawing no	Revision		
1:50	A0	28 Oct 22	1308/M/3	С		
Title NEW LPHW HEATING AND INDICATED BUILDER'S WORK IN CONNECTION						