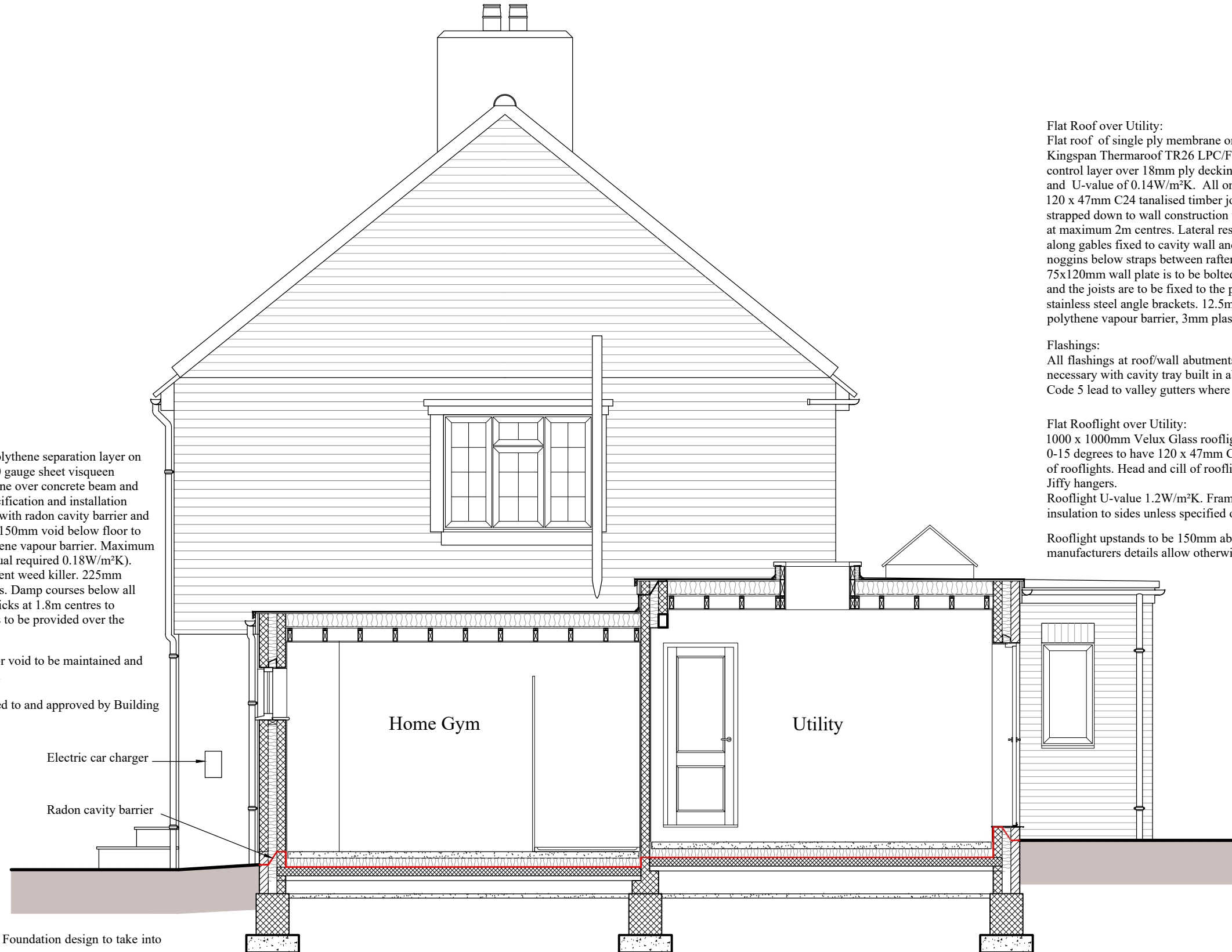


0.5m 1.0m 1.5m 2.0m 2.5m 3.0m 3.5m 4.0m 4.5m 5.0m



**Ground Floor to Utility/Home Gym:**  
 75mm cement/sand screed on 500 gauge polythene separation layer on 100mm CelotexGA4000 insulation on 1600 gauge sheet visqueen combined DPM and Radon barrier membrane over concrete beam and block floor to BS110 to manufacturers specification and installation details. Radon membrane to be continuous with radon cavity barrier and existing damp proof membrane. Minimum 150mm void below floor to 50mm sand blinding on 1200g sheet polythene vapour barrier. Maximum U-value for Ground Floor 0.18W/m<sup>2</sup>K (actual required 0.18W/m<sup>2</sup>K). Ground below floor treated with pre-emergent weed killer. 225mm brickwork below internal load bearing walls. Damp courses below all floor bearings. 225x75mm telescopic air bricks at 1.8m centres to ventilate suspended floor void. Cavity trays to be provided over the telescopic sub floor vents.

Floor ventilation to existing suspended floor void to be maintained and continuous with extension floor ventilation.

Beam and block floor design to be submitted to and approved by Building Control prior to installation.

Electric car charger  
 Radon cavity barrier

**Foundations:**  
 Foundations to structural engineer's design Foundation design to take into account of trees or shrubs within 40m.

**Trees:**  
 Details of any trees or shrubs within 35m of the extension that may affect the depth or design of the foundations are to be notified to the building inspector. Information to include: type of tree, distance from foundations and proposed depth of foundations.

**Flat Roof over Utility:**  
 Flat roof of single ply membrane on 18mm ply decking over 150mm Kingspan Thermaroof TR26 LPC/FM K on high performance vapour control layer over 18mm ply decking to provide warm roof construction and U-value of 0.14W/m<sup>2</sup>K. All on furring pieces to falls of 1 in 40 on 120 x 47mm C24 tanalised timber joists on 100x75mm wall plate strapped down to wall construction with 30x 5mm galvanised steel straps at maximum 2m centres. Lateral restraint straps 30x5mm at 2m centres along gables fixed to cavity wall and across 3no. rafters. Solid timber noggins below straps between rafters. At existing external wall of house a 75x120mm wall plate is to be bolted to wall using expanding rawlbolts and the joists are to be fixed to the plate with Simpson Strong -Tie stainless steel angle brackets. 12.5mm foil backed plasterboard ceiling on polythene vapour barrier, 3mm plaster skim coat.

**Flashings:**  
 All flashings at roof/wall abutments to be Code 4 lead cut and dressed as necessary with cavity tray built in above.  
 Code 5 lead to valley gutters where applicable.

**Flat Rooflight over Utility:**  
 1000 x 1000mm Velux Glass rooflights with curved glass, for roof pitches 0-15 degrees to have 120 x 47mm C24 timber joists 'doubled-up' at sides of rooflights. Head and cill of rooflight trimmed with joists doubled-up on Jiffy hangers.  
 Rooflight U-value 1.2W/m<sup>2</sup>K. Frame upstands to have 50mm Celotex insulation to sides unless specified otherwise by manufacturer

Rooflight upstands to be 150mm above roof covering unless manufacturers details allow otherwise.

project <b>GARAGE CONVERSION</b> 27 BRIDGE STREET WYE KENT TN25 5ED	client <b>MS LYDIA PRENTICE CHALLIS</b>		drawing title <b>SECTION B-B</b>		<b>WYNDHAM JORDAN ASSOCIATES</b> PAT JORDAN BA (HONS) DIP ARCH (HONS) PT 3 CERT Heron House 8 Faversham Reach, Upper Brents Faversham, Kent ME13 7LA Telephone: 01795 530 697 Mobile: 07961 240 541
	scale <b>1:50 @ A3</b>	date <b>SEPTEMBER 2025</b>	drawing no. <b>BS2507.11</b>	amendments	