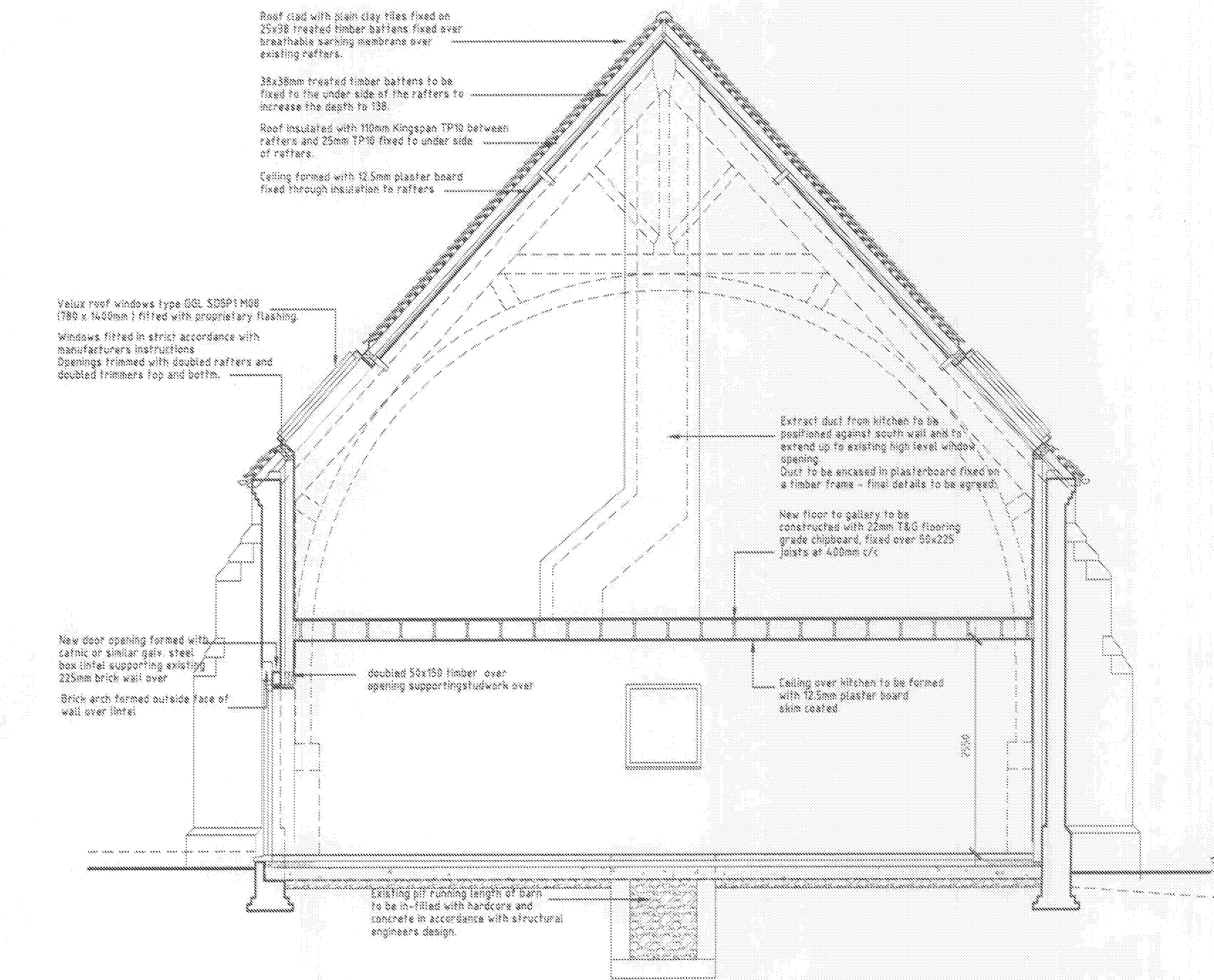
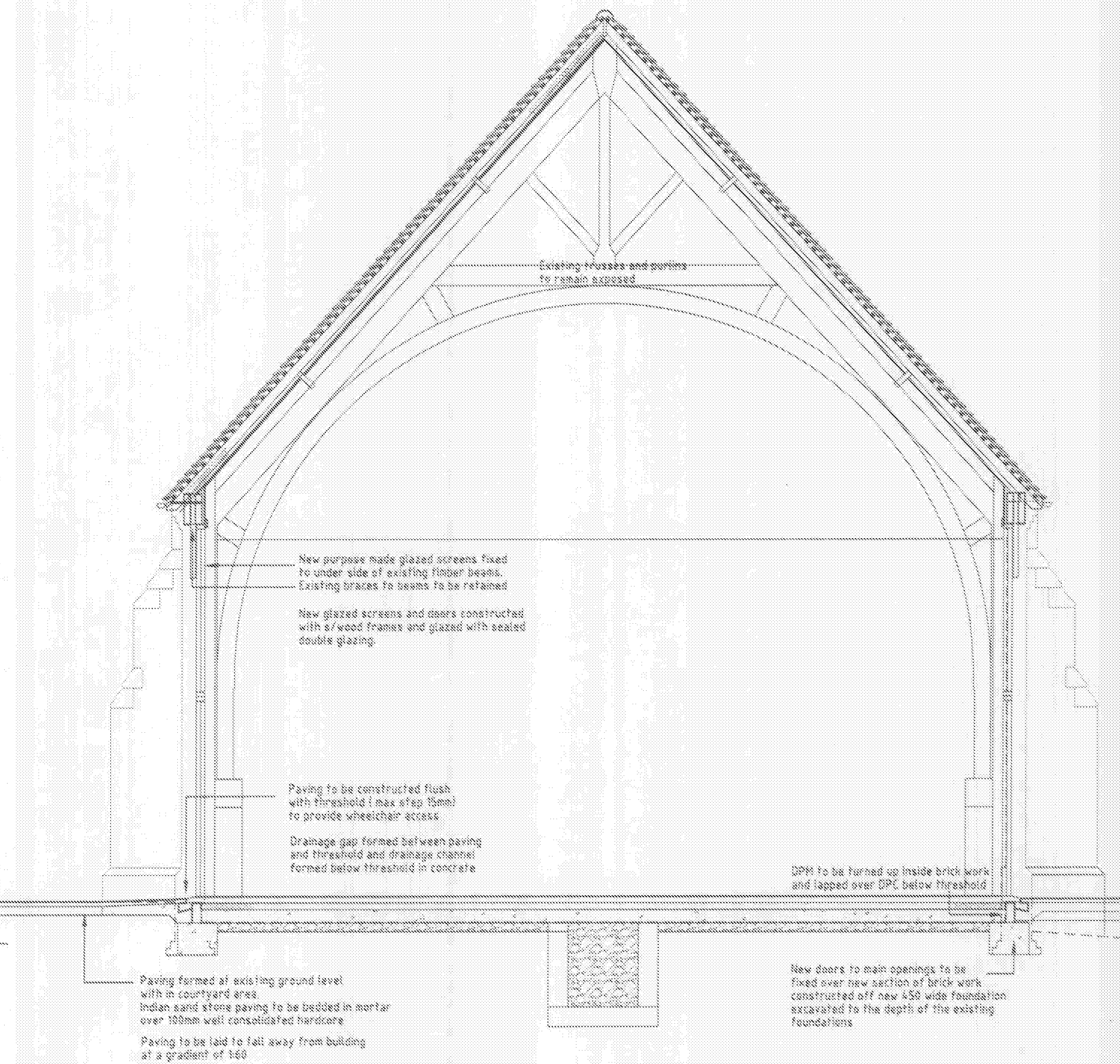
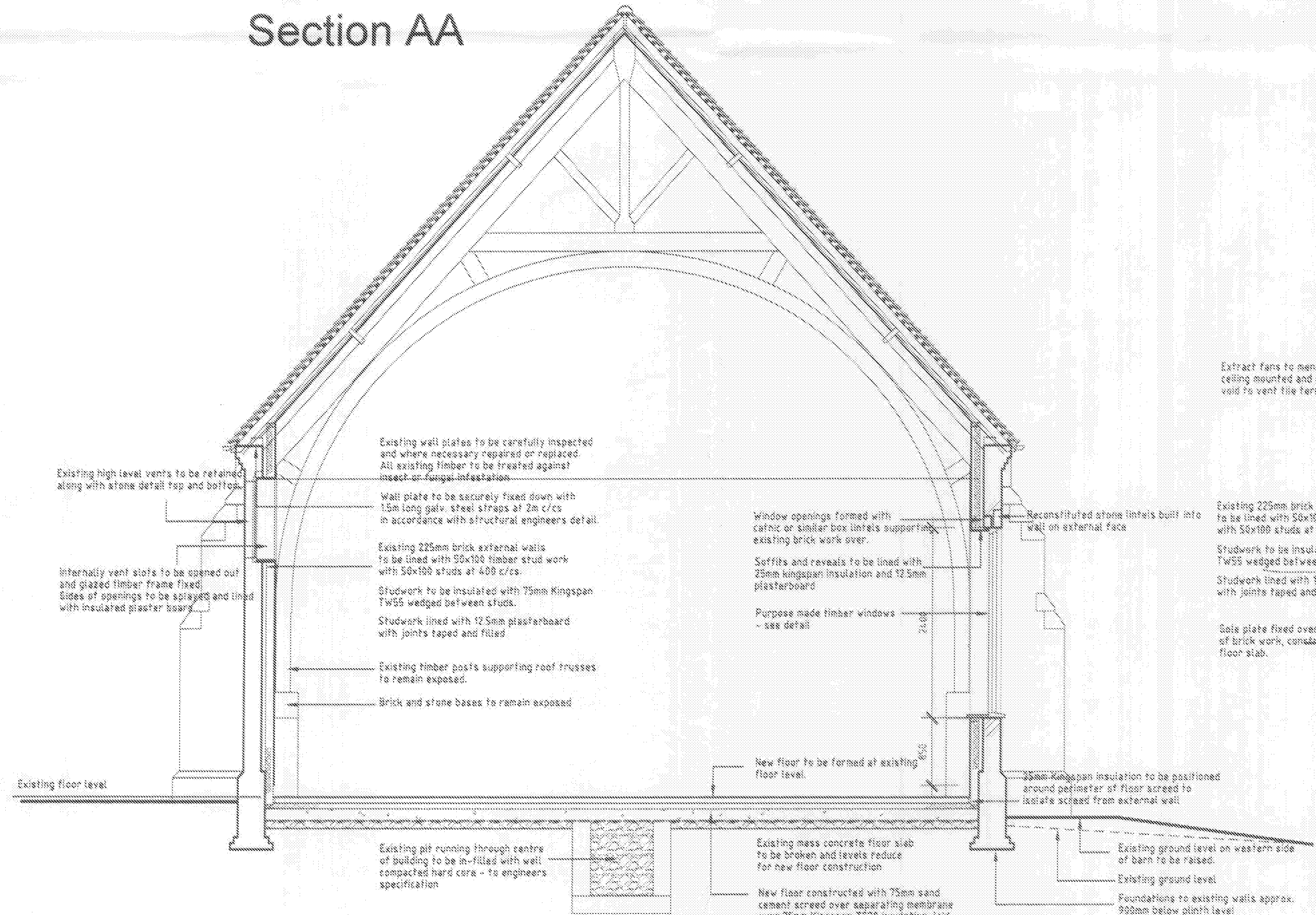




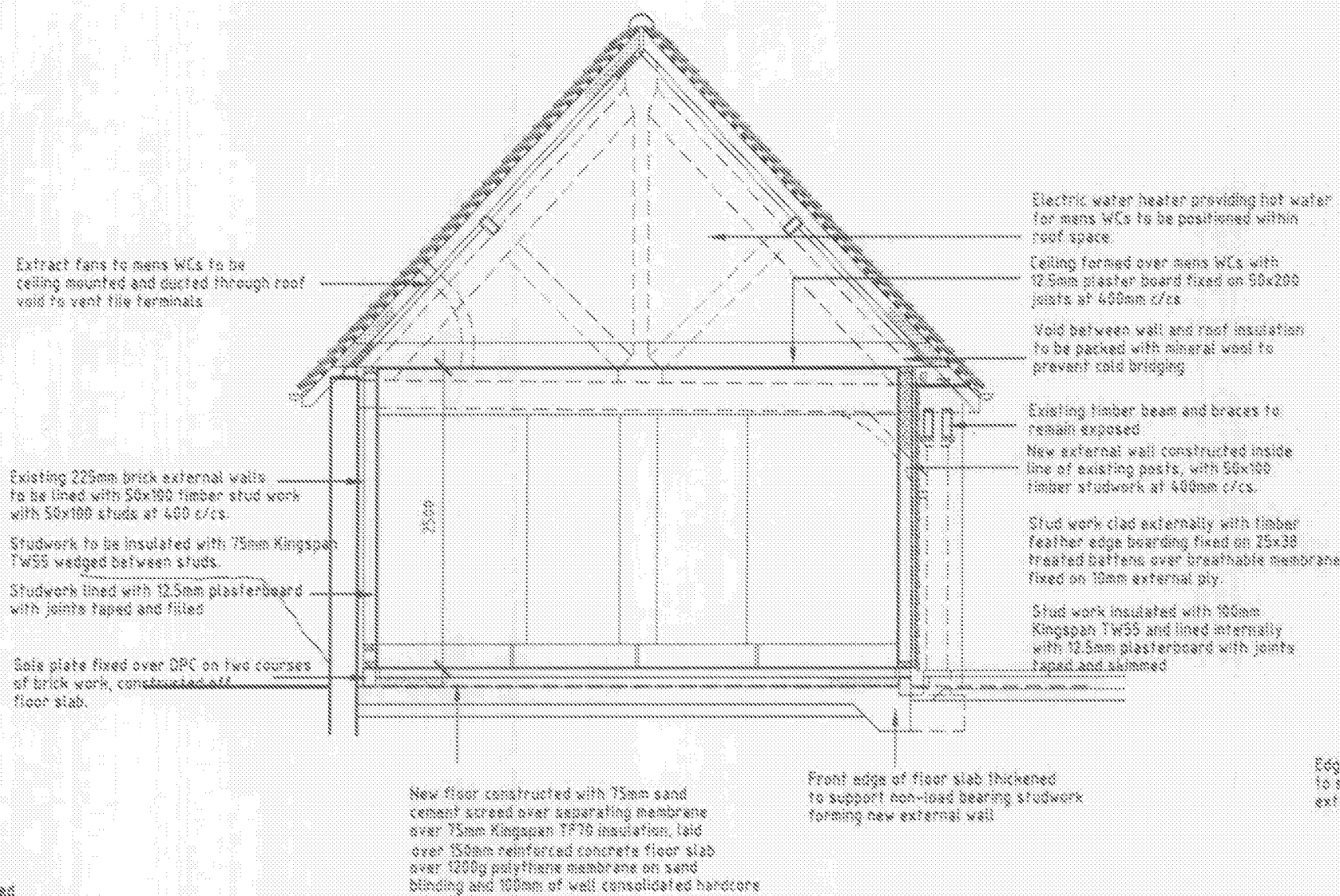
Section AA



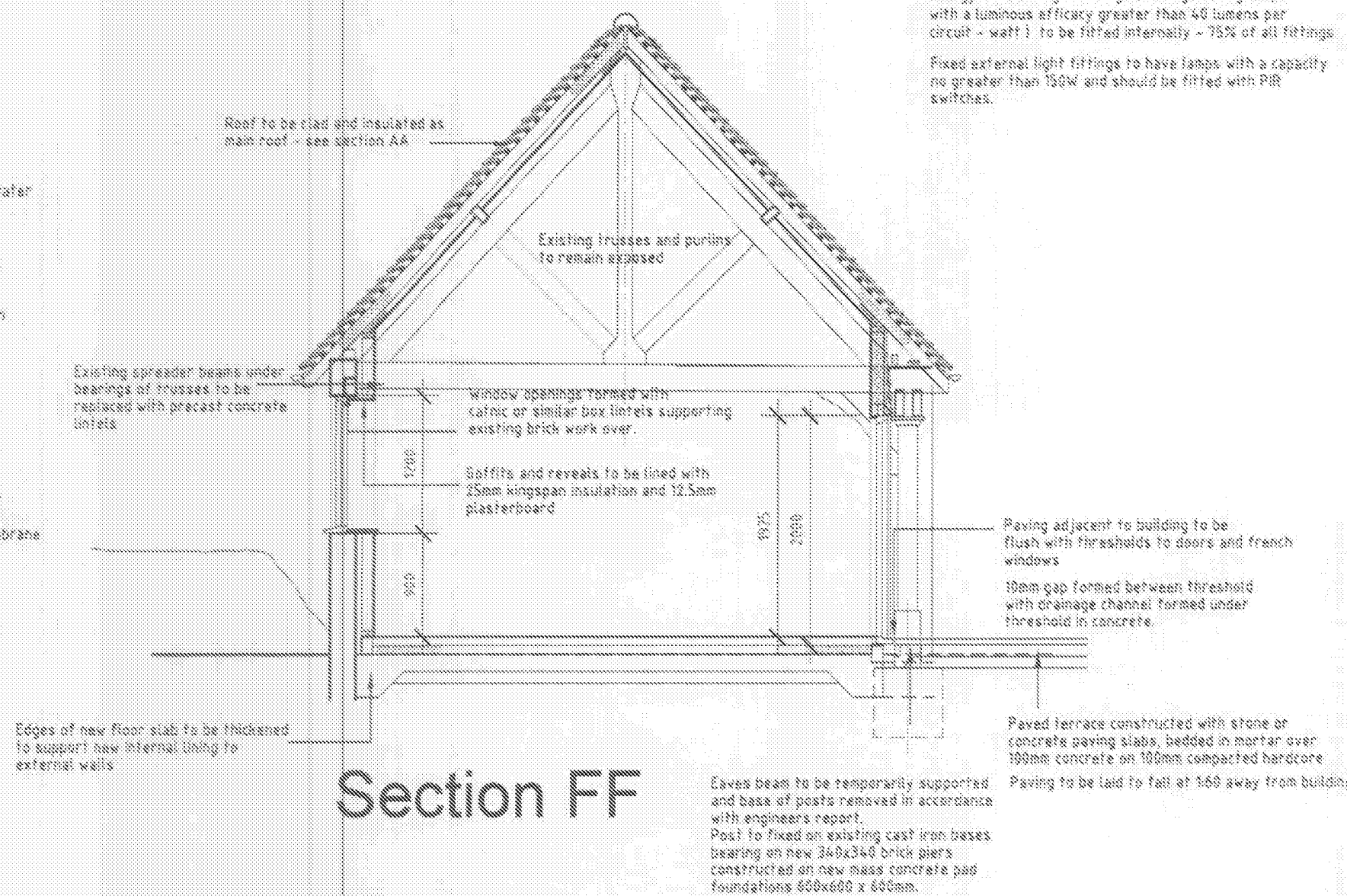
Section CC



Section BB



Section GG



Section FF

GENERAL NOTES

Foundations

Load bearing external walls constructed off mass concrete trench fill foundations 600mm wide and to a min depth of 1m. Load bearing internal walls to be constructed off 450 wide mass concrete trench fill foundation

Wall construction

Existing 225mm brick walls to be lined with 50x100mm studwork at 400mm c/c's. Studwork insulated with 75mm Kingspan TW55 and lined with 12.5mm plasterboard. 55 mm cavity formed between existing brick work and new studwork. Sole plate to stud work fixed over DPC over existing concrete floor slab. New section of wall to south elevation of Ceremony room to be constructed with 50x80 timber stud work at 400mm c/c's. Studwork to be insulated with 100mm Kingspan TW55 and lined with 12.5mm plasterboard skim coated. Studwork to be clad externally with timber feather edge boarding, fixed on 25x38 treated timber vertical battens fixed over breathable building paper over 12.5mm external ply or OSB

Ground Floor

Existing concrete floor to be broken up and removed. Levels to be reduced and new floor constructed with 75mm sand/cement screed laid over separating membrane over 150mm Kingspan TP10 insulation. Insulation laid over 150mm mass concrete floor slab laid over 100mm min. well consolidated hardcore. 25mm Kingspan insulation to be fixed around perimeter of screed to prevent cold bridging. Movement joints to be positioned within concrete floor and screed in accordance with engineers details. Under floor heating pipes to be laid over floor insulation within screed. Lay out of under floor heating pipes to allow for movement joints and detail at movement joints to be in accordance with manufacturers recommendations

Internal walls

Internal wall to both ends of main barn to be constructed to support new areas of gallery and to be constructed in 100mm concrete block work off mass concrete foundation 450mm wide and to a min depth of 90. Non load bearing internal partitions to be constructed with 50x100 timber studwork at 400mm c/c's, lined on both sides with 12.5mm plasterboard (Gyproc wallboard TEN 1. Sound insulation provided by 100mm dense mineral wool between studs (10kg/m3)

Roof

Existing roof covering to be stripped off and tiles set aside for re-use. Existing rafters to be replaced/ repaired where necessary and all existing timbers treated against fungal and insect infestation. 50x36mm treated timber battens to be fixed to the underside of the rafters to increase the depth to 130. Roof to be re-clad with clay plain tiles fixed on 36x25 treated timber battens fixed over breathable sarking membrane - Tyvek or similar. Roof insulated with 100mm Kingspan TP10 fixed between rafters and 25mm Kingspan TP10 fixed under rafters. Ceiling formed with 12.5mm plaster board with joints taped and skimmed. Roof vented via breathable sarking membrane. 28mm vent gap maintained between rafters over insulation

Heating and Ventilation

Design for heating, hot water, ventilation etc to be provided by M+E consultant.

Access and facilities for the disabled:

2No disabled parking bays to be provided adjacent to access from parking area to building. Access to the building from carpark to be via pavement approx. 2m wide with a gradient no steeper 1:30 with a paved surface suitable for wheelchairs. Main entrance door to have a clear opening width of no less than 1000mm. Internal doors at ground floor level to have a clear opening width of no less than 800mm. All light switches and socket outlets to be positioned at a height between 450 and 1200 above floor level. Where internal floor levels change (approx 150mm) a ramp is to be with a gradient of 1:12, and a min width of 1500mm, with a level landing 1200mm up, at top and bottom. A handrail to be fixed to walls on both sides of ramp at a height of 90.

Smoke Detection.

Hard wired smoke detectors (with battery backup) ☺

Emergency lighting

Emergency lighting to be fitted in all WCs, kitchen and adjacent to all escape routes. Emergency lighting to be fitted adjacent to external escape routes. All emergency lighting to be to be installed in accordance with BS 5266-1:2009.

Plumbing and drainage:

Waste sizes to be: WC 100mm dia, baths showers and sinks 40mm dia. and LB's 32mm dia. all fitted with 75mm deep seal traps, at to BS 5254: 1976 and fitted in accordance with BS 5572:1978. All wastes connected into 100mm 50/VP's or stub stacks fitted with air admittance valves. Stacks connected at ground level to 100mm UPVC drains fix BS 4680:1989 laid to fall at 1:80, bedded and encased in 100mm pea shingle. Note: final drain runs and falls to be determined on site to suit site levels and design adjusted accordingly. 450 dia UPVC inspection chambers to be fitted at junctions in accordance with manufacturers instructions. See floor plan for locations

Surface Water Drainage

100mm half round powder coated aluminium gutters discharging into 75mm dia down pipes. Down pipes to be connected at ground level into 100mm UPVC surface water drains laid to fall at 1:100, bedded and encased in pea shingle.

Windows

All doors and windows to be timber with sealed double glazed units, with argon and low E coating (providing a U-Value of 1.4 W/m2K) Front door, french windows and windows within critical areas (see elevations) to be glazed with toughened glass to BS 6206

Electrics

All electrical works to be designed installed and inspected in accordance with the British Standard 1771:1 the IEE Wiring Regulations by a qualified electrician, who should be a member of the following organisations: - BRE Certification Ltd - British Standards Institution - ELECA Limited - NICEIC Certification Services Ltd - Zurich Certification Limited.

Note

Energy efficient light fittings (fittings taking lamps with a luminous efficacy greater than 40 lumens per watt) - wall 1 to be fitted internally - 75% of all fittings. Fixed external light fittings to have lamps with a capacity no greater than 100W and should be fitted with PIR switches.

Rev B Floor level and construction within main barn amended, external ground levels indicated
Rev A Amended for building regulations submission

REVISION

PROJECT
Conversion of existing barn at Long Furlong Farm, Patching

SUBJECT
Sections (sheet 1 of 2)

SCALE 1:50	DATE Nov 2011	DRAWN BY 11 / 16 / 11	Revised By B
DRAWN	CHECKED		

R J C A
CHARTERED ARCHITECTS

LIME KILN BARN
COLWORTH
CHICHESTER
WEST SUSSEX
PO20 6DS

Tel 01243 787011
Fax 01243 787022