Roof construction:

Natural slate roof finish to be installed on 25x50 fully treated battens on Tyvek or similar breathable sarking with eaves carrier on rafters and principal trusses at max. 2.000 cts. constructed of :
47x100 rafters
47x125 ceiling/bottom ties
75x150 purlins
75x150 ceiling beam
47x100 hanger at each truss to support ceiling beam from ridge
32x150 main collars supporting purlins
25x100 collars at ridge
32x150 ridge beam
Infill rafters between trusses to be 47x100 at max. 400mm cts.
Infill ceiling joists between trusses to be 47x125 at max. 400mm cts.
Any existing retained timbers are to be checked for rot or beetle attack and where needed they should be replaced. All existing retained roof timbers should also be treated with a suitable preservative, brush or spray applied.
All new structural timber to be grade SC3 marked dry or kiln dry.
Install 30x5mm mild steel straps at average 2.000 cts. Between external walls and principal trusses.

Roof insulation:

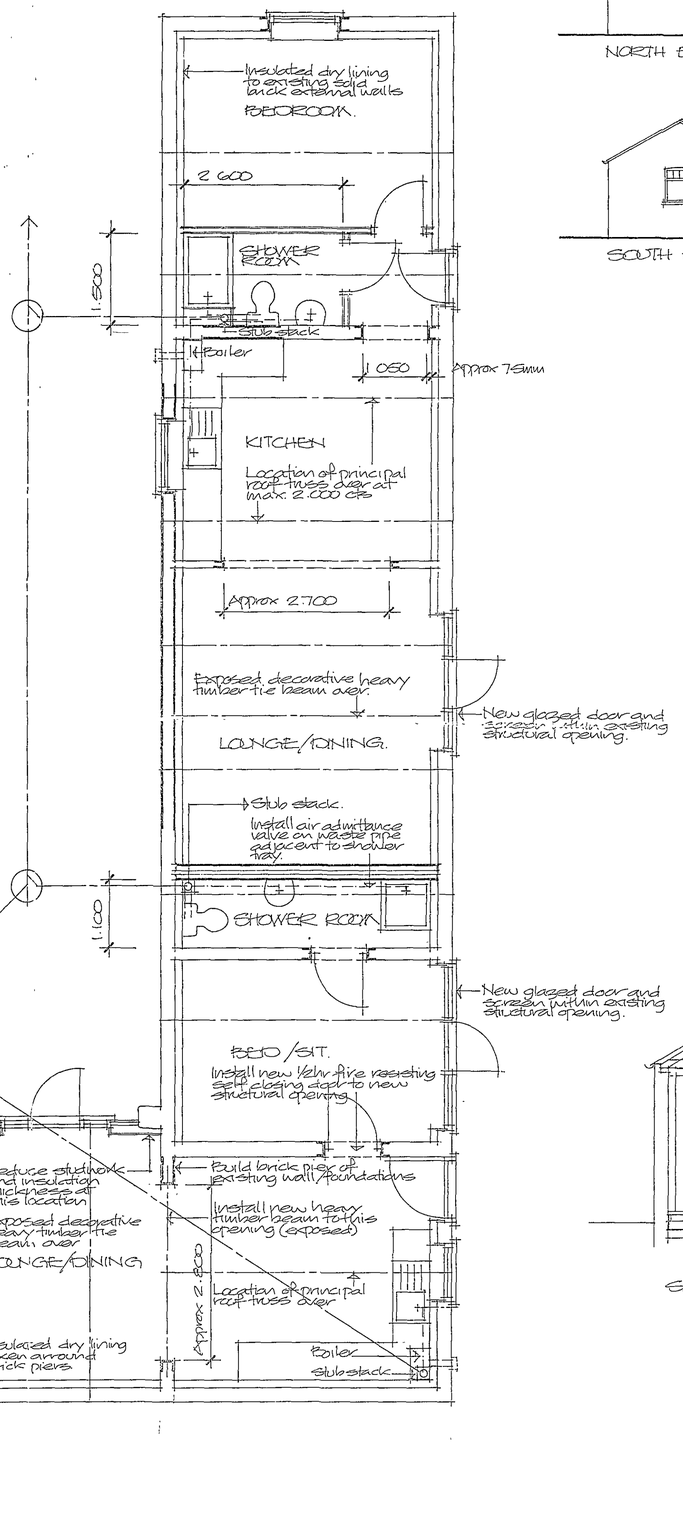
Install 100mm thick fibreglass quilt insulation between ceiling ties and 200mm thick quilt over ties to all ceilings.

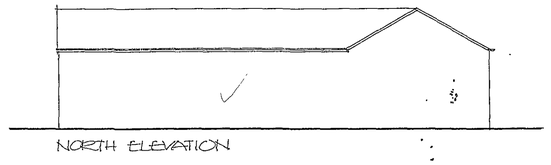
Ceilings:

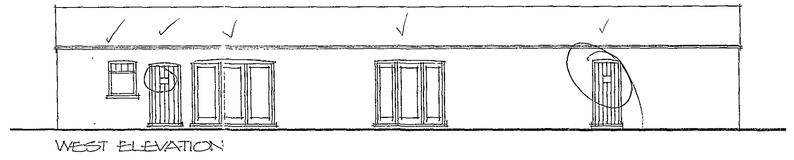
New ceilings to be formed of 12.5mm thick Gyproc Wallboard 10 plasterboard throughout with skim finish. Plasterboard perimeters to be supported.

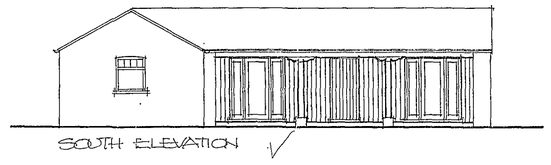
External brick walls (insulation):

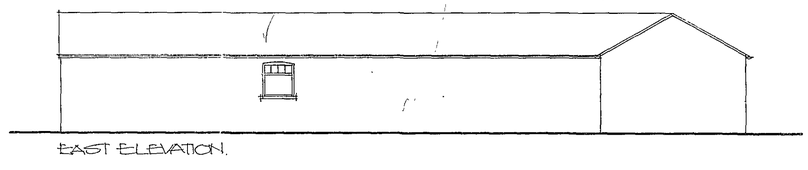
Insulation of external brick walls to be formed of Tyvek or similar breather membrane mechanically fixed to inside face of brickwork, 50mm thick Dow foam insulation board and 75mm thick metal studwork with 75mm thick Dritherm insulation batts installed between studs with internal finish of 12.5mm thick Gyproc Wallboard 10 plasterboard with skim finish. The Dow insulation board is held in place with the metal studwork.
Refer to detail for construction of timber framed wall and the method of insulating this wall.

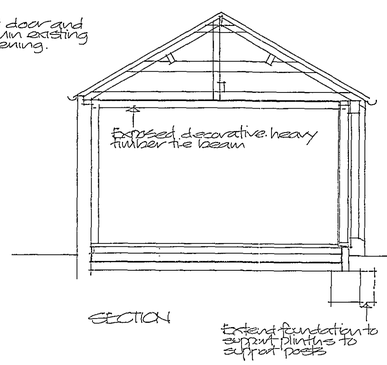


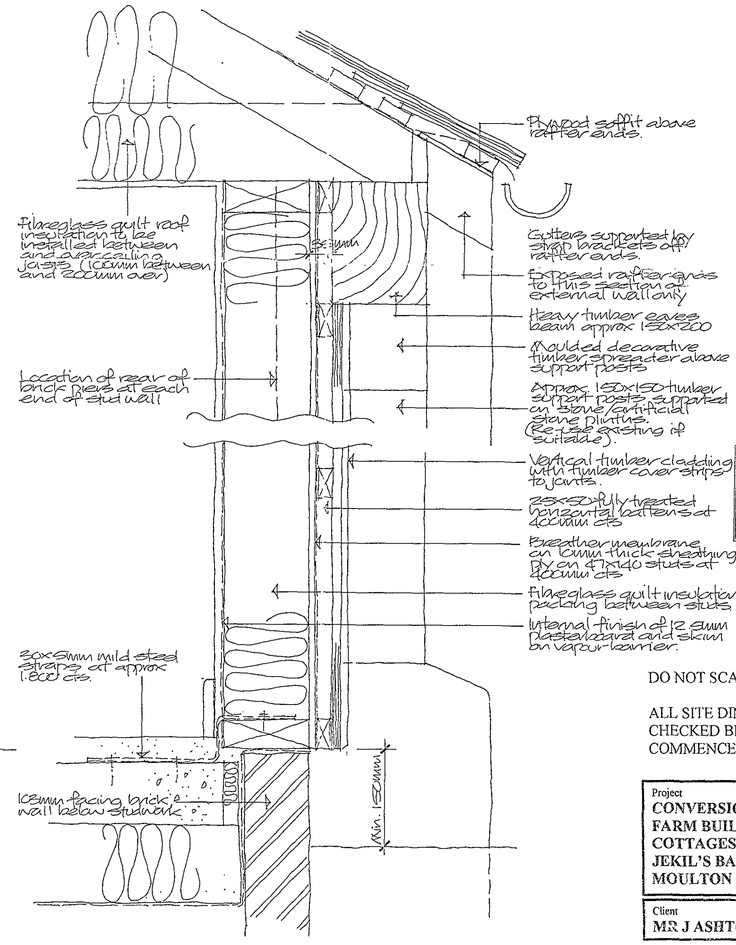












DETAILED SECTION THROUGH TIMBER FRAMED EXTERNAL WALL

DETERMINED PLAN

SHDC
Planning & Development
- 6 DEC 2007
Ref: 1606/07

DO NOT SCALE OFF THIS DRAWING

ALL SITE DIMENSIONS TO BE CHECKED BEFORE WORK COMMENCES

Project
CONVERSION OF REDUNDANT FARM BUILDING INTO HOLIDAY COTTAGES AT STENNETTS FARM, JEKIL'S BANK, MOULTON EAUGATE.

Client
MR J ASHTON (H K GOTT & SONS)

ALAN HORNSBY
ARCHITECTURAL SERVICES LTD
"Little Acre"
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Scale 1:50 &1:100 Drg. no 07/64/01
Date December 2007