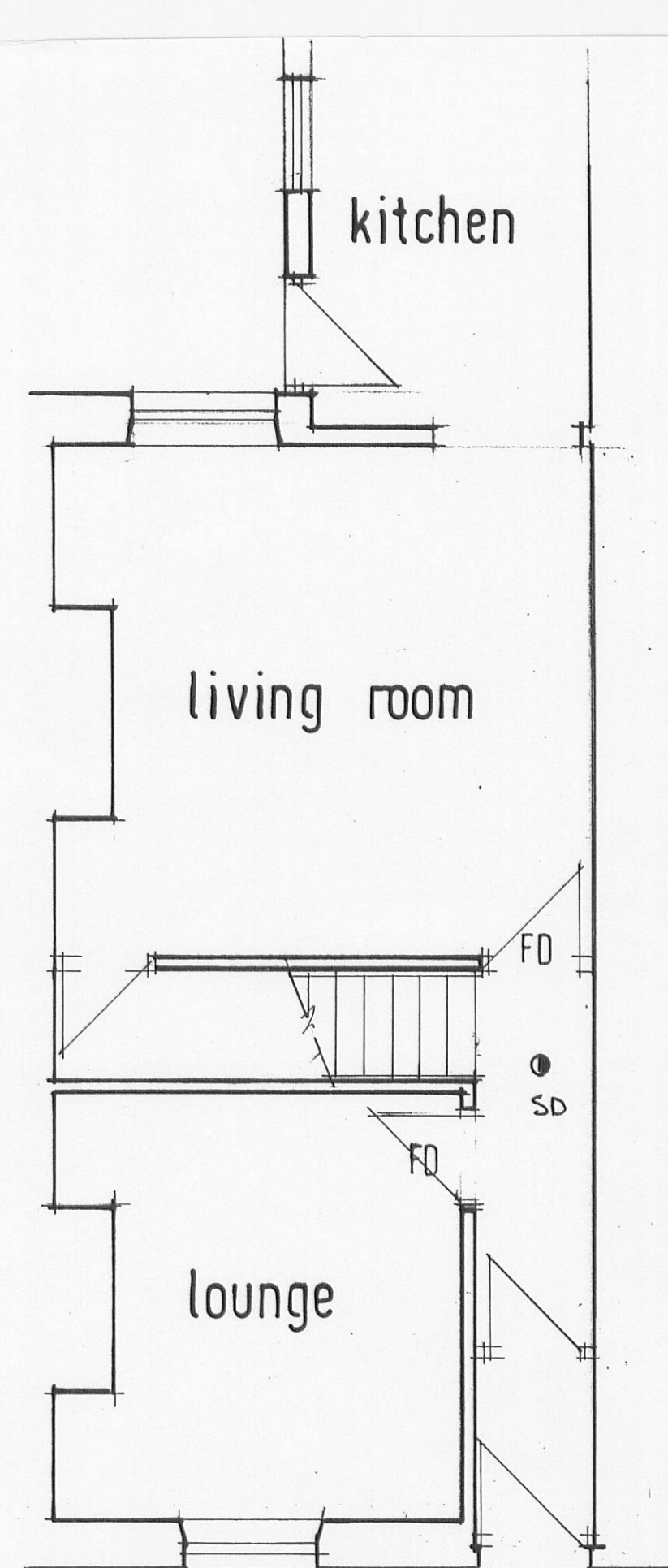
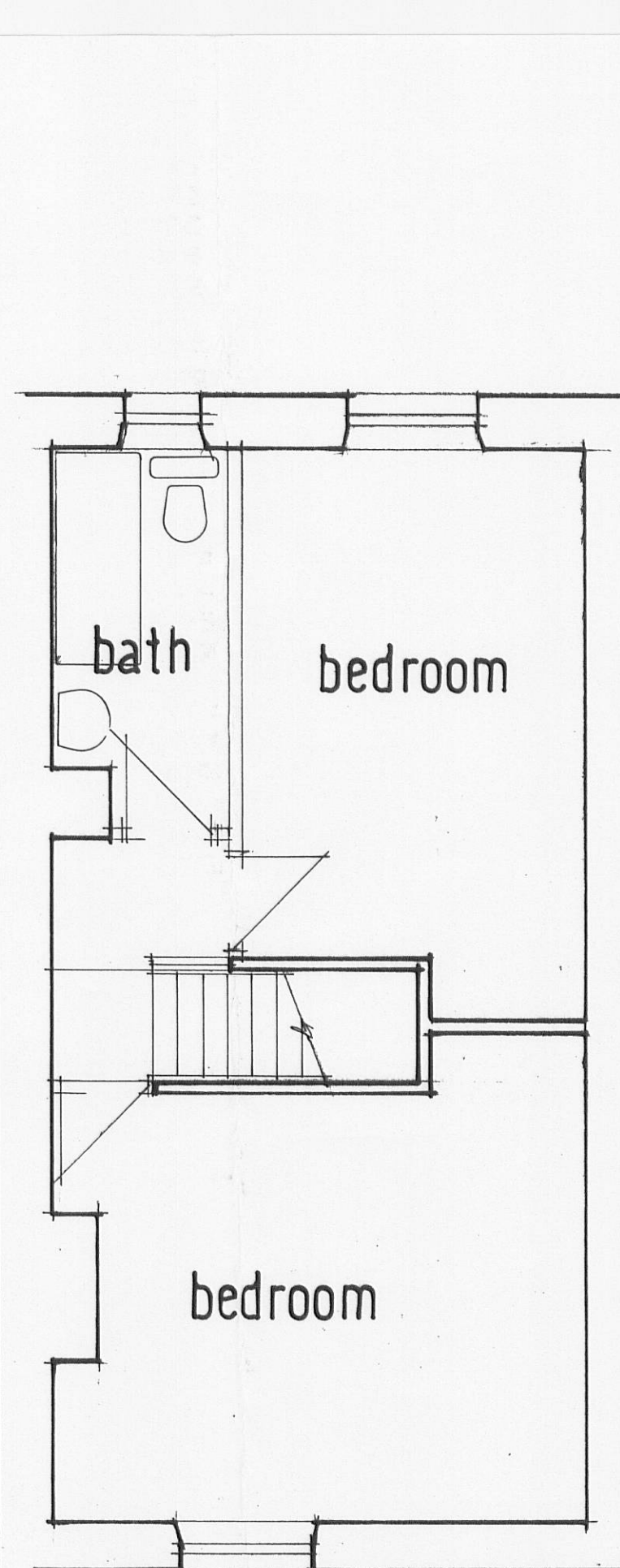
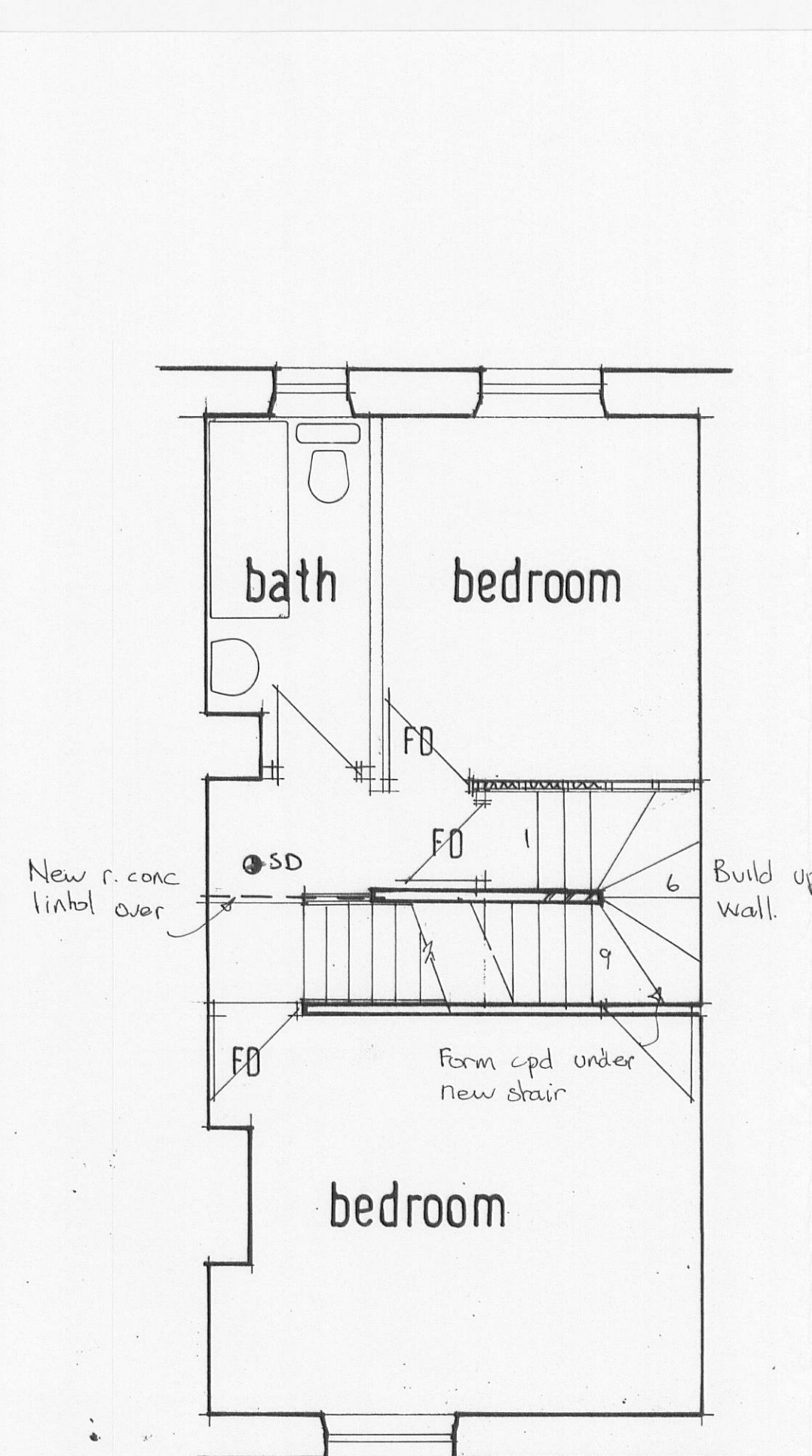




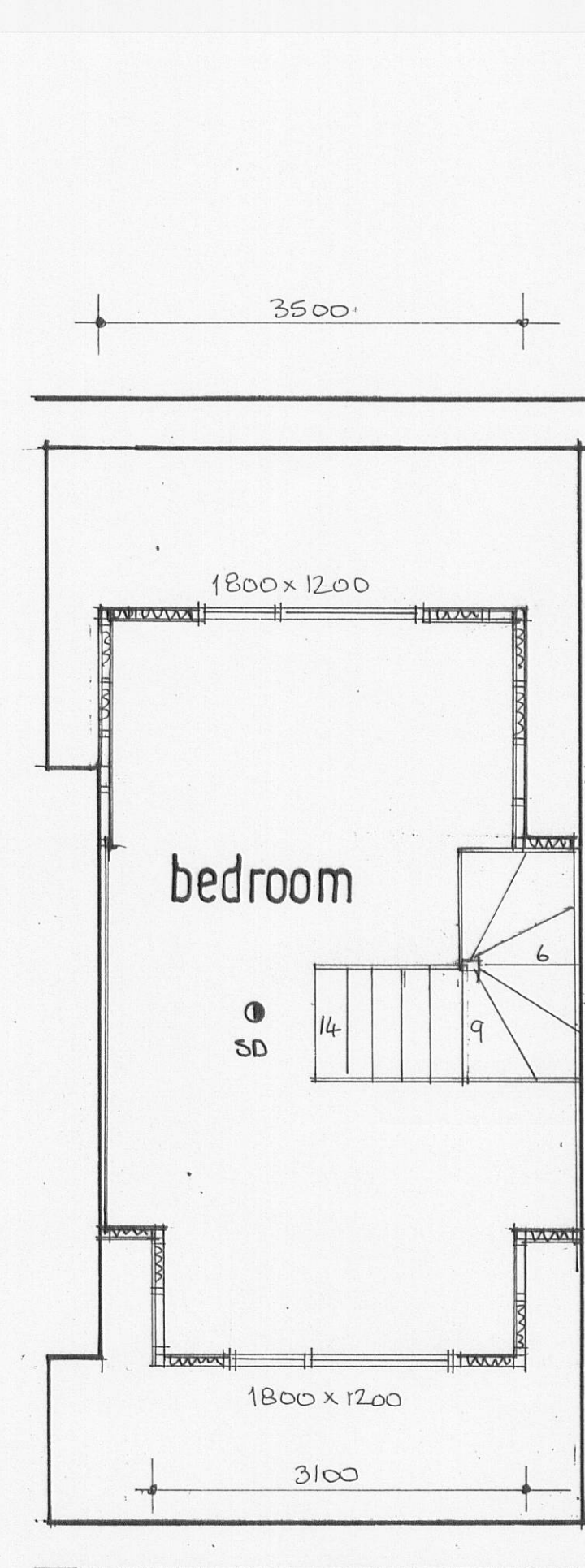
ground floor plan



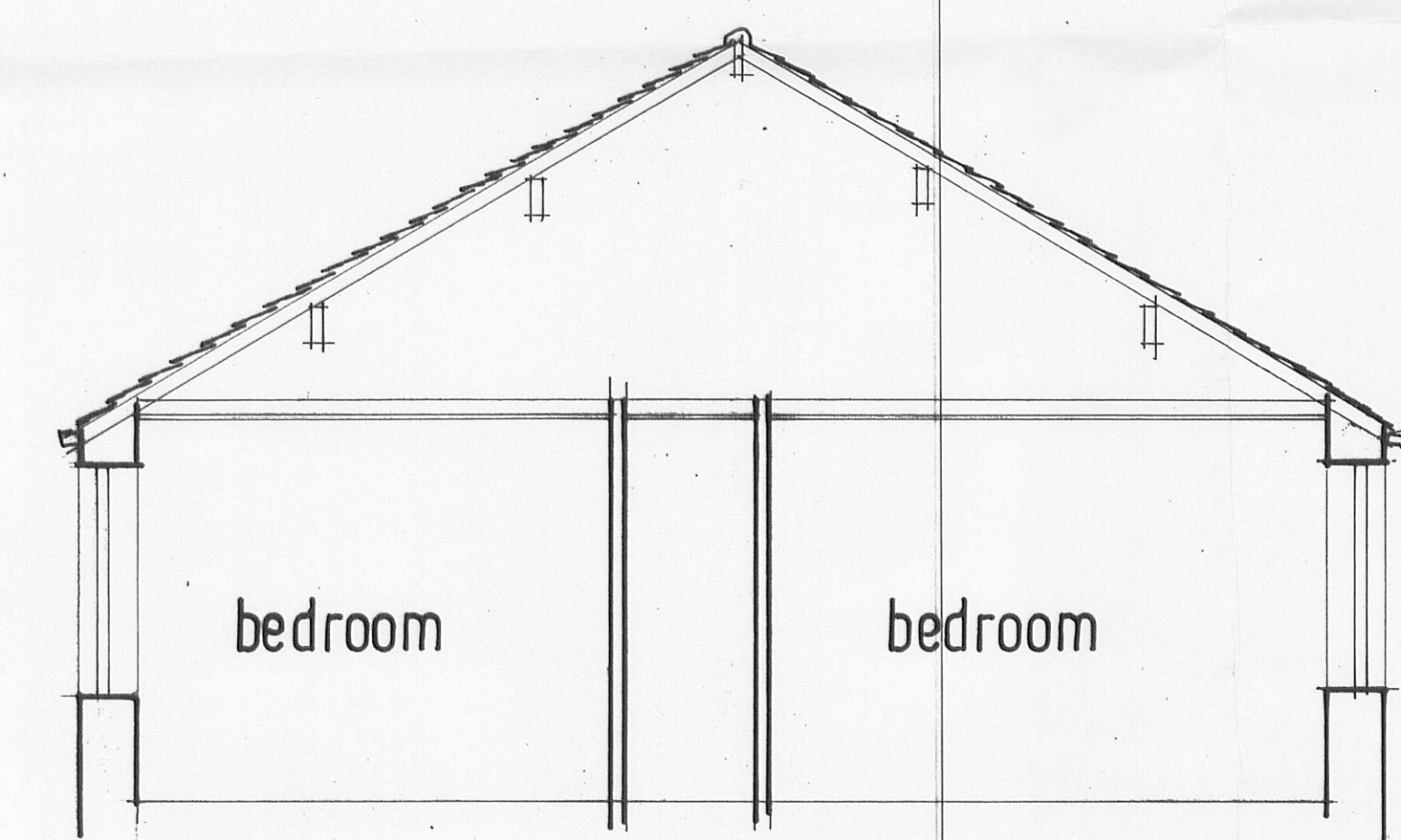
existing first floor



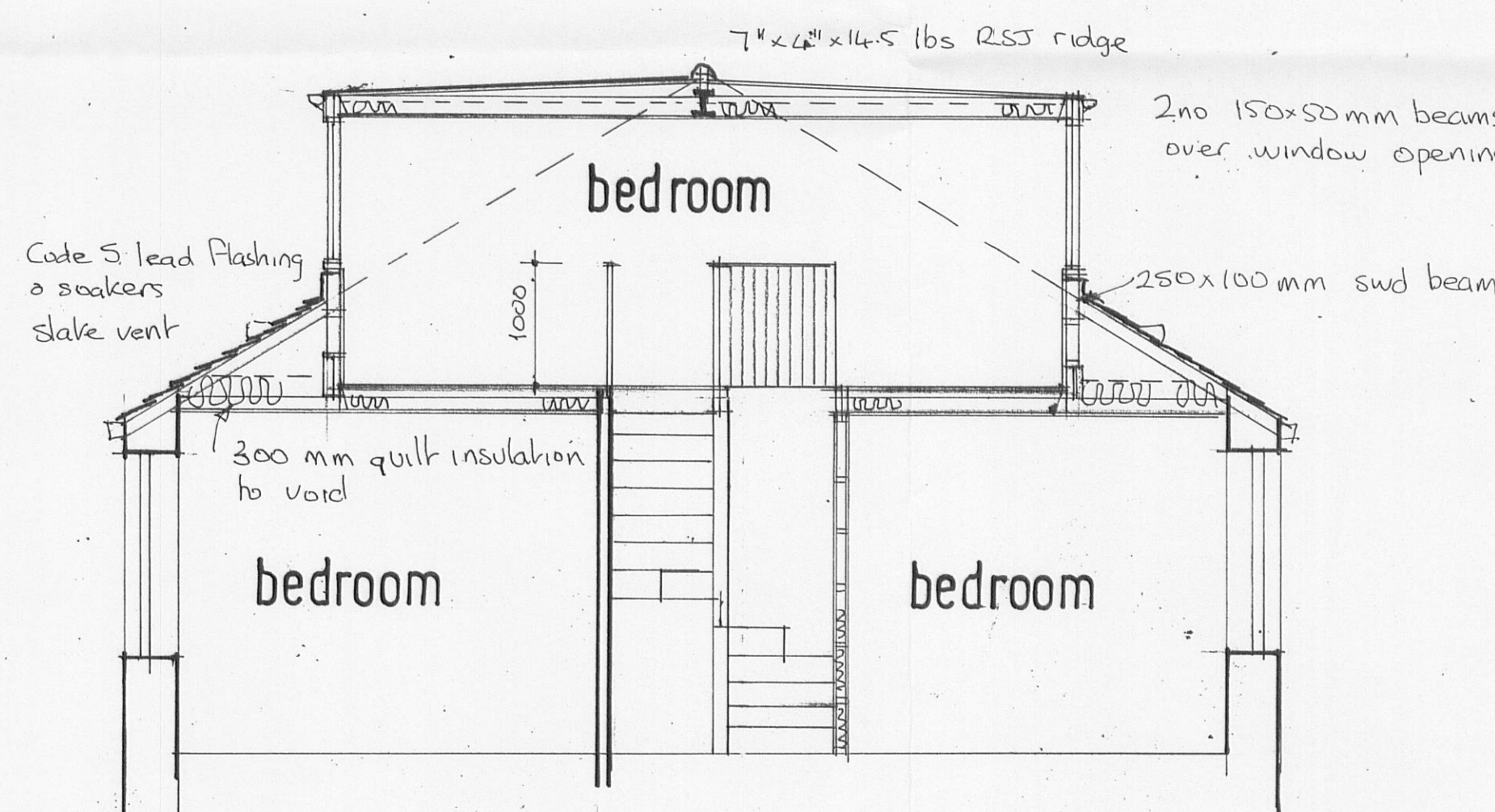
proposed first floor



proposed second floor



existing section



proposed section

FLOOR SUPPORT BEAM CALCULATIONS

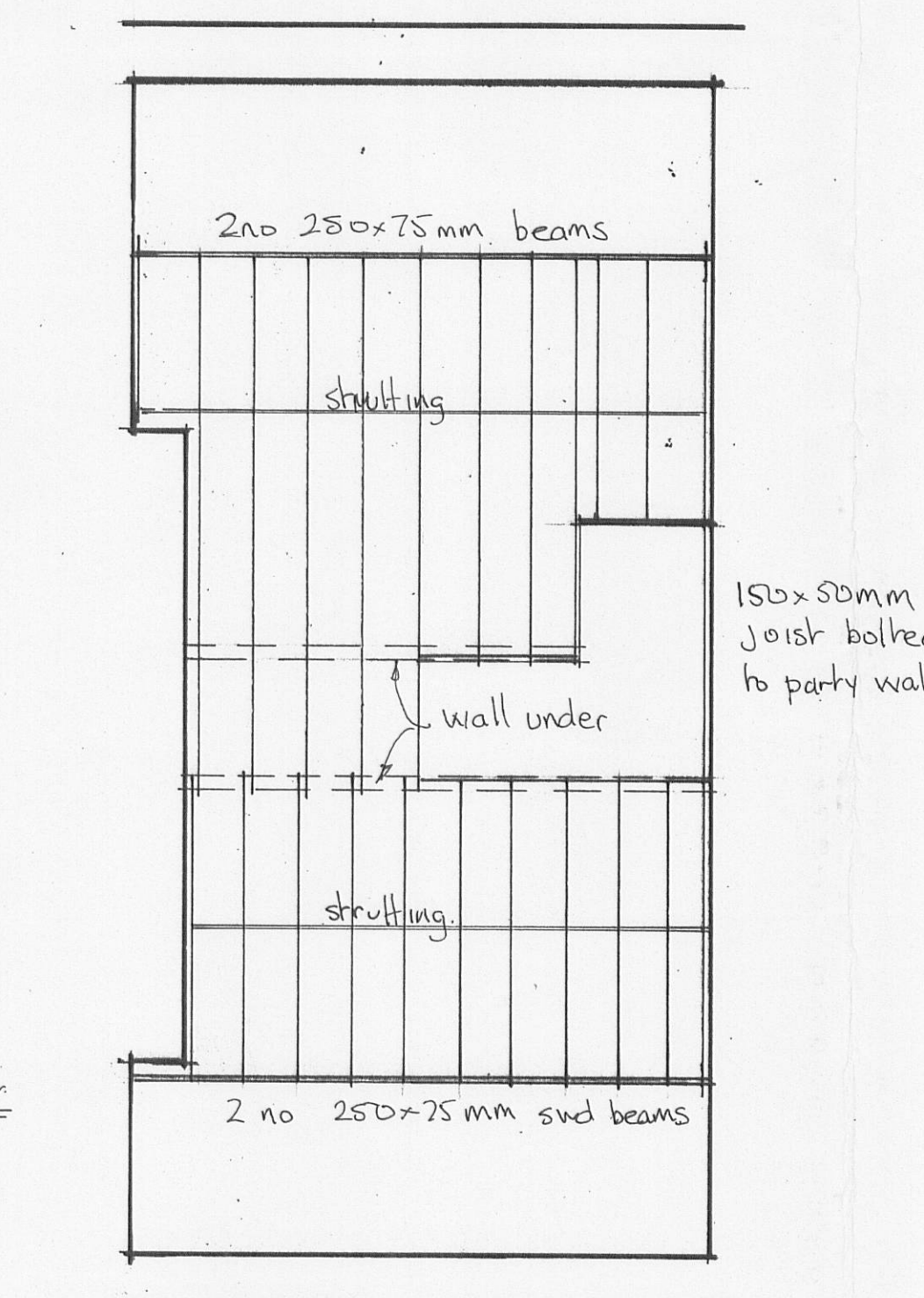
Span 4.35m load = $14.35 \times 1.5 \times 1.5 = 9.79 \text{ kN}$

Max BM = $\frac{W \times L}{8} = \frac{9.79 \times 4.35}{8} = 5.32 \text{ } 10^6 \text{ N/mm}$

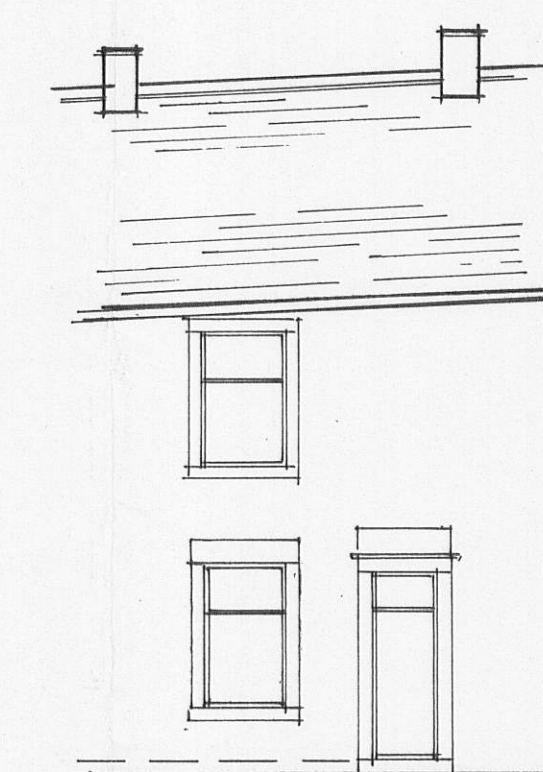
Try 2 no 250x75mm beams bolted together.

MR = $\frac{5.5 \times 150 \times 250 \times 250}{6} = 8.59 \text{ } 10^6 \text{ N/mm}$

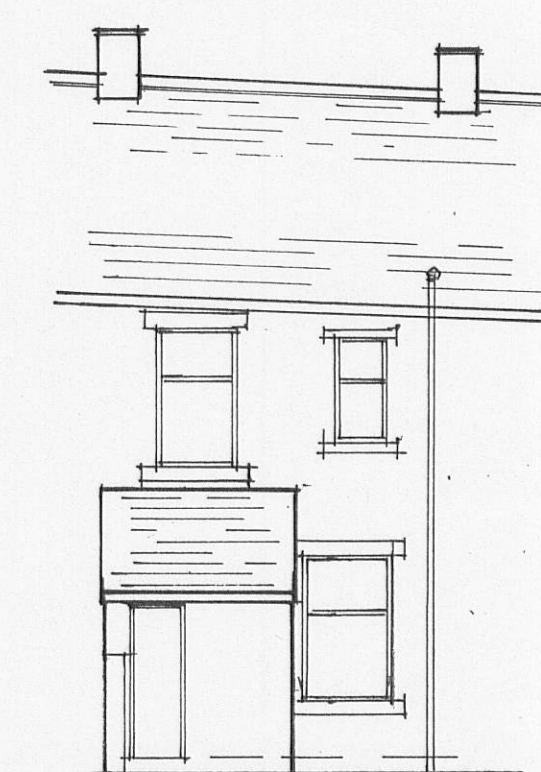
USE 2 no 250x75mm beams bolted together



floor layout



existing front elevation



existing rear elevation



proposed front elevation



proposed rear elevation

NEW STUD PARTITIONS
100 x 50 mm swd stud partitions with 100 mm Gyproc Isowool quilt insulation (density 10kg/ m3) between studding, 12.5 mm Gyproc Wallboard and skim to both sides.(density 10kg/sq m) 100 mm Kingspan insulation between studding under purlin, 57.5 mm thermalboard and skim lining.

DOORS
Provide FD20 fire doors to bedrooms, lounge and living room with intumescent strips to reveals (indicated FD on dwg).

ELECTRICAL
Wire throughout to provide power and lighting circuits. Provide mains wired smoke detectors to landings and at bottom of staircase, as indicated on dwg, linked together. Electrical work to be carried out by a Competent Person as defined by the Part P self certification scheme, and an installation certificate is to be provided to Local Authority on completion of the works.

HEATING
Extend central heating installation to provide radiators to new rooms fitted with TRVs

Note:
Any alterations to the specification or layout should be discussed with the Architect before work is carried out on site. Contractor to check dimensions before commencing work, any discrepancies notified to the Engineer/Architect as soon as possible and to ensure all work complies with the material manufacturers recommendations.

Title:
**PROPOSED ALTERATIONS TO NO. 11
CARDIGAN AVENUE, CLITHEROE.**
3 2 0 0 7 0 6 9 3 P
Scale: 1:100, 1:50

Chris Astin
Building Design Services
Domestic, Commercial and Industrial
Plans prepared for:
• Planning Applications
• Building Regulations
• Extensions
• Barn Conversions etc


17 Newby Close
Burnley
BB11 4QU
Tel: 01282 703594
Mobile: 07834 162732
email: chris.astin@ntlworld.com