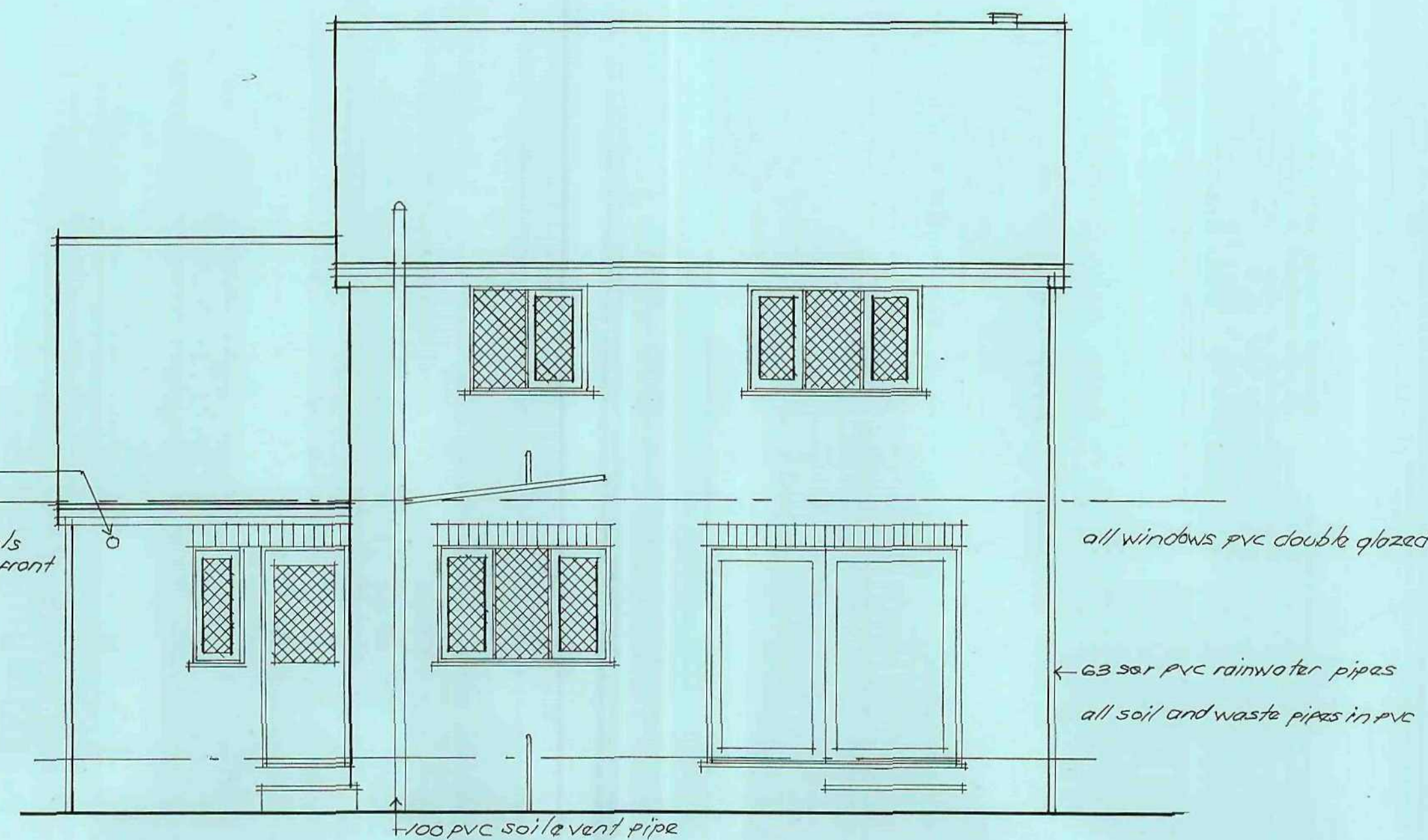
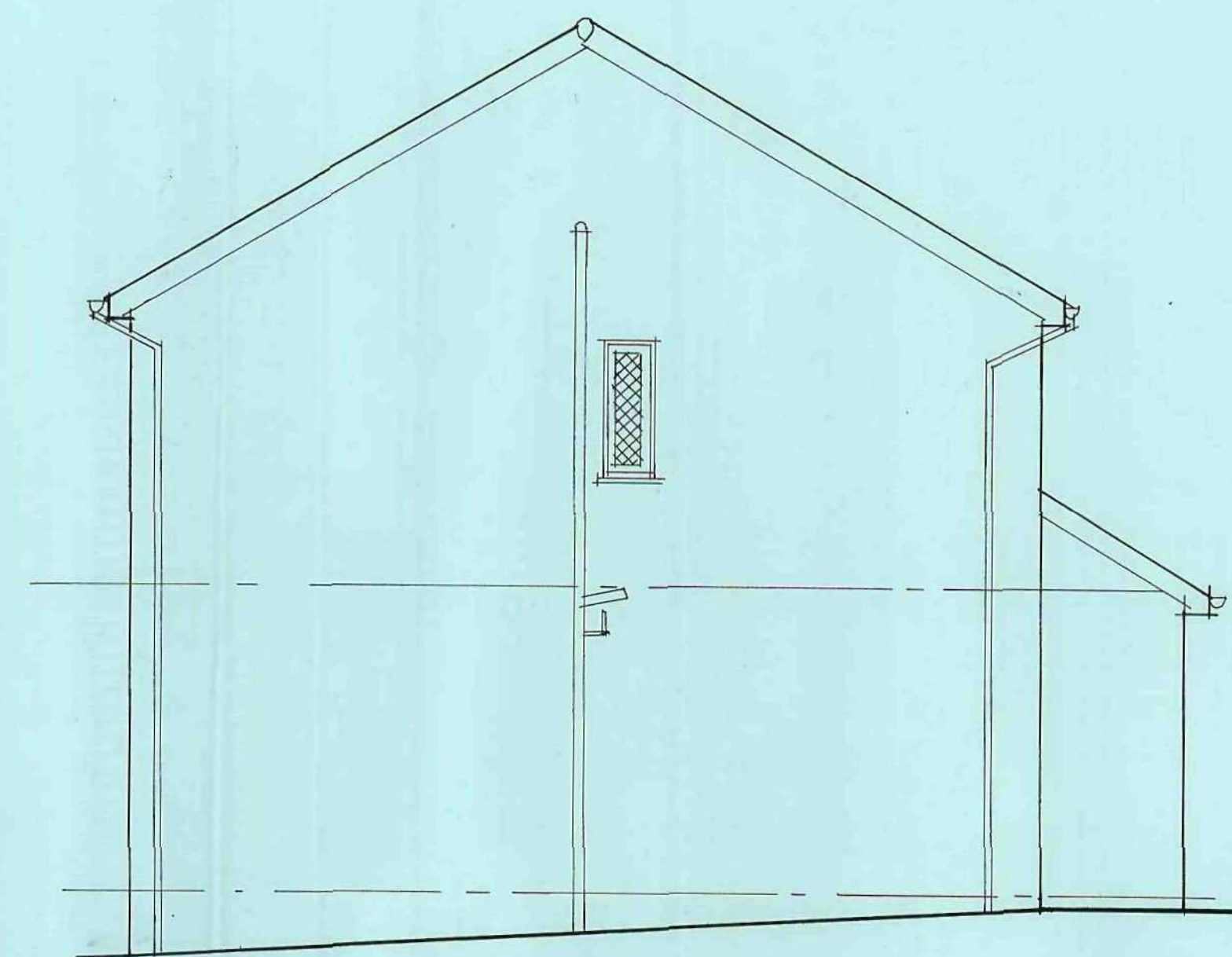




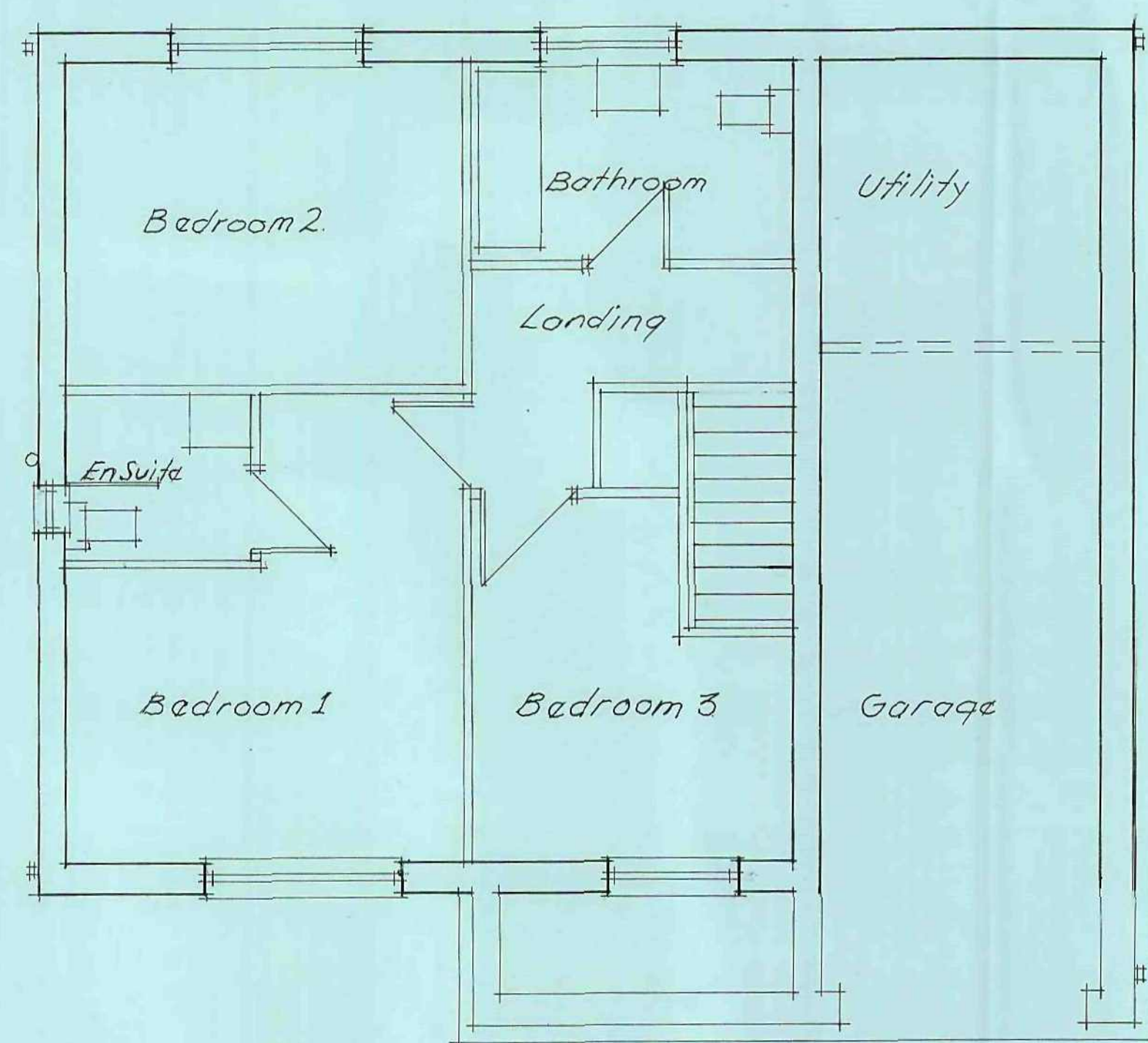
Existing South East Elevation



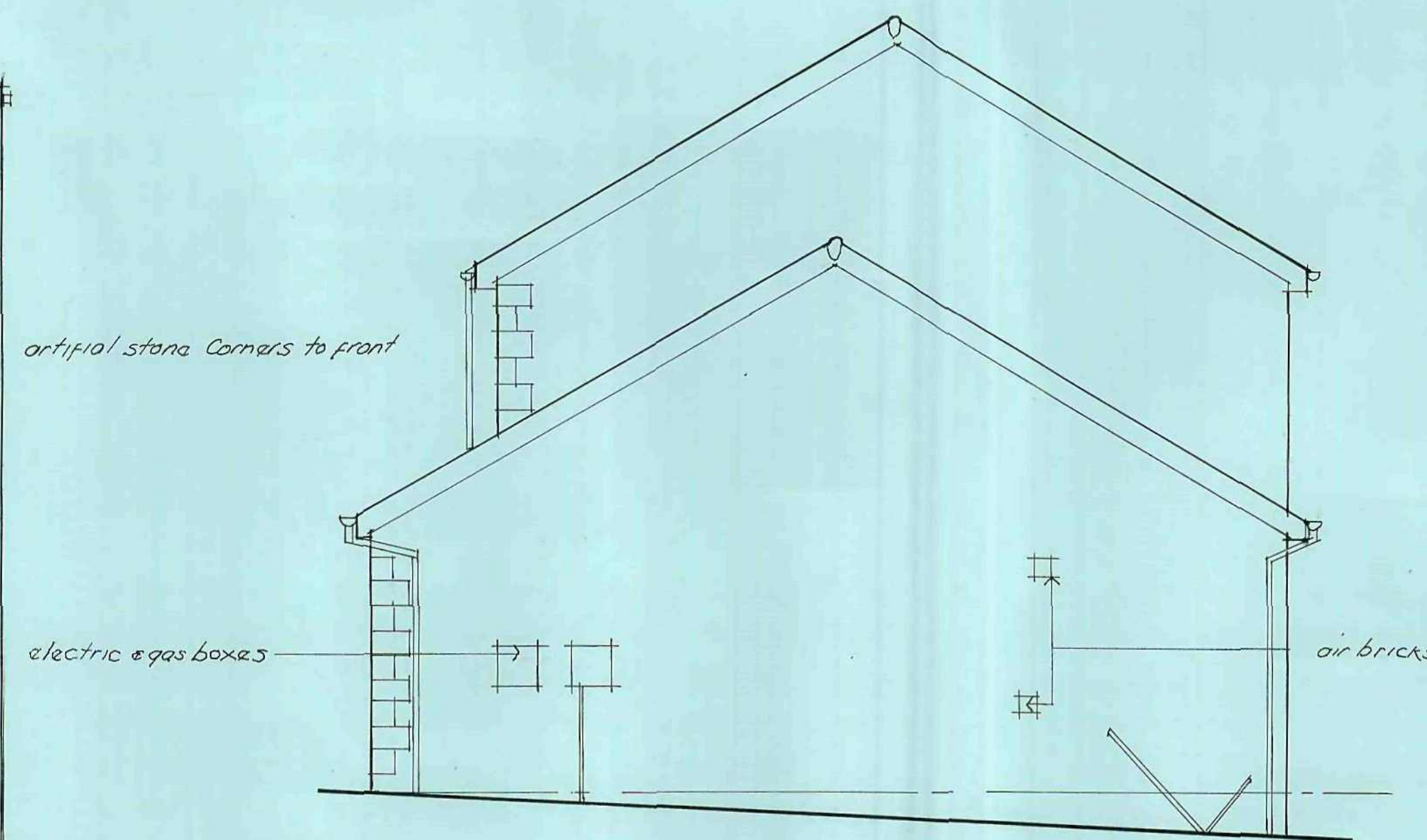
Existing North West Elevation



Existing South West Elevation



Existing First Floor Plan

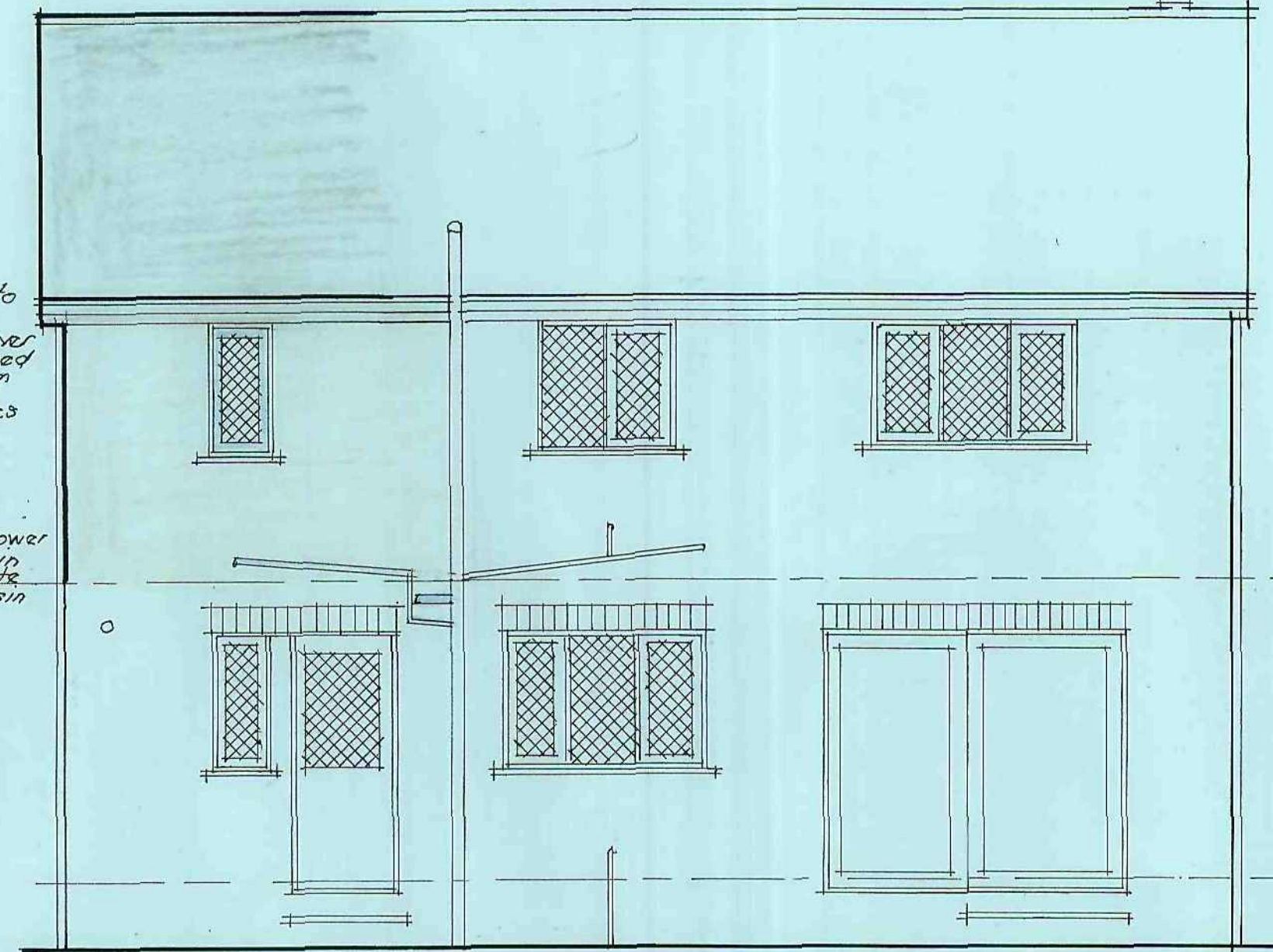


Existing North East Elevation

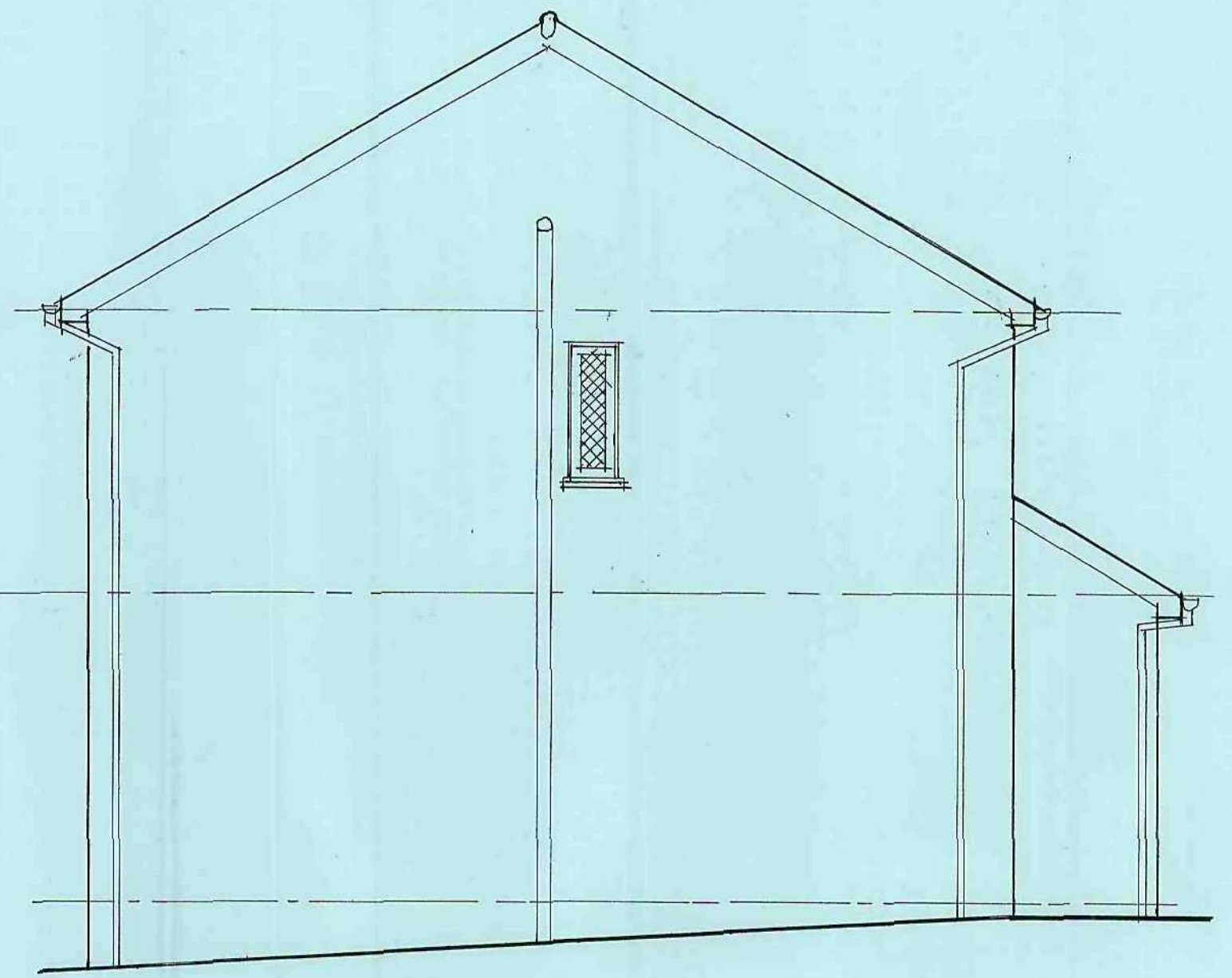
Existing First Floor Plan Elevations At 12 Toy Close
Mapplewell, For Mrs K. Randall
Scale 1:50



PVC half round gutter to match existing
artificial stone lintel over 1800x900 PVC double glazed window with spacer in trickle vent at high level provide for egress hinges
code 4 lead flashing min 150 upstand
40 PVC waste pipe to shower
32 PVC waste to wash basin compact 1/20 shower waste anti vac trap to wash basin

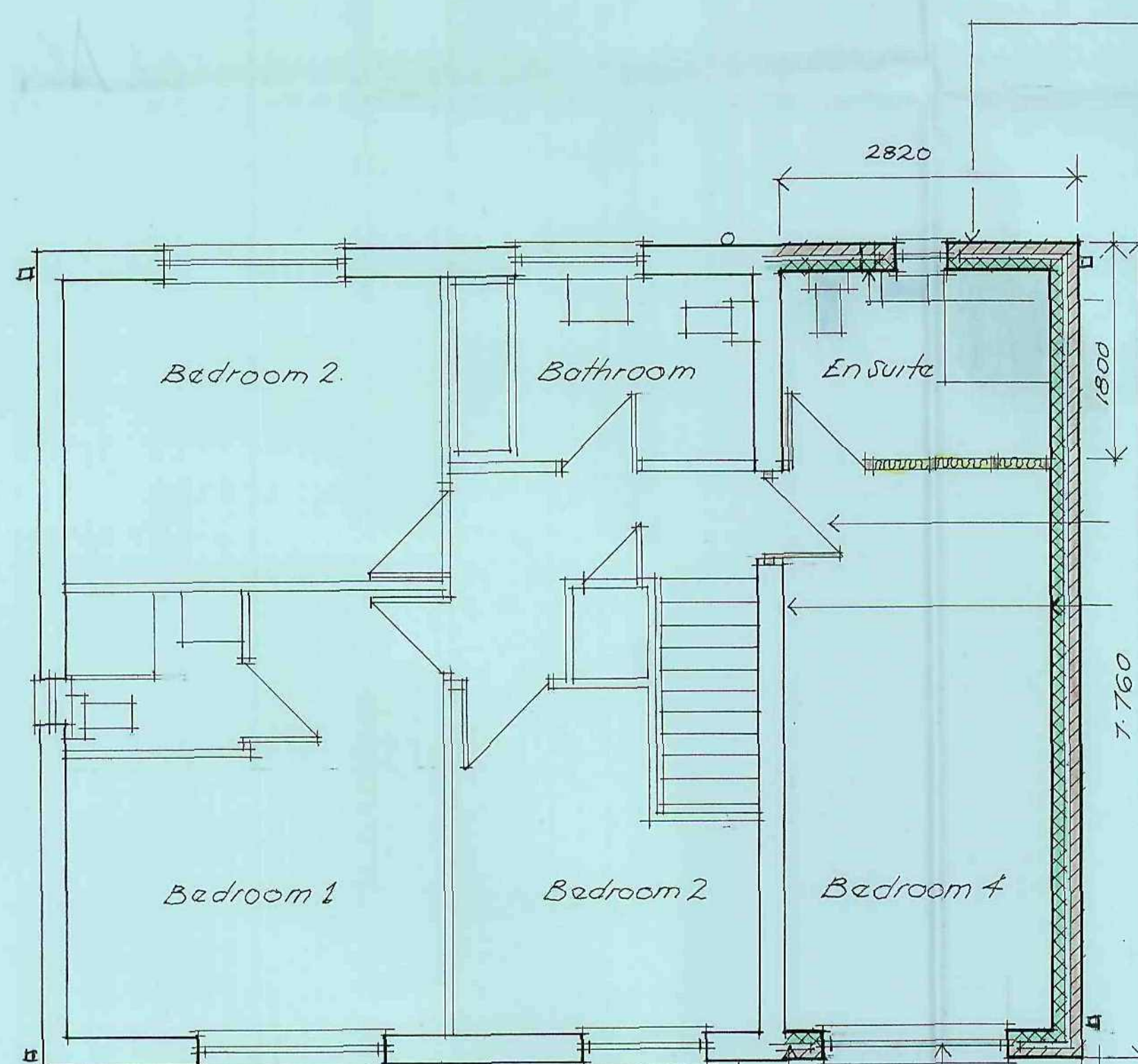


PROPOSED NORTH WEST ELEVATION



PROPOSED SOUTH WEST ELEVATION

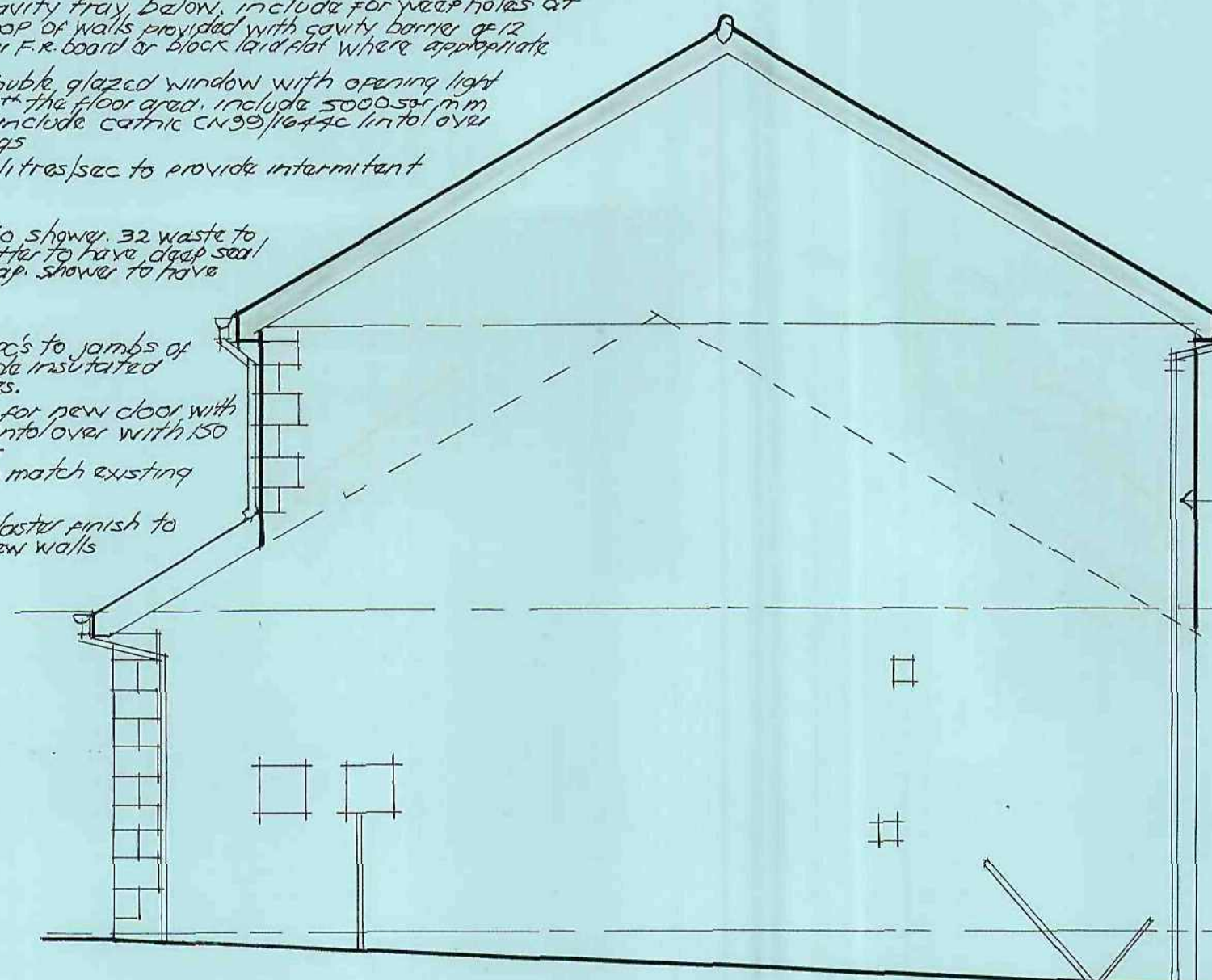
PROPOSED SOUTH EAST ELEVATION



cavities to be continuous at junctions of new and existing walls or provide crocodile continuous vertical strips to both leaves, provide slotted vertical cut in outside of existing outer skin to accommodate vertical d.p.c. provide mastic to vertical joint at junction

external wall to be 102 facing to match existing 100 cavity with 45 kingspan? wiso partial fill with retaining clips on gully vertical cast type wall ties at max 500 horizontal and 150 vertical centres, use colour standard blocks 13mm carlite including finish. Alternative use full fill insulation or oritherm 34 wall ties as above 100 clips max 1000/1000 35mm blocks with mastic as above or to give max U value of 0.16 note if full cavity insulation used provide continuous cavity tray below, include for weep holes at 2m centres. top of walls provided with cavity dam or 12 supalux or similar F.R. board or door lintel where appropriate
1800x900 PVC double glazed window with opening light minimum 120mm floor area include 5000sqmm trickle vent include catnic CNB9/1644c lintel over 150 end bearings
extract fan 15ltr/sec to provide intermittent ventilation
40 PVC waste to shower 32 waste to wash basin latter to have deep seal anti siphon trap shower to have deep seal trap
provide vent caps to jambs of openings provide insulated cavity closures
form opening for new door with catnic CNB9/1644c lintel over 150 end bearings internal door to match existing
15mm carlite plaster finish to enclosed and new walls

1800x900 PVC double glazed window with 5000sqmm trickle vent catnic CNB9/1644c lintel over 150 end bearings provide artificial stone lintel to match existing opening lights 120mm floor area as window is also means of escape in case of fire use for egress hinges



PROPOSED NORTH EAST ELEVATION

calculation for steel beams
span 2.600m
inner leaf will sustain more loading than external leaf
∴ inner leaf loading + 1/2 roof load (note no reduction made for window opening for ease)
wall 2.32 x 2.6 x 2.4kN/m = 12.06kN
roof 4.50 x 2.6 x 2.4kN/m = 29.40kN
∴ 12.06 + 29.40 = 41.46kN
try 152x83x17.10 RSJ
BM = wL = 41.46 x 2.6 = 107.7kNm
d = 54.9 = 2 x 11.36 x 10³ (2 x 1000)³
384EI = 384 x 11.36 x 10³ x 2.6 = 11.36kNm

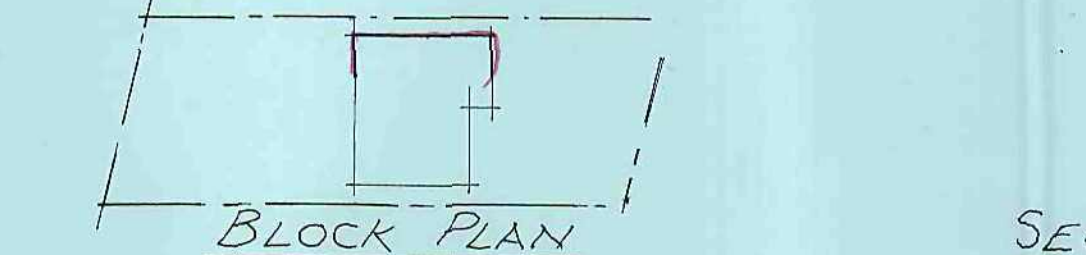
tiles to match existing on 38x25 SW treated battens on sarking felt to B5747 on prefabricated gongnail trusses at max 600 provide caps if required by LABC from supplier, complete with all SW bracing to BS5268 part 3: 1985
provide 30x30mm gully lateral restraint strips at rafter and ceiling member at max 2m centres. strips fixed across three members with 3x1 noggins between and block between inner leaf and first member

300 Fibreglass insulation to provide U value i.e. 0.16. Alternative to fibreglass use 2x2 layers of kingspan Kooltherm K7 insulation board 12mm plaster board and skim finish
1800x900 PVC window double glazed with catnic CNB9/1644c lintel over 150 end bearings and 5000mm trickle vent to top of window
extend 63 size PVC rainwater pipe to new gutter position
provide code 4 lead flashing to junction of existing roof and new wall 150 upstand include cavity tray over

provide 2x 100x83 RSJ encased in 2x layers 12mm plaster board or supalux 12mm thick to provide 30min fire resistance provide 225x150x100 concrete padstones cast down together at max 600x21 top chipboard floor grade on 145x47 SCB graphic joists fill void with fibreglass and include 12mm supalux or similar fire board cut to give 30min fire resistance provide mid span timber bracing to 100 floor lateral restraint to mid span 30x35 fixed across three joists with noggins between and SW block between inner leaf and first joist

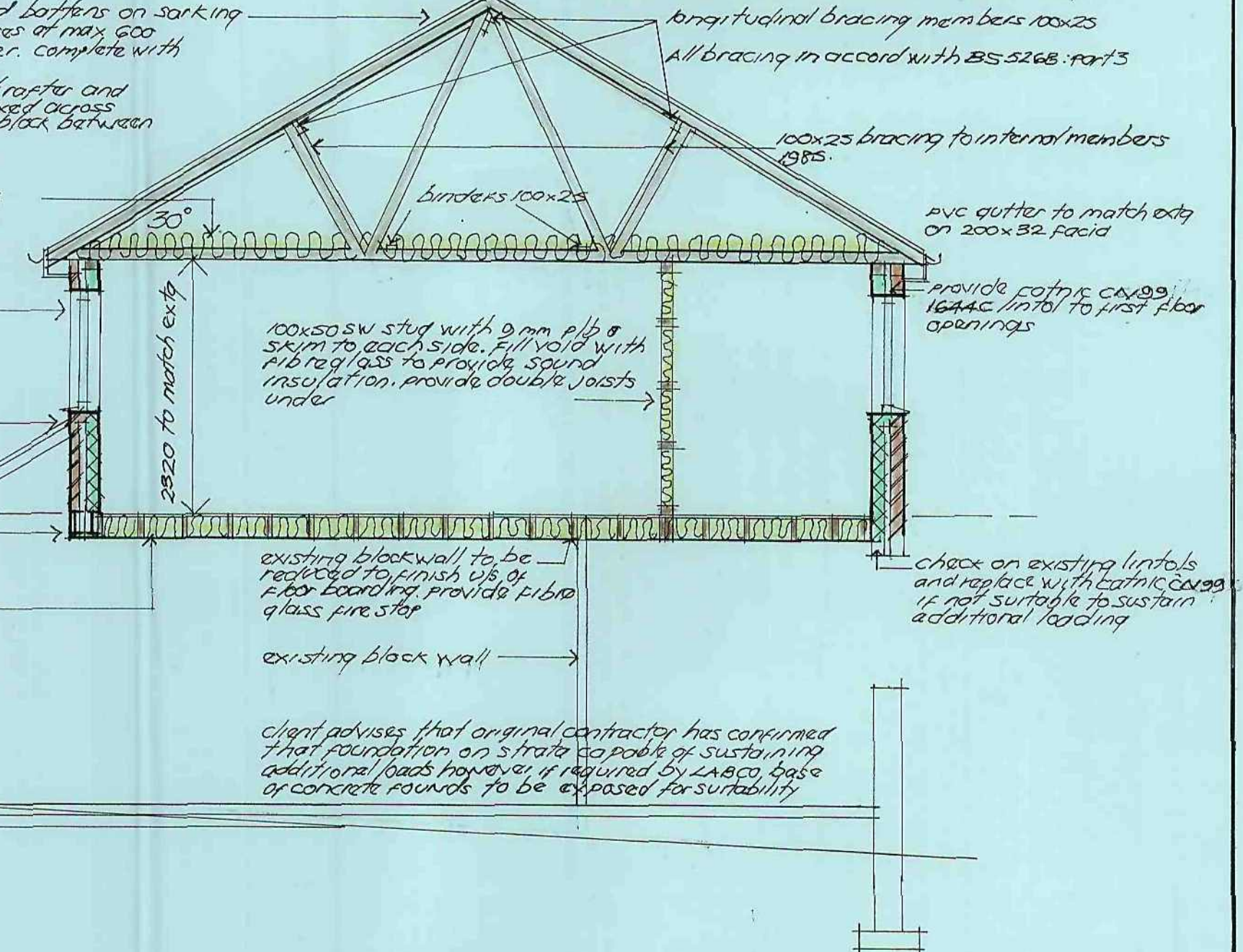
assumed concrete foundation detail

provide mastic seals to jambs of openings internally to form air tight seal glazing to new windows to have U value not exceeding 0.16 any gaps in construction to be effectively sealed to prevent heat loss



BLOCK PLAN

All catnic lintels to be insulated as per catnic catalogue
All electrical work to be carried out by NICEIC or similar part P approved engineer. New lighting to be energy efficient
new windows to have opening lights min 120mm floor area include high level trickle vents 5000sqmm floor area opening light to an suite to open min 30° bedroom will satisfy this as far egress hinges needed for escape or escape in case of fire
extend water supply to en suite, include for heated towel rail in en suite and radiator in bedroom
extend all heating pipework any work required to gas boiler must be undertaken by gas registered eng
A copy of any work undertaken on boiler to be sent to LA Building Control
All work to satisfaction of LABC and Planning



check on existing lintels and replace with catnic CNB9/1644c lintel to first floor openings
client advises that original contractor has confirmed that foundation on strata is capable of sustaining additional loads however, if required by LABC base of concrete rounds to be exposed for suitability

SECTION AA

Proposed First Floor Extension To Form Bedroom and En Suite Bathroom For Mr and Mrs K. Randal At 12 Toy Close, Mapplewell, Barnsley
Scale: 1:50, 1:500, 1:1250

PROPOSED FIRST FLOOR PLAN