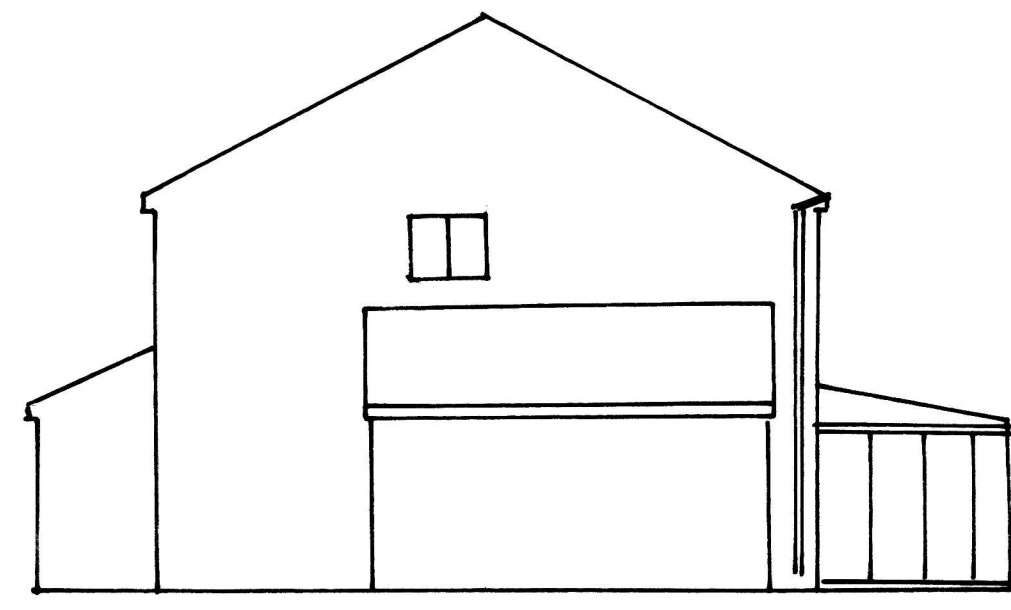
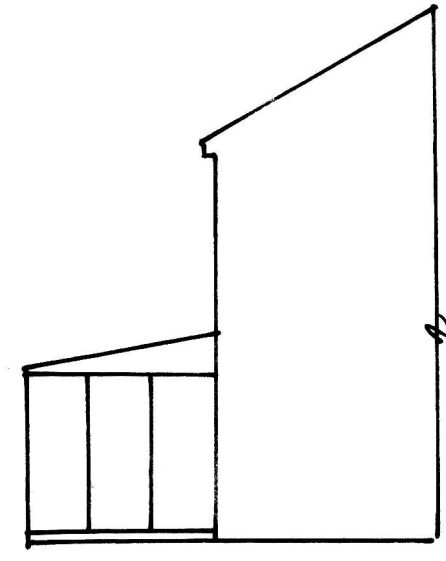


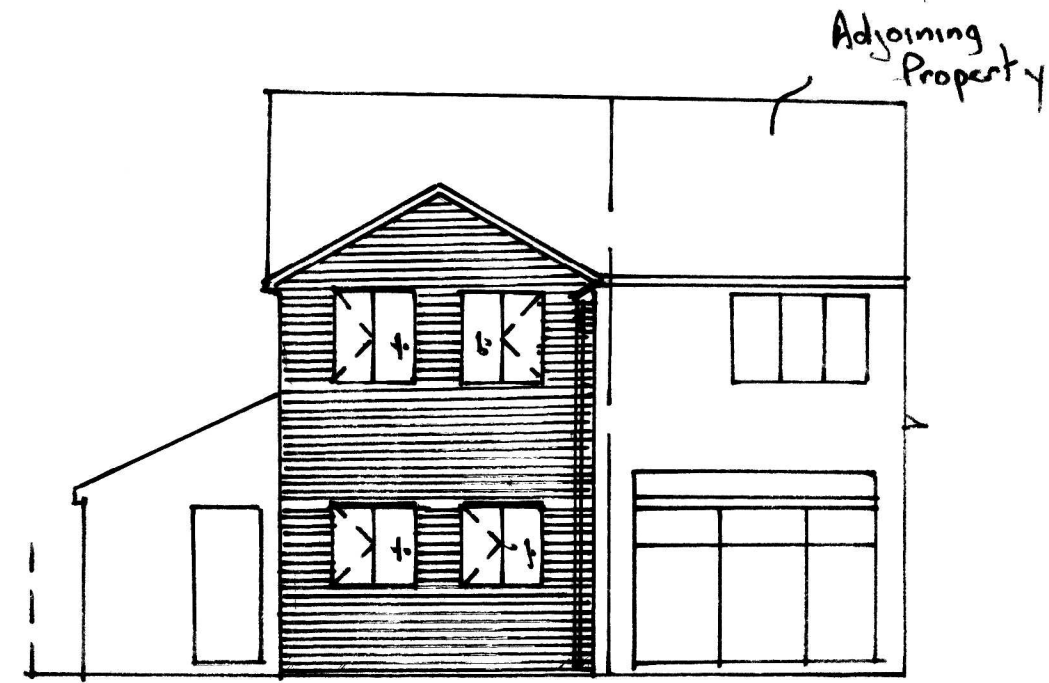
Existing Rear Elevation



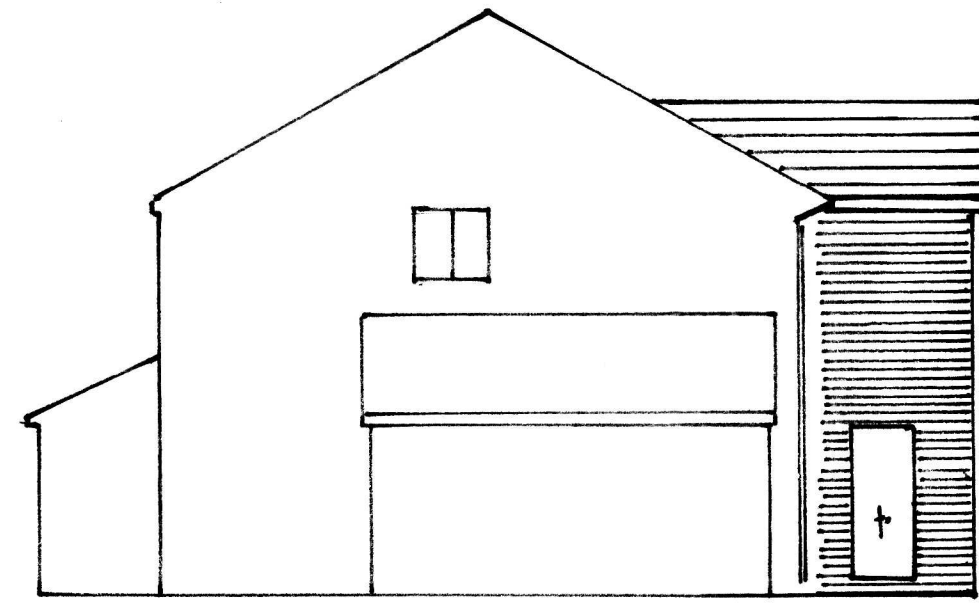
Existing Side Elevation



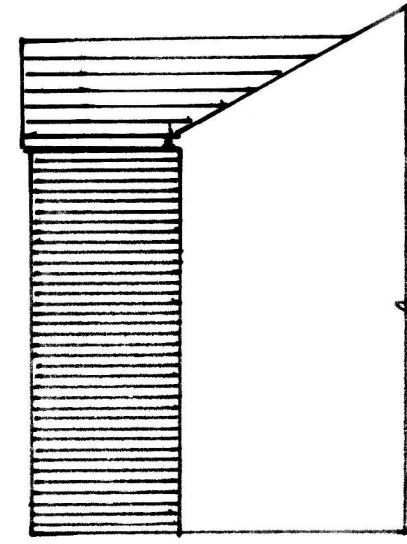
Existing Side Elevation



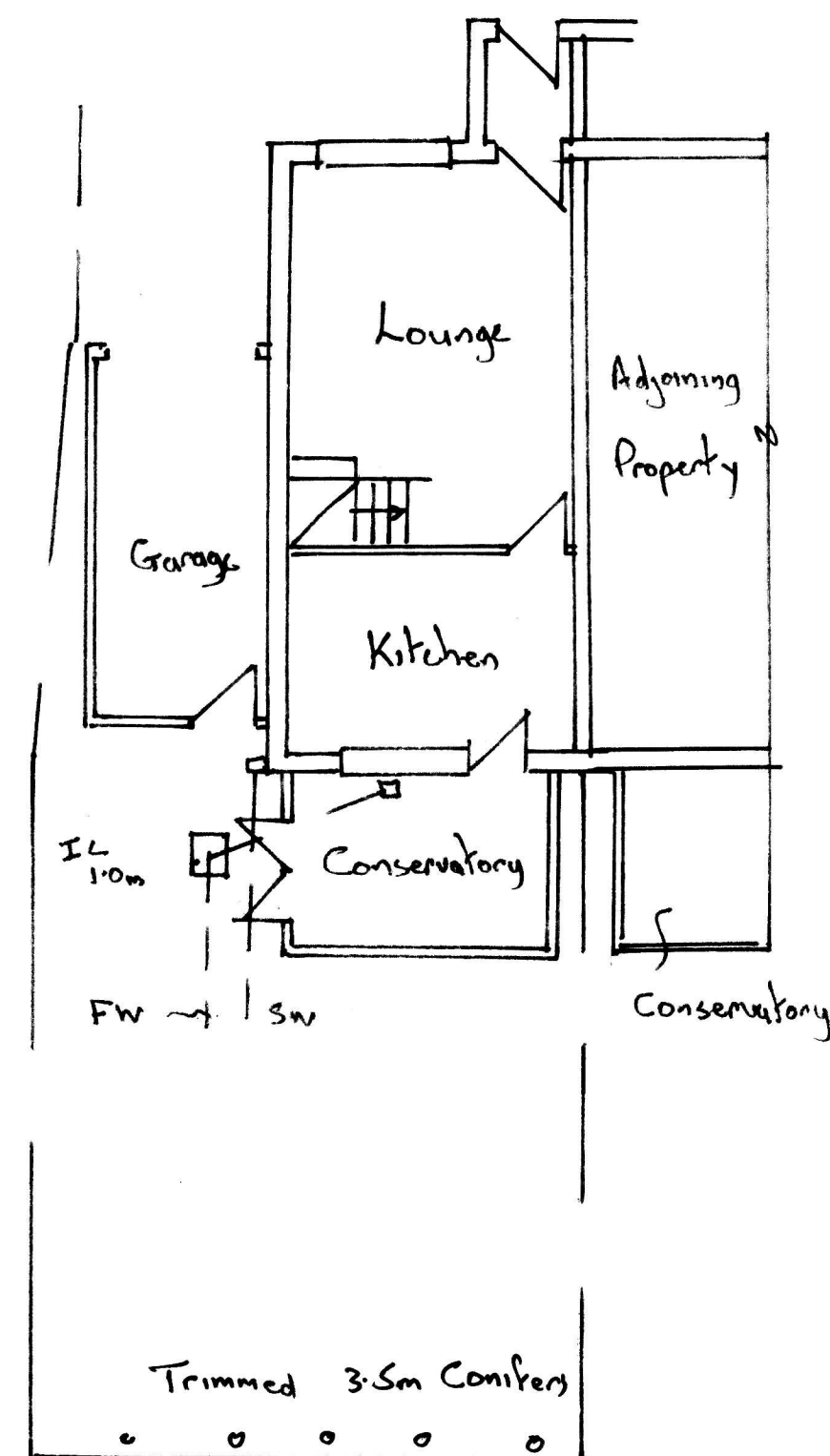
Proposed Rear Elevation



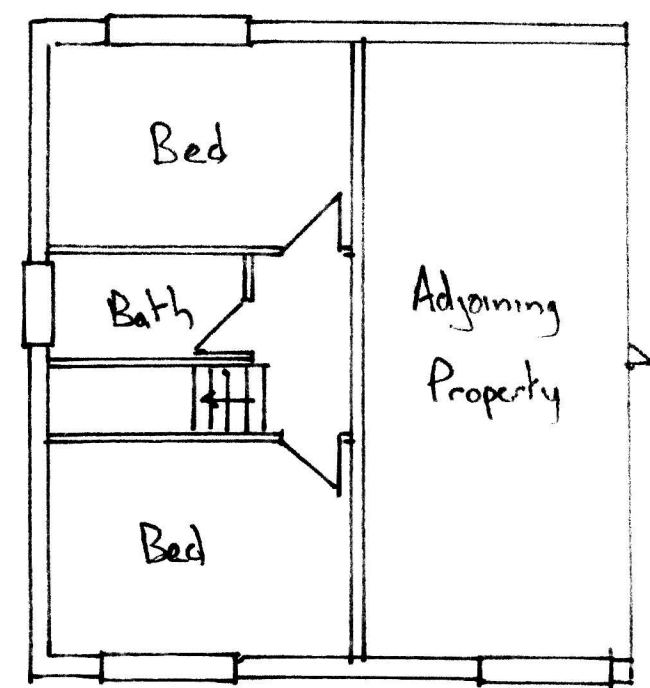
Proposed Side Elevation



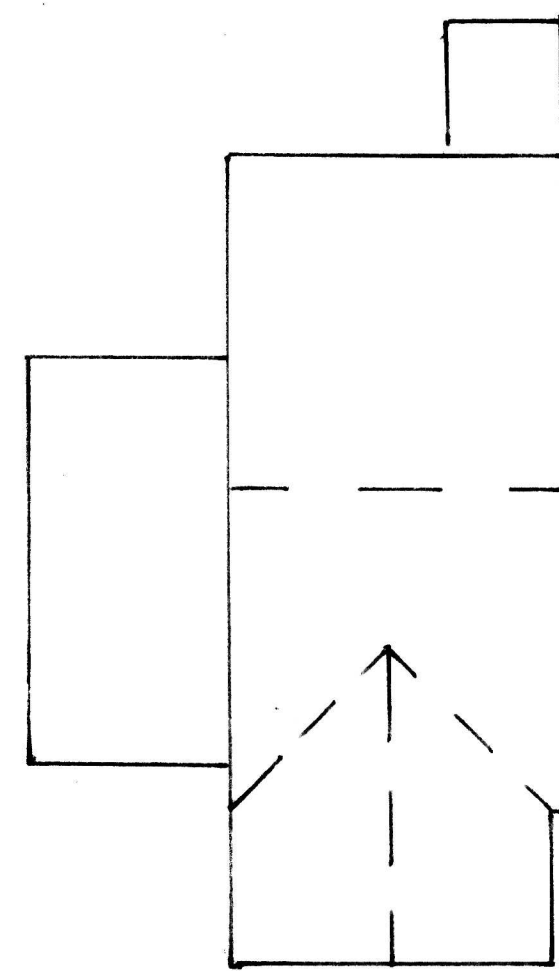
Proposed Side Elevation



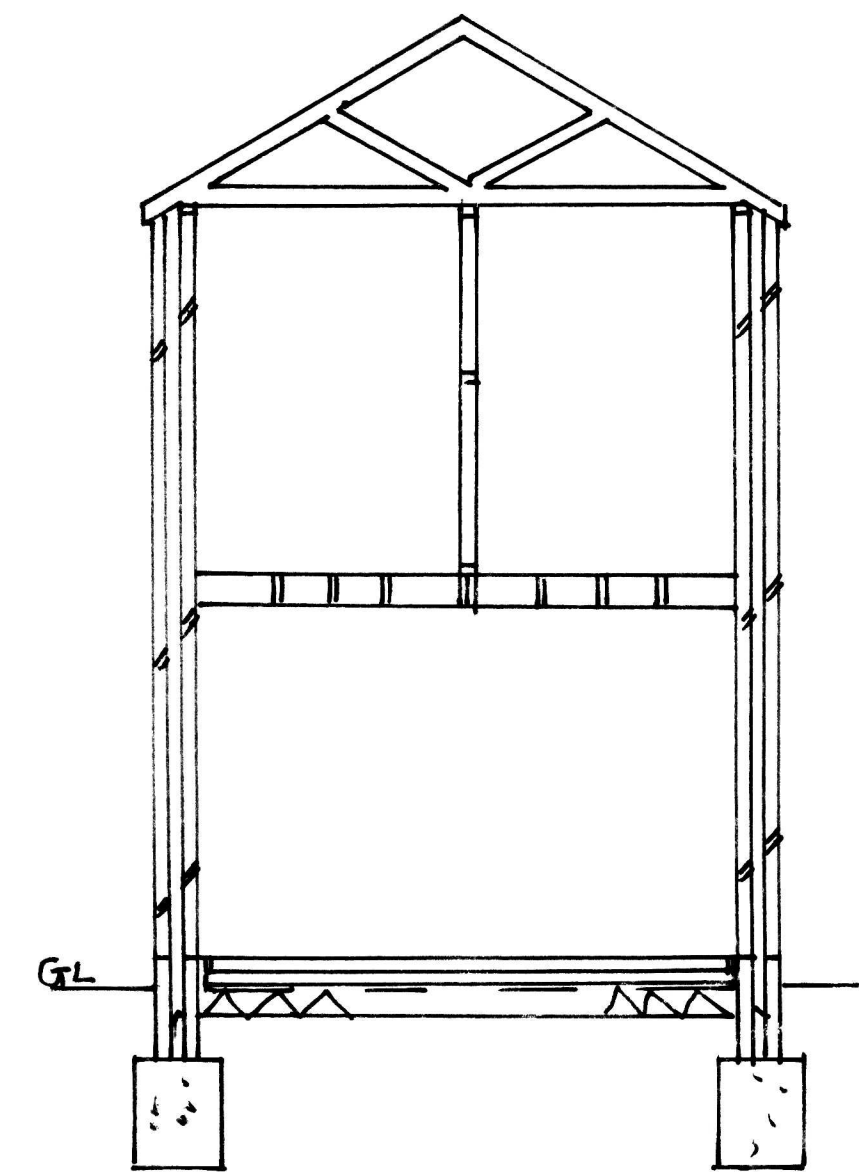
Existing Ground Floor Plan



Existing 1st Floor Plan



Roof Plan



Section A

Foundations: Existing 235mm well maintained concrete 7.5m away from the exterior Provide 125mm deep 600mm wide foundation mass filled as indicated, or to the existing house foundation to BS5328. Step foundation below drain runs and protect with 150x100mm r.c. lintel over. Provide 35N 100mm concrete blockwork below ground level with lean mix cavity full 225mm below the lowest DPC with external DPC 150mm above ground level.

Walls: 100mm brickwork to match existing 100mm cavity with 100mm Drithern cavity insulation and 100mm thermalite block inner leaf 0.12w/mk with 12.5mm plasterboard dot and dab with skim finish. Provide stainless steel walltie to DD140, 750mm horizontal 450mm vertical staggered and 215mm to murela. Fully bond new walls to existing masonry cavity with insulated vertical D.P.C.s to murela. Fully bond new murela to existing masonry cavity with insulated vertical D.P.C.s to murela. Provide Partly insulated CB90 lintels to external openings with 150mm end bearing to manufacturers loading guidelines and RSS. to ground floor opening to the engineers design all with 12.5mm plasterboard and skim finish.

Internal Wall: 100x50mm stud work, studs at 400mm centres with 100mm Rockwool insulation between the studs with 12.5mm plasterboard and skim finish, built off doublet up floor joints as necessary.

Floors: **Ground Floor:** 100mm concrete slab on 100mm Kingspan K7 insulation with 25mm perimeter upstand on 150g DPM lapped into the inner DPC and existing DPM on maximum 150mm sand blended consolidated dolomite.

First Floor: 18mm moisture resistant wirope on 200x50mm joists at 400mm centres built into the new wall and sealed on the new RSS with solid strutting at 1/3 points and lateral restraint stops at 1.5m centres over 3no joints sealed on 50x50mm noggin, with 100mm Rockwool insulation between the joints with 12.5mm plasterboard and skim finish.

Roof: Concrete tiles to match existing all mechanically fixed to manufacturers guidelines on 50x25mm treated battens on Tyvek breathable membrane on manufactured roof trusses including all bracing and calculation by the supplier seated on 100x50mm treated wallplate with holding down straps at 1.5m centres and lateral restraint stops to the rafter and ceiling tile at 1.5m centres over 3no trusses seated on 50x50mm noggin. Provide 300mm x 18mm WBP plywood valley boards with Grade 4 lead lining. Provide 100mm Rockwool insulation between the ceiling ties with 200mm Rockwool laid over at right angle maintaining 50mm air gap between the insulation and Tyvek breathable membrane with 12.5mm plasterboard and skim ceiling finish. Provide 100mm uPVC gutters and downpipes to match existing.

Drainage: Relocate the existing F.W. B.I.T. gully and provide rottable B.I.T. s.w. gully as indicated in 100mm uPVC with 150mm granular bed and surround laid to 1:40 with 1:40 fall. All new waste to be fitted with 75mm deep sealed traps.

Ventilation: Provide opening areas min. 1/20 of the rooms floor area with 8000mm² trickle ventilation. Bedroom opening areas min 750x450mm clear opening with the sill height between 0.8 and 1.1m above floor level. Provide mechanical extraction ducted to the outside air to the kitchen at a rate of 60litres/second. All new glazing to be Pilkington K double glazed argon filled units in fully insulated frames to 1.6 w/m² with all glazing in critical locations to be safety glass.

30 Sharpeley Drive

Rear 2 Storey Rear Extension

Scale 1:100