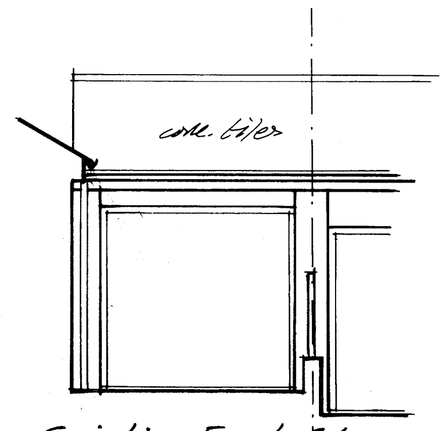
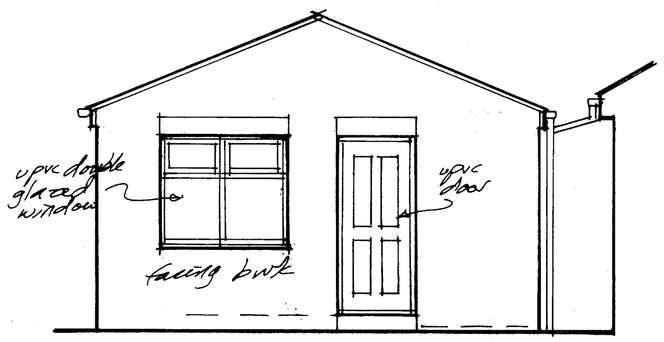
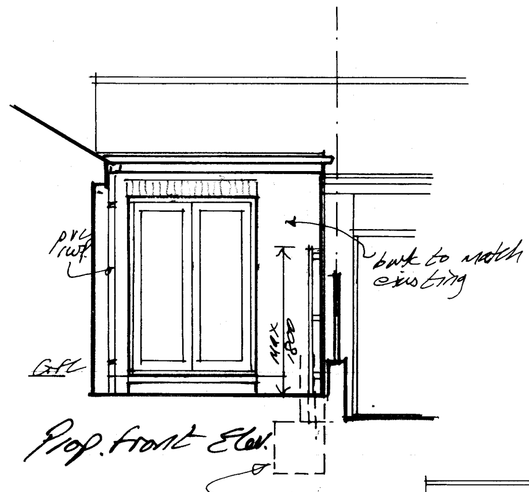


Existing Front Elev.

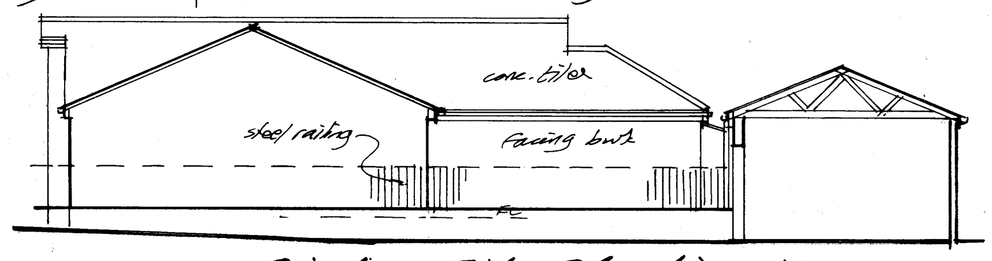


Existing Side Elevation

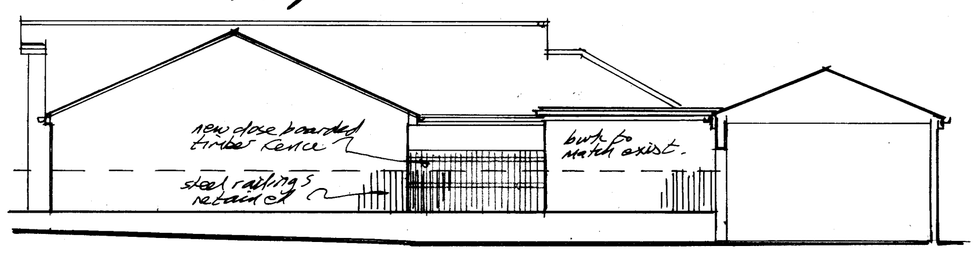


Prop. Front Elev.

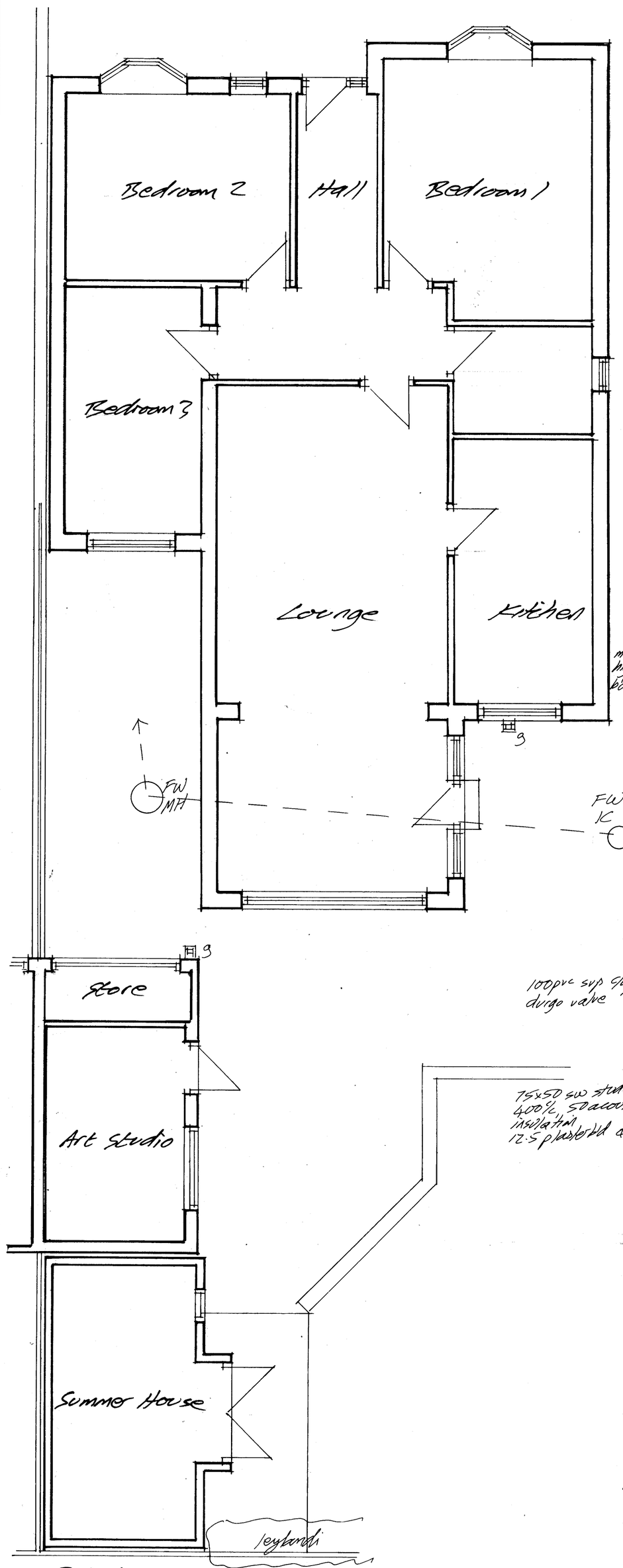
Proposed Side Elevation



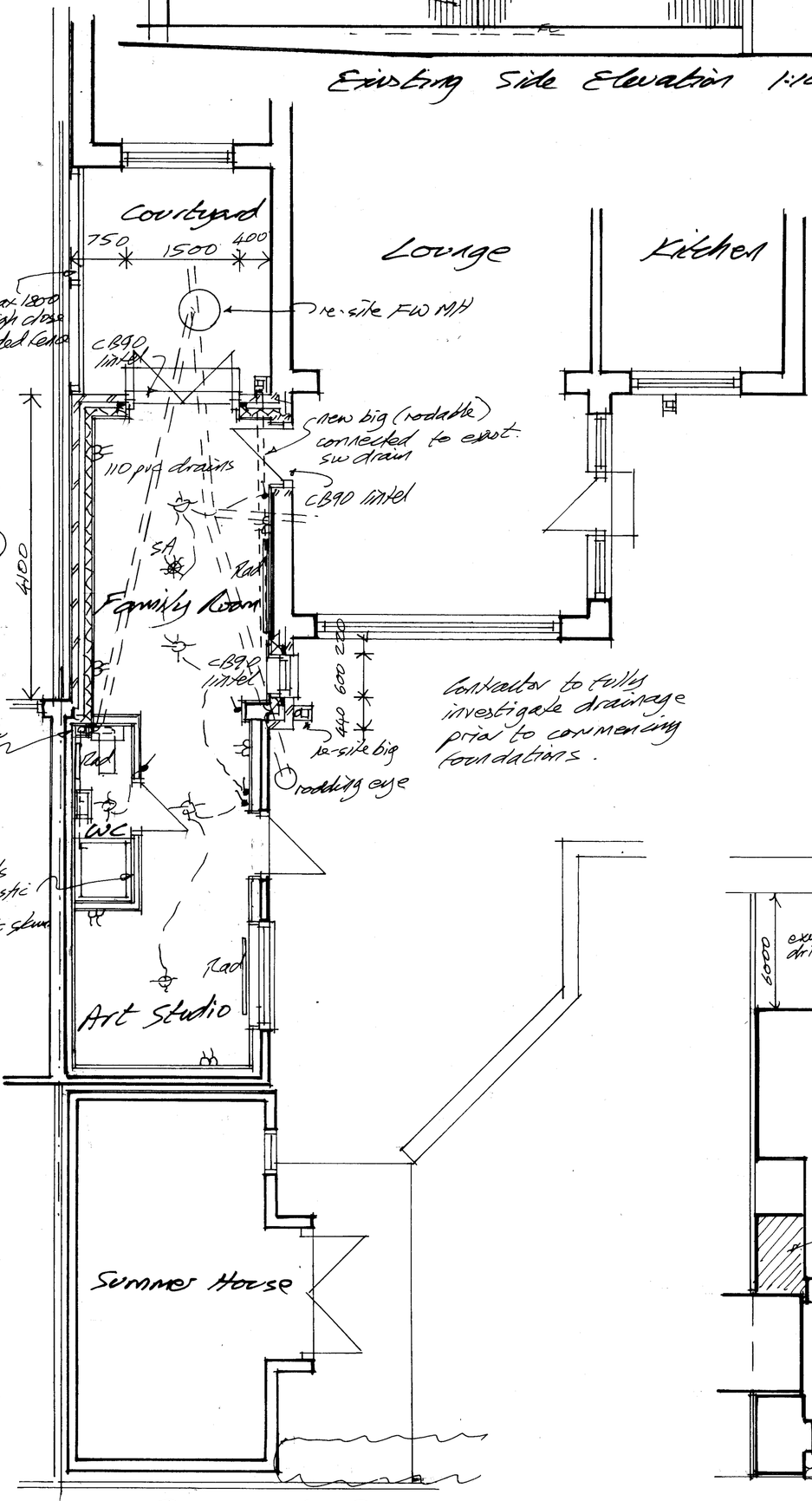
Existing Side Elevation 1:100



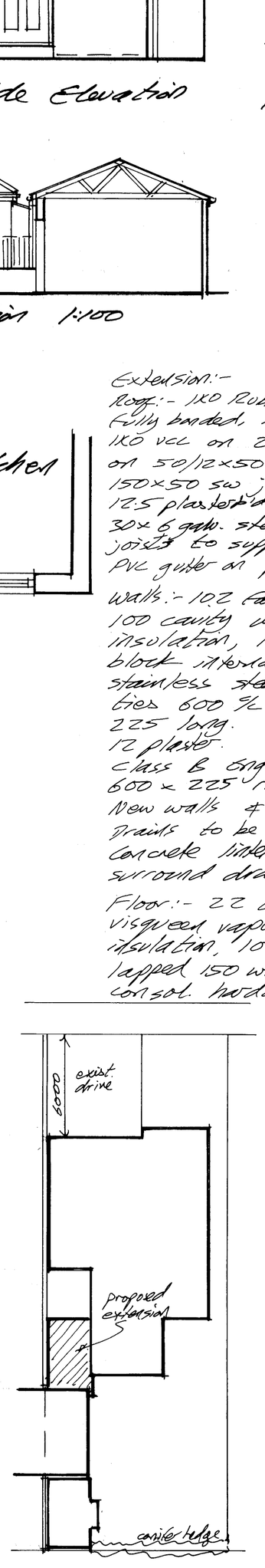
Proposed Side Elevation 1:100



Existing Plan



Proposed Plan



Site Plan 1:200

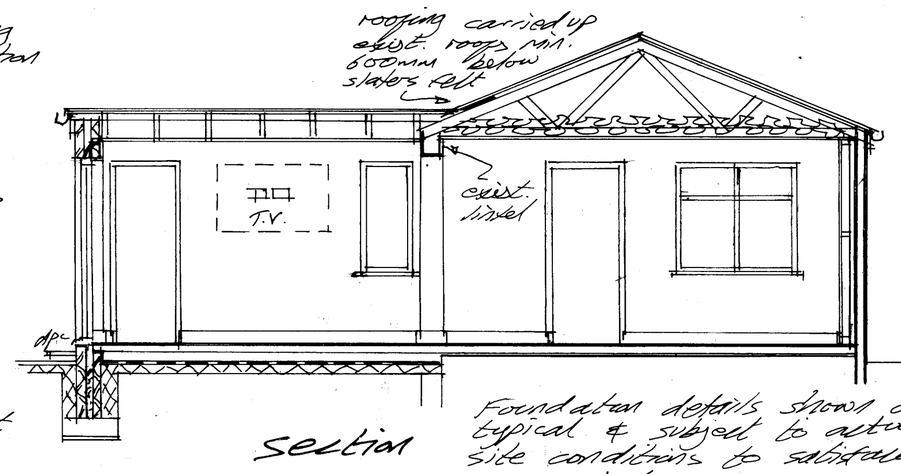
Extension:-
Roof:- 1.140 Rubberseal FR EPDM roofing fully bonded. 150. 1.140 EnerTherm insulation 1.140 vcl on 22 wbp ply decking on 50/12x50 sw firrings 600 c/c 150x50 sw joists 600 c/c 12.5 plasterbd & skim ceiling. 30x6 galv. steel straps 1200 c/c to tie joists to supporting walls PVC gutter on pvc fascia.

Walls:- 102 facing brick ext. leaf, 100 cavity with 100 Rockwool insulation, 100 thermalite shield block internal leaf. stainless steel Ancon RTZ wall ties 600 c/c horiz. & 450 c/c vert 225 long. 12 plaster. Class B eng. brick below dpc, cavity fill to 75 below GL 600 x 225 r.c. found, C283 mesh 50 above base. New walls & founds to be fully bonded to & underpin exist. Drains to be bedded & surrounded in single size pea gravel. Concrete lintels over drains where passing through walk & surround drains in flexible material.

Floor:- 22 t&g moisture resistant chipbd on 1000g. visqueen vapour barrier on 75 kingspan flooring grade insulation. 100 concrete slab on 1200g. visqueen dpm lapped 150 with dpc, 25 sand blinding on min. 150 consol. hardcore.

Art Studio:- Roof:- install 2 layers 150mm quilt insulation.
Walls:- remove existing plasterbd & construct 50 cavity, 75x50 sw studs 400 c/c. 75 kingspan insulation. 1000g. visqueen, 12.5 plasterbd & skim.
Floor:- Take up existing floating floor & install 22 t&g moisture resistant chipbd on 1000g. visqueen on 75 kingspan on levelling screed to make up levels.
Mechanical extract ventilation to wc/shower - 15 l/sec
TRV's to new radiators
40 pvc waste to shower, 32 pvc waste to whb, 75 traps.
SA:- Smoke detector wired direct to DB & interlinked with a detector in the Hall, 9v battery back-up.
New doors & window to be upvc, double glazed, low E glass, 1.1 'U' value, 8000mm² trickle vents. Toughened glass throughout.

Glazing check -
Allowable heat loss = 8.7 x 24 x 75% = 5.22
5.22 x 1.6 = 8.35
'U' value req'd = (1.5 x 2.1) + (0.6 x 1.3) + (2.1 x 0.8) + (1.5 x 1.3) = 7.58m²
8.35 / 7.58 = 1.1 'U' value



Section

Foundation details shown are typical & subject to actual site conditions to satisfaction of B control.

All dimensions to be checked on site

Proposed extension
40 Embleton Drive
Chester-le-Street
DH2 3JS
for L. Stewart

As Existing & As Proposed

Scale 1:50 @ A1 CE/4
Date Jan '21

C. Rankin MCIOB
07788 555 348