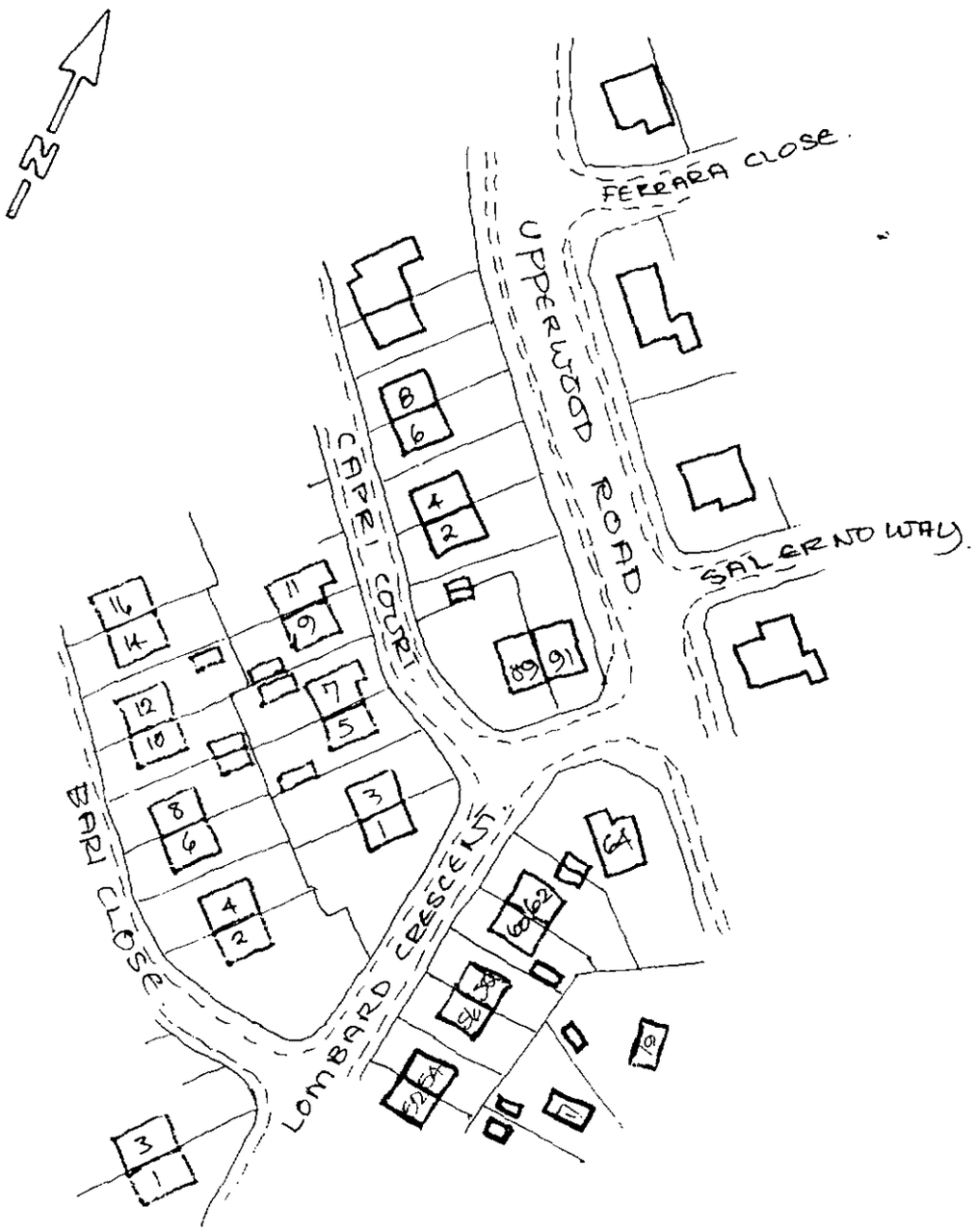
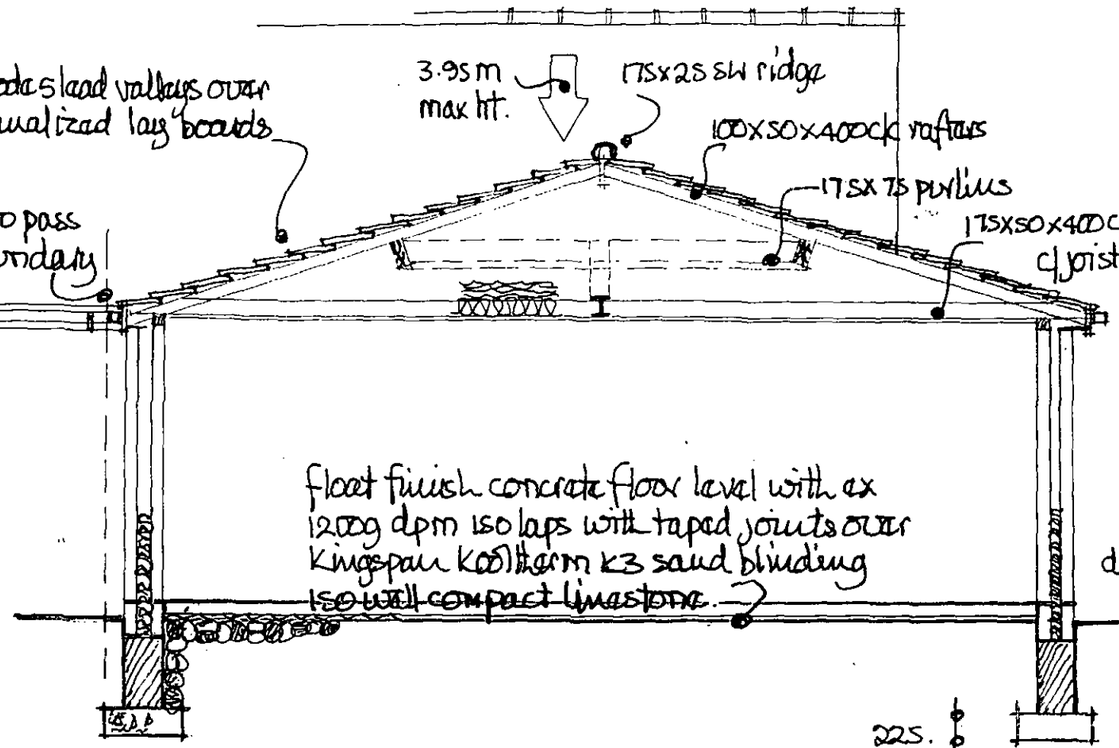
LOCATION PLAN SCALE 1:1250 FT.



MR+MRS S. PHELAN.

SECTION/CONSTRUCTION DETAILS :-
1:50 M.

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p/a = 3.50+7.15+6.10+1.20 / 3.50x7.15+1.2x2.30 = 17.95 / 27.80 = 0.65 ∴ use 70mm kingspan kooltherm K3 to solid concrete floor ABD.
= 25.03+2.76

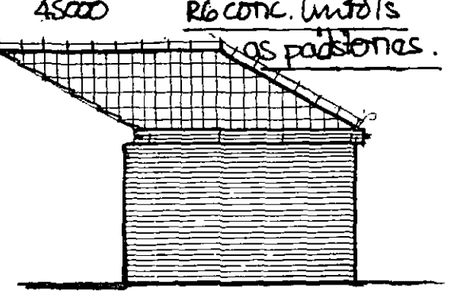
check purlin support span 3.50m.
purlin load = 3.20x1.50x1.90 / 2 = 4.56KN

ceiling 3.50 x 3.6x0.5 = 6.30KN
mbm = WL/8 + WL/4 = 6.30x3.50/8 + 4.56x3.50/4
= 2.76+3.99 = 6.75 KNM
Try 152x89x16KG UB.
stress = M/Z = 6.75x10^6 / 110x10^3 = 6.75 / 0.110 = 61.36N/mm²
D/T = 152.4/7.7 = 19.80
4 yy where L = 3.50+0.15+0.153+0.153x1.20 = 4.75 = 4.75x100/2.10 = 226
from table 3a BS449 pcb = 75N/mm². ∴ OK.

25MM continuous soffit vents + insect screens drive side + rear.

check deflection
allowed = 4/360 = 3.50x1000/360 = 9.72MM
actual = 5WL³/384EI + 1WL³/48EI
= 5x6.30x3.5³x10¹² / 384x210,000x838x10⁴ + 1x4.56x3.5³x10¹² / 48x210,000x838x10⁴
= 1351/676 + 196/84.5 = 2.00+2.32 = 4.32MM
∴ OK use 1 no 152x89x16kg UB as shown

check padstones
load = 4.56+6.30/2 = 10.86 KN p/s plan 450x100
= 10.86x10³/450x100 = 10860/45000 = 0.24 ∴ use 450L naylor R6 conc. lintols as padstones.

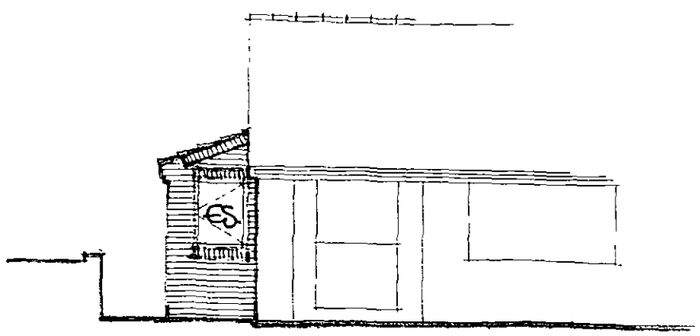


PROPOSED SIDE VIEW FROM NO 56.

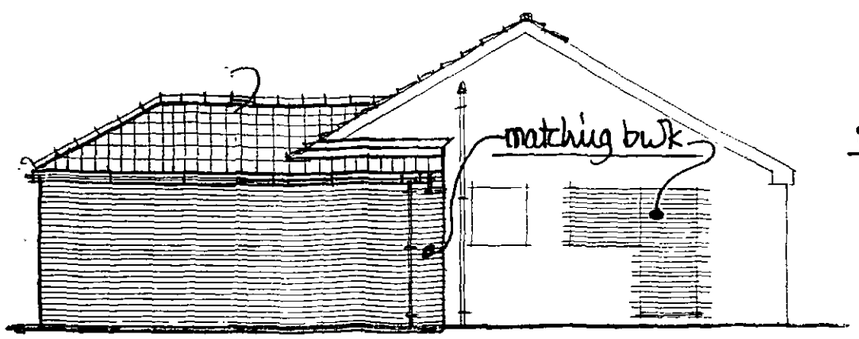
thermal check = new floor area = 27.80 ∴ 25% = 6.956m²
covered/lost = 0.92x2.05 = 1.89
1.20x1.05 = 1.26
1.20x2.05 = 2.45
1.80x1.20 = 2.16
total = 7.76
7.76 / 14.710 allowed

prop = 0.9x1.20 = 1.08
1.2x2.05 = 2.45
0.92x2.05 = 1.89
0.90x1.05 = 0.95
2x1.5x0.80 = 2.40
8.77M². ∴ OK.

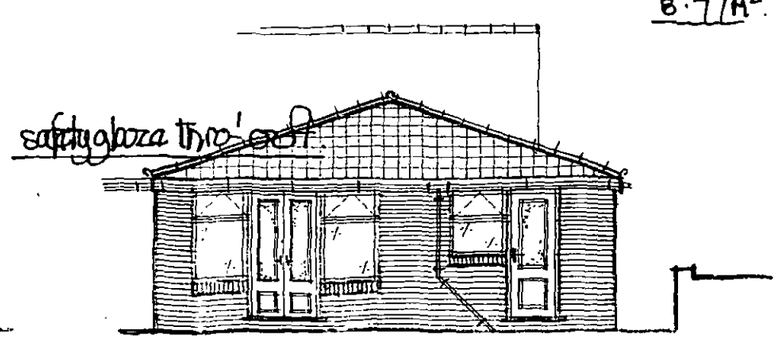
PROPOSED FRONT VIEW.

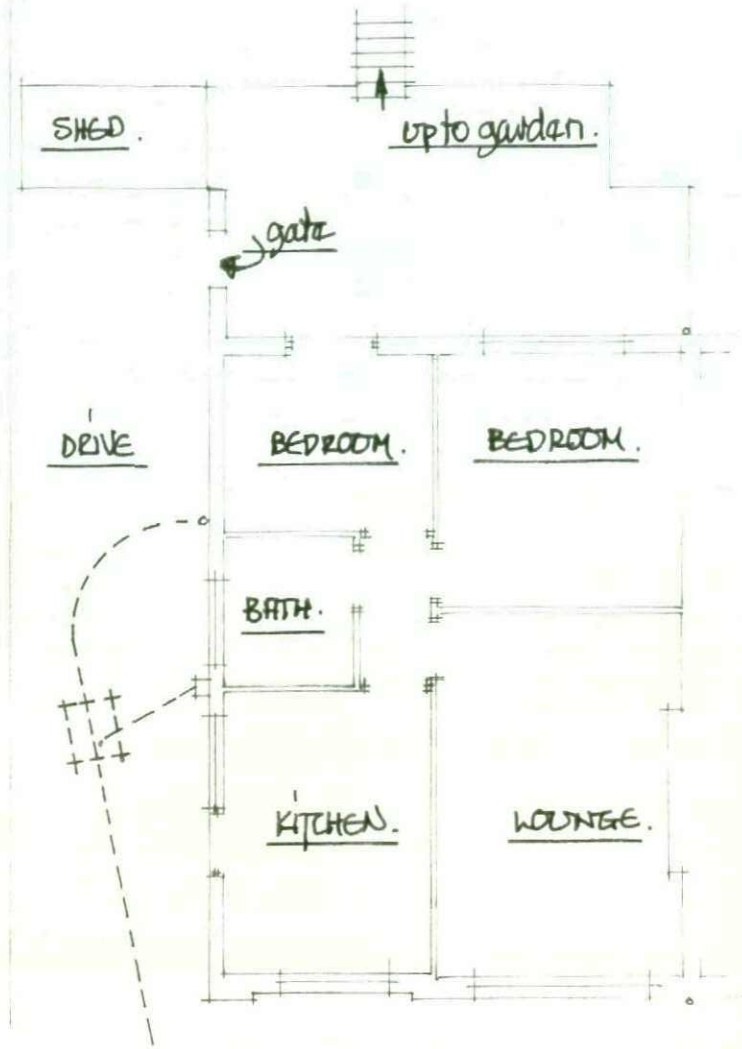


PROPOSED SIDE VIEW FROM DRIVE.

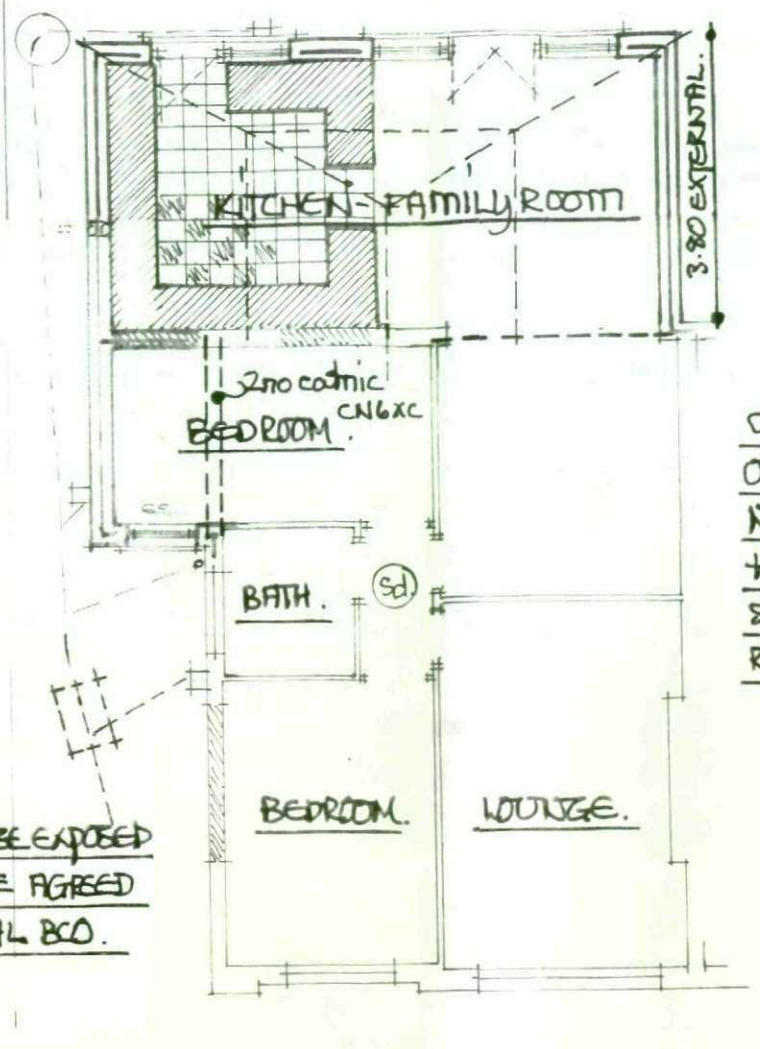


PROPOSED REAR VIEW.





EXISTING FLOOR PLAN.

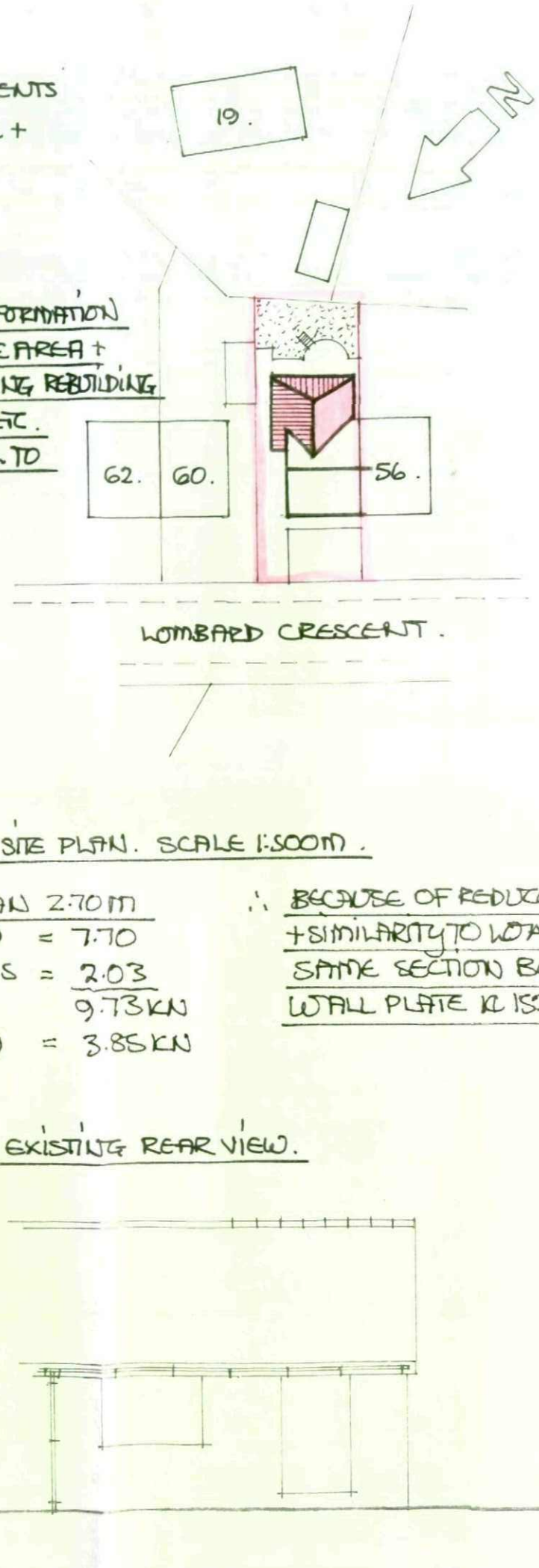


DRAINS TO BE EXPOSED + PIPE TO BE AGREED WITH LOCAL BCO.

PROPOSED FLOOR PLAN.

* ALL FIXTURES + FITMENTS TO CLIENTS CHOICE + POSITIONING *

CONTRACTOR TO DISCUSS FORMATION OF WHEELIE BIN STORAGE AREA + NEW PATIO AREA - INCLUDING REBUILDING + REPOSITIONING WALLS ETC. SUPPORT TO HIGHER LEVEL TO REMAIN.



SITE PLAN. SCALE 1:500m.

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CHECK SUPPORT TO FAMILY ROOM SPAN 2.70m

LDEX ROOF = 2.7 x 1.5 x 1.9 = 7.70

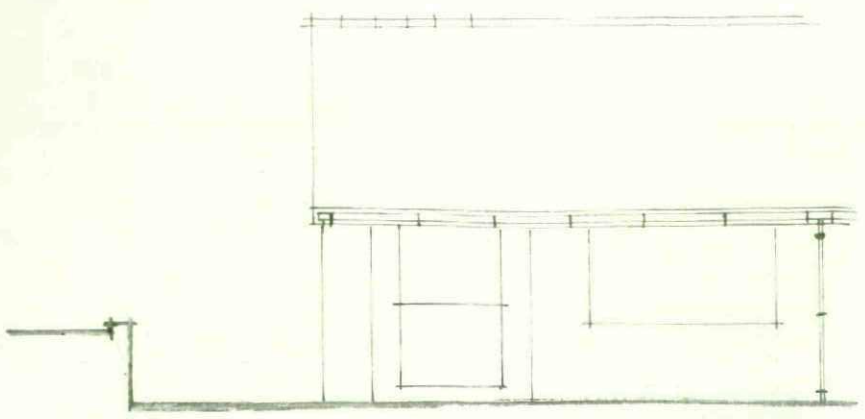
CEILING = 2.7 x 1.5 x 0.5 = 2.03

9.73 KN

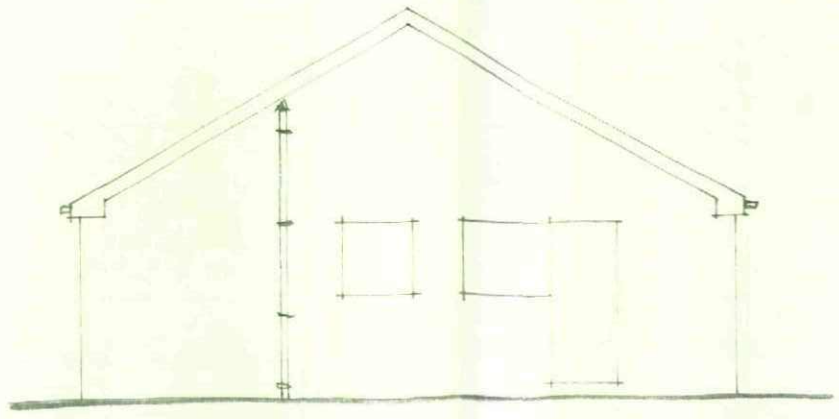
PURLIN LD = 2.7 x 1.5 x 1.9 / 2 = 3.85 KN

∴ BECAUSE OF REDUCED SPAN + SIMILARITY TO LOADS ADOPT SAME SECTION BELOW WALL PLATE 2/ 152 x 89 x 16 kg/m

EXISTING FRONT VIEW.



EXISTING SIDE VIEW FROM DRIVE.



SCALE 1:100m.

EXISTING REAR VIEW.