

BEAM DETAILS

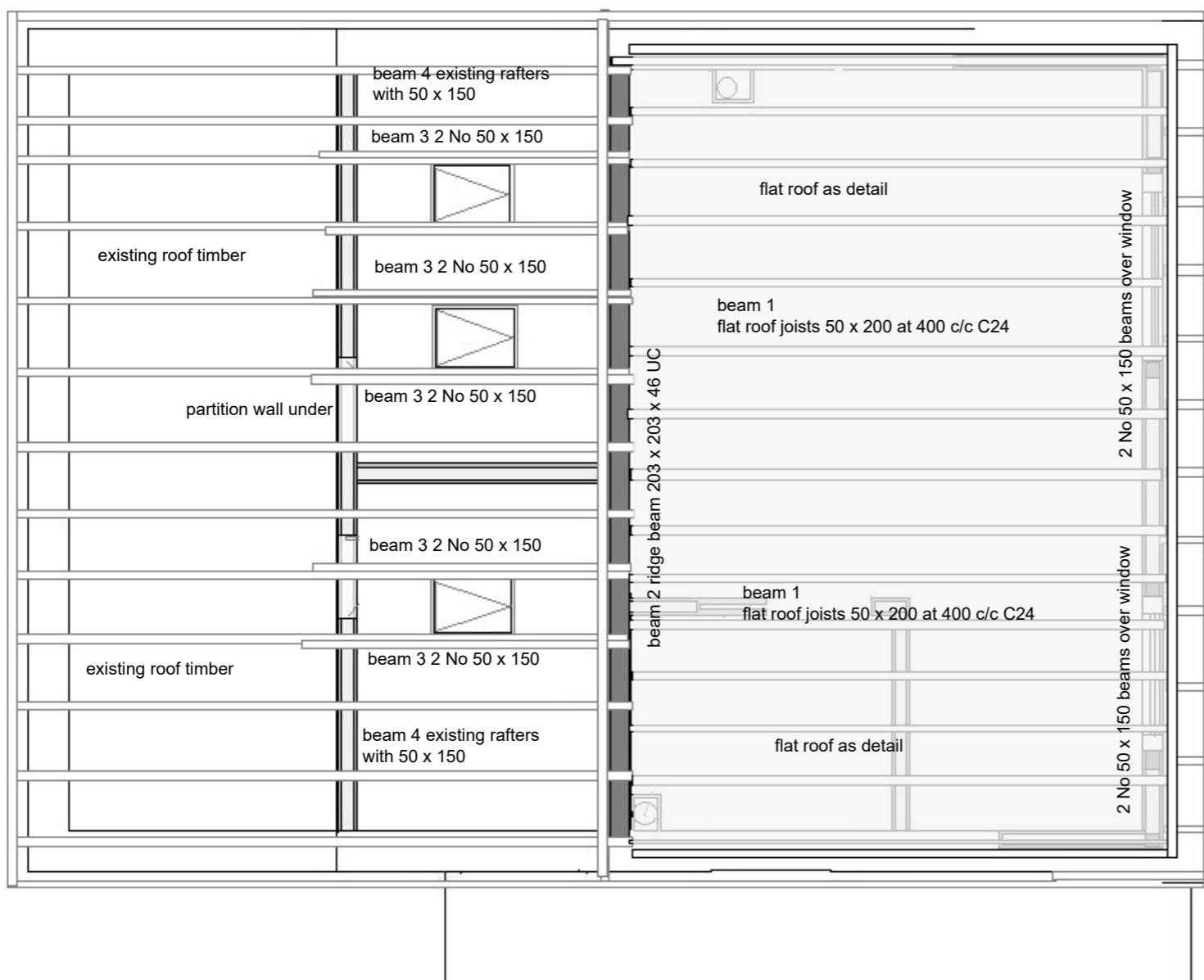
- Should Any Conflict Between Details And Measurements On This Drawing Or On Other Drawings, Then Surrey Building Services Should Be Informed Prior To Construction On Site
- Until Full Approval Of Both Planning And Building Regulations (And Any Other Approval Applicable) Has Been Granted From The Relevant Authorities, It Should Be Understood That All Drawings Are Preliminary And Are Not For Construction. Should Work Commence Prior To Such Approvals Being Granted It Is Entirely At His Or Her Own Risk
- Copyright All Drawings Remain The Copyright Of Surrey Building Services And May Not Be Copied, Altered Or Reproduced In Any Way Without Written Authority.



SERVICE HOLES

- holes to be circular
- less than 100 mm dia
- less than 1/3 rd beam depth ie 50 mm for 150 mm beam depth
- placed at center of beam depth

PROPOSED ROOF PLAN 1 : 50



0 1 2 3 4 5m
1 : 100 @ A3

0 1 2m
1 : 50 @ A3

Job number: 11381

ITEMS:

1: Beam: DORMER ROOF JOISTS
Span: 4.2 m.
Reactions (unfactored/factored): R1: 1.89/1.89 kN; R2: 1.89/1.89 kN
Use 50 x 200 C24

2: Beam: RIDGE BEAM
Span: 6.3 m.
Reactions (unfactored/factored): R1: 22.48/22.48 kN; R2: 22.48/22.48 kN
Use 203 x 203 x 46 UC S355
Bearing R1: 20 mm m.s. bearing plate, size 450 x 100 mm
Bearing R2: As R1

3: Beam: RAFTERS TO EACH SIDE OF ROOF WINDOWS
Span: 2.5 m.
Reactions (unfactored/factored): R1: 2.74/2.74 kN; R2: 2.24/2.24 kN
Use 2no 50 x 150 C16

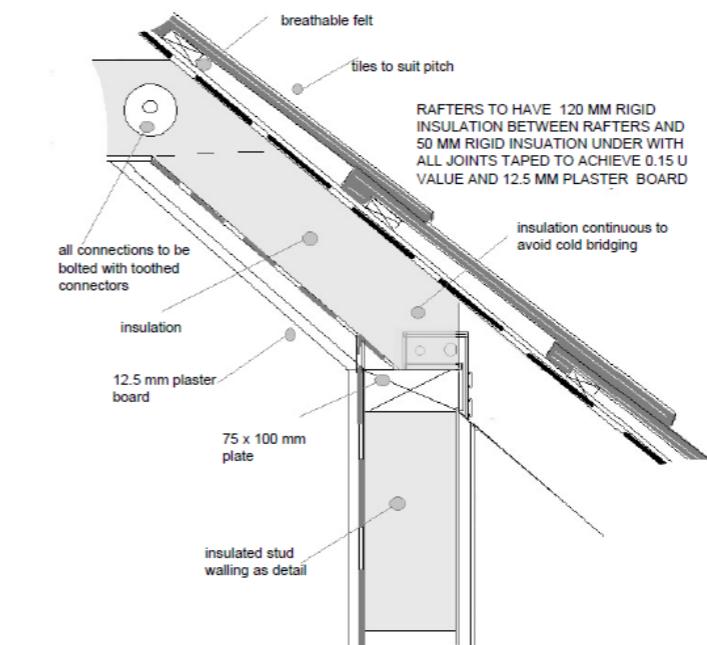
4: Beam: EXISTING RAFTER
Span: 2.5 m.
Reactions (unfactored/factored): R1: 1.59/1.59 kN; R2: 1.59/1.59 kN
Use 50 x 150 C16
RUN ALONG SIDE EXISTING TRUSS TIMBER

5: Beam: FLOOR JOISTS TO LOFT FLOOR
Span: 4.0 m.
Reactions (unfactored/factored): R1: 1.80/1.80 kN; R2: 1.80/1.80 kN
Use 50 x 200 C16

6: Beam: BEAM BELOW FRONT PARTITION WALL
Span: 6.3 m.
Reactions (unfactored/factored): R1: 25.55/25.55 kN; R2: 25.55/25.55 kN
Use 254 x 148 x 43 UB S355
Bearing R1: 25 mm m.s. bearing plate, size 550 x 100 mm
Bearing R2: As R1

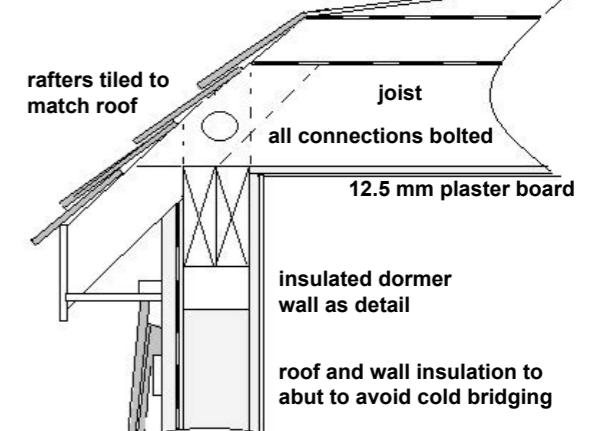
7: Beam: CENTRAL BEAM TO FLOOR
Span: 6.3 m.
Reactions (unfactored/factored): R1: 23.04/23.04 kN; R2: 21.47/21.47 kN
Use 254 x 148 x 37 UB S355
Bearing R1: 20 mm m.s. bearing plate, size 500 x 100 mm
Bearing R2: 20 mm m.s. bearing plate, size 450 x 100 mm

8: Beam: CENTRAL BEAM TO FLOOR
Span: 6.3 m.
Reactions (unfactored/factored): R1: 23.04/23.04 kN; R2: 21.47/21.47 kN
Use 203 x 203 x 46 UC S355
Bearing R1: 20 mm m.s. bearing plate, size 500 x 100 mm
Bearing R2: 20 mm m.s. bearing plate, size 450 x 100 mm



SKEILING DETAIL

flat roof warm roof with 150 mm rigid insulation over VCL & 18mm board above and below insulation with VCL below insulation with either GRP roofing system or three layer hot bonded felt to BS 747 with mineral chippings all to achieve 0.15 U value



FLAT ROOF DETAIL

SBS

Surrey Building Services
Architectural & Building Consultants

James Templeman : 07793433353 Email : surreybuildingservices@gmail.com

Client No. No. Revision
11381 10 BR

Client Name : Mrs Howe

Address
12 Heather Close
Finchampstead
Berks
RG40 4 PX

Proposal
PROPOSED LOFT CONVERSION WITH
REAR DORMER

Scale 1:100 1:50

Paper Size A3