

ROOF COVERING

SELECTED MATCHING ROOF TILES/SLATES NAILED TO TREATED S.W. BATTENS WITH LAP TO SUIT ROOF PITCH IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS OVER 'TYVEK' BREATHABLE SARKING FELT LAID OVER RAFTERS AS SPECIFIED. 300MM FIBREGLASS QUILT INSULATION OVER AND BETWEEN JOISTS ON 9MM PB AND SKIM CEILING.

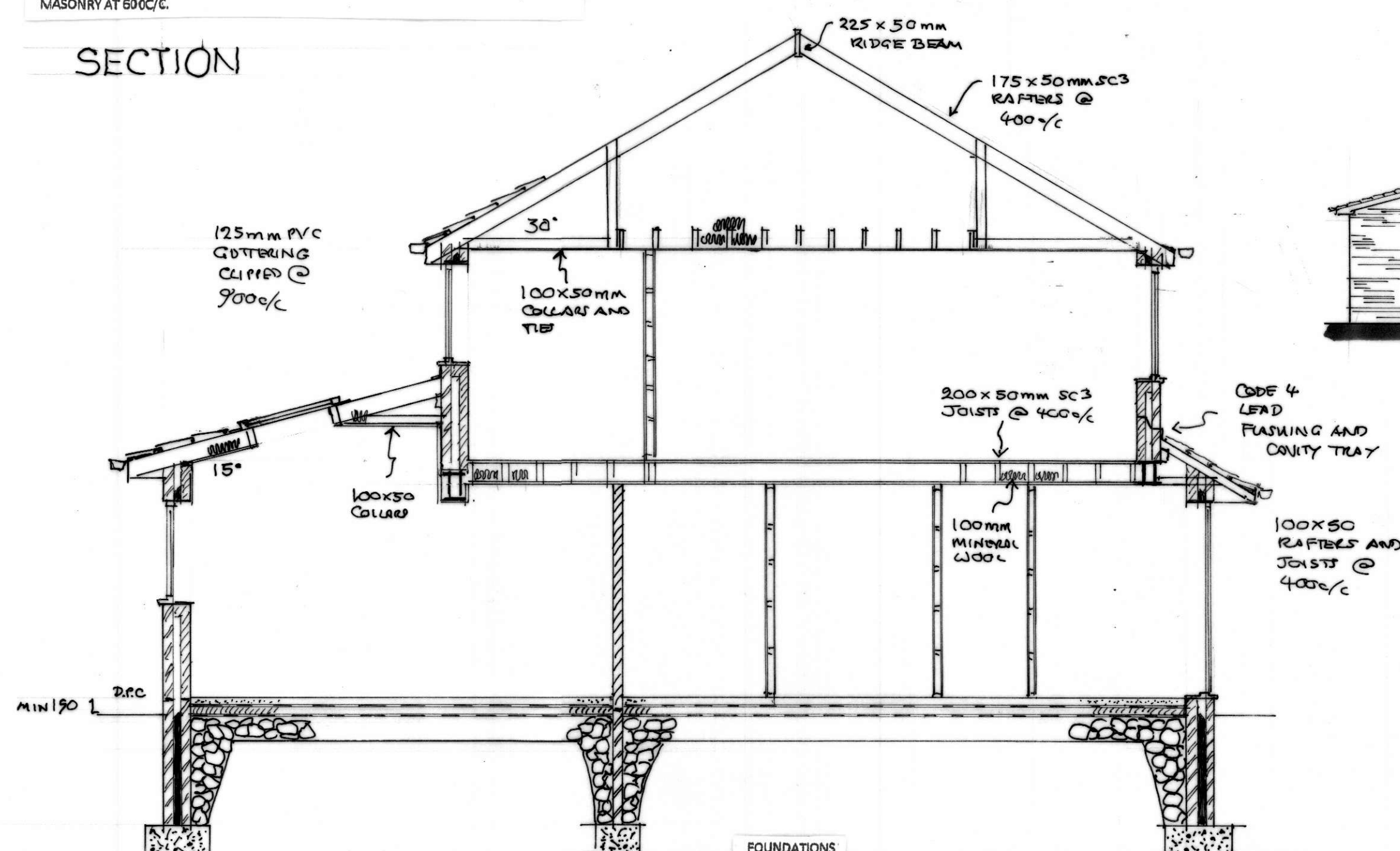
ROOF CONSTRUCTION

175 X 50MM SC3 RAFTERS AT 400MM C/C 150MM KINGS PAN E.P.S. INSULATION BETWEEN RAFTERS ON 16MM PLY FIXED TO U/SIDE WITH 9MM PB CEILING. ENDS OF RAFTERS TO BE BIRDSMOUTHED ONTO WALL PLATES END RAFTERS TO BE RAWL BOLTED TO GABLE END MASONRY AT 600C/C.

WALL CONSTRUCTION

TWO COAT SAND CEMENT RENDER TO MATCH EXISTING ON 100MM CONCRETE BRICKWORK OR SELECTED FACING BRICK OUTER LEAF 100MM CAVITY WITH ROCKWOOL INSULATION BATS FULL FILL 100MM CONCRETE BRICKWORK INNER LEAF WITH TWO COAT PLASTER FINISH TO GIVE A MAXIMUM 0.28 U VALUE. STAINLESS STEEL CAVITY TIES TO BE PROVIDED AT 450 = 750MM CENTRES AND AT 300MM CENTRES AROUND ALL OPENINGS. INSULATED 'THERMABATE' OR SIMILAR CAVITY CLOSERS WITH INSULATED CATNIO OR I.G. PROPRIETARY GALV. STEEL UNTOLS TO BE PROVIDED OVER ALL CAVITY WALL OPENINGS WITH A MINIMUM 150MM END BEARING. TIMBER STUD PARTITIONS 75 X 50MM STUDDING WITH MINERAL WOOL INFILL AND 12MM PB AND SKIM BOTH SIDES.

SECTION



FIRST FLOOR CONSTRUCTION

MOISTURE RESISTANT 21MM T&G BOARDING NAILED TO FLOOR JOISTS AS SPECIFIED WITH STRUTTING AT 300 SPAN 90 X 5 MM GALV. M.S. RESTRAINT STRIPS TO BE PROVIDED AT 1.8M CENTRES TO JOISTS PARALLEL TO WALLS FIXED TO AT LEAST 3 No. JOISTS DOUBLE JOISTS TO BE BOLTED TOGETHER AT 600 C/C PLACED UNDER PARTITIONS FOR SUPPORT. 12MM PLASTERBOARD AND SKIM CEILING.

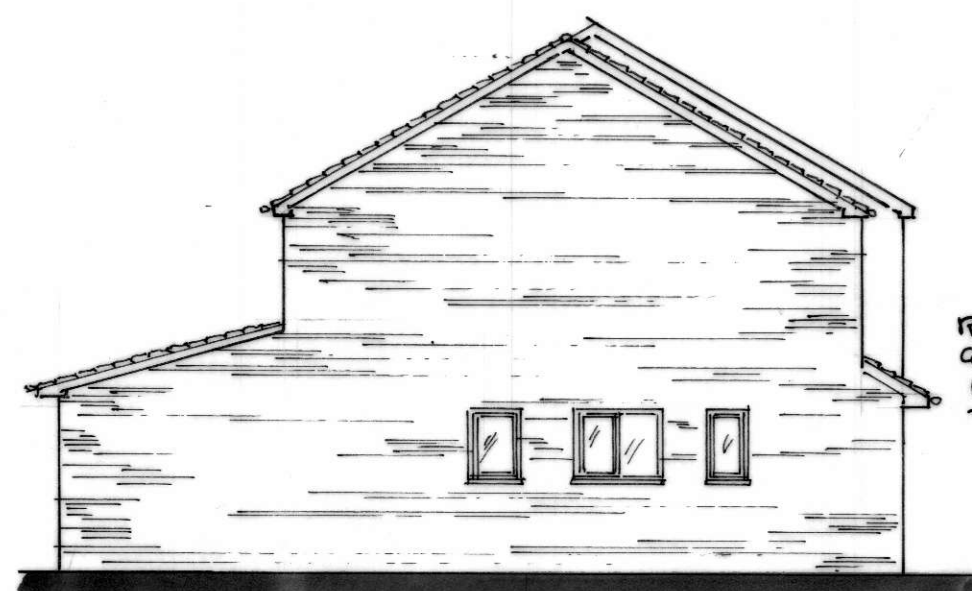
GROUND FLOOR

100MM CONCRETE SLAB WITH SELF LEVELLING SCREED AND FINISH TO CLIENT'S CHOICE ON 120MM 'CELOTEX' ON 1200 G VISQUEEN DPM ON 50MM SAND BLINDING OVER 150MM WELL CONSOLIDATED BRICK HARDWARE. INSULATION BOARD TO BE TURNED UP AT EDGE OF SLAB, D.P.C. AND D.P.M. TO BE LAPPED AND BONDED.

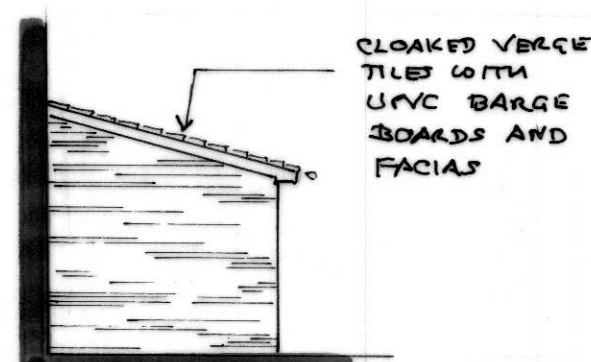
STEEL CHECKS

- (A) 152 x 152 mm 23 kg/m UB SPAN 15.00
LOADS FLOOR 1.5 x 1.7 x 2.5 (W) = 6.375 KN
BM $W/8 = 1.2 \text{ KNm}$
 $R_d M_{plc} = 7 \text{ cm}$
 $S_p \sqrt{S_{60}} = 4.2 \text{ mm}$
 $S_a \sqrt{S_{60}} = 0.28 = 0.1 \text{ mm}$
OK
- (B) 254 x 146 mm 43 kg/m UB SPAN 4.20
LOADS BULK 2.3 x 4.2 x 2.2 21.52
ROOF 4.5 x 4.2 x 2.0 37.8
FLOOR 1.7 x 4.2 x 2.5 17.85
W 77.17 KN
BM $W/8 = 40.5 \text{ KNm}$
 $R_d M_{plc} = 246 \text{ cm}^3 \text{ OK}$
 $S_p \sqrt{S_{60}} = 11.7 \text{ mm}$
 $S_a \sqrt{S_{60}} = 7.4 \text{ mm} = 5.4 \text{ mm} \checkmark$
OK
- (C) 254 x 102 mm 28 kg/m UB SPAN 4.20
LOADS BULK 2.3 x 4.2 x 2.2 21.52
EXT ROOF 1.5 x 4.2 x 2.0 18.6
W 34.12 KN
BM $W/8 = 17.9 \text{ KNm}$
 $R_d M_{plc} = 109 \text{ cm}^3 \text{ OK}$
 $S_p \sqrt{S_{60}} = 11.7 \text{ mm}$
 $S_a \sqrt{S_{60}} = 32.9 = 3.9 \text{ mm} \text{ OK}$
OK

SIDE ELEVATION



SIDE VIEW



REAR ELEVATION



FRONT ELEVATION



WINDOWS

ALL NEW WINDOWS AND ROOF LIGHTS IN U.P.V.C OR H.W. FRAMES TO HAVE 20MM SEALED DOUBLE GLAZED UNITS INCORPORATING LOW EMISSIVITY 'K' GLASS TO ACHIEVE A MAXIMUM 1.4W/M² K VALUE.

VENTILATION

ALL HABITABLE ROOMS TO HAVE AT LEAST 8000MM³ BACKGROUND VENTILATION PROVIDED THROUGH TRICKLE VENTILATORS BUILT INTO WINDOW FRAMES OR 2 NO 225 X 150MM AIR BRICKS WITH LOUVERED CONTROLLABLE PLASTER VENTS. AT LEAST 4000MM³ BACKGROUND VENTILATION TO BE PROVIDED TO KITCHENS, BATHROOMS AND UTILITY ROOMS. WINDOW FRAMES TO INCORPORATE OPENING VENTS EQUIVALENT TO AT LEAST 5% OF THE FLOOR AREA OF THE ROOM SERVED.

MECHANICAL VENTILATION

ALL BATHROOMS AND SHOWER ROOMS TO BE FITTED WITH A MECHANICAL EXTRACT FAN CAPABLE OF AT LEAST 15 LITRES/SECOND EXTRACT RATE. KITCHENS TO HAVE EITHER A MECHANICAL EXTRACT FAN CAPABLE OF 60 LITRES/SECOND OR A COOKER HOOD CAPABLE OF 30 L/s. MECHANICAL EXTRACT FANS SERVING WINDOWLESS BATHROOM/SHOWER ROOMS/M.C. CUBICLES TO PROVIDE AT LEAST 8 AIR CHANGES PER HOUR WITH A 15 MINUTE OVER RUN FACILITY.

DRAINAGE

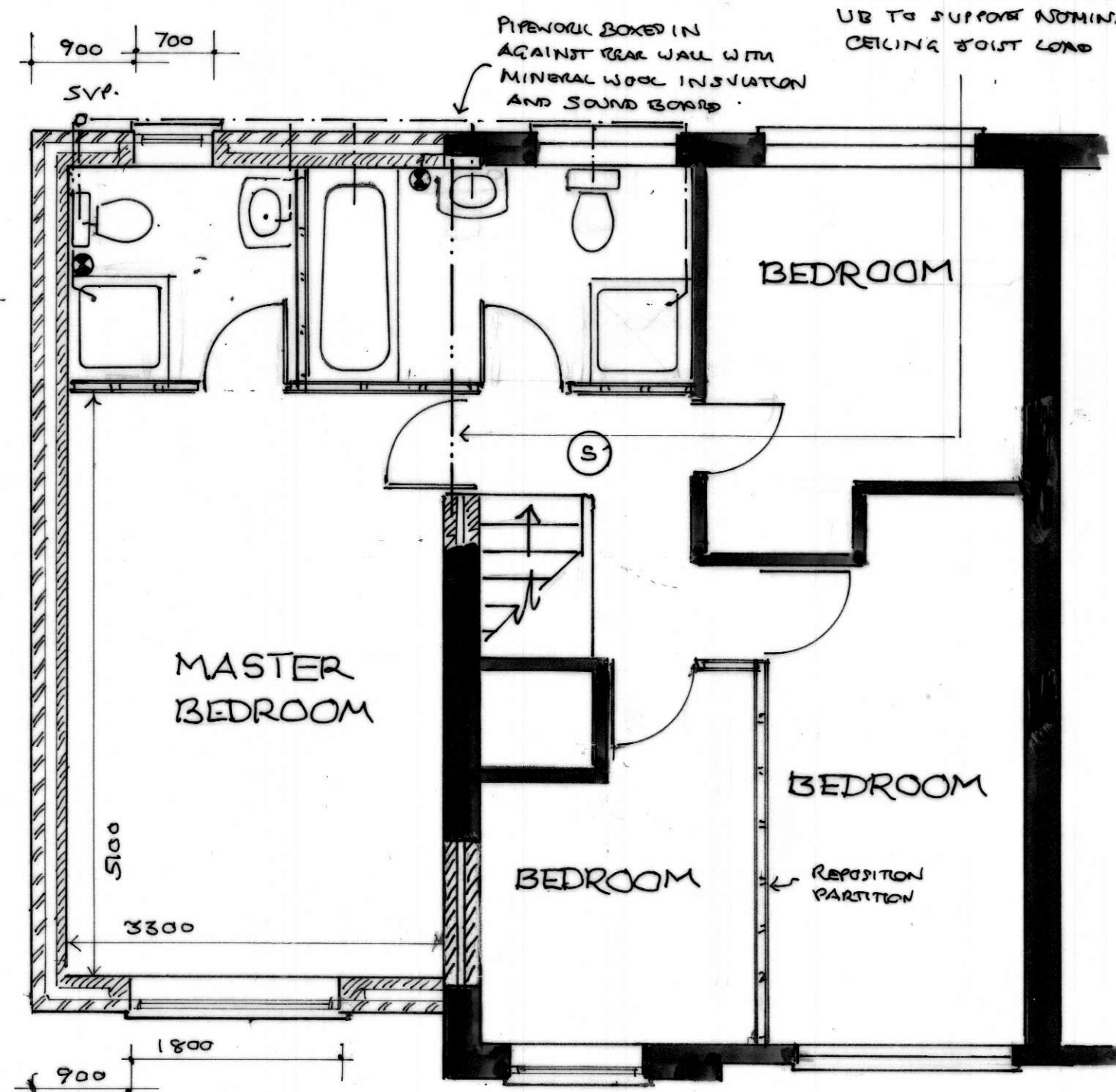
ALL NEW DRAINS TO BE LAID USING 100MM DIAMETER HEPSELEVE OR U.P.V.C PIPES AT 1:40 MINIMUM SELF-CLEANING GRADIENT. DRAINS UNDER BUILDING AND WITHIN 1M OF FOUNDATIONS TO BE ENCASED IN CONCRETE SURROUND, DRAINS PASSING THROUGH FOUNDATIONS TO BE BRIDGED OVER WITH P.C.C. UNTOLS AND ROCKER PIPE USED EITHER SIDE OF WALL. 100MM DIAMETER S.V.P.'S TO RECEIVE UPPER FLOOR FITTINGS WITH WIRE BIRD CAGE TERMINAL AT LEAST 900MM ABOVE THE HIGHEST WINDOW VENT OPENING AND ABOVE ROOF LEVEL. ALL NEW SANITARY FITTINGS TO HAVE ANTI VAC TRAPS WITH WASTES CONNECTED SEPARATELY INTO SOIL STACKS. ALL WASTES TO BE MADE ACCESSIBLE.

GENERAL NOTES

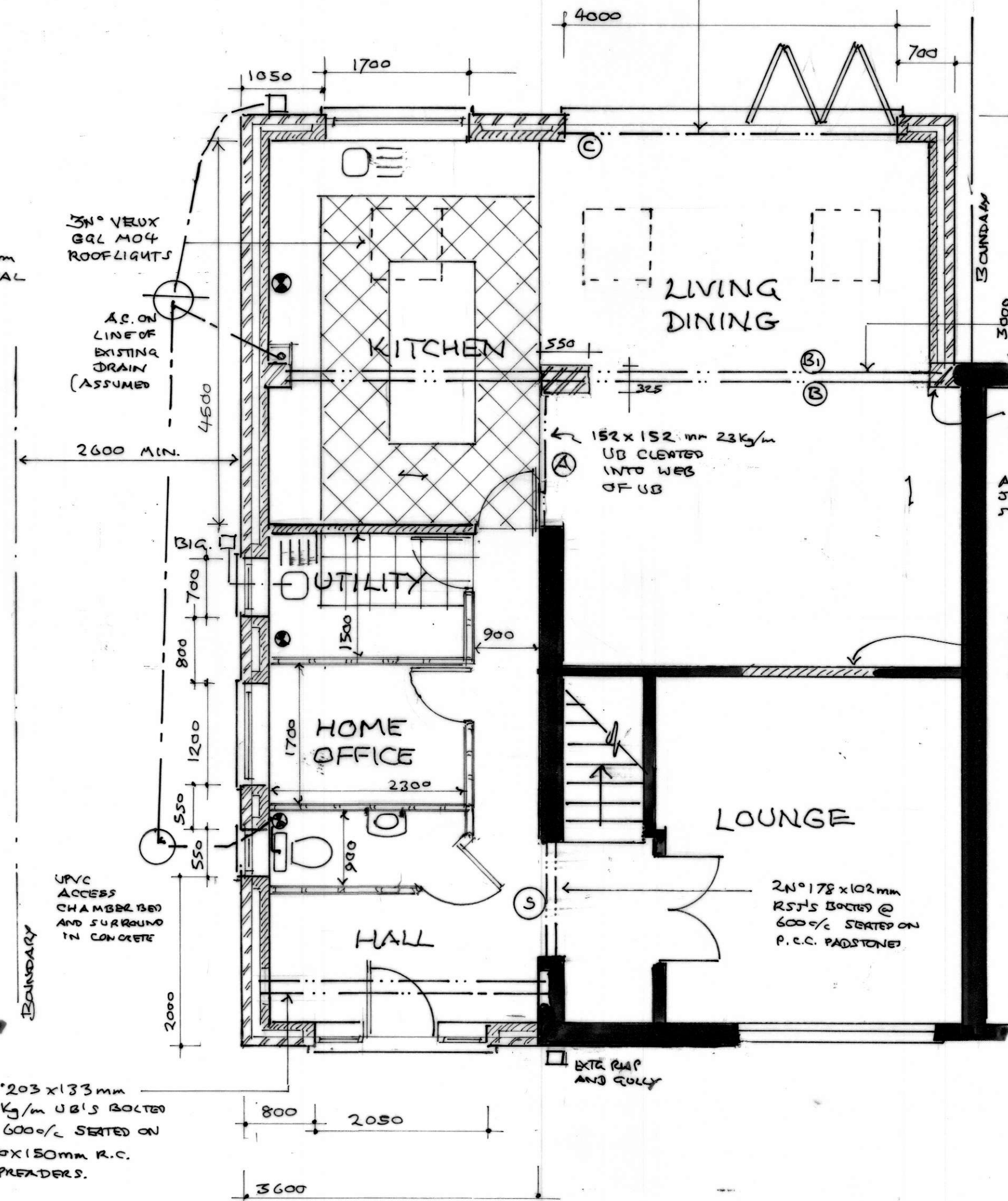
ALL DIMENSIONS INCLUDING ROOF PITCHES TO BE CHECKED BY CONTRACTOR BEFORE WORK COMMENCES. ALL WORK TO COMPLY WITH CURRENT BUILDING REGULATIONS AND CARRIED OUT TO THE COMPLETE SATISFACTION OF THE DISTRICT B.C.O. ALL TIMBER TO BE TREATED WITH PRESERVATIVE. ALL NEW STEELWORK TO BE ENCASED IN 12MM GYPSUM 'FIRELINE' BOARD FOR 30 MINUTES FIRE PROTECTION. ALL GALV. UNTOLS TO BE INSULATED AND ENCASED WITH 12MM PLASTERBOARD AND SKIMFOR 30 MINUTES FIRE PROTECTION. ALL ELECTRICAL WORK TO BE UNDERTAKEN BY NICEIC APPROVED CONTRACTOR WITH AN INSTALLATION CERTIFICATE TO BE PROVIDED ON COMPLETION. ALL NEW RADIATORS TO BE FITTED WITH THERMOSTATIC VALVES AND C.H. BOILERS TO BE REPLACED IF NECESSARY WITH CONDENSING TYPE BOILERS AND INSTALLED BY A CORGI REGISTERED CONTRACTOR. TOUGHENED OR LAMINATED SAFETY GLASS TO BE USED IN ALL CRITICAL LOCATIONS. *

- (S) MAINS AUTOMATIC SMOKE DETECTOR ON A SEPARATELY FUSED CIRCUIT

- CONTINUOUS UB'S
(B) 254 x 102 mm 28 kg/m UB BOLTED TO
(B) 254 x 146 mm 43 kg/m UB @ 600 c/c
SPACED ON 3 No P.C.C. PADSTONES



FIRST FLOOR PLAN



GROUND FLOOR PLAN

CLIENT
MR & MRS G. LEE

SCHEME
TWO STOREY EXTENSION
AT SIDE AND SINGLE
STOREY EXTENSION AT
REAR.

ADDRESS
N°12 TRISPEN CLOSE
HALEWOOD
KNOWSLEY L26 7YP

DRAWING TITLE
PROPOSED

NUMBER
TG 02

REVISION
1

DATE
JAN 2021

SCALES
1:50
1:100