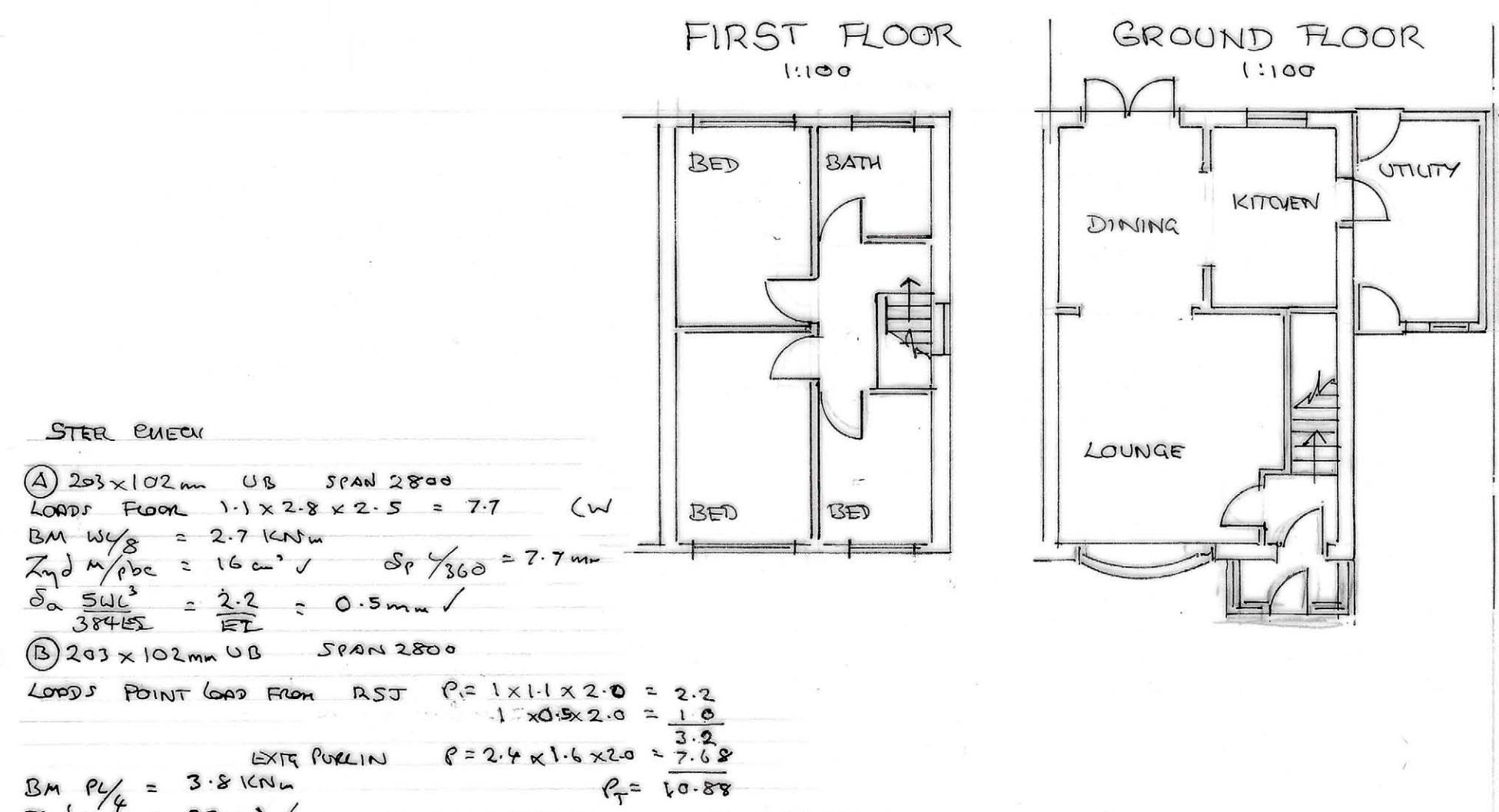




STEEL CHECK

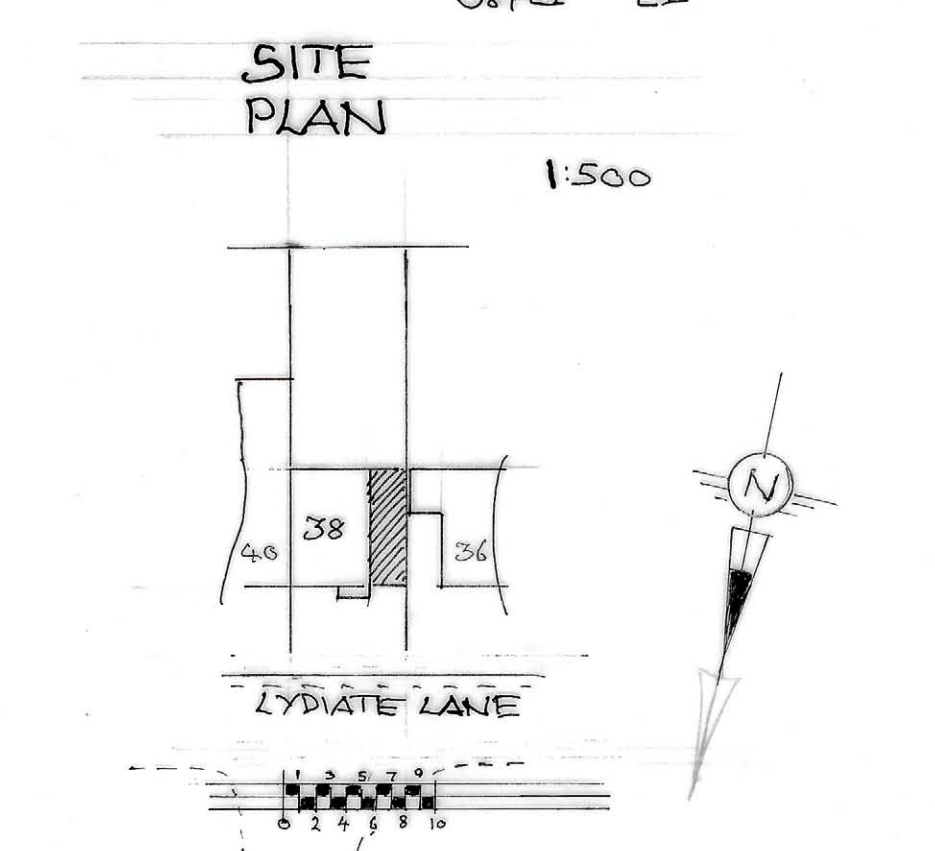
① 203x102mm UB SPAN 2800
 LOADS: Floor 1.1 x 2.8 x 2.5 = 7.7 kN/m
 BM W/S = 2.7 kNm
 Z_{ed} M/P/C = 16 cm³ ✓ Sp 360 = 7.7 mm
 S_a S_{UL} = 2.2 = 0.5 mm ✓
 384ES

② 203x102mm UB SPAN 2800
 LOADS: Point load from RST P = 1 x 1.1 x 2.0 = 2.2
 1 x 0.5 x 2.0 = 1.0
 3.2
 P_r = 10.88

EXT. PURLIN P = 2.4 x 1.6 x 2.0 = 7.68
 P_r = 10.88

BM P_r = 3.8 kNm
 Z_{ed} M/P/C = 23 mm³ ✓
 S_a P_r = 4.98 = 1.1 mm ✓
 48ES

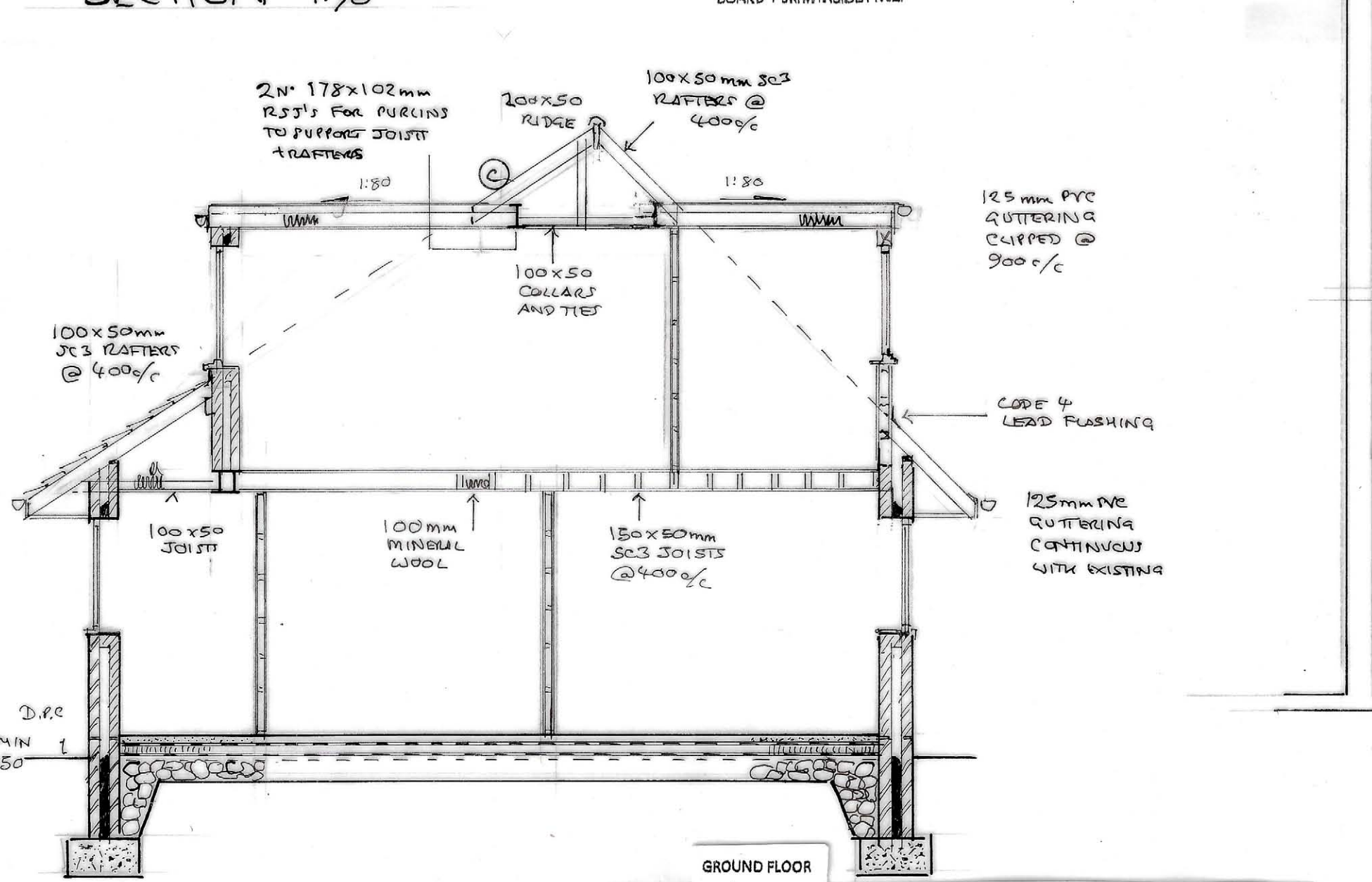
③ 178x102mm R.S.J. SPAN 2200
 LOADS: Roof 1.4 x 2.2 x 2.0 = 6.16
 Roof 0.5 x 2.2 x 2.0 = 2.2
 BM W/S = 2.3 kNm W 8.36 Sp 360 = 6.1
 Z_{ed} M/P/C = 14 cm³ ✓ S_a S_{UL} = 1.16 = 0.4 mm ✓
 384ES



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 'TYPICAL' BREATHABLE SARKING FELT LAID OVER RAFTERS AS SPECIFIED. 300MM FIBREGLASS QUILT INSULATION OVER AND BETWEEN JOISTS ON 9MM PB AND SKIM CEILING.

SECTION 1:50

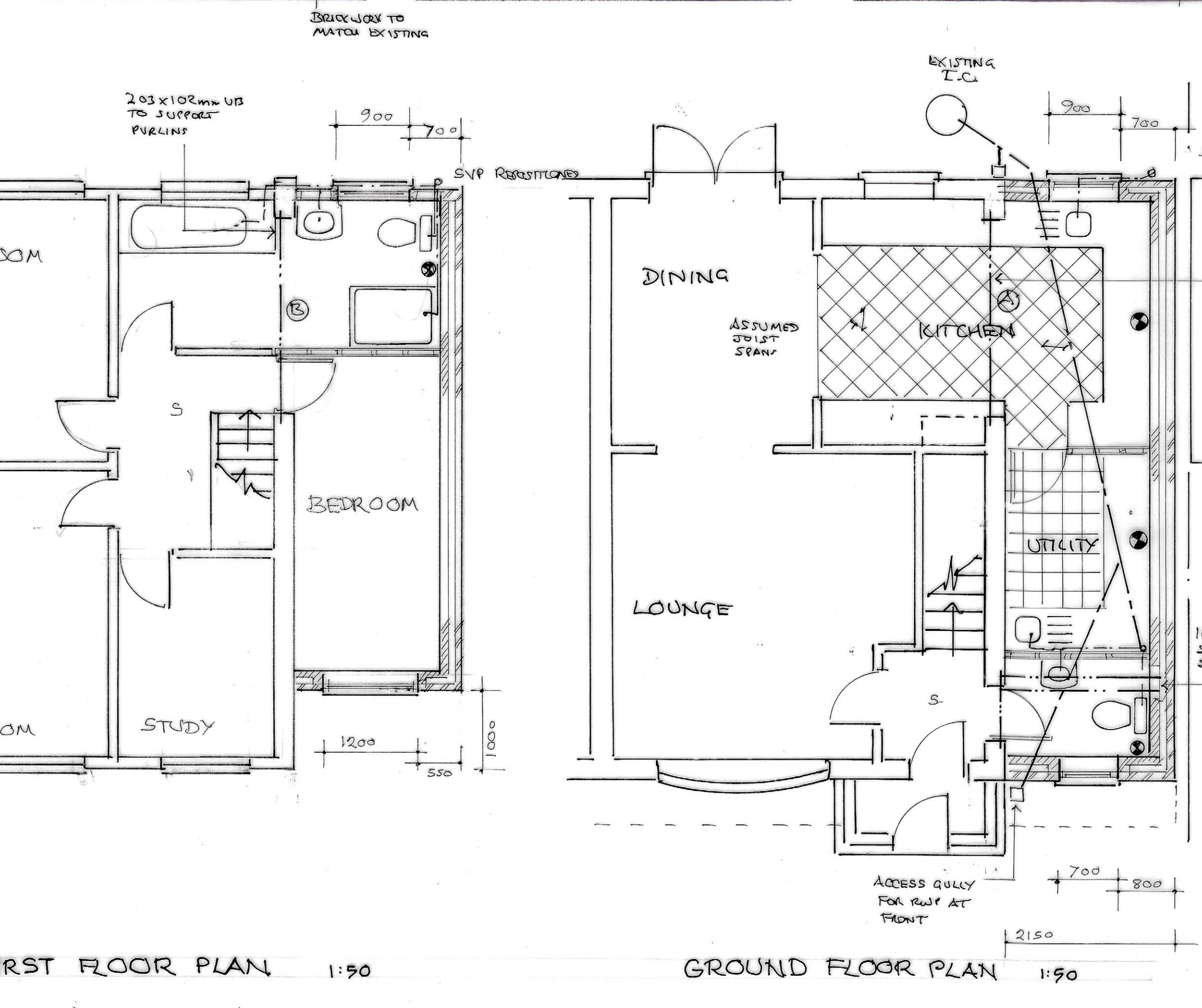
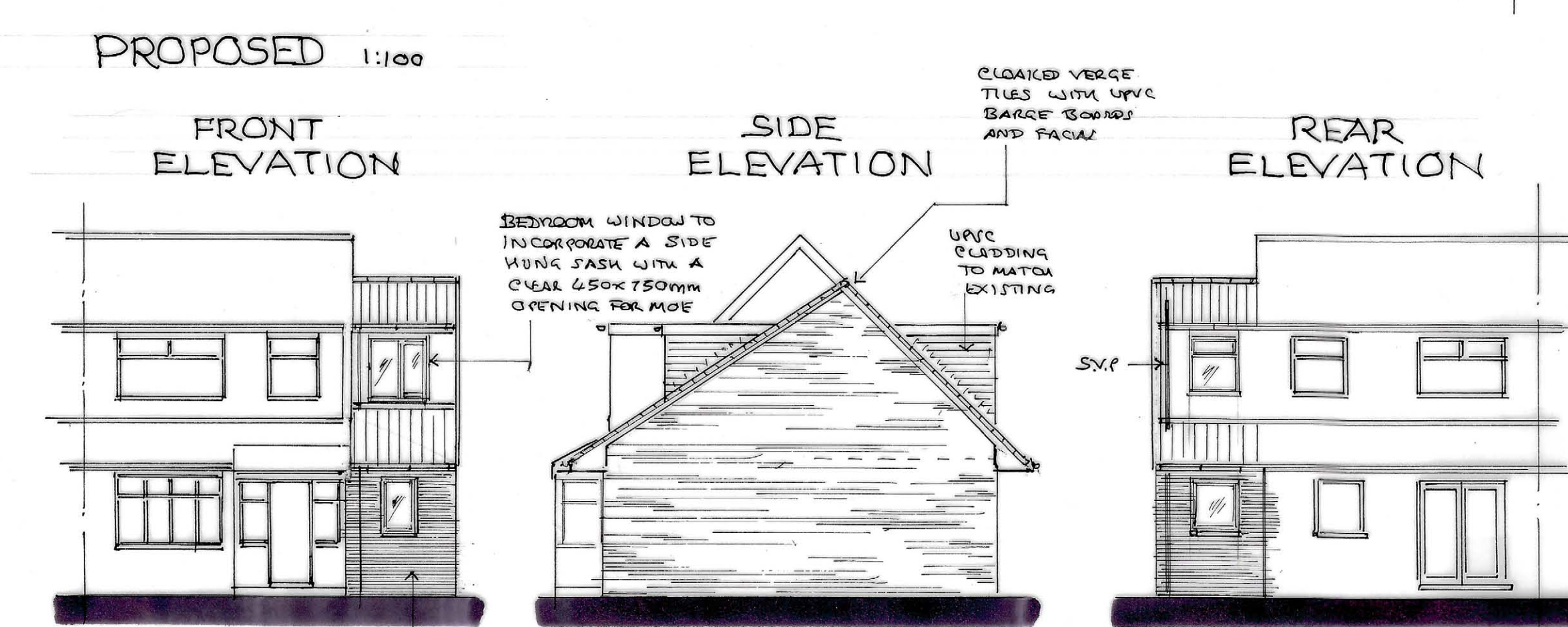
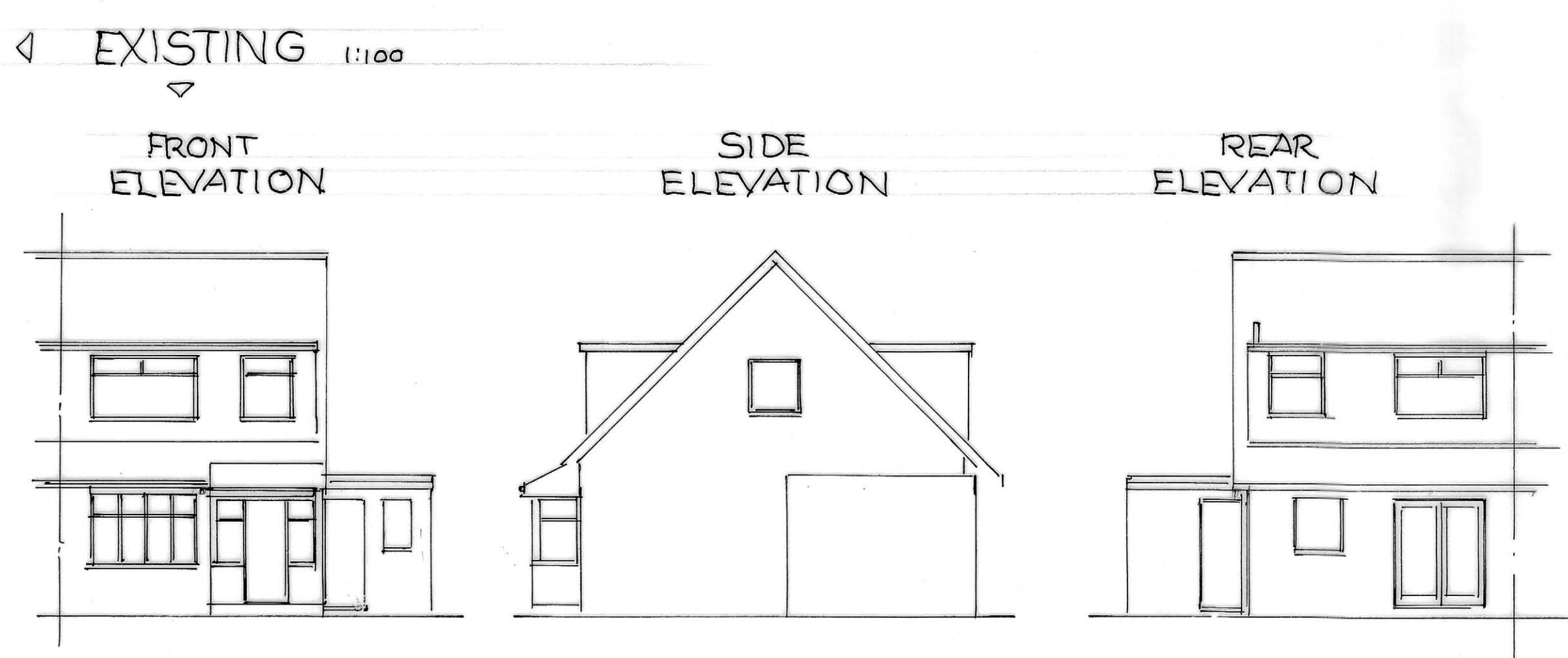


FOUNDATIONS

TWO LEAVES BRICKWORK BELOW D.P.C. LEVEL WITH CONCRETE CAVITY FILL UP TO 225MM BELOW D.P.C. LEVEL STRIP CONCRETE FOOTINGS MINIMUM 600MM X 200MM THICK AT LEAST 1000MM DEEP BEARING ON FIRM CLAY SUBSTRATA, OVERALL SIZE AND DEPTH TO SUIT GROUND CONDITIONS IN AGREEMENT WITH THE B.C.O./A.I.

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.



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/W.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. LINTOLS 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. LINTOLS 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.

CLIENT		
MR. S. HUGHES		
SCHEME		
TWO STOREY EXTENSION AT SIDE		
ADDRESS		
38 LYDIAT LANE HALEWOOD L25 9RZ		
DRAWING TITLE	NUMBER	REVISION
DATE	SCALE	1:50 1:100
JULY 2022		

