



FLAT ROOF JOISTS, 195 X 47 (7'9" X 1'8") AT 400 (16") CRS PAIRED TO SIDES + AS TRIMMERS TO ROOF RAFTS, IN JOIST HANGERS ONTO 175 X 47 (7'9" X 1'8") WALLPLATE SECURED BY M16 WALL BOLTS AT MAX 600 (20') CRS TO EXIST WALL. 75-5 (3'-1/4") TAPERED FILLETS, WITH 150(6) GAP ON LOW + HIGH SIDE OF ROOF RAFTS, FOR VENTILATION PURPOSES. 19 (3/4") MARINE PLYWOOD SHEET, + POLYROOF 185" GLASS REINFORCED POLYESTER RESIN, INCLUDING FLASHING TO WALL + ROOFLIGHTS. FALL 1 IN 57.

150(6) KINGSPAN KT BETWEEN JOISTS TO LEAVE MIN 50 (2") AIR GAP ABOVE. 500 GAUGE VAPOUR BARRIER + MIN 20 (3/4") BACKED 12.5 (1/2") PLASTERBOARD (K17) + SKIM UNDER. U VALUE 0.15.

100 X 50 (4" X 2") WALLPLATE SECURED BY 3/8 BATHSTRAPS AT MAX 2.0 (6'6") CRS

115 (4 1/2") CUTTING ON 250 (10") FACIA BOARD. 65 (2 1/2") DOWNPIPES, ALL IN U/VIC TO DISCHARGE INTO BACK INLET GULLY + TO EXIST S.W. DRAIN

CATNAC STEEL UNTEL CYL 310 (206 X 133 X 30) U.B. + 6mm PLATE SWL. 83 KN. ON MIN 150 (6") THICK CONC. PAD STONES. EACH END. ENCASE IN 2 LAYERS 12.5 (1/2") PLASTERBOARD. JOINTS STAGGERED + SKIM. FULL ALL WBS WITH KINGSPAN KB. VERTICAL + LINTEL OPC.

MIN 150(6) GROUND TO DPC/FLOOR

0 FOUL

0 SW

25(1) AIR GAP CONTINUOUS ALONG RAFTS + AT JUNCTION TO EXIST WALL. FIT FLYSCREENS

REMOVE EXIST ROOF + GABLE FROM EXISTING EXTENSION

4.6 LEAD FLASHING

800 SQ OPENING, 980 SQ OVERALL SIZE FLAT ROOF WINDOWS. U VALUE 1.2 VELUX CFP 0073 GV

150(6) HARDWARE, SCREENED WITH SAND, 1200 GAUGE VISQUEEN D.P.M. 100(4) KINGSPAN KB. 500 GAUGE VAPOUR BARRIER + 100 (4) CONCRETE + APPLICANTS CHOICE OF FINISH. MIN 25 (1") PERIMETER INSULATION TO CONC. U VALUE 0.18

SECTION AA



- 1) ALL TIMBERWORK TO BE TREATED WITH A PRESERVATIVE
- 2) CAVITIES AROUND OPENINGS, INCLUDING LINTELS, TO BE INSULATED TO PREVENT COLD BRIDGING, + CLOSED WITH MIN 1/2 HOUR FIRE RESISTANT MATERIAL.
- 3) ALL ELECTRICAL WORK TO BE DESIGNED, INSTALLED, INSPECTED + TESTED IN ACCORDANCE WITH BS.7671 (IEE WIRING REGS - LATEST EDITION) + WORK UNDERTAKEN BY AN INSTALLER REGISTERED UNDER SUITABLE ELECTRICAL SELF CERTIFICATION SCHEME, OR QUALIFIED PERSON SUPPLYING A CERTIFICATE OF COMPLIANCE TO BUILDING CONTROL.
- 4) ALL ELECTRICAL SOCKETS + SWITCHES TO BE LOCATED BETWEEN 450 + 1200 (1'6" + 3'11") ABOVE FLOOR.
- 5) PROVIDE INTERNAL LIGHT FITTINGS CAPABLE OF TAKING EFFICIENT LAMPS, MIN 75 LUMENS PER CIRCUIT WATT. EXTERNAL LIGHTS TO BE EITHER EFFICIENT AS ABOVE, OR ON A TIMER + AUTOMATICALLY EXTINGUISHED IN DAYLIGHT
- 6) SPACE HEATING TO BE VIA EXISTING MAINS GAS COMBI BOILER + RADIATOR SYSTEM EXTENDED.
- 7) GLASS PANELS IN DOORS TO BE TONGUED / LAMINATED TO BS 6206 (1982)
- 8) INTERNAL DOORS TO HAVE MIN 806 (27'3/4") TO GIVE MIN CLEAR OPENING WIDTH OF 750 (2'5 1/2")
- 9) KITCHEN / DINER TO HAVE OPENING DOORS / WINDOWS EQUAL TO 1/20 TOTAL FLOOR AREA + SHORTAGE OF SAME TO EXIST LOUNGE, + MIN 3 OFF 8000 mm² (13 m²) TRIPLE VENTS (WITHIN EXIST + NEW FRAMES). KITCHEN TO ALSO INCLUDE 60 LITRE/SEC EXTRACTION FAN, MAX 45 dB AT NORMAL RUNNING.
- 10) ALL DRYLINING BOARDS TO HAVE JOINTS + EDGES TAPE SEALED + ALL ELECTRICAL BACKBOXES, CONDUITS ETC. TO BE SEALED WITH MASTIC / FOAM TO MAINTAIN AIRTIGHTNESS. ENSURE INSULATION IS CONTINUOUS AT JUNCTIONS OF ROOF, WALLS + FLOOR.
- 11) ALL DRAINAGE TO BE TO THE SATISFACTION OF LOCAL AUTHORITY. EXISTING MAINS FOUL + SURFACE WATER SEWERS SERVE.
- 12) HOME OWNER TO BE PROVIDED WITH AN 'EXISTING HOME' VENTILATION GUIDE, EXPLAINING HOW TO USE + VENTILATE EFFICIENTLY, BY BUILDER PRIOR TO COMPLETION.
- 13) CONSERVATION OF ENERGY DETAILS (EXTENSION)
  - U VALUE OF GROUND FLOOR ... 0.18, U VALUE OF WALLS ... 0.18, U VALUE OF FLAT CEILING ... 0.15.
  - FLOOR AREA OF EXTENSION, INCLUDING WALL THICKNESS = 13.5 m² ∴ 25% = 3.376 m² } TOTAL 11.956 m² (MAX NEW OPENINGS AT BASIC U VALUES)
  - AREA OF OPENING LOST DUE TO EXTENSION = 8.58 m²
  - AREA OF UPVC DOOR / WINDOW UNIT, 20 mm GAP D/G, EG SYSTEM 3, 1.1 NEUTRAL LOW'E AIRFILL, U VALUE 1.4 = 7.56 m² } 4.4908 m² (GR)
  - AREA OF ROOF LIGHTS, FIXED, 3 LAYER GLASS UNITS, VELUX SPAC, FOR CFP 0073 GV U VALUE 1.2 = 1.92 m²
- 14) A MAINS OPERATED FIRE DETECTION / ALARM SYSTEM TO BE INSTALLED TO BS. 5839-6, 2006, GRADE 'D', CATEGORY L03, WITH SMOKE ALARMS TO BS. EN 14604, SHOWN (5) + HEAT ALARMS TO BS. 5446-2, SHOWN (4), LOCATED ON CEILINGS, MIN 300 (12") FROM WALLS + LIGHT UNITS, + WITH SENSORS BETWEEN 25 + 600 (1'2 1/2") BELOW CEILINGS. ALL INTERCONNECTED SO ALL SOUND WITH DETECTION BY ANY ONE UNIT, MAINS SUPPLY TO BE A SINGLE INDEPENDANT CIRCUIT, + DETECTORS TO HAVE A STANDBY POWER SUPPLY - EG BATTERY.
- 15) DOORSET + ROOFLIGHTS TO BE DRAUGHT SEALED, + FRAMES SEALED INTO WALL / ROOF WITH MASTIC, + BE OF 'SECURE DESIGN', TO BS. PAS 24:2012 OR EQUIVARIANT.

PROPOSED EXTENSION AT 5 BANKHEAD, HAVERICG, MILLOM FOR MR. M. BROCKBANK.

