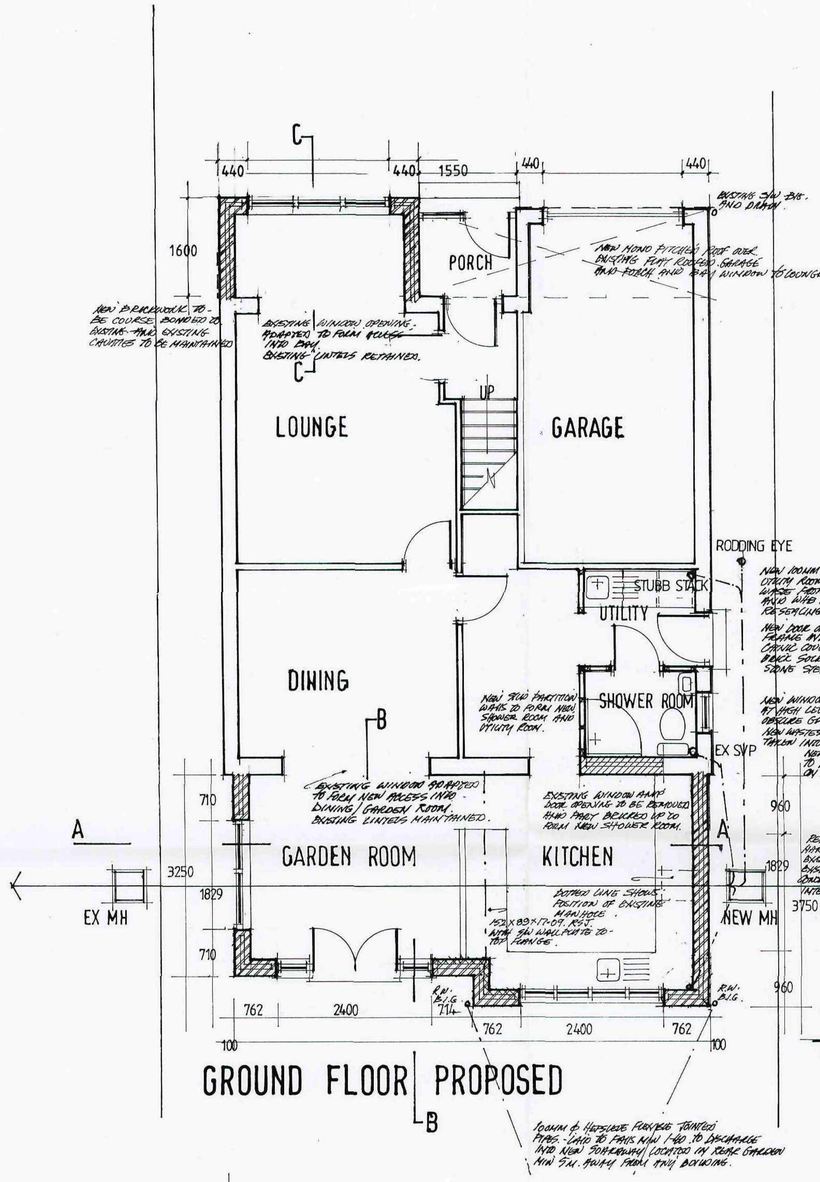
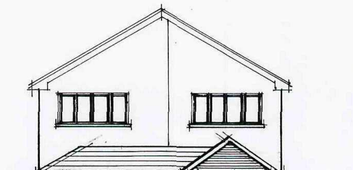


GROUND FLOOR PROPOSED



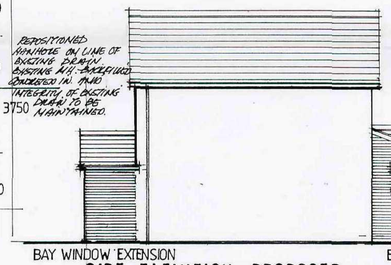
FRONT ELEVATION PROPOSED



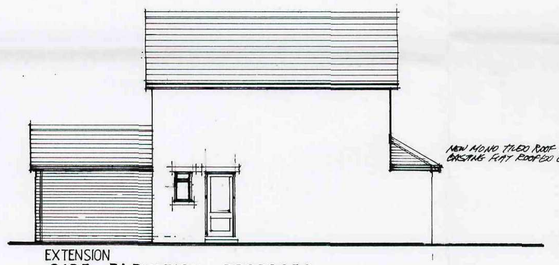
REAR ELEVATION PROPOSED



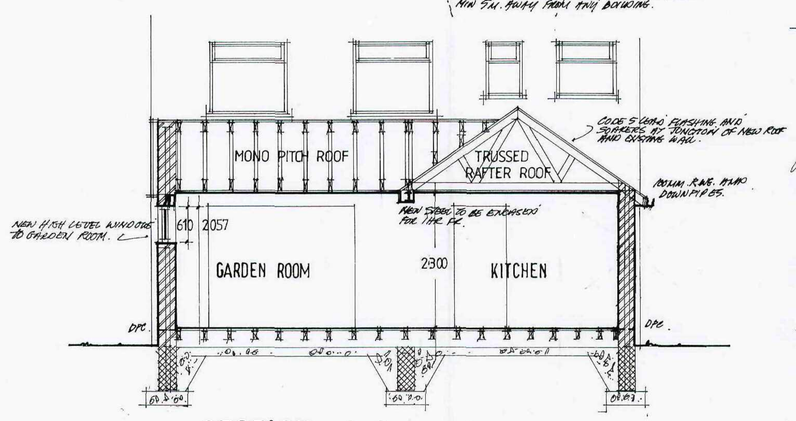
LOCATION PLAN 1:1250



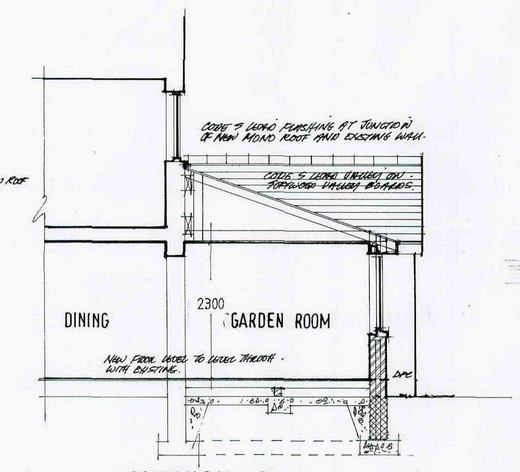
SIDE ELEVATION PROPOSED



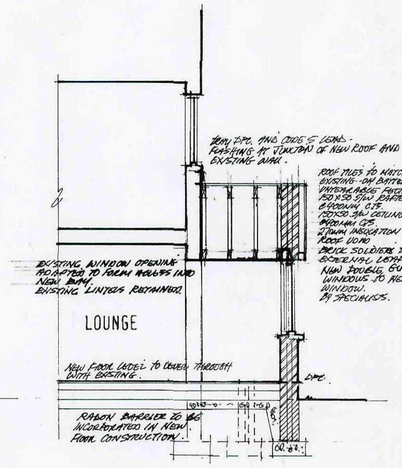
SIDE ELEVATION PROPOSED.



SECTION A A



SECTION B B



SECTION C C

WALL CONSTRUCTION

103MM FACING BRICKWORK TO MATCH EXISTING AND TO BE COURSE BONDED TO EXISTING, ALL EXISTING CAVITIES TO BE MAINTAINED.
100MM CAVITY WITH 50MM KINGSPAN THERMAWALL TW 50 ZERO ODP - WITH 100MM INTERNAL BLOCKWORK WITH 40MM KINGSPAN THERMAWALL TW 50 ZERO ODP INSULATED PLASTERBOARD AND SKIM FINISH. ALL TO ACHIEVE MIN U VALUE OF 0.27 W/M²K TOL.
STAINLESS STEEL DOUBLE TWIST WALL TIES 5 PER M² AND EVERY COURSE AT REVEALS. - 150MM HORIZONTALLY AND 450MM VERTICALLY.
DPC'S TO ALL JAMBS, CILLS AND LINTELS. - VERTICAL DPC TO ALL OPENINGS.
225 X 50MM TERRA COTTA AIR BRICKS @ 900MM CTS AND 450MM FROM CORNERS.
AIR BRICKS TO BE BOXED THROUGH WITH TRAY DPC'S TO BE MIN 150MM ABOVE GROUND LEVEL.
THERMALITE TRENCHBLOCKS BELOW GROUND LEVEL.
610 X 225 CONCRETE STRIP FOUNDATIONS TAKEN BELOW INVERT LEVEL OF ADJACENT DRAIN AND TO SITE CONDITIONS.
STANDARD CATNIC COUGAR INSULATED STEEL LINTELS OVER OPENINGS WITH BRICK SOLDIERS TO OUTSIDE FACE

ROOF CONSTRUCTION – TRUSSED

NEW CONCRETE RIDGE TILES AND CONTINUOUS EAVES VENTILATION WITH MAIN ROOFING TILES ALL TO MATCH EXISTING TILES. - ON SOFTWOOD TANALISED ROOFING BATTENS TO SUIT. - ON REINFORCED ROOFING FELT TO B.S. 747. - LAPPED INTO GUTTERS ON PATENT TRUSSED RAFTERS - ALL TO COMPLY WITH B.S. 5268 - PART 3 DETAILS AND CALCULATIONS FOR TRUSSES TO BE FORWARDED TO LOCAL AUTHORITY PRIOR TO COMMENCEMENT ON SITE. TRUSSED RAFTERS TO BE TAKEN INTO 100 X 75 MM S/PLATE WALLPLATES - FIXED DOWN WITH M10 STEEL ANCHORS TRUSSES TO HAVE LONGITUDINAL, DIAGONAL AND HORIZONTAL BRACING - INTERNAL RESTRAINT TIES TO GABLES GABLES - MIN 75MM MINERAL FIBRE INSULATION TO ROOF VOID WITH INSULATED PLASTERBOARD AND SKIM FINISH ALL TO ACHIEVE MIN 'U' VALUE OF 0.16 W/M²K TOL.

ROOF CONSTRUCTION - MONO

ROOFING TILES TO MATCH EXISTING WITH REDLAND THRUVENT TILES AND CONTINUOUS EAVES VENTILATION - ON 38 X 50 SOFTWOOD TANALISED ROOFING BATTENS TO SUIT ON REINFORCED ROOFING FELT TO B.S. 747 - LAPPED INTO GUTTERS - ON 150 X 50 MM SOFTWOOD RAFTERS AND 150 X 50 SW CEILING JOISTS @ 400MM CENTRES - ALSO 100 X 75 SW WALLPLATES FASTENED DOWN WITH M10 BACHER. - 200 X 9 MM S/W WALLPLATES. RAWLBOLTS TO MAIN WALL @ 1.5m CENTRES.
125 X 50 SW TRIMMERS FIXED TO RAFTERS / CEILING JOISTS TO FORM 'H' READER - 100MM INSULATION - INSULATION PINNED AND SKIM FINISH.
ALL TO ACHIEVE MIN 'U' VALUE OF

FLOOR CONSTRUCTION

22MM SOFTWOOD TONGUED AND GROOVED FLOORBOARDS ON 150 X 50 SW FLOOR JOISTS @ 400MM CENTRES WITH 100MM INSULATION OF 'YORKLITE' INSULATION BETWEEN JOISTS - ALL TO ACHIEVE MIN 'U' VALUE OF 0.20 W/M²K.
100MM CONCRETE SLAB ON CONSOLIDATED HARDCORE MIN 150MM SAND BETWEEN UNDERSIDE OF FLOOR SLAB AND TOP OF OVERSITE CONCRETE.

GENERAL

MINIMUM AREA OF HABITABLE ROOMS TO BE MIN 1/10TH OF FLOOR AREA WITH VENTILATED OPENINGS MIN 1/20TH FLOOR AREA
TRICKLE VENTILATION MIN 5000 MM².
ALL GLAZING TO COMPLY WITH NEW APPROVED DOCUMENT 'L' USING PILKINGTONS 'K' GLASS WITH LOW E SOFT COATING + 16MM CAVITY
'U' VALUES OF 1.8 W/M²K TOL TO WINDOWS.
GLAZING TO BE SAFETY GLAZING TO B.S. 6206.
SMOKE ALARMS / DETECTORS TO BE PROVIDED TO LANDING, GROUND FLOOR, HALLWAY AND FIRST FLOOR LANDING - TO BE INTERLINKED AND WIRED BACK TO A SEPERATELY FUSED CIRCUIT ON THE CONSUMER UNIT.
ALL ELECTRICAL WORK TO COMPLY WITH APPROVED DOCUMENT 'P' AND INSTALLED BY A COMPETENT DOMESTIC INSTALLER AND A COMPLETION CERTIFICATE TO BE PROVIDED ON COMPLETION.
EXISTING HEATING INSTALLATION TO BE EXTENDED INTO EXTENSIONS WITH THERMOSTATICALLY CONTROLLED VALVES TO EACH RADIATOR - ALL TO BE INSTALLED BY CORGI - REGISTERED INSTALLER.
MECHANICAL EXTRACTION TO KITCHEN / SHOWER ROOM AND UTILITY ROOM - TO ACHIEVE MIN 60 LITRES PER SEC FROM KITCHEN AND 30 LITRES PER SEC TO UTILITY AND SHOWER ROOM.

DRAINAGE

NEW 100dia Ø HEPSLEEVE FLEXIBLE JOINTED PIPES TO BE EMBEDDED IN 150MM PEA GRAVEL OUTSIDE BUILDING AND ENCASED IN 150MM CONCRETE UNDER EXISTING BUILDING. - BEARING TO BE LINOLEUM OVER WHERE PASSING THROUGH WALLS.
NEW DRAINS TO BE LAID TO FALLS MIN 1:40 AND TO CONNECT TO NEW MANHOLE ON LINE OF EXISTING DRAIN.
NEW MANHOLE CONSTRUCTED OF 225 MM CLASS 'B' ENGINEERING BRICKS ON 150 MM CONCRETE BASE.
EXISTING A.H. COVER TO BE RE-USED.
100dia Ø WASTES FROM WC'S AND 38mm Ø UNC WASTES FROM BATH, SHOWER - WITH 75MM RESEALING TRAPS. - RODDING ACCESS AT END OF RUN (MAX) - AND ON ANY BEND ABOVE GROUND LEVEL.

CALCULATION FOR STEEL TO SUPPORT WALL PLATE SPAN 3m

Loading
Trussed roof = 3 cwt 1.9 kN/m² x 2m = 11.4 kN/m
Mono roof = 3 cwt x 1.9 kN/m² x 1m = 5.7 " "
Self wt = 3 cwt x 0.3 kN/m = 0.9 " "
Total load w = 18.00 kN/m

$M = wl/8 = \frac{18 \times 3}{8} = 6.75$ kNm

f_{by} / N° 152 x 89 x 17.09 kg R.S.T.

$Z_{xx} = \frac{3 \times 10^{6}}{190 \times 10} = 150$ $P/Y = 18.4$ $P_{BC} = 122$ N/mm².

$Z_{xx\,REQ} = M/P_{BC} = \frac{6.75 \times 10^{6} \times 10^{3}}{122 \times 190} = 55.30\,cm^{3}$ (115.6 cm³ : ok)

$\delta = \frac{5wl^{3}}{384EI} = \frac{5 \times 18 \times 10^{3} \times 3^{3} \times 10^{9}}{384 \times 207 \times 10^{9} \times 8501.1 \times 10^{6}}$

$= \frac{2430 \times 10^{5}}{700 \times 10^{5}} = 3.47$ mm (<8.3mm : ok)

∴ USE 1/N° 152 x 89 x 17.09 kg R.S.T. GRADE 43 STEEL WITH 100 x 75 x 10 WALLPLATE TO TOP FLANGE BUNGT IN AT ENDS TO PROVIDE TORSIONAL RESTRAINT AND SUPPORTED ON 150mm THICK CONCRETE PADSTONES.

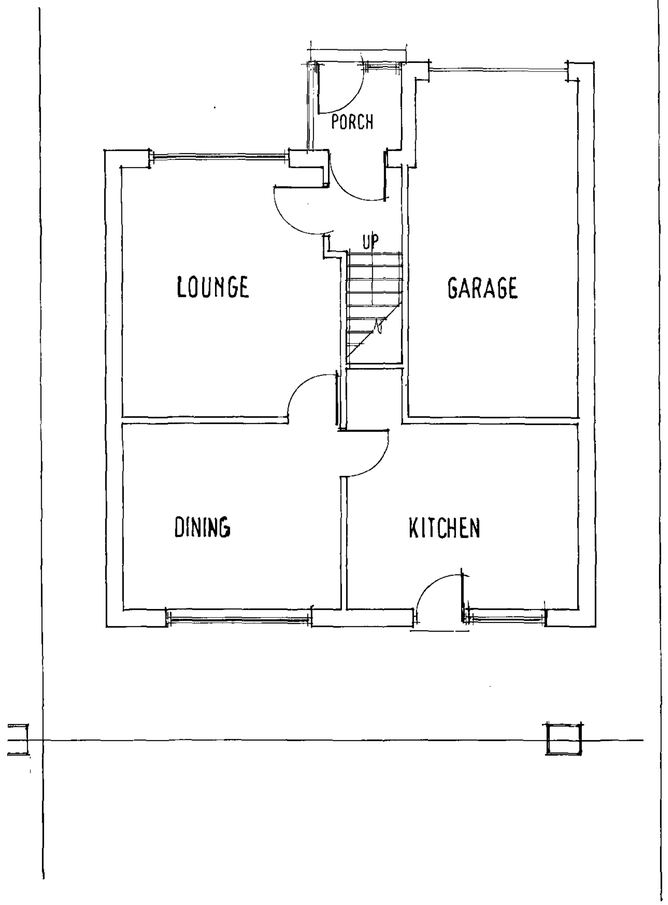
NOTE
This drawing is for obtaining Planning permission and Building Regulations Approval only. The successful Building contractor is to carry out a Site Survey, including levels, before commencing works.
The builder is responsible for ensuring that all works to be carried out are to the requirements of the Building Regulations and the relevant current codes of practice to the satisfaction of the District Building Surveyor.

PROPOSED SINGLE STOREY EXTENSIONS TO FRONT AND REAR ELEVATIONS AT
20 BASLOW CRESCENT.
DODWORTH
BARNSLEY
S 75 3 SG

SCALE 1:50 1:100
DATE MAY 08
DRAWN R HARRIS

2008 : 028 : 02

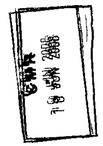
Millé design
esd R. Harris F.C.S.D. M. E. Harris B.A.hons design & construction
Architectural planning, building & interiors
tel: & fax: 0114 2886929

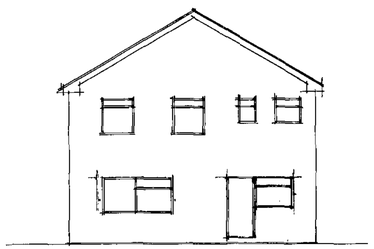


GROUND FLOOR EXISTING

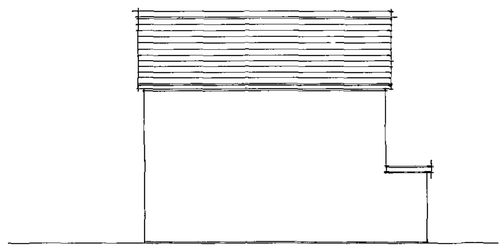


FRONT ELEVATION

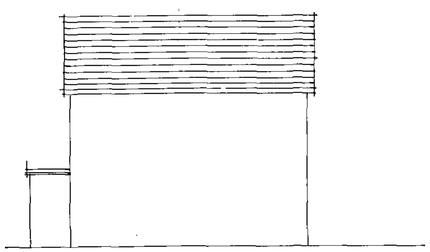




REAR ELEVATION



SIDE ELEVATION



SIDE ELEVATION

AS EXISTING

20 BASLOW CRESCENT
DODWORTH
BARNSLEY
S 75 3 SG

SCALE 1:50 1:100
DATE MAY 08
2008·028·01
DRAWN R HARRIS

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0114 2886929

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design & construction