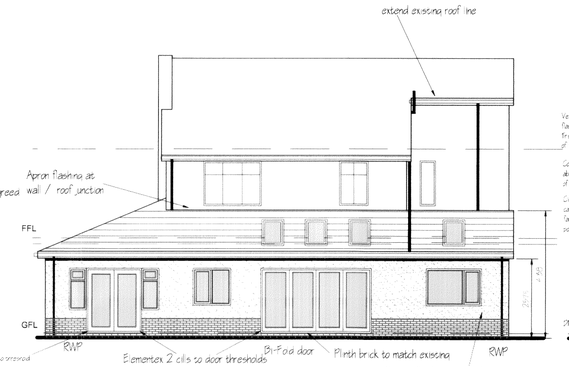
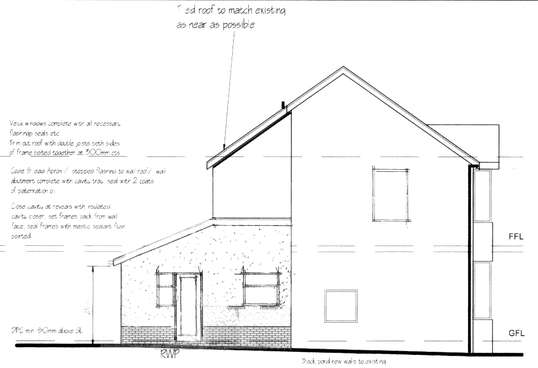
Ex. FRONT ELEVATION (unaltered)



Ex. REAR ELEVATION



Ex. GABLE ELEVATION

THE CLIENT SHOULD NOTE THAT THE DRAWINGS ARE FOR BUILDING REGULATIONS PURPOSES ONLY AND THAT THE CLIENTS OWN CONTRACTOR AND SUB-CONTRACTORS SHOULD LIASE WITH REPRESENTATIVES FROM THE LOCAL AUTHORITY FIRE DEPT, STATUTORY UNDERTAKERS AND ANY OTHER RELEVANT BODIES,TO ENSURE THAT THE WORKS COMPLY TO THEIR REQUIREMENTS AND CODES OF PRACTICE.
ANY MODIFICATIONS, AS A RESULT TO BE AGREED.
ALL DIMENSIONS TO BE CHECKED ON SITE
ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH RELEVANT BRITISH STANDARDS CODES OF PRACTICE AND BUILDING REGULATIONS.
ALL TO THE SATISFACTION OF THE LOCAL AUTHORITY.
ALL WORK TO COMPLY WITH REQUIREMENTS OF COVENANTS OR AGREEMENTS,RELATED TO THE PROPERTY.
NONE OF THE WORKS SHOULD ENCROACH UNTO THE ADJACENT PROPERTY WITHOUT THE EXPRESS PERMISSION OF THE NEIGHBOURING OWNER.
THE CONTRACTOR IS TO ENSURE AND CONFIRM FOR HIMSELF THE LOCATION, POSITION AND SIZES OF ALL EXISTING SERVICE CABLES/DUCTS SURROUNDING AND WITHIN THE SITE TO ENSURE THAT NO DAMAGE OCCURS DURING CARRYING OUT OF THE WORKS. THE CLIENT IS TO TAKE RESPONSIBILITY FOR THE APPOINTMENT OF A PARTY WALL SURVEYOR TO MAKE THE NECESSARY NOTICES TO ADJOINING PREMISES WHERE THE PARTY WALL ACT 1997 APPLIES.

Window fenestration to match existing
Usable area 1 / 20m² floor area
Opening lights 1 / 20m² floor area
Escape window as per approved plans
Frames set back from wall face and sealed with mastic sealant. Fix vertical

Ex. GABLE ELEVATION

NOTES:
(WHERE APPL.CABLE - ALL DIMENSIONS TO BE CHECKED ON SITE)
This specification and all other drawings to be checked and verified by the contractor prior to work commencing on site. This drawing is not to be used for construction purposes unless approved by the Local Authority.
This drawing has been prepared to comply with the current Building Regulations June 2006. Extension is be built in accordance with the Robust Construction Details as produced by the DTLR.

Specification
The intension of the drawing and specification is not to detail every aspect and or item of material to be used. It is expected that the contractor shall have the necessery experience and knowledge to undertake the works as is depicted in this drawing/specification. Where discrepancies occur between the drawing and specification this shall be brought to the attention of the client prior to submission of the quote. Where this is no the case it shall be deemed that the works identified or inferred by the drawing and specification are included within the overall price submitted by the contractor. Where details are shown on the plan but not indicated in the specification or vice versa it shall be concluded that the contractor has priced for the works in their entirety.
The contractor shall allow for the provision of a scaffold to be erected to the side elevation to allow materials to be moved to the work area with a minimum of disturbance to the main house. The contractor shall protect all exising fittings, furnishings, decorations etc and shall ensure that dust and disturbance is kept to a minimum for the duration of the works.

Party Wall Act 1996
The proposed works fall within the provisions of the Party Wall Act and as such the Building Owner shall obtain consent from any Adjoining Owner affected by the works.
The client's attention is drawn to the requirements and responsibilities of the Party Wall Act where the works are to be adjacent to a party wall or boundary. Client is to ensure that all obligations and notices are served on adjacent parties before works commences.

General Details
1) All exposed timber to be treated with preservative prior to fixing.
2) All drains to be connected to existing invert levels and laid to proper falls. New drainage to be 100mm pipes conforming to BS 8301 and manufacturer's recommendations. Where a drain passes through or under a load-bearing wall, a RC lintel is to be provided. All drainage runs are assumed lines; the correct position of existing drainage is to be confirmed on site.
3) All services/meter installations etc. to be extended /repositioned or provided as necessary in conjunction with statutory undertakers requirements. (It is recommended that consultation takes place with all relevant statutory undertakers prior to commencement).
4) Draught seals to be fitted to the opening elements of all windows and doors
5) All wall / frame junctions and service entries to be sealed
6) Trickle vents to habitable rooms to be minimum 8000 mm2.
7) Provide and fix new loft access doors complete with catch and draught seals.
8) All glazing to conform to part N / K4 of the approved documents.
9) All timber to be SC3 unless stated with preservative treatment.
10) All RSJ's to be bolted to concrete padstones and encased in 30 minutes 'fire resistant Fireline board.
11) Broken lines indicate existing doors, frames and walls to be removed and remaining surfaces to be made good to match existing.
12) Minimum 300mm thick fibreglass quilt insulation (3 layers 100mm thick cross laid) to all roof voids.

GENERAL NOTES
All material and construction works are to comply with the current BS standards and codes of practice. Building regulations and schedules and specifications.
All materials and proprietary goods shall be suitable to there purpose and shall be stored mixed and fixed in accordance with their suppliers / manufacturers instructions or specifications
The contractor shall take account of everything necessary for the proper execution of the works to the satisfaction of the inspector, whether or not indicated on the drawings.
Any variations from the drawing carried out without the Architects written agreement shall be the responsibility of the contractor.
The Architect has not been appointed to carry out inspections during the construction of this project and responsibility for standards of construction rests with the contractor / developer.
The contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.
This drawing must be read with and checked against any structural or specialist drawings provided.
The contractor is to comply in all respects with the current Building Regulations whether or not specifically stated on these drawings.
No dimensions are to be scaled from this drawing, all dimensions to be checked before work commences and any discrepancy to be reported to client.
Before work commences - ensure all Planning conditions and Building Regulation conditions have been resolved to the satisfaction of the Local Authority.
All works to comply with the workmanship clauses in BS8000 series and to be in full compliance with the Building Regulations.
Contractor is to notify Building Control at the appropriate stages in construction - necessary for them to determine the works statutory compliance.
Should the indicated thermal elements construction (walls / floors /ceilings / roofs / windows / doors) below be altered at the construction stage - contractor is to seek approval from Building Control prior to construction and is to be responsible for achieving the indicated minimum 'U' values for each element.
Contractor shall allow for the provision of all suitable access equipment and scaffolds and must comply with all health and safety legislation, including safe working at heights.
Contractor shall remove all rubbish from site during the course of the building operations.
Contractor is to protect all existing fittings, furnishings, decoration etc and shall ensure that dust and disturbance is kept to a minimum for the works duration.

EXISTING SERVICES
There are no records of under ground services available within the site curt ledge therefore the main contractor will be responsible for carrying out all necessary investigations before execution of the works, in particular excavation works.

ASBESTOS REPORT
An asbestos survey report as not been carried out and therefore should the contractor find any evidence of asbestos related substances during strip out of the property then it should be reported to the client or supervising officer

DRAINAGE
Above ground drainage to comply with BS 5572: 1978. All vent pipes unless stated otherwise to terminate at roof level with roof tile outlet. Vent pipe outlets within 3m of adjacent windows to terminate 900mm above. New inspection chamber to be added as shown on drawing. Lead flashing where pipe passes through roof. 40mm dia wastes to sink & bath. 32mm to wash basin. Pipes exceeding 2m in length to be 50mm dia. All fittings to have 75mm anti-siphon straps. Stub stacks to terminate above flood level of highest fitting with automatic air admittance valve

DRAINAGE
100mm uPVC under ground drainage (Hepworth or similar approved) with flexible joints connected to IC. Provide rodding access points.
Enclose internal SVP with 9mm plywood, paint finished, complete with access cover and removable access point cover. Soil waste pipe complete with slow bend and to discharge to main drains. Sanitary pipe work cages to be fitted to top of SVP in metal. NO pipe work must not enclose light to base through.
Boiler condensate may connect to sanitary pipe work; pipes to be minimum 22mm diameter. 75mm trap rodding points to SVP to be over the spill over level of the lowest connected appliance.
All drains running through walls to have RC lintels over. All drains under building to be encased in 150mm concrete. C20/20 with flexer movement joint at each collar. Pipes passing through walls to be bridged over with 2 courses engineering BC bricks 50mm clear opening to be masked both sides with rigid plate to prevent ingress of vermin or soil.
new drainage to be Hepworth Super Sleeve or similar approved with 100mm diameter pipes. IC's to be Hepworth (polypropelene) Super Sleeve 100mm 900mm deep with 102mm diameter inlets. Foul drains at minimum 1:40 fall and surface water drains at minimum 1:100 fall. IC's over 950 deep to be P.C.C. sections.
Rodding points to be provided at head of drain. Protect existing drains to be retained ensuring that manholes, gulleys etc are not damaged and drains are kept free from debris at all times. Existing inspection chambers to be cleaned and inspected for internal defects. Any cracks, spalled or dislodged bricks to be replaced with equal and suitable engineering brick. Mortar for bedding in new bricks and/or pointing of defective backdrops joints to be 1:3 cement/sand mix. Semi-universal gullies with filter buckets to driveway/turning heads, discharging to existing surface water sewer.
All invert levels to be agreed on site.
All drains to be connected to existing invert level of property boundary and and to proper falls- new drains to BS 8301 and manufacturers recommendations.
All drain runs are assumed lines (the correct position of existing drains to be confirmed on site).
The Builder / contractor shall verify on site whether any existing drains are on the site are combined or separate and shall ensure that correct connections are made. Note :- Check existing drains to determine if the system a separate or combined. If separate system ensure that new connections are made to appropriate drain i.e. Foul to Foul / sw to sw and that there is no combination of above ground water systems.
Any drain running under proposal to be checked for damage, possibly protected and adequate rodding access is to be provided.
Below ground drainage to be approved 100mm plastic or clay drainage system laid at minimum 1 in 40 falls - bedded and installed in accordance with manufacturer's recommendations.
Proprietary inspection chambers to be provided as indicated and as necessary to provide rodding access to drainage runs. Sizes to suit depth - as recommended by manufacturers.
Internal I.C to have double seal bolt down cover fitted and / C's in traffic areas to have heavy duty covers fitted.
All gullies to be back inlet and rodeable - wastes to discharge below grating but above water line.
Drainage runs indicated on drawing are assumed - checks to be made on site to determine exact locations before works commences. All redundant drainage to be capped and sealed.

Check to be made to determine if the existing drainage system is combined or seperate. If system is found to be separate ensure that new connections are made to appropriate drain i.e. foul to foul / s w to s w and that there is no combination of above ground water systems.
100mm dia SVP to be provided as indicated - accessible rodding eye to base and to all changes of direction. SVP to discharge with caged outlet 900mm above windows or rooflights. Weathered slate fitted to roof penetrations.
Air relief valves (where specified) to be installed above the flood level of highest appliances overflow and in accordance with manufacturers instructions.
SVP casing to be demountable for waste pipe maintenance and rodding access.
Rainwater goods to be min 100mm gutters connecting to 75mm dia hops - installed to manufacturers recommendations
Where wastes are fitted in roof void - fit insulated and draught sealed access hatch in ceiling for maintenance access.

IC
IC concrete ring system on 200mm concrete base and haunching complete with cast iron cover double sealed and medium duty. Polypropylene chambers are only to be used to a depth of maximum 1200mm with 450mm diameter cover, all bases to be concrete with haunching and benched as applicable. Cover slabs to BS5911 minimum reinforcement A142 mesh with covers to suit usage. Rocker pipes to be used where required. Lintels over drains passing through walls ends of runs not terminating in an IC shall be fitted with rodding access points. Provide rodding access points to base of all SVP's.
Concrete base slab min 150mm thick C20/20, concrete benching C20/20, finished with 40mm granolithic
Note :- Inspection Chambers located internally to be fitted with double seal screw down heavy duty cover.
Construct new inspection chamber over existing / new drain run including new connections to drain within inspection chamber using 100mm dia. Bge or other equal and approved under ground drain pipe work from 2 No rodable gullies with grated access plates as indicated to take waste discharge from kitchen and rainwater from roof.
All drainage, to be approved and inspected by L.A.B.C.O. prior to covering up.
Drains to be replaced / taken to existing mains near boundary, including IC and rodding eye as necessary to suit site conditions. Provide rodding access at the junction and to the base of internal / external s.v.p. as required

SANITARY PIPEWORK
Sanitary pipe work in accordance with BS5572 and soil pipes and accessories with BS4514. 100mm diameter SVP positioned internally and surrounded in 25mm minimum glass fibre sound insulation quilt. I in a habitable room in 38 x38 softwood frame duct, covered with 6mm ply board and accessible throughout its length for maintenance and repair. Caged top of SVP terminating 900mm above any opening lights or venting in roof space using Durgo Air admittance valve by Marley Extrusions or similar approved. Discharging directly into an inspection chamber via 100mm rest bend. WC waste connected to 100mm pipe to SVP or direct to drain. LB's baths and sink to have 75mm deep seal anti-vac trap discharging respectively though 32mm, 40mm and 40mm diameter waste pipe to SVP or directly to BIC.
Branch connections from washing machines to be 38mm dia with washing machine trap. Combined branch connections to be min 50mm dia max length of 32mm dia branch 1.7mts. max length of 40mm dia. 4.0mts
Rodding points to be provided at points where access cannot be obtained by removing traps. All sanitary pipe work to comply with the recommendations of BS 5572. All waste pipes to be UPVC Carsdren terrain or similar approved

PLUMBING DETAILS
Where any two pipes combine the diameter of the waste pipe to be increased to min 50mm. 50mm pvc vent pipe to discharge 900mm above any opening within 3000 and to be fitted with a cage pipe to be taken through the roof void and covering.
Bath room to incorporate mechanical extract ventilation capable of extracting at a rate of no less than 60ltrs per sec which may be operated intermittently. Where vertical extract ventilation is used discharge pipes through a roof / fitted with a condensation trap (Where soil pipes pass through floors rodding access points to be fitted at junctions with additional rodding access point at the base of pipe. Where relevant, soil pipes to be clipped to joists at max 1000mm crs at min 1.40 fall Provide an insulated access trap for the purpose of maintenance and rodding points repair - Rodding access points within the roof void to be positioned as per building inspectors instructions. No opposed waste connections within 200mm of wc branch. Kitchen sink to be provided with 75mm deep seal anti-vac trap to discharge below ground level of big and above water line.

FOUNDATIONS GENERALLY
Excavate to form new strip foundations min 200x600mm wide to solvid. Eng details and or building inspector's satisfaction.
For tendering purposes to be considered not less than 1000mm below GL
APP doc Section 1E presenting min 2000mm on each side of the supported wall with not 750mm covet to finished ground level taken down below invert level of any adjacent drainage to suitable strata and to a depth agreed with the Local Authority Building Inspector dependant on site conditions
All concrete to be ready mixed, grade C16 to strip and C24 to slab.
Foundations min 900mm below GL depth to invert of drain if within 1 mtr of foundations.
Min 600x200 concrete strip with A 142 mesh, 50mm min cover, depth to be determined on site between builder and DBS to full satisfaction of the LA inspector. any drains passing through foundations to be encased in 200mm concrete, provide RC lintel over drains passing through walls, provide rodding access points
All work to comply in every respect and entirety with the building regulations new edition.

EXISTING FOUNDATIONS
To be exposed for inspection by the LA inspector and or structural engineer and any works to be carried out strictly in accordance with inspectors/engineers report and recommendations. Trench to be excavated along side of the wall and footing to be underpinned with concrete in 1mtr lengths as indicated on drawings to prevent collapse of wall

UNDERPINNING
Allow a PC sum for underpinning existing foundations if during investigation by the LABC officer deems existing foundations to be inadequate
Underpinning to be carried out in lengths in numbered sequence 1,4,2,5 etc depth of underpinning to be determined on site and subject to sufficient sub strata bearing capacity

GROUND FLOOR SLAB
Solid Ground floor construction (0.22 W/m2k minimum U' value required)
Excavate all topsoil and contaminated fill material from under floor slabs and back fill with stone and dust (M.O.T.) to 150mm max compacted layers. 50mm sand blinded to receive d.p.m. / filling exceeds 600mm under floor slab, slab to be changed to a suspended concrete meshed reinforced type - details to be agreed with Building Control
Lay 1200 gauge dpm onto sand blinding and fit perimeter insulation Celotex "T-Break TB4030 (130mm) insulation around slab perimeter. Lay 80mm Celotex TuR /R GA4000 insulation (thickness to comply with manufacturers P/A table and to give a minimum 0.22 U value) to insulate slab - additional layour control layer 1200g d.p.m and directly over insulation. 100mm min thick concrete slab cast over reinforced with A 142 mesh - level to match existing allowing for any floor finishes.
Floor dpm to lap new and existing walls dpcs. Dpm joints to be taped and sealed using proprietary joining tape (NOTE :- refer to slab detail for methane or radon protection provisions which may be necessary to project)
Any gas pipes covered by proposed to be ducted via 100mm dia ducts to new external walls and insert telescopic airbricks sleeved with cavity trays over to connect to outside air

GAS MEMBRANE
Install gas membrane below ground floor - 'MONOFLEX - or similar approved gas retardant membrane sealed in accordance with manufacturers details and recommendations complete with vent outlets within cavity, gas sealed to prevent ingress of methane or similar gases.

GENERAL DETAILS - FLOORS and FOUNDATIONS
Where existing sub floor ventilation air bricks are covered by new build solid floor construction :- Duct air under the proposed floor via 100mm min diameter UPVC pipes. Extended into existing sub floor void and connected to external air via telescopic air brick and adaptors. Any contaminants found under the proposed extension to be adequately dealt with in accordance with Approved document C :- (section 2) Where a drain through or under a load bearing wall, a RC lintel must be provided.
All drainage within 500mm of the works to be exposed, protected and bein filled in accordance with the building inspectors instructions

CEILING FINISHES
Ceilings to underside of trusses / rafters are to be finished with 1.5mm fire backed plasterboard and finished off with 3mm swirn coat of plaster

TRIMMERS & TRIMMING POSITIONS
Provide required trimmers and trimming around
a) Stairwell openings Stairslape Stairslape Manufacturer to confirm size prior to fabrication of staircase
b) Openings for soil stacks
c) Ducts for extractor fans or waste pipes
d) Void

EXTERNAL WALLS
Brickwork / Renderered blockwork to match existing as near as possible 100mm facing brick, 100mm block inner leaf 100mm cavity with batten or similar at sl wall ties at 450mm staggered crs 250mm crs at quoins. Brickwork only below DPC, block bond new walls to existing and maintain cavity, close cavities at eaves with 2 layers of slate, close cavity at reveals with DPM or proprietary cavity closer, 75mm thick Kingspan K8 / TW 75 rigid insulation within 100mm cavity
lead to inner leaf to give min 'U' value of 0.25w/m2 deg C
Blockwork 100mm thick Carson Solar or similar, aerated thermo blockwork in accordance with BS 5073. Pt1, 442 x 215 x100mm block to receive 13mm lightweight plaster or 9.5mm plasterboard on dabs (U- Value 0.25 W/m2K).
Maximum length of internal wall not to exceed 6000mm without movement joint. Min. 7n/mm2 crushing strength. 'fush pointed and to receive 12mm plaster board and dabs finish internally as by Thermalite or similar approved, skim finish to board to receive plastic decorative finish
Facing brick and pointing to match existing as near as possible and to commence min 4 courtes below DPC. All brickwork above and below DPC to be solid or trapped to BS 3921. below DPC to be class B engineering brick, flush pointed or similar approved.. Allow for lean mix concrete cavity fil to GL sdjacent to outer face.
Allow for weep holes every 4th perpend
All wall ties to be st sc safety pattern to BS 1243, 1978 or fish tailed type at 5 No / m2
Allow for weep holes as above and building in cavity trays as by Gibbs/ed or similar approved to lintels etc
9f Sc wall ties to be HRT4 type to engineer's specification. Wall to be finished with 13mm plaster (min 10kg/m2 bon scbes)
All sockets electrical, piped services etc are to be fitted within boxes ducts of 22kg/m2 plasterboard with mineral wool as main wall
All new brickwork to be bonded to existing and cavities to be maintained - alternatively use proprietary bolted starter anchor system together with inserted insulated V.d.p.s (installed in strict accordance with manufacturers recommendations)
All return corners to be min 550mm unless otherwise indicated
Proprietary stainless steel double triangle wall / vertical ties to be provided to cavity walls at maximum 450mm vertical centres and 750mm horizontal centres - staggered across wall elevation. 225mm max vertical centres at reveals.
Ties to be long enough to have 50mm minimum embedment into wall. Proprietary insulation clips to be provided to suit cavity insulation system
All lintels to have 150mm end bearing and all timbers to have 100mm min end bearing
Steel beams to beat onto concrete pad stones min 300mm X 250mm x 150mm deep. Where only 100mm seating is pose.ble (i.e. no pier provided) steel sa.ll on minimum 450mm long x 100mm wide x 150mm deep concrete spreader padstones. Piers and walls under steel to be made good and rebuilt if formation of openings has weakened structure or structural engineer has specified a rebuild. Steel beams to be bolted to padstones via M12 bolts.
Steel beams e.g. I ts,ls ,c,s etc to be coated in zinc primer prior to being built in and to be spaced and bolted together via M12 bolts and spacers at 1000mm c/s (unless specified by structural engineer). Fully encased in 2 layers 12.5mm plasterboard and skim support on 50 x 50mm cradle to give half hour fire resistance (web flanges packed with mineral wool to reduce cold bridging)
Lintels over openings to be proprietary insulated steel lintels e.g. Catnic or IG lintels. Lintel to be suitable for loading configuration and spans. Infill d.p.c cavity tray over with stop ends and weep holes at max 900mm c/s - min 2 per cavity tray. Where 100mm cavity a specified ensure correct lintel is used to deal with wider cavity. All lintels to be encased in plasterboard to give half hour fire resistance.
Internal door openings (max 1200mm opening size) to have 150mm x 100mm reinforced concrete lintels over or proprietary steel lintels of approved manufacturer - min 150mm end bearing.

STEEL BEAMS
All RSJ / BEAMS to be wire brushed, hand chipped and receive 2No coats of zinc rich zede paint prior to fixing. Provide 2 layers of 12mm f ire line board linings with skim finish to give half hour fire resistance. For size position and fixing instructions SEE CONSULTANT ENGINEERS DRAWINGS and CALCS

CAVITY BARRIERS
Provide Rigid cavity stop lock or similar approved to fully fit the cavity, to be fircion fitted as required by designer. vertical barriers to have sit units closely butted & horizontal barriers to be fixed edg by side at their joints with a lap of at least 150mm, the junctions between vertical and horizontal barriers should be closely butted for horizontal applications a dpc cavity tray with a min upstand of 100mm must be installed immediately above barrier
Barriers to be installed within cavity adjacent to all separating walls and floor positions

INTERNAL WALLS
Stud partition walls at ground/first floor are to be faced with plaster board and skim finish both sides, studs at max 600mm ctrs and noggingsin all necessary roggins and fixings. All stud walls to be fully insulated using Ceetess / Rockwool or similar insulation.
Partitions to bathrooms and WC. s should incorporate a sound deadening insulation quilt to achieve a min sound reduction of 30db at a frequency range of 100-3150 kHz
Skirting boards to be 100X25 se.bull nosed or to match existing, plugged and screwed to walls spaced off walls min 25mm spaced off floor min 5mm

DEMOLITION
Remove existing windows, frames doors as directed, make good to floor, walls etc
Remove brickwork/blockwork below cills
Remove all defective wiring, sockets switches etc
Remove all defective plumbing sanitary appliances
Remove all defective timbers to floors walls ceilings etc
Remove existing kitchen fitments as necessary
Remove existing heating system / boiler
Allow for making good of all surfaces prior to redecoration and fitting of new appliances
Remove existing wall ties
Remove existing stairs
Remove conservatory / garage / out buildings
Strip out all existing timber screens, doors, windows, frames, architraves walls and ceiling plaster and any redundant timber works Walls to be left in a suitable condition to receive new wall and ceiling finishes as specified.

CHECK EXISTING
All existing beams/lintels to be checked for stability, repaired as indicated. Renew all defective beams check all brickwork below beams and cut out and replace defective areas of brickwork.

FLOOR FINISH
To clients requirements. Slip resistant finish, adhesives in accordance with manufacturers details and recommendations. Seam weld all joints as necessary.
Concrete floors/timber floors to receive clients specified finishes to be confirmed by client.
Scremerd screed min 65mm thick to be stee trowel finished to receive carpet finish. Apply dust inhibitor in 2 coats in accordance with manufacturer's details and recommendations prior to installing floor finish
Carpets on manufacturers recommended adhesive.
Sheet vinyl / tile finishes to be applied on manufacturer recommended adhesive, seam welded joints and coved skirtings.
Ceramic tile / quarry tile fins applied on adhesive / as bed, provide moisture resistant grouting flush pointed
Remove all artisses from timbers prior to priming and painting one undercoat two coats gloss finish.

RAFTER ROOF
ROOF
Concrete interlocking tiles mechanically fixed with tenacioda nidge eid brown bond with min head ap of 75mm to match existing as near as possebe, on 42x25 softwood tanalised roof battons. (were cut or improved nare (gauge and ap as per manufacturers recommendations for a pitch of 22.5 degrees on Andersons Twin Plex type 1F reinforced under sisting felt (breathable) (or similar approved to BS 747) Breathable Felt to be fixed with second galvanised nails 20mm inlap/ lattice min. maximum 150mm overlaps and 50mm dressing into gutters. Flashings to be Code 4 with laps and per felt fixed into brickwork with lead wedges
Roof timber sizes as follows
150x50mm C16 rafters at 400mm centres back dipped to C16 purlins . Not required. (FLAT ROOF)
150x50mm C16 ceiling joists
175x75mm C16 purlins at 1500mm centres.
90x25mm C16 ceiling hangers at 1500mm centres along binders.

150x50 roof joists (Rafters) at 600mm centres and BAT clipped to 225x100 purlins and 100x75mm wall plate. NOTE wall plate to be strapped down to wall at minimum 2metre centres Purlins to be built into wall and strepped to wall with 1000x50x5mm MS straps. 150 x50mm ceilings joists and 600mm centres built into wall, under draw ceiling in 12mm plaster board and skim, provide and lay minimum 300mm Rockwool insulation or similar approved (300mm Kingspan)to entire roof area. (to achieve min U value of 0.16 w/me deg C). Provide 2x air bricks within gable walls at high level minimum 225x150mm.
Andersons Roofing grade felt to be dressed over roof oaks and Gridevale Eaves Vent into gutter, 150mm lap to felt no vertical joints. 125mm half round PVC gutter seamless. 18mm EQ plywood fascia and soffit to line with existing fascias and soffits.
Allow for softwood stud bracing between joists at mat span ft sovesrafter ventilator spaces at abutment detail with existing side elevations. Fit PV 250 ventilators all as by Gridevale. Provide 0.3metre % ventilation to roof void by inserting eaves vent grills fitted with insect guards (Ceiling incorporating vapour barrier to be foiled backed 12mm plasterboard with tape and skimmed finish. Ceiling height above finished floor level to be approximately as existing.
Wall plate 100x75 mm softwood. NOTE - proposed eaves are nominal only and may be amended on site as necessary to suite site conditions.
Areas of sloping ceilings to be insulated between rafters with min 150mm Kingspan thermia plon TP10 / Kooltherm K7 and under drawn with 50mm thick Kingspan thermawall TW56 board on 50x50 sw counter battens with 12mm thick foil backed plaster board, 50mm airgap to be maintained above insulation to ensure adequate cross flow ventilation to roof void. to achieve min U value of 0.18 w/me deg C)
Proprietary eaves sleeving provided to maintain unrestricted roof ventilation. Taskeaforfit provided to match the existing, packed off brickwork to provide cross ventilation with 25mm air gap fitted with insect mesh. Rainwater to discharge via a 125mm seamless gutter to match existing to discharge via a 75mm black square section PVC rain water pipe into a newly formed and existing trapped gully as per proposed plan, into existing drainage system

ROOF RESTRAINT STRAPS :
30x5mm MS straps (galvanised) at 2000mm max. ctrs fixed over inner skin of external wall and screwed to 3 No Trusses at both ceiling and roof level, and in accordance with A.D. Section A1/A2 Part CC33-37 75x50 sw noggins are to be fixed below all gable pose and ceiling line straps

PLASTERBOARD EDGE FIXINGS:
50x38mm sw noggins fixed between trusses or perimeter edge fixing 50x38mm sw noggins at 600mm ctrs for partition head fixing with 125x19mm board fixed central over partition heec rail for plasterboard fixing.

VALLEY AT ROOF INTERSECTIONS:
Form Code 4 lead valley or install proprietary GRP preformed valley trough on 250x19 softwood valley boards fixed to main roof trusses and diminishing trussesisw rafters. Provide 175x32 sw lay boards fixed to main roof trusses to support ends of diminishing trussesrafter feet.

EAVES:
Preservative treated 200x25 sw fascia with 12mm WBP quality ply soffit board 25x25 sw framing

VERGE:
Preservative treated 200x50 sw bargeboard on sw gable lacder fixed to last truss

ROOF LIGHT
VELUX or similar approved
Velux roof lights complete with proprietary flashings, seals weather and finishing strip covers to be fixed within trimmers set out to suit size of windows, Velux windows by specialist manufacturer complete with all necessary flashings, seals vents and trimmings as standard. Trim out roof timbers to receive roof light and make good to surrounds, insulate voids around trimmings. Roof light to be manually operated, (allow for electrically operated window operated by weather sensors wired to mains supply and complete with emergency cut off. wire to smoke alarm system)
Glazing to be Pilkington K glass as general specification for glazing.
Glazing to be double glazed hermetically sealed units pinned and beaded to frames as per manufacturers recommendations.
Frames to have polar white finish
U value of roof light to be 1.6 w/m2 deg C

RAINWATER GOODS
Gutters generally to match existing
Marley UPVC deep flow gutters discharging via 65x65 upvc down pipe square section/die. Semi-universal gullies
Rainwater system: designed in accordance with marley exclusions rainwater system design guidance and the min requirements are indicated. any alterations must have the flow capacity of at least 2.3/sec.
Gutters to Dormer roofs and flipped ends to discharge to main roof
125mm UPVC gutter fixed to fascia and aid to falls at 1:600 into 75mm UPVC down pipe fixed to wall face to be black. All connected to BIG berve grid level and above water line, discharge to main drains.

WARM ROOF EPDM
EPDM Membrane fixed over 9.0mm WOP deck applied in accordance with manufacturer's recommendations, minimum 150mm laps complete with breather membrane, and Fint dressed up 150mm to walls, butt into brick joints. Dress EPDM over fascia into gutter, Install on manufacturers recommended vapour barriers using recommended adhesives. Insulation to be laid over decking and roof joists using King spar or similar compressed insulation type KS thermia roof min TR 31 min 150mm thick over joists and 50mm thick thermia wall below joists to give U value of 0.18 w/me2 degC.
Decking secured to timber joists with 60x60mm sw battened counter battens and joists. rate of joists ---------- @ 400/ 600mm ctrs IS gal steel herringbone strutting fixed in accordance with manufacturers details and specification
1.70 fall to roof using fitting between plywood and battens maintain 50mm air gap between insulation and roof deck.
Under draw ceilings to 2 No 9mm layers of plasterboard and skim. lap, tape and skim joints. Fascia set proud of wall face by minimum 25mm, allow permanent ventilation to fascia and soffits.
All gaps between elements must be sealed to reduce unwanted air leakage. e.g. fallow robust detail sealing as described below.
Provide vapour control barriers on the warm side of insulation - including insulated ground floor construction (follow appropriate manufacturer's detailing requirements).
Use joist hangers to support timbers or seal all junctions of structural timbers/ steel etc where built into an external wall with mastic sealant.
Mastic seal all junctions between effects such as ingress of water from. All openings in and accordance with the manufacturer's instructions and recommendations: Weber. Dickens House. Enterprise Way. Flitwick. Bedfords. MK45 5BY Tel: 01525 718877. Include for providing a stainless steel bolt stop to the bottom of the rander to finish 150mm (dpc level) above finished external ground level. Paint exposed brick surface with 3 layers liquid applied bituminous finish in colour, black.

ARTSTONE FEATURES
Artstone cills where indicated, to suppliers details

WALL TIES
To be stainless steel ties or similar fixed at 450mm centres vertically and 750mm centres horizontally staggered. At jambs reveals ties to be at 225mm centres vertically and within 150mm if the opening & to be embedded min 50mm into the joint

DAMP PROOF COURSE
Main horizontal damp proof course to be flexible bitumen fibre based laminated with lead core to BS 6398, BS 743 Type 2Dor E to be laid mur 150mm above ground ever with lap joints 150mm. Other damp proof courses / membranes to be polythene to BS 6515 vertical DPM of 225mm width to be used at all cavity closers and project min 25mm beyond wall face
Cavities to be closed at all openings using insulated cavity closers with lintels acting as closers to head of openings, alternatively cut brick or block to eaves and verge
Cavity closers to BBA 2646

THERMAL BRIDGING AND AIR LEAKAGE
Thermal bridging and Air leakage to be limited by compliance with Robust Construction Details for dwellings and semi-detached buildings. Provide Air leakage Measures designed to reduce air leakage from the building. Air tightness measures will depend on the form of construction and level of workmanship. The objective being to form a definable, continuous air leakage barrier around the dwelling.

Ways of preventing air leakage to be considered at every penetration of the barrier. Particular care on site should be paid to
1) Joints between structure components e.g. wall to floors.
2) Joints around components and openings within walls.
3) Services penetrations : plumbing, electrical, and ventilation.

In General
Close any vertical ducts at floor level, top and bottom (e.g. boxing in to SVPs) Seal any service penetrations Select the appropriate sealant or gasi filler for the size of gap and degree of movement anticipatec. Pipes over 40mm in diameter passing through compartment walls & floors are to be fitted with fire collars

LINTELS
Lintels to be to BS 5977 pt 2: 1983 yielding lintels to be checked for stability.
New lintels type G, L1 HD 102 or similar approved, min 150mm masonry bearing and galvanised steel or pre painted finish with cavity trays or DPC's over as required, allow for 1a hr fire protection to soffit and other surfaces of lintels as necessary by fixing 12mm plaster board /master board or similar approved, fixed with proprietary fixings. cavities to be closed and insulated.
Lintol complete with integral cavity tray and supplied by lintol manufacturers
Lintels to be suitable for loading and spans, complete with cavity tray over with stop ends and weep holes at 900mm ctrs min. 2 per cavity tray
SEE CONSULTANT ENGINEERS DRAWINGS AND CALCS

All lintels to have 150mm end bearing and all timbers to have 100mm min end bearing
Steel beams to beat onto concrete padstones min 300mm X 250mm x 150mm deep. Where only 100mm seating is possible (i.e. no pier provided) steel to sit on minimum 450mm long x 100mm wide x 150mm deep concrete spreader padstones. Piers and walls under steel to be made good and rebuilt if formation of openings has weakened structure or structural engineer has specified a rebuild. Steel beams to be bolted to padstones via M12 bolts.
Steel beams e.g. I ts,ls ,c,s etc to be coated in zinc primer prior to being built in and to be spaced and bolted together via M12 bolts and spacers at 1000mm c/s (unless specified by structural engineer). Fully encased in 2 layers 12.5mm plasterboard and skim support on 50 x 50mm cradle to give half hour fire resistance (web flanges packed with mineral wool to reduce cold bridging)
Lintels over openings to be proprietary insulated steel lintels e.g. Catnic or IG lintels. Lintel to be suitable for loading configuration and spans. Infill d.p.c cavity tray over with stop ends and weep holes at max 900mm c/s - min 2 per cavity tray. Where 100mm cavity a specified ensure correct lintel is used to deal with wider cavity. All lintels to be encased in plasterboard to give half hour fire resistance.
Internal door openings (max 1200mm opening size) to have 150mm x 100mm reinforced concrete lintels over or proprietary steel lintels of approved manufacturer - min 150mm end bearing.

STEEL BEAMS
All RSJ / BEAMS to be wire brushed, hand chipped and receive 2No coats of zinc rich zede paint prior to fixing. Provide 2 layers of 12mm f ire line board linings with skim finish to give half hour fire resistance. For size position and fixing instructions SEE CONSULTANT ENGINEERS DRAWINGS and CALCS

CAVITY BARRIERS
Provide Rigid cavity stop lock or similar approved to fully fit the cavity, to be fircion fitted as required by designer. vertical barriers to have sit units closely butted & horizontal barriers to be fixed edg by side at their joints with a lap of at least 150mm, the junctions between vertical and horizontal barriers should be closely butted for horizontal applications a dpc cavity tray with a min upstand of 100mm must be installed immediately above barrier
Barriers to