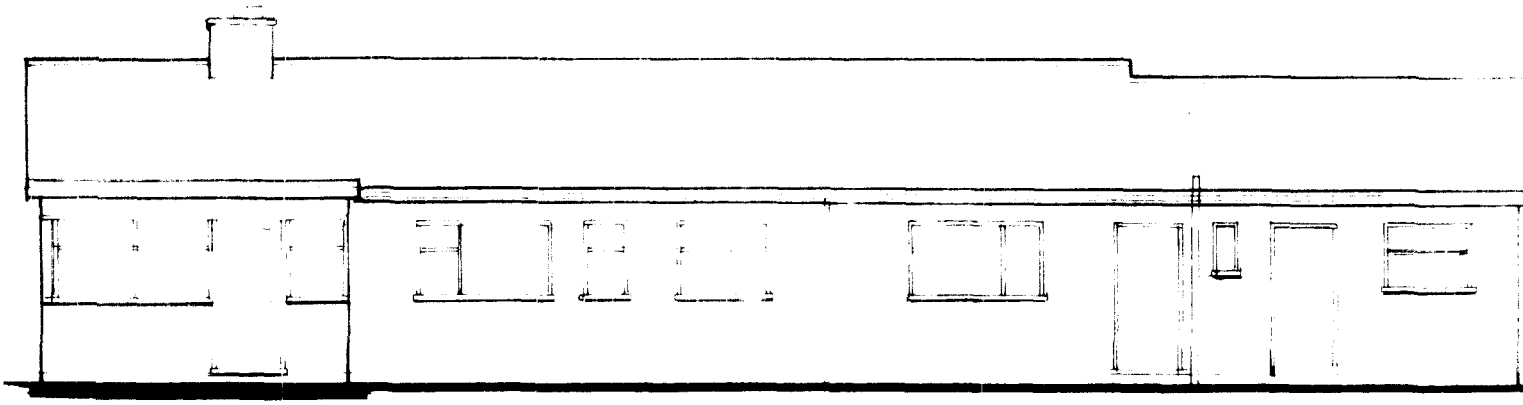
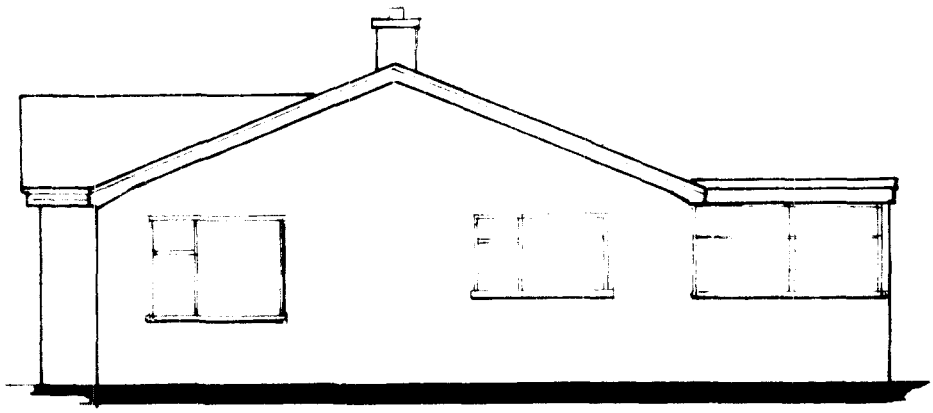
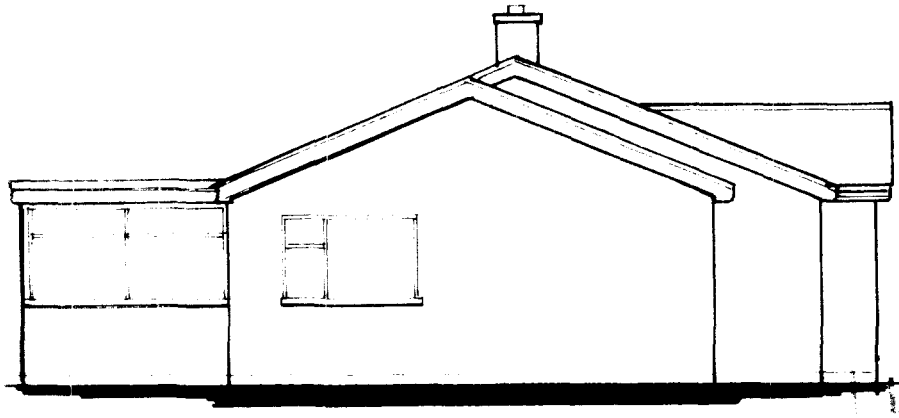
EXISTING ELEVATIONS.



REAR ELEVATION.



SIDE ELEVATION.



DETERMINED
PLAN

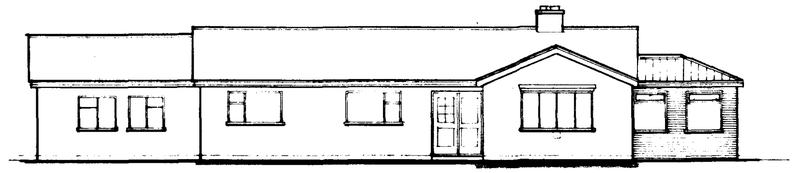
SIDE ELEVATION.

SHDC
Planning & Development
24 JUN 2002
Ref 0728/02

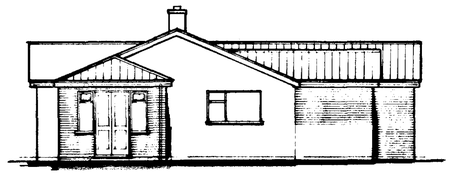
Proposed Extension & Alterations at Annasfield, Mission House Corner, Old Fendyke, Sutton St. James. For.Mr.& Mrs. B.Harrison.



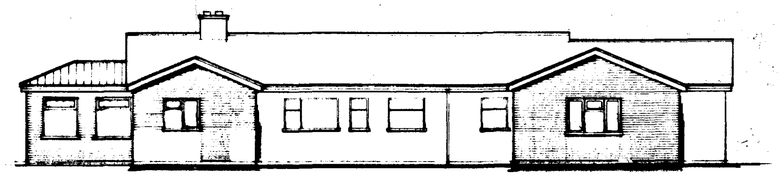
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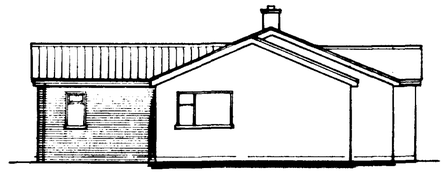
FRONT ELEVATION.



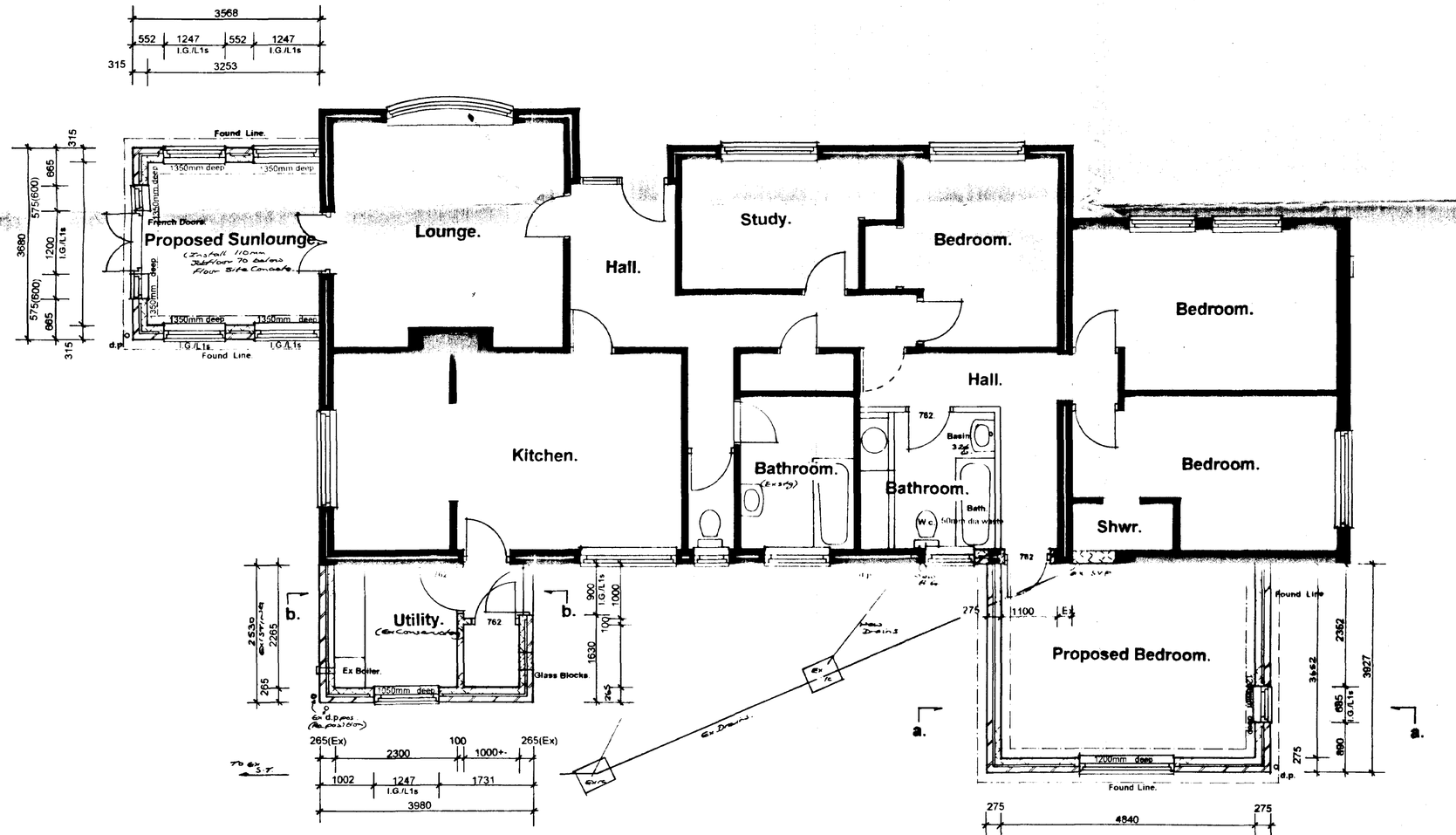
SIDE ELEVATION.



REAR ELEVATION.



SIDE ELEVATION.



PROPOSED FLOOR PLAN.

DETERMINED PLAN

SHDC
Planning & Development
24 JUN 2002
Ref 0728/02

Architectural
Design Services.

S.J.Thrower.
3 Newgate Road, Todd St.Giles, Wisbech, Cambridgeshire.
Tel. 01945 870022.

Proposed Extension
& Alterations at Annasfield,
Mission House Corner,
Old Fendyke,
Sutton St. James.
For.Mr.& Mrs, B.Harrison.

GENERAL ARRANGEMENT PLAN.

Scale		Drwn	Chkd
1:50. 1:100	Mar 02.	JT	

Drwg no. SH/84102.

STORM DRAINAGE.

Fit 112mm dia h.r. rainwater gutters at 1:600 falls or level depending on length etc (shown on elevations) & 68mm dia upvc downpipes to BS 4676: Part 1: 1989 & strictly to the manufacturers instructions or equaeline. Gutter brackets at 2mt c-cs. & necessary outlets and stop ends etc. Downpipes to be secured using the necessary proprietary clips and all the necessary offsets and swan necks etc. Downpipes to be connected into Underground drains via adaptor. Underground drains to be 100mm dia Hepworth Supersleeve or Osma uPvc 110mm dia, or sim approved), with flexible joints laid on 100mm pea gravel and min 150mm surrounds laid to Falls of 1:100 run 1m cube rubble filled soakaway min 5m from building and boundaries. Fill soakaway hole with rubble to within 450mm of ground level overlayed with polythene sheet and backfilled to ground level with topsoil. All work carried out to BS 8301 1985. Provide access rodding points as shown on plan at change in directions.
ALL EXISTING DISCHARGES & SOAKAWAYS TO BE INVESTIGATED / REPOSITIONED WHEN WORK COMMENCES. ENSURE NO LIVE DRAINS EXIST BENEATH PROPOSAL.

SOIL DRAINAGE.

New Underground drains to be as Storm Drains above with falls of Min 1:80 and Max 1:40. Fall of drains from gullies to be 1:40. Drains running through walls to have Pre stressed concrete lintels provided over. Provide min 50mm space around, filled with compressible material, opening to be masked with durable rigid sheet to prevent the ingress of filt or vermin or a length of pipe (as short as possible) built in with joints as close as possible to the wall faces(within 150mm) and connected to rocker pipes with a length of at most 600 mm and flexible joints. A drain trench should not be excavated lower than the foundations of any building nearby unless either where the trench is fitted with concrete up to the lowest level of the building or where the trench is further than 1mt from the building, the trench is fitted with concrete to a level below the lowest level for the building equal to the distance from the building, less 150mm.

Provide raddable access to all bends and junctions. Lowest connection to S.v.p. min 450mm above adjacent drain invert.
Min fall 1:40. Install inspection chambers. If less than 600mm deep & with max one branch per side use 250mm dia Osma type Upvc i.c. or Hepworth 225mm dia vitrified clay i.c. Chambers 600mm to 1000mm deep use Osma 450 Dia polpropylene on 150mm granular or concreve bed. (or Hepworth).
Run Drains to existing and discharge into Septic Tank.

SOIL WASTES ABOVE GROUND.

Install 110mm dia. upvc. S.v.p to head of drain terminating min 900mm above nearest opening window with durable cage cover. 75mm dia above roof or terminate via a ridge vent. W.c. wastes in 110mm dia upvc. Bath waste in 50mm dia upvc. Shower waste in 40 mm dia upvc. Basin wastes in 32mm dia (or 40mm if required). Wastes exceeding 1.7mts in length to have anti-vac traps fitted. Wastes not exceeding 1.7mts in length to have 76mm P.Traps fitted. Provide shower on raised plinth to allow access to shower trap (75mm). Provide trapped gulley (as indicated on floor plans). Utility wastes to have bottle gulley fitted with roddable access etc. Install any stubstacks as shown with screw down sealed cap or air admittance valve as indicated on plan. Sockets to both S.v.ps and Stubstacks to be min 450mm above drain invert. Bend at foot of Svp to have min radius of 200mm at the centre line.

FOUNDATIONS.

Concrete strip foundations min depth 750mm (or 1mt if soil is of a shrinkable nature) to be agreed on site with B.C.O. Any reinforcement to be incorperated as sections. Any irregularity in subsoil/ filled ground to be reported to Agent /B.C.O. for remedial advice or seek the advice of a Chartered Structural Engineer. Foundation width shown on floorplan layout.
Grade GEN 3 Concrete (unless stated otherwise). Concrete to BS 5228, BS8110, Aggregates BS882.

FLOOR.

150mm blinded and consolidated hardcore backfilled and rammed to internal foundations, compacted in 225mm layers. 1200g polythene d.p.m. linked to wall dpc. Min 150mm d.p.m laps. Lay Jablite insulation over polythene with the joints taped and perimeter upstand all in accordance with the Manufacturers specification as Plan Sections.
NOTE: POLYTHENE D.P.M. MAY BE LAID ON TOP OF JABLITE IF AGREED BY B.C. INSPECTORS.
100mm site concrete (GEN 4 Grade or RC 30 where reinforcement is incorperated). 50mm sand /cement screed.
All new and existing floors to be level. Take out existing brickwork in new openings down to finest of hardcore level to avoid hardspots.

D.P.C.

Install Astco or similar d.p.c. to BS6398 min 150mm above G.L. and 18mm thick Damcor insulated d.p.c. to all reveals. Fit dpc to external lintels (See lintel notes). Provide weep holes where appropriate if necessary.
(See Flashing notes also). Step up as required adj to entrance doors to maintain height above paving. (Where applicable).

MASONARY/WALLS.

103mm facings to match existing to all elevations. 75mm cavity with 75mm Dri-therm installed to manufacturers with 6no s/s or galv wall ties to BS 1243 at 900mm centres horizontally and 450mm centres vertically. 225mm centres at all jamb openings. Close cavity with blockwork at highest points. Masonary bricks and blocks to be to BS 3921, BS 6073 Part 1 and BS 5628. Mortar 1:1:5 cement: lime: & with airentraining agent. Lay 100mm and 140mm CELCON, THERMALITE OR DUROX internal thermal block with 12mm thick, 2 coat gypsum plaster/skim finish. Incorporate piers as indicated. Use Catnic/Furfix or Bluebird fixings to tie new to existing with ties to manufacturers spec at 225mm c.cs. through 12mm Compriband v membrane sealed over externally with a 12x20mm polysulphide sealant.
(SHOULD any BLOCKS NOT LISTED ABOVE BE INSTALLED CHECK MANUFACTURERS DETAILS AND INSUALATED CAVITY WIDTH TO COMPLY WITH NEW B-REGULATIONS REQUIREMENTS OF 0.35).
Walls to achieve a 'U'Value of not exceeding 0.35m2 degrees C.

LINTELS.

Install I.G. type steel lintels to manufacturers instructions, min end bearing 150mm. All external lintels to have a tray d.p.c. installed in accordance with BS.5268 which should extend to the edge of the toe and at least 100mm beyond each end of the lintel to shed moisture clear of reveals. See ref nos on plan.Ensure lintels have manufacturers insulation installed.

VENTILATION.

All HABITABLE ROOMS to have ventilation openings equal to 1/20th floor area of the room and with ome part of the ventilation opening at least 1.75m above the floor level, eg opening window. HABITABLE ROOMS to have trickle ventilators in top of window frames with controllable and secure ventilation opening min 8000mm sq. (draught secure)

UTILITY ROOM to have an opening window (no minimum size) Background Ventilation of 4000mm sq. Mechanical Extraction 30 litres/second or Passive S.V.

BATHROOMS (WITH OR WITHOUT W.C.) to have openable window (no minimum size). Background Ventilation of 4000mm sq Mechanical Extraction of 15 litres/second or Passive S.V. Where no window fitted Mechanical ventilation to be provided with the fan having an overun of 15 minutes and is controlled automatically or manually. Also air inlet to be provided eg. a 10mm air gap below the door.

SANITARY ACCOMMODATION (SEPARATE FROM BATHROOM) to have openable window 1/20th of floor area or mechanical ventilation at 15 litres /second per ackground Ventilation of 4000mm sq.

WINDOWS, DOORS AND GLAZING.

Windows and Doors as drawing with U.P.V.C 16mm gap Pilkington Low 'E' double glazing installed. Fix windows 150mm from each end of jamb, adjacent to each opening jamb and at max 600mm c-cs. All windows to be as specified on plan as calculated for the Building Regulations etc. Any alterations to be agreed with Agent and Building Control Before ordering etc. Also if windows are ordered different from plan and are not available when work commences on site please ensure profiles are checked against dimensions ordered etc. Glazing laminated or toughened glass to BS6206, Class B in the following critical locations. WINDOWS 800mm or less above floor level. within 300mm of a door and 1500mm or less above floor level. DOOR 1500mm or less above floor level. EXCEPTION; small panes maximum 250mm wide not exceeding 0.5m2 may be 6mm annealed glass.
All windows and doors to be draughtproofed.

JOINERY (INTERNAL).

Standard mouldings, architraves and skirtings to Clients choice/specification.

TIMBER.

All timber to be SC3 Grade.

CEILINGS.

12.5mm plasterboard ceilings throughout to BS.1230 and installed to manufacturers details. Support all joints and edges of boards with timber noggins.Tape all joints. Artex and stove finish to clients requirements.
Ensure boards are layed perpendicular to joist span and joints staggered and fixed at min 150mm c-cs.

SMOKE DETECTION.

It is advisable that at least Battery operated smoke alarms to BS 5446: Part 1 are installed in circulation areas within 7000mm of doors to high risk rooms and within 3000mm of bedroom doors. At least one smoke alarm to be installed to each storey. Fixing of smoke alarms should be not less than 300mm from any wall or light fitting. Where wall mounted units are installed they are to be a height between 150mm and 300mm below ceiling. Occupants of property to be provided with information on the use and maintenance of the equipment.

ELECTRICAL.

Electrical installation to comply with the latest Edition of the IEE wiring regulations.

Fittings for Lighting to be Energy Efficient Type.

ROOF(s).

Lay concrete interlocking roof tiles to BS 402 and Type as plan and to manufacturers specification on 25x38mm tanalised sw tile battens and untearable roofing felt to BS 747 Type 1F, with min 150mm lap in each direction on ready made fink, Hip mono type trusses.

CHECK ROOFPLATE WIDTHS BEFORE ANY ORDER PLACED.
Trussed rafters at 600mm c-cs and designed and fabricated to BS 5268. Manufacturers certificate and calculations to be submitted to BCO for checking before roof work commences. Roof bracing to be to BS 5268 and 25x100mm SC3. Diagonal bracing running from eaves to ridge at underside of rafters (also on top of ceiling joists running from eaves to inner binders if shown on section). Lap joints if necessary and nail to each rafter with 2no, 10 gauge galvanised nails. (Also web bracings at approx 45 degrees in plane of webs. Fixing as before and shown on section if required depending on span). 25x100mm Binders at ridge and node points fixed as above. Trusses to be fixed to 50x100mm wall plates bedded in 1:4 cement mortar with galv truss clips.

Incorporate layboards, demirishing trusses and GRP valley trays/tiles/ Code 4 lead to roof intersections.

Offset fascia board from brickwork as existing. Install 6mm masterboard with Glidevale SV604 continuous soffit ventilator installed to achieve min 10mm continuous air gap full length of eaves. Install roof vent RV601 between rafters and over plates to ensure air flow over insulation. Or alternatively fit over the fascia type vents. Any Softwood eaves and ext roof to be to BS 4978 and BS 5268 treated to British Wood Preserving Association Commodity Specification C. Site cut sw to be saturated with apprc.priate preservative where cut etc.

INSULATION.

Install 100mm Gypglass fibreglass mineral wool quilt insulation between ceiling joist/bottom chord of trusses and 150mm Gypglass fibreglass mineral wool perpendicular over top as shown on section. All exposed pipework and ducts together with storage vessels to be adequately lagged in accordance with Part L of the Building Regulations. Ensure all ducts and pipework through ceilings/ floors/and hollow constructions or voids are sealed around.

LATERAL RESTRAINT STRAPS.

Tie roof structure to blockwork with Catnic straps at 2mt c-cs. Prefix V.L. type straps along wall plates, 30 x 5 x 1000 long. H.L. at gable walls where rafters and ceiling joists are parallel to walls spanning over min 3 members. Pack beneath H.L. straps and wall/structural member with solid bridging noggins. Noggins to extend at least half the depth of the joist and at least 38mm thick. (Or use binder positions if B.C.O. in agreement). Screw and plug fix straps to blockwork.

FLASHINGS.

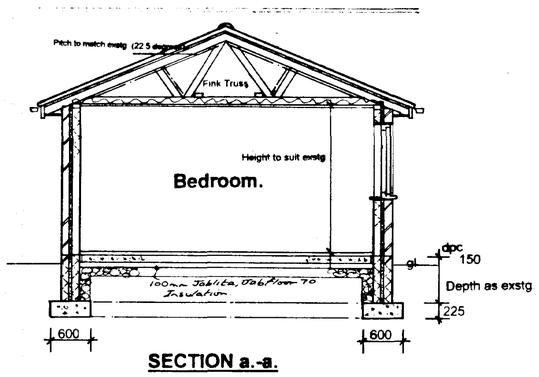
Code 4 or 5 Step and cover lead flashings to all roof/wall abutments to BS 1178 wedged into brickwork 25mm. Cavity trays in conjunction with flashings are to be installed where roofs abut external cavity walls and manufactured weeps to be installed at 1000mm centres (4th Perp). Colour to blend.

TREE ROOTS.

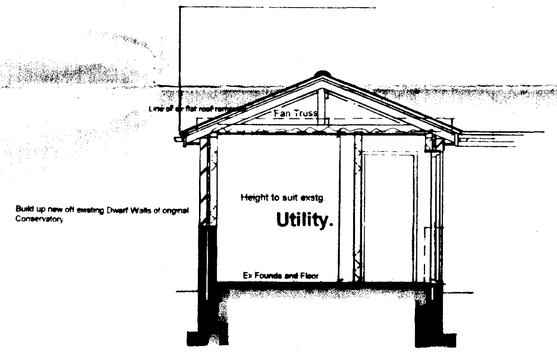
Any Strip founds and floor slabs that may be affected by tree roots to be reinforced with A142 mesh top and bottom with 400mm lap joints and min 40mm cover to the satisfaction of the BCO inspector.

SPACE HEATING AND PLUMBING.

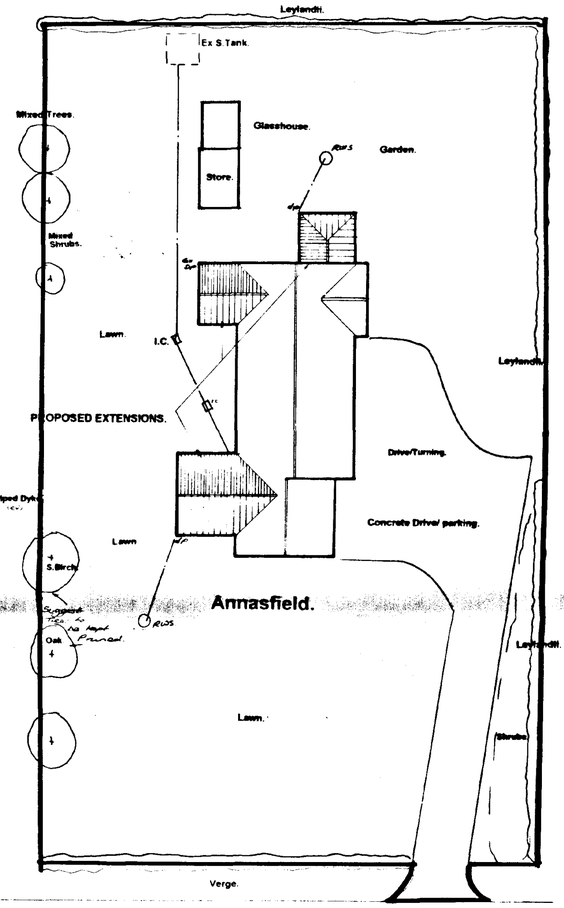
Re-route all heating pipes and extend system to heating engineers details/spec. Provide hot and cold water supplies to new sanitary fittings as required.



SECTION a.-a.



SECTION b-b.



SITE PLAN 1:200.

DETERMINED PLAN

SDC Planning & Conservation
24 JUN 2002
Ref 0728/02

Architectural
Design Services.
S.J.Thrower.

3 Newgate Road, Tydd St.Giles, Wisbech, Cambridgeshire.
Tel. 01945 870022.

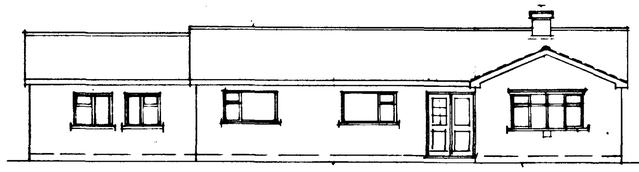
Proposed Extension & Alterations at Annasfield, Mission House Corner, Old Fendyke, Sutton St. James. For.Mr.& Mrs. B.Harrison.

SECTION/NOTES & SITE PLAN.

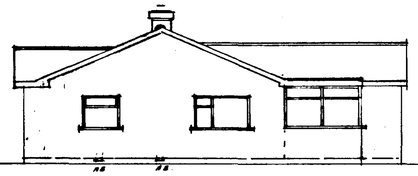
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1:50.	Mar 02	JT	~

Drwg no. SH/84002.

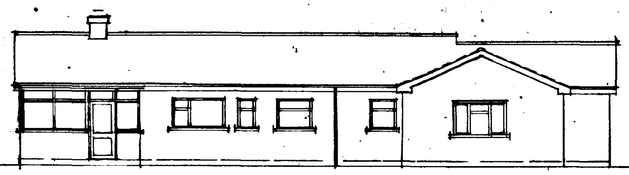
EXISTING ELEVATIONS



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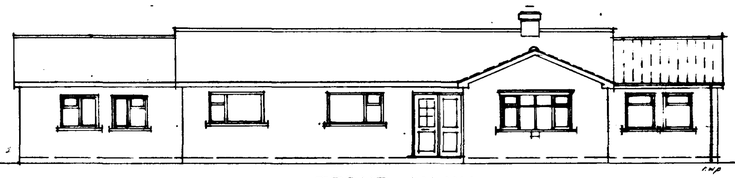


SIDE (SW)

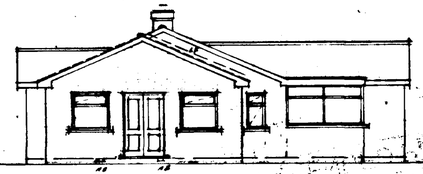


REAR (SE)

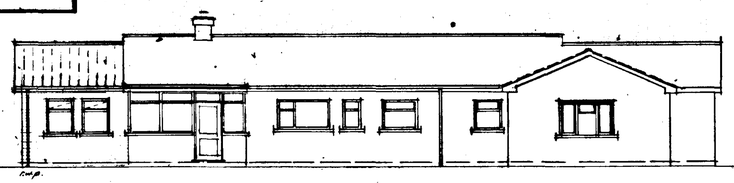
PROPOSED ELEVATIONS



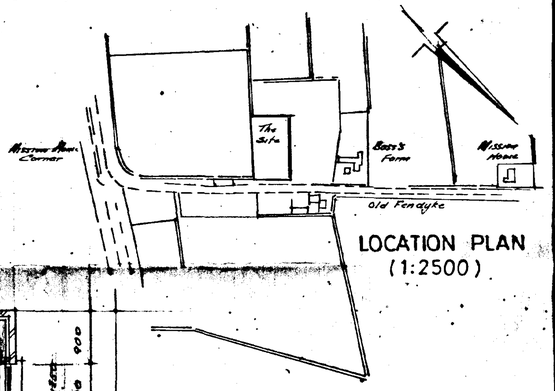
FRONT (NW)



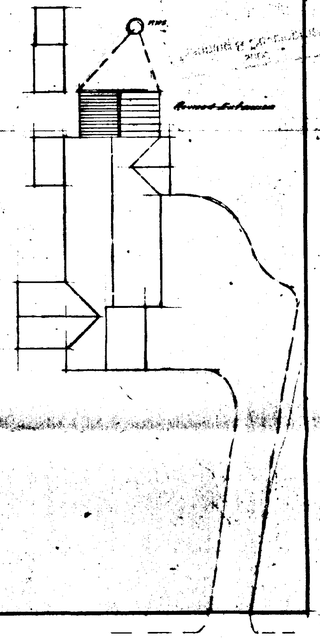
SIDE (SW)



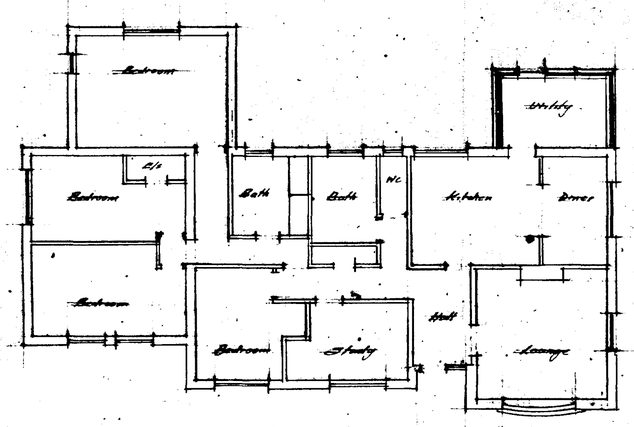
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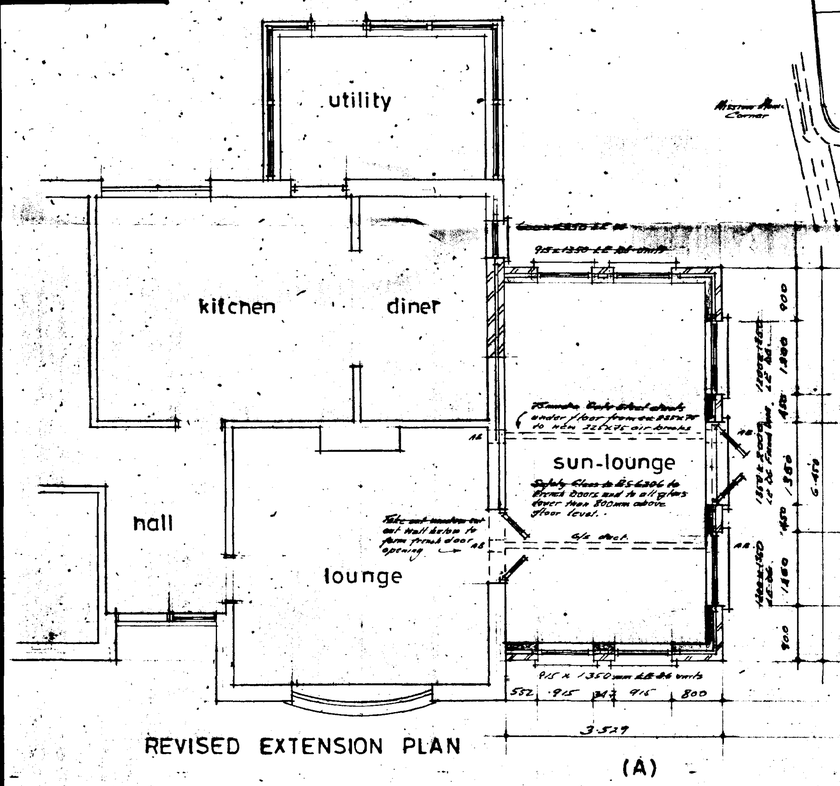
LOCATION PLAN
(1:2500)



SITE PLAN

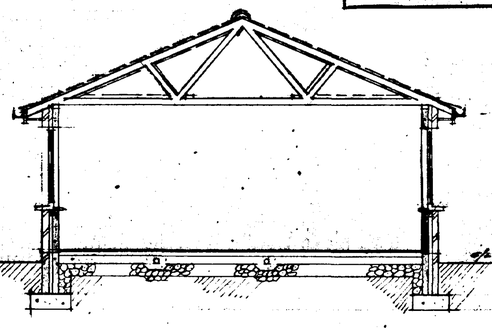


EXISTING FLOOR PLAN



REVISED EXTENSION PLAN

(A)



SECTION A A

SHDC
Planning & Development
10 JAN 2005
Ref: 0728/02

AMENDED PLAN
Ref. A1

SCALES 1:500 1:100 1:250

REVISED EXTENSION TO DWELLING 'ANNASFIELD', MISSION HOUSE CORNER, OLD FENDYKE, SUTTON ST JAMES, FOR MR. & MRS. B. HARRISON

SH/84102/A

STORM DRAINAGE.

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All new and existing floors to be level. Take out existing brickwork in new opening a.dcm to invert of hardcore level to avoid hardspots.

D.P.C.

Install Astcs or similar d.p.c. to BS6398 min 150mm above G.L. and 18mm thick Damcor insulated d.p.c. to all reveals. Fit dpc to external lintels (See lintel notes). Provide weep holes where appropriate if necessary.
(See Flashing notes also). Step up as required adj to entrance doors to maintain height above paving. (Where applicable).

MASONARY/WALLS.

103mm facings to match existing to all elevations. 75mm cavity with 75mm Dri-therm installed to manufacturers with 6no s/s or g.i/v wall ties to BS 1243 at 900mm centres horizontally and 450mm centres vertically. 225mm centres at all jamb openings. Close cavity with blockwork at highest points. Masonary bricks and blocks to be to BS 3921, BS 6073 Part 1 and BS 5628. Mortar 1:1:5 cement: lime: & with airentraining agent. Lay 440mm and 150 440mm CELCON, THERMALITE OR DUROX internal thermal block with 12mm thick, 2 coat gypsum plaster/skim finish. Incorporate piers as indicated. Use Catnic/Furfix or Bluebird fixings to tie new to existing with ties to manufacturers spec at 225mm c.cs. through 12mm Compriband v membrane sealed over externally with a 12x20mm polysulphide sealant.
(SHOULD any BLOCKS NOT LISTED ABOVE BE INSTALLED CHECK MANUFACTURERS DETAILS AND INSUALATED CAVITY WIDTH TO COMPLY WITH NEW B>REGULATIONS REQUIREMENTS OF 0.35).
Walls to achieve a 'U'Value of not exceeding 0.35m2 degrees C.

LINTELS.

Install I.G. type steel lintels to manufacturers instructions, min end bearing 150mm. All external lintels to have a tray d.p.c. installed in accordance with BS 5268 which should extend to the edge of the toe and at least 100mm beyond each end of the lintel to shed moisture clear of reveals. See ref nos on plan.Ensure lintels have manufacturers insulation installed.

VENTILATION.

All HABITABLE ROOMS to have ventilation openings equal to 1/20th floor area of the room and with one part of the ventilation opening at least 1.75m above the floor level, eg. opening window. HABITABLE ROOMS to have trickle ventilators in top of window frames with controllable and secure ventilation opening min 8000mm sq. (draught secure).

UTILITY ROOM to have an opening window (no minimum size).Background Ventilation of 4000mm sq. Mechanical Extraction 30 litres/second or Passive S.V.

BATHROOMS (WITH OR WITHOUT W.C.) to have openable window (no minimum size). Background Ventilation of 4000mm sq Mechanical Extraction of 15 litres/second or Passive S.V. Where no window fitted Mechanical ventilation to be provided with the fan having an overun of 15 minutes and is controlled automatically or manually. Also air inlet to be provided eg. a 10mm air gap below the door.

SANITARY ACCOMMODATION (SEPARATE FROM BATHROOM) to have openable window 1/20th of floor area or mechanical ventilation at 15 litres /second per. ackground Ventilation of 4000mm sq.

WINDOWS, DOORS AND GLAZING.

Windows and Doors as drawing with U.P.V.C 16mm gap Pilkington Low 'E' double glazing installed. Fix windows 150mm from each end of jamb..adjacent to each opening jamb and at max 600mm c-cs. All windows to be as specified on plan as calculated for the Building Regulations etc. Any alterations to be agreed with Agent and Building Control before ordering etc. Also if windows are ordered different from plan and are not available when work commences on site please ensure profiles are checked against dimensions ordered etc. Glazing laminated or toughened glass to BS6206. Class B in the following critical locations. WINDOWS 800mm or less above floor level, within 300mm of a door and 1500mm or less above floor level. DOOR 1500mm or less above floor level. EXCEPTION; small panes ,maximum 250mm wide not exceeding 0.5m2 may be 6mm annealed glass.
All windows and doors to be draughtproofed.

JOINERY (INTERNAL).

Standard mouldings, architraves and skirtings to Clients choice/specification.

TIMBER.

All timber to be SC3 Grade.

CEILINGS.

12.5mm plasterboard ceilings throughout to BS.1230 and installed to manufacturers details. Support all joints and edges of boards with timber noggins.Tape all joints. Artex and cove finish to clients requirements.
Ensure boards are layed perpendicular to joist span and joints staggered and fixed at min 150mm c-cs.

SMOKE DETECTION.

It is advisable that at least Battery operated smoke alarms to BS 5446: Part 1 are installed in circulation areas within 7000mm of doors to high risk rooms and within 3000mm of bedroom doors. At least one smoke alarm to be installed to each storey. Fixing of smoke alarms should be not less than 300mm from any wall or light fitting. Where wall mounted units are installed they are to be a height between 150mm and 300mm below ceiling. Occupants of property to be provided with information on the use and maintenance of the equipment.

ELECTRICAL.

Electrical installation to comply with the latest Edition of the IEE wiring regulations.

Fittings for Lighting to be Energy Efficient Type.

ROOF(s).

Lay concrete interlocking roof tiles to BS 402 and Type as plan and to manufacturers specification on 25x38mm tanalised sw tile battens and untearable roofing felt to BS 747 Type 1F, with min 150mm lap in each direction on ready made fink, Hip mono type trusses.

CHECK ROOFPLATE WIDTHS BEFORE ANY ORDER PLACED.
Trussed rafters at 600mm c-cs and designed and fabricated to BS 5268. Manufacturers certificate and calculations to be submitted to BCO for checking before roof work commences. Roof bracing to be to BS 5268 and 25x100mm SC3. Diagonal bracing running from eaves to ridge at underside of rafters (also on top of ceiling joists running from eaves to inner binders if shown on section). Lap joints if necessary and nail to each rafter with 2no. 10 gauge galvanised nails. (Also web bracings at approx 45 degrees in plane of webs. Fixing as before and shown on section if required depending on span). 25x100mm Binders at ridge and node points fixed as above. Trusses to be fixed to 50x100mm wall plates bedded in 1:4 cement mortar with galv truss clips.

Incorporate layboards, deminishing trusses and GRP valley trays/tiles/ Code 4 lead to roof intersections.

Offset fascia board from brickwork as existing. Install 6mm masterboard with Glidevale SV604 continuous soffit ventilator installed to achieve min 10mm continuous air gap full length of eaves. Install roof vent RV601 between rafters and over plates to ensure air flow over insulation. Or alternatively fit over the fascia type vents. Any Softwood eaves and ext roof to be to BS 4978 and BS 5268 treated to British Wood Preserving Association Commodity Specification C. Site cut sw to be saturated with appropriate preservative where cut etc.

INSULATION.

Install 100mm Gyvglass fibreglass mineral wool quilt insulation between ceiling joist/bottom chord of trusses and 150mm Gyvglass fibreglass mineral wool perpendicular over top as shown on section. All exposed pipework and ducts together with storage vessels to be adequately lagged in accordance with Part L of the Building Regulations. Ensure all ducts and pipework through ceilings/ floors/and hollow constructions or voids are sealed around.

LATERAL RESTRAINT STRAPS.

Tie roof structure to blockwork with Catnic straps at 2mt c-cs. Prefix V.L. type straps along wall plates, 30 x 5 x 1000 long, H.L. at gable walls where rafters and ceiling joists are parallel to walls spanning over min 3 members. Pack beneath H.L. straps and wall/structural member with solid bridging noggins. Noggins to extend at least half the depth of the joist and at least 38mm thick. (Or use binder positions if B.C.O. in agreement). Screw and plug fix straps to blockwork.

FLASHINGS.

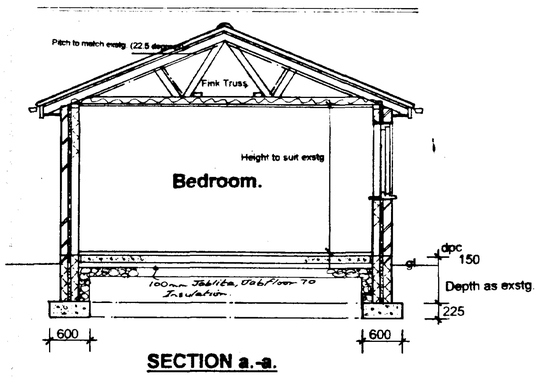
Code 4 or 5 Step and cover lead flashings to all roof/wall abutments to BS 1178 wedged into brickwork 25mm. Cavity trays in conjunction with flashings are to be installed where roofs abut external cavity walls and manufactured weeps to be installed at 1000mm centres (4th Perp). Colour to blend.

TREE ROOTS.

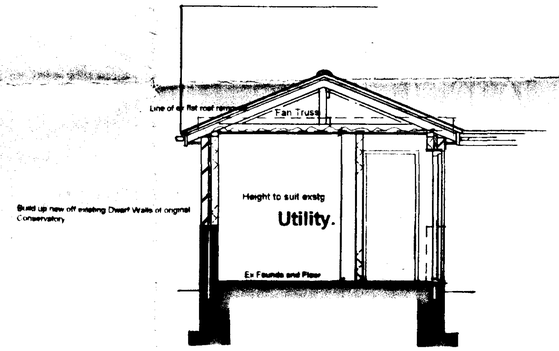
Any Strip founds and floor slabs that may be affected by tree roots to be reinforced with A142 mesh top and bottom with 400mm lap joints and min 40mm cover to the satisfaction of the BCO inspector.

SPACE HEATING AND PLUMBING.

Re-route all heating pipes and extend system to heating engineers details/spec. Provide hot and cold water supplies to new sanitary fittings as required.



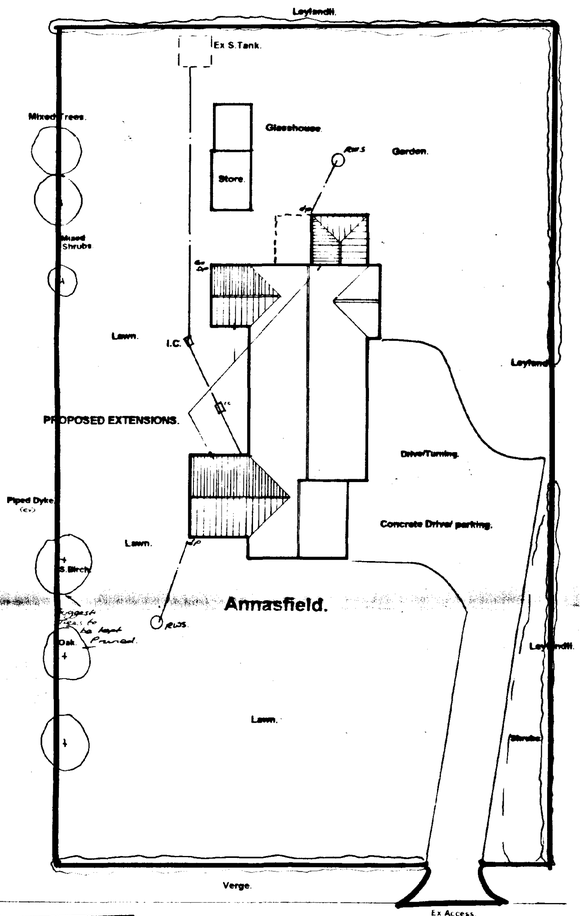
SECTION a.-a.



SECTION b-b.

The deposited plans have been examined against the criteria set out in the Building Regulations. It is neither practical or reasonable to show all relevant matters on working drawings, the fact that minor matters are not mentioned does not alleviate the builder from the responsibility of non-compliance in the carrying out of site operations.

Developers are advised to establish there is no made ground or wide variations in the type of subsoil within the loaded area and no weaker type of soil exists below the soil on which the foundations rest within such depth as may impair the stability of the structure.



SITE PLAN 1:200.

SOUTH HOLLAND D.C.
BUILDING CONTROL
24 JUN 2002
REF 573/02

AMENDED PLAN
Ref. A1

SHDC
Planning & Development
10 JAN 2005
Ref: 0728/02

This is a true copy of the Plan deposited with the Council by South Holland District Council and approved by them under the Building Regulations.

Architectural Design Services.

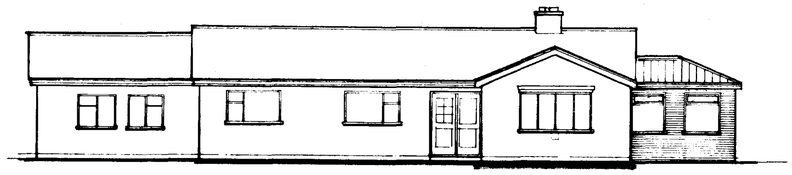
S.J.Thrower.
3 Newgate Road, Tydd St.Giles, Wisbech, Cambridgeshire.
Tel. 01945 870022.

Proposed Extension & Alterations at Annasfield, Mission House Corner, Old Fendyke, Sutton St. James. for.Mr.& Mrs. B.Harrison.

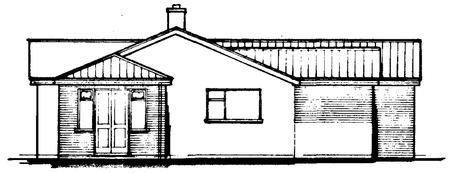
SECTION/NOTES & SITE PLAN.

Scale	Date	Drwn.	Chkd.
1: 50.	Mar 02.	JT	

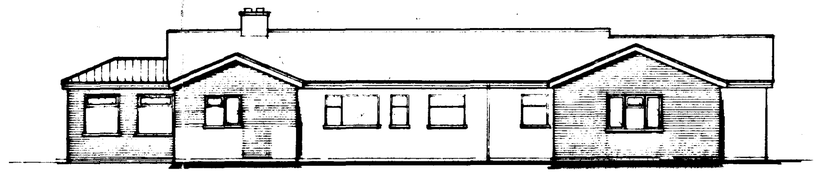
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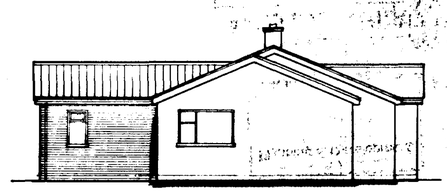
FRONT ELEVATION.



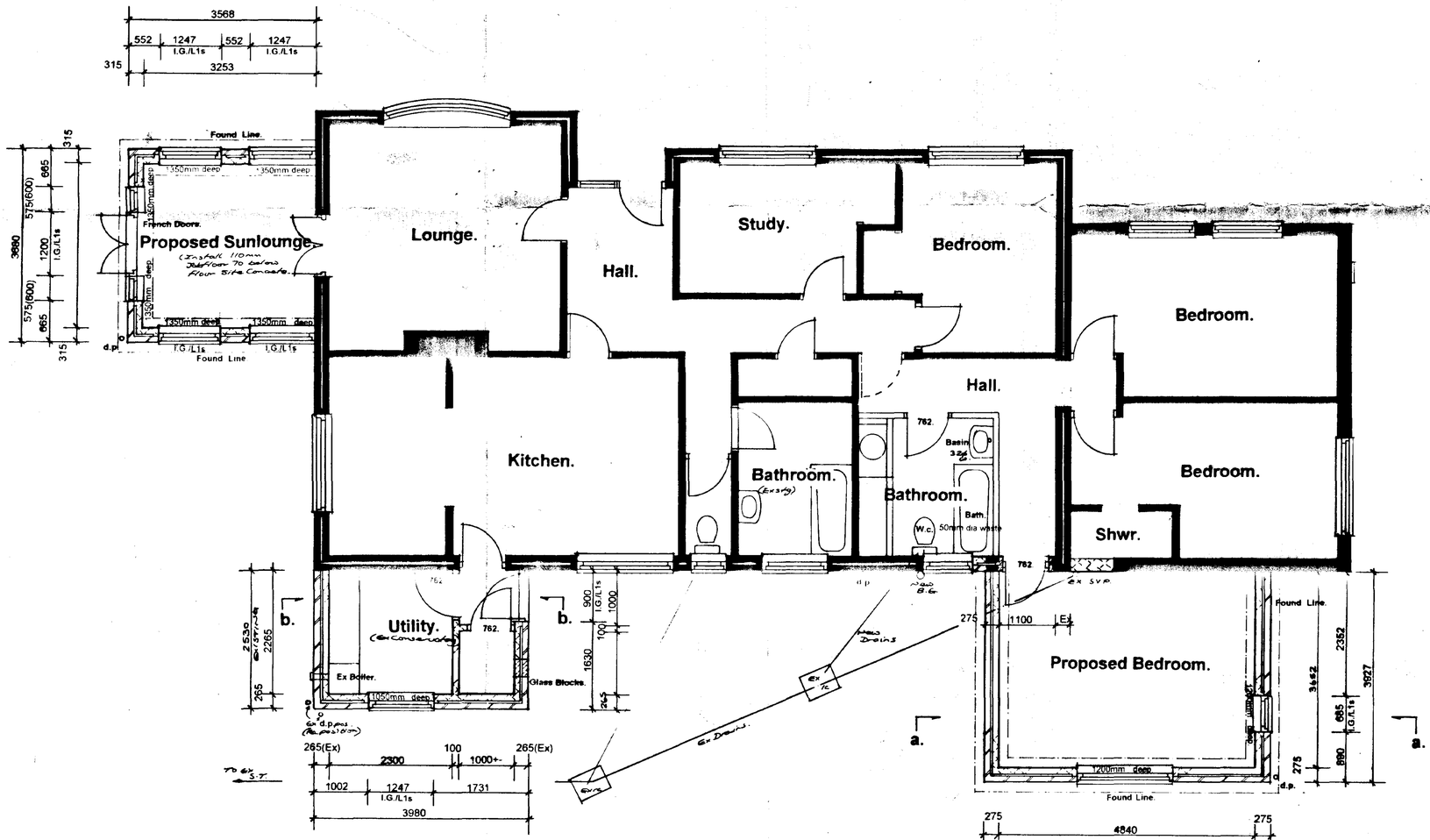
SIDE ELEVATION.



REAR ELEVATION.



SIDE ELEVATION.



PROPOSED FLOOR PLAN.

AMENDED PLAN
Ref. A1

SHDC
Planning & Development
10 JAN 2005
Ref: 0728/02

Architectural
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Sutton St. James. 01945 440332 07710 834466
For.Mr.& Mrs, B.Harrison.

GENERAL ARRANGEMENT PLAN.

Scale		Drwn	Chkd
1: 50. 1:100	Mar 02.	JT	

Drwg no. SH/84102.