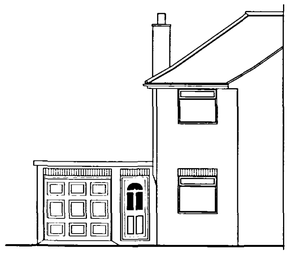
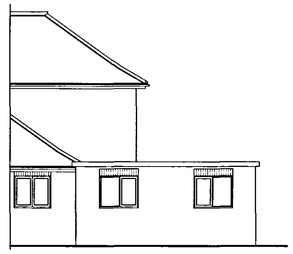


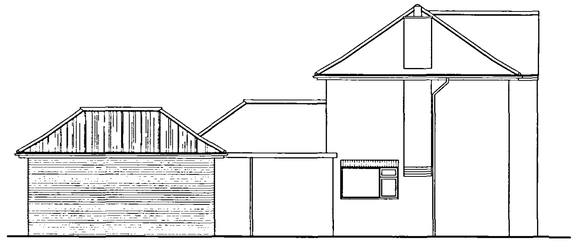
NORTH - EAST ELEVATION (EXISTING)



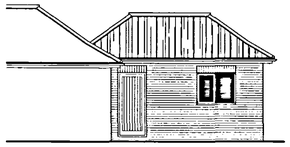
NORTH - WEST ELEVATION (EXISTING)



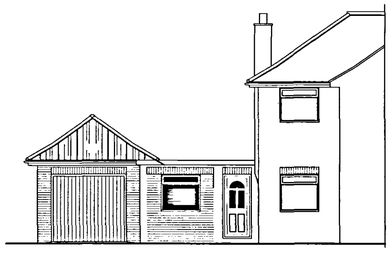
SOUTH - EAST ELEVATION (EXISTING)



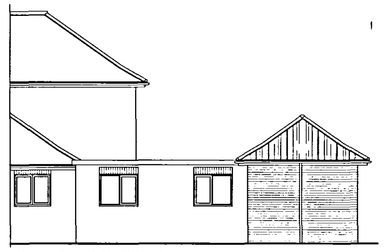
NORTH - EAST ELEVATION (PROPOSED)



SOUTH - WEST ELEVATION (PROPOSED)

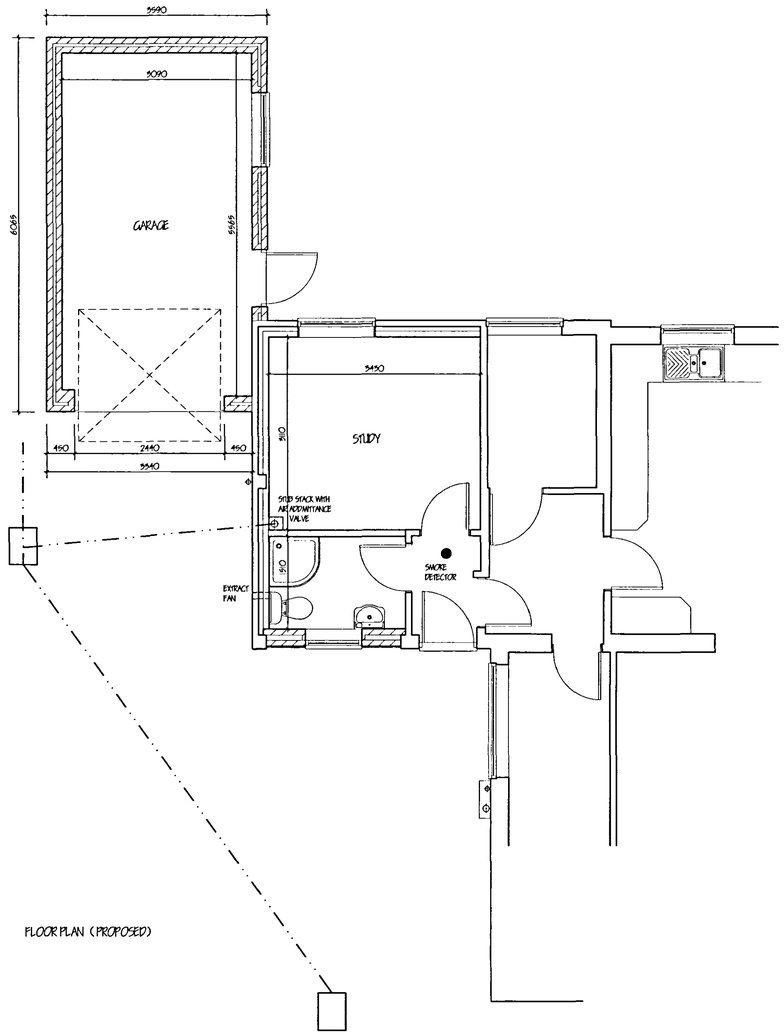


NORTH - WEST ELEVATION (PROPOSED)



SOUTH - EAST ELEVATION (PROPOSED)

FLOOR PLAN (EXISTING)



FLOOR PLAN (PROPOSED)

GLAZING.
Double glaze with p.v.c.u windows (minimum 24mm air gap to all units with Low 'E' 0.1 Glass) max 'U' value 2.2 W/ sq.m. K excluding garage. All glazing between F.F.L and 800mm high and between F.F.L and 1900mm high in doors and side lights to be safety glass to B.S. 6206. All windows/ doors to be draught sealed.

VENTILATION.
All windows to have opening lights to give the equivalent of 1/ 20th the floor area. Provide background ventilation to habitable rooms min. 8000mm sq permanent free air ventilation per room. To all other rooms provide min 4000 sq. All following rooms to have in addition to above Wall mounted mechanical extractor fan. Kitchen to extract min. 60 litres per second. Utility rooms to extract min. 30 litres per second. Bathrooms to extract min. 15 litres per second which may be operated intermittently. W.C. to extract min. 6 litres per second with 15 minute overrun.

HOT WATER AND SPACE HEATING.
Extend and upgrade existing system as required. Ensure provide timer switch, suitable zone and boiler control interlocks, fit thermostatic control valves to all radiators.
Heating Engineer to provide L/ A Building Control with a suitable Commissioning Certificate in accordance with that published as part of the Benchmark Code of Practice upon completion.

SMOKE DETECTORS.
Provide ceiling mounted mains operated self-contained smoke alarms to B.S. 5446: pt.1.1990 in positions shown on plan. Where more that one detector is to be provided they will be interconnected. All permanently wired to a separate fused circuit at distribution board.

ELECTRICAL INSTALLATIONS.
All electrical work to meet the requirements of Approved Document Part P (Electrical Safety) and must be designed, installed, inspected and tested by a person competent to do so.
Prior to completion of the works the Local Authority must be satisfied that either:-
An electrical installation certificate issued under a competent persons scheme has been issued.
OR
An appropriate installation certificate has been issued for the work and that it has been signed by a person competent to do so.

LIGHTING.
To Study provide energy efficient light fittings capable only of taking lamps having a luminous efficacy greater than 40 lumens per circuit.
External lighting to be fitted with Dawn-Dusk or movement sensors and capable only of taking lamps having a luminous efficacy greater than 40 lumens per circuit.

GENERAL
Provide hot & cold water supply to all wash basins.
All electrical switches, socket outlets, telephone and T.V. points to habitable rooms to be positioned at appropriate heights between 450mm & 1200mm from F.F.L

PITCHED ROOF CONSTRUCTION.
Interlocking concrete roof tiles to B.S. EN 490 / 491, on 25 x 38 softwood treated battens on under felt to B.S. 747 (type 1F) and in all cases to be lapped by 150mm both vertically and horizontally. Tiles to be laid with min. head lap of 75mm and to be fixed in accordance with regard to wind speed, roof pitch and exposure category as detailed in B. S 6399. Pt 2. Timber plate specialist made prefabricated roof trusses to comply with B.S. 5268 part 3 1988. TRUSS CALC'S TO BE SUBMITTED TO L/ A. MIN. 28 DAYS PRIOR TO ERECTION. Trusses to be at 600c/ c to a pitch of 30 deg. 38 x 100 ridge node binder 38 x 100 ceiling binders: All trusses to be strapped to wall plate by 30 x 5 galvanised metal straps acting as anchor and lateral restraint straps at max. 1.5m c/ c. Note: provide solid bridging beneath straps: 50 x 100 wall plate bedded on sand and cement: 25 x 175 fascia boards: 6mm ext. grade plywood soffit complete with 10mm wide continuous air gap and fly proof screen: All structural timber to be min.SC3 grade. stamped 'DRY' or 'KD' to indicate moisture content of 20% or less all in accordance with BS. 4978.

WALLING.
250 cavity walling to consist of face brickwork to B.S. 3921:1974 for clay bricks and B.S. 187:1978 for calcium silicate bricks: 50 cavity: build into cavity Dritherm32 cavity wall batt insulation boarding in accord. with makers instructions and agrement cert' No.84/1268 & 86/1584. 100mm Tarmac Hemelite 3.5 N/ mm2 solid insulation blocks or similar: Cavity walls tied together using stainless steel vertical twist ties set 750 horizontally and 450 vertically all to B.S. EN 845 wall ties positioned at 300 vertical centres at all unbonded closures of cavity: Close cavities with "Thermabate" preformed closer and provide bitumen felt DPC to C.P. 121: All work to be carried out in accordance with BS Code of Practice 121 Pt.1. 1979.

LINING
Existing face brickwork: 50 cavity: 9mm exterior grade ply on 38 x 89 c.l.s. timber studs at 600mm centres: 100mm mineral wool between studs 'Celotex tuff -R GA5050 ,taped joints: lined internally with 12.5mm 'Gyproc' wallboard: Close cavities with "thermabate" preformed closer.

SUB STRUCTURE WALLING.
100mm dense concrete blocks to B.S. 6073 pt.1 1981: DPC to external wall positioned in accordance with CP.102 min. 150 above finished ground level: Weak mix concrete infill to base of cavity no closer than 225 to DPC. All brickwork below DPC to be F.L. quality.

GROUND FLOOR CONSTRUCTION.
Existing Concrete floor to receive 2 coats "Synthaprufe" D.P.M. Lay 19mm T&G. flooring grade chipboard on 69mm 'Celotex tuff R GA5069' insulation board laid on Ensure 12mm expansion gap to perimeter of boarding. Use treated chipboard to Bathroom.

FOUNDATIONS.
Under walls as shown provide 225 x 700 strip concrete foundation all GEN4 mix to B.S. 5328: pt1 1991. All foundations taken down to bear on load bearing strata min. depth of 450mm below ground level to underside of foundations: should shrinkable soil conditions be found on site then foundations shall be taken down to a minimum depth of 1000mm below ground level. In all cases foundations are to be in accord with N.H.B.C. Foundation Practice Guidance Notes.

LINTELS.
All lintels to be manufactured by Messrs. I.G. Cookes L1/ S 90 and L1/ HD 90 all to be installed in accordance with makers' instructions, and to have min. end bearing of 150mm and at external positions to have cavity tray D.P.C. to C.P. 121. Internal lintels to be I.G. 100 Dpc type. Lintels in garage to be underlined with 12.7 fire line board or receive 12mm render and skim. Provide Perp-end weep holes and stop ends to cavity tray

FOUL DRAINAGE
Inspection chamber construction to be "Osma" and installed in accordance with makers' instructions with the internal diameter related to the depth in accordance with B.S. 8301:1985. Foul drainage pipes to be 110mm dia. UPVC, to B.S. 4660:1989 flexibly jointed and laid to makers' instructions to a fall of 1:70 bed and surround with 100mm pea gravel. Where pipes pass under floors encase in 150mm pea gravel: Where pipes pass under drives surround in 150mm concrete with flexd joints to correspond with joints in pipe work. Provide 65 x 100 pre-stressed concrete lintel bridging where pipes pass through walls, provide compressible filler around pipe, opening marked both sides of wall with nicked sheet material: Soil and vent pipes to be 110mm dia. PVC to B.S. 4514: 1983 and to extend 900mm above window head terminating with PVC bolkon. Waste pipes to be generally 40mm dia. If over 3.0m long run increase to 50mm dia. All PVC to B.S. 5955: 1979 complete with rodding eyes at every change of direction: Basin to have 75 deep seal traps: Shower to be raised on 150mm plinth with access plate to anti-syphon trap and 50mm waste. All redundant drains to be grubbed out or filled with lean-mix concrete.

SURFACE WATER DRAINAGE.
115mm dia. half round rainwater gutters to 63mm dia. rainwater pipes: 110mm dia. underground pipes flexibly joined to a fall of 1:70 pipes bedded and surrounded in pea gravel and discharge to 1.2m dia. soak away min. 5.0m to edge from dwelling. All footpaths and drives to slope away from building.

LIMITATIONS.
This drawing is limited in the amount of information contained and does not purport to contain a full specification of the works. It is solely for the purpose of obtaining Planning/ Building Regulation approval. The drawing must not be used as a contract document alone.
All dimensions shall be taken from site from actual work. Under no circumstances shall measurements be scaled from this drawing for construction or ordering purposes.
All given dimensions shall be checked by the Builder/ Contractor and will be his responsibility from commencement of site works.
The works will not be supervised or inspected on site by C.A.D. or any representative thereof. It is the client or their appointed agents responsibility to control workmanship, substitution of materials, adherence to specification, variations to contract etc.

COPYRIGHT RESERVED.
Copies of this drawing must be made only with the written permission of Cooper Architectural Design.

STANDARDS.
All materials to be new unless otherwise stated and all components and materials etc. to be used fitted and installed etc. in strict accordance with manufacturers instruction and relevant Code of Practice.
Materials shall conform to appropriate British Standard Specification or BBA Certificate or European Code equivalent.

HEALTH & SAFETY.
The Employer/ Client shall ensure that the selected contractor is conversant with and adopts all measures necessary to achieve compliance with Health & Safety legislation for Building Sites and Work Places.
The Employer / Client is advised that should the works need to comply with the Construction Design and Management Regulations an independent Planning Supervisor will be required.

SCOPE OF THE WORKS.
The works shall comprise of all that is shown on the drawing and details. Work that may not be specifically shown but may be reasonably inferred as necessary to carry out the works shall be deemed to be included.

SHDC
PLANNING & DEVELOPMENT
22 MAY 2006
Ref. 055966

revision	date	init.	revision details.

COOPER ARCHITECTURAL DESIGN
VINE HOUSE 2 VINE STREET
SPALDING, LINC'S PE11 1AN
Tel/Fax : 01775 723233
Mobile : 07808 125 778
E-Mail : c.a.d@btconnect.com

Client.
MR & MRS N FLETCHER

Project.
PROPOSED GARAGE & INTERNAL ALTERATIONS
34 CLEYHALL DRIVE
SPALDING
LINC'S.

DETERMINED PLAN

Drawing.
AMENDED PLAN
Ref. A1

Scale 1:50 1:100	Drawing No. 0535-01
Date. APR. '06	Drawn. J.C.