PLANNING NOTE

ermitted development and not requiring an application for planning permission, subject to the following limits and No more than half the area of land around the "original

Under new regulations that came into force on 1 October

house" would be covered by additions to buildings. No extension forward of the principal elevation or side

elevation fronting a highway. No extension higher than the highest part of the roof.

Maximum depth of a single storey rear extension to be 3 netres for an attached house and 4 metres for a detached

Maximum height of a single storey rear extension to be four Maximum ridge and eaves height no higher than existing

Roof pitch of extensions higher than one storey to match xisting house

Materials to be similar in appearance to the existing house. Upper-floor, side-facing windows to be obscure glazed: any pening to be 1.7m above the floor.

CDM REGULATIONS 2015

The client must abide by the Construction Design and Management Regulations 2015. The client must appoint a contractor, if more than one contractor is to be involved, the • Insertion of lead flashings plan, manage and coordinate the planning and design work) and a principal contractor (to plan, manage and coordinate the construction and ensure there are arrangements in place the new foundations are within a 45 degree line of the for managing and organising the project).

THERMAL BRIDGING

Care shall be taken to limit the occurrence of thermal bridging boards or moisture resistant particle/chipboard grade type C4 strip 5mm wide to promote ventilation or provide equivalent be provided to all jambs and below window openings with in the insulation layers caused by gaps within the thermal element, (i.e. around windows and door openings). Reasonable provision shall also be made to ensure the extension is constructed to minimise unwanted air leakage through the new building fabric.

MATERIALS AND WORKMANSHIP

All works are to be carried out in a workmanlike manner. All honeycombed sleeper walls built on thickened oversite materials and workmanship must comply with Regulation 7 of concrete. Joists to be infilled with 110mm Celotex XR4000 the Building Regulations, all relevant British Standards, European Standards, Agreement Certificates, Product Certification of Schemes (Kite Marks) etc. Products conforming to a European technical standard or harmonised be above the finished level of the adjoining ground. The European product should have a CE marking.

SITE PREPARATION

Ground to be prepared for new works by removing all unsuitable material, vegetable matter and tree or shrub roots Ventilation of Floor to a suitable depth to prevent future growth. Seal up, cap off, Provide cross-ventilation under floor to outside air by disconnect and remove existing redundant services as danger to health and safety caused by contaminants and the ground covered, or to be covered by the building.

EXISTING STRUCTURE Existing structure including foundations, beams, walls and

lintels carrying new and altered loads are to be exposed and through the radon barrier. required by the Building Control Officer.

roof structure, floor structure, bearings, and padstones in accordance with the Structural Engineer's calculations and details. New steel beams to be encased in 12.5mm Gyproc FireLine board with staggered joints, Gyproc FireCase or painted in Nullifire S or similar intumescent paint to provide 1/2 hour fire resistance as agreed with Building Control. All fire To meet min U value required of 0.22 W/m²K protection to be installed as detailed by specialist manufacturer.

LINTELS

- For uniformly distributed loads and standard 2 storey domestic loadings only Lintel widths are to be equal to wall thickness. All lintels over 750mm sized internal door openings to be 65mm deep prestressed concrete plank lintels. 150mm deep lintels are to be used for goomm sized internal door openings. Lintels to have 100mm ST2 or Gen2 ground bearing slab concrete mix to a minimum bearing of 150mm on each end. Any existing lintels carrying additional loads are to be exposed for concrete lintels to be designed and manufactured in support loadings assessed to BS 5977 Part 1.

For other structural openings provide proprietary insulated Approved Document A and lintel manufactures standard tables. Stop ends, DPC trays and weep holes to be provided above all externally located lintels.

STRAPPING FOR PITCHED ROOF

Gable walls should be strapped to roofs at 2m centres. All external walls running parallel to roof rafters to be restrained All new walls to have Class A blockwork below ground level or at roof level using 1000mm x 30mm x 5mm galvanised mild steel horizontal straps or other approved to BSEN 845-1 built into walls at max 2000mm centres and to be taken across minimum 3 rafters and screw fixed. Provide solid noggins between rafters at strap positions. All wall plates to be 100 x cavity wall (150mm below damp course) laid to fall to 50mm fixed to inner skin of cavity wall using 30mm x 5mm x weepholes. 1000mm galvanized metal straps or other approved to BSEN 845-1 at maximum 2m centres.

FLAT ROOF RESTRAINT

walls with 1000mm x 30mm x 5mm galvanised mild steel straps at maximum 2.0m centres fixed to internal wall faces.

OPENINGS AND RETURNS An opening or recess greater than 0.1m² shall be at least

550mm from the supported wall (measured internally).

STRIP FOUNDATION

Provide 225mm x 600mm concrete foundation, concrete mix battens (provide counter battens to ensure vented and drained to conform to BS EN 206-1 and BS 8500-2. All foundations to cavity if required) fixed to breathable membrane (having a be a minimum of 1000mm below ground level, exact depth to vapour resistance of not more than 0.6 MNs/g) and 12mm be agreed on site with Building Control Officer to suit site thick WBP external quality plywood sheathing (or other conditions. All constructed in accordance with 2010 Building approved). Ply fixed to treated timber frame studs constructed Regulations A1/2 and BS 8004:2015 Code of Practice for Foundations. Ensure foundations are constructed below invert (with noggins) at 400mm ctrs or to s/engineer's details & level of any adjacent drains. Base of foundations supporting calculations. Insulation to be 100mm Kingspan Thermawall internal walls to be min 600mm below ground level. Sulphate TW55 between studs plus 22mm Gyproc Thermaline Basic resistant cement to be used if required. Please note that should any adverse soil conditions be found or any major tree plaster. All junctions to have water tight construction, seal all roots in excavations, the Building Control Officer is to be contacted and the advice of a structural engineer should be externally.

TIMBER SUSPENDED FLOOR

then either -

(i) Provide concrete ground cover of at least 100mm thick or at all reveals where cavity is closed. (ii) Prepare the ground to an even surface and lay a ground cover of concrete at least 50mm thick, on a damp-proof membrane of at least 1200 gauge polyethylene, laid on a bed All walls constructed using stainless steel vertical twist type of fine blinding material.

Domestic clients

The domestic client is to appoint a principal designer and a not your duties will automatically transferred to the contractor or principal contractor.

The designer can take on the duties, provided there is a

written agreement between you and the designer to do so.

The Health and Safety Executive is to be notified as soon as possible before construction work starts if the works: (a) Last longer than 30 working days and has more than 20

(b) Exceeds 500 person days.

PARTY WALL ACT

The owner, should they need to do so under the requiremen of the Party Wall Act 1996, has a duty to serve a Party Structure Notice on any adjoining owner if building work on, to or near an existing Party Wall involves any of the following: Support of beam

workers working simultaneously at any point in the project.

 Insertion of DPC through wall Raising a wall or cutting off projections Demolition and rebuilding

 Underpinning lient will need to appoint (in writing) a principal designer (to • Excavations within 3 metres of an existing structure where the new foundations will go deeper than adjoining foundations, or within 6 metres of an existing structure whe

> adjoining foundations. A Party Wall Agreement is to be in place prior to start of

220mm C24 grade soft wood joists at maximum 400mm galvanized joist hangers built into new masonry walls or fixed ceilings using galvanized plasterboard nails. to treated timber wall plates resin bolted to walls at 600mm centres. If required, floor joists also to be supported on 100mm x 50mm treated wall plates and DPC fixed to masonry YOUR RESPONSIBILITY TO ASSESS YOUR DESIGN TO

The top surface of the ground cover under the building shall underside of the floor joists are not to be less than 150mm above the top of the ground cover. The underside of any wall plate is to be not less than 75mm above the top of the ground

fixed with Celotex clips.

ventilators in at least 2 opposite external walls of the building. necessary. Reasonable precautions must also be taken to avoid Ventilation openings having an opening area of 1500mm² per metre run of perimeter wall or 500mm² per square metre of ground gases e.g. landfill gases, radon, vapours etc. on or in floor area whichever gives the greater opening area. All sleeper walls or similar under floor obstructions shall be of honeycombed construction or have similar provision for distribution of ventilation. The under floor space shall be free from debris. Ducts to be sealed using gas proof tap if they pass

checked for adequacy prior to commencement of work and as THIS IS A GENERAL GUIDE BASED ON NORMAL LOADING CONDITIONS FOUND IN DOMESTIC CONSTRUCTION. IT IS YOUR RESPONSIBILITY TO ASSESS YOUR DESIGN TO ASCERTAIN WHETHER ENGINEER'S DETAILS/CALCULATIONS Supply and install new structural elements such as new beams, ARE REQUIRED. PLEASE REFER TO THE TRADA DOCUMENT - 'SPAN TABLES FOR SOLID TIMBER MEMBERS IN FLOORS, CEILINGS AND ROOFS FOR DWELLINGS' OR ASK YOUR BUILDING CONTROL OFFICER FOR ADVICE.

SOLID FLOOR INSULATION UNDER SLAB

Solid ground floor to consist of 150mm consolidated wellrammed hardcore. Blinded with 50mm sand blinding. Provide polythene DPM. DPM to be lapped in with DPC in walls. Floor to be insulated over DPM with 75mm thick

25mm insulation to continue around floor perimeters to avoid thermal bridging. A VCL should be laid over the insulation boards and turned up 100mm at room perimeters behind the skirting, all joints to be lapped 150mm and sealed. Provide conform to BS 8500-2 over VCL. Finish over the slab with a floating layer of min 20mm tongue and groove softwood inspection at commencement of work on site. All pre-stressed boards or moisture resistant particle/chipboard grade type C4 to BS EN 312 as required. Lay with staggered joints. accordance with BS EN 1992-1-1, with a concrete strength of Where drain runs pass under new floor, provide A142 mesh 50 or 40 N/mm² and incorporating steel strands to BS 5896 to 1.0m wide within bottom of slab min 50mm concrete cover over length of drain.

Where existing suspended timber floor air bricks are covered steel lintels suitable for spans and loadings in compliance with by new extension, ensure cross-ventilation is maintained by connecting to 100mm dia UPVC pipes to terminate at new 65mm x 215mm air bricks built into new cavity wall with 100mm concrete cover laid under the extension. Ducts to be sleeved through cavity with cavity tray over.

WALLS BELOW GROUND

alternatively semi engineering brickwork in 1:4 masonry cement or equal approved specification. Cavities below ground level to be filled with lean mix concrete min 225mm below damp proof course. Or provide lean mix backfill at base of

FULL FILL CAVITY WALL

To achieve minimum U Value of 0.28W/m²K New cavity wall to comprise of 105mm facing brick to match 100m x 50mm C16 grade timber wall plates to be strapped to existing. Full fill cavity with 110mm Rockwool Cavity insulation as manufacturer's details. Inner leaf to be 100mm block K value 1.13, e.g. (Armstrong dense, Masterblock Monacrete 100s). Internal finish to be 12.5mm plasterboard on dabs. Walls to be built with 1:1:6 cement mortar.

TIMBER FRAME WALL

To achieve minimum U Value of 0.28W/m²K Tiles hung vertically on 25 x 38mm preservative-treated using: 100mm x 50mm head & sole plates and vertical studs with VCL over. Finish with a 3mm skim coat of finishing perimeter joints with tape internally and with silicon sealant

Provide horizontal strip polymer (hyload) damp proof course Ground preparation -Remove top soil and vegetation, apply to both internal and external skins minimum 150mm above total weed killer and 150mm min thick sand blinded hardcore, external ground level. New DPC to be made continuous with existing DPC's and with floor DPM. Vertical DPC to be installed

WALL TIES retaining wall ties built in at 750mm ctrs horizontally, 450mm vertically and 225mm ctrs at reveals and corners in staggered

rows. Wall ties to be suitable for cavity width and in

accordance with BS EN 845

Provide cavity trays over openings. All cavities to be closed at Pitch 22-45° 2008 an extension or addition to a house is considered to be principal contractor when there is more than one contractor, if eaves and around openings using Thermabate or similar non To achieve U-value 0.18 W/m²K combustible insulated cavity closers. Provide vertical DPCs around openings and abutments. All cavity trays must have 50mm upstands and suitable cavity weep holes (min 2) at nax goomm centres.

> EXISTING TO NEW WALL Cavities in new wall to be made continuous with existing where possible to ensure continuous weather break. If a ontinuous cavity cannot be achieved, where new walls abuts allow for drape of breathable felt. Insulation to be 165mm All tied into existing construction with suitable proprietary stainless steel profiles.

UPGRADE OF PITCHED ROOF

imposed load max 0.75 kN/m² - dead load max 0.75 kN/m²) Vented roof – pitch 22-45° To achieve U-value 0.18 W/m²K

structural engineer's details and calculations which must be 3 timbers with noggins. All straps to be 1000 x 30 x 5mm approved by building control before works commence on site. galvanized straps or other approved to BSEN 845-1 at 2m The existing roof condition must be checked and be free from centres. defects as required by the Building Control Officer any manufacturer's details.

Roof construction - 47 x 125mm Grade C24 rafters at max afters with plasterboard attached to 25mm deep counter battens to create air space.

Provide opening at eaves level at least equal to continuous Floor construction – min 20mm tongue and groove softwood strip 25mm wide and opening at ridge equal to continuous centres max span 4.83m. Joists to be supported off proprietary and 5mm skim coat of finishing plaster to the underside of all in accordance with the Lead Development Association THIS IS A GENERAL GUIDE BASED ON NORMAL LOADING CONDITIONS FOUND IN DOMESTIC CONSTRUCTION. IT IS

ASCERTAIN WHETHER ENGINEER'S DETAILS/CALCULATIONS

ARE REQUIRED. PLEASE REFER TO THE TRADA DOCUMENT

- 'SPAN TABLES FOR SOLID TIMBER MEMBERS IN FLOORS,

CEILINGS AND ROOFS FOR DWELLINGS' OR ASK YOUR

BUILDING CONTROL OFFICER FOR ADVICE.

UNVENTED PITCHED ROOF

Timber roof structures to be designed by an Engineer in accordance with NHBC Technical Requirement R5 Structural Design. Calculations to be based on BS EN 1995-1-1. Roofing tiles to match existing on 25 x 38mm tanalised sw treated battens on breathable sarking felt to relevant BBA Certificate. Supported on 47 x 195mm grade C24 rafters at max 400mm centres span to engineer's details. Rafters supported on 100 x 50mm treated sw wall plates. Allow min 20mm air space to

the existing walls provide a movement joint with vertical DPC. Celotex XR4000 fixed between rafters. Fix 12.5mm foil backed plasterboard (joints staggered) and 5mm skim coat of finishing plaster to the underside of all ceilings using galvanized plasterboard nails. (An additional 15mm pur insulation to be provided under rafters to prevent thermal bridging if required) Restraint strapping - Ceiling joists tied to rafters (if raised collar roof consult structural engineer), 100mm x 50mm wall plate Existing roof structure to be assessed by a structural engineer strapped down to walls. Ceiling joists and rafters to be strapped and any alterations to be carried out in strict accordance with to walls and gable walls, straps built into cavity, across at least

THIS IS A GENERAL GUIDE BASED ON NORMAL LOADING defective coverings or felt to be replaced in accordance with CONDITIONS FOUND IN DOMESTIC CONSTRUCTION. IT IS YOUR RESPONSIBILITY TO ASSESS YOUR DESIGN TO ASCERTAIN WHETHER ENGINEER'S DETAILS/CALCULATIONS 400mm centres max span 2.79m. Insulation to be 75mm foiled 🛮 ARE REQUIRED. PLEASE REFER TO THE TRADA DOCUMENT rigid insulation such as Kingspan or Celotex between rafters — 'SPAN TABLES FOR SOLID TIMBER MEMBERS IN FLOORS, and one layer Thinsulex (or similar approved multifoil) under CEILINGS AND ROOFS FOR DWELLINGS' OR ASK YOUR

Maintain a 50mm air gap above insulation to ventilate roof. LEAD WORK AND FLASHINGS

200/04: GROUND FLOOR

BUILDING CONTROL OFFICER FOR ADVICE.

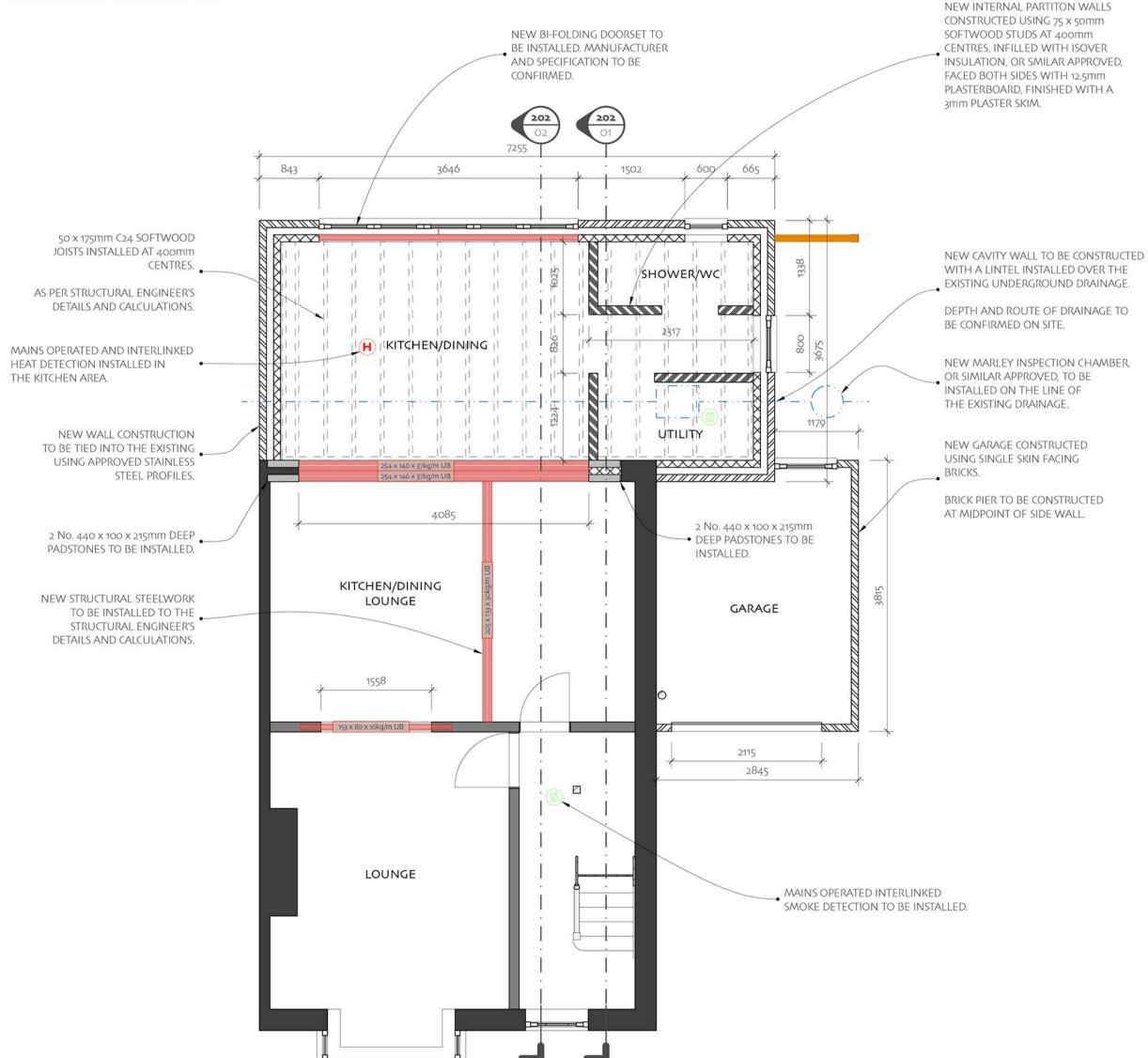
All lead flashings, any valleys or soakers to be Code 5 lead and laid according to Lead Development Association. Flashings to to BS EN 312 as required. Lay with staggered joints on 47mm x high and low level tile vents in accordance with manufactures welded upstands. Joints to be lapped min 150mm and lead to details. Fix 12.5mm foil backed plasterboard (joints staggered) be dressed 200mm under tiles, etc. All work to be undertaken

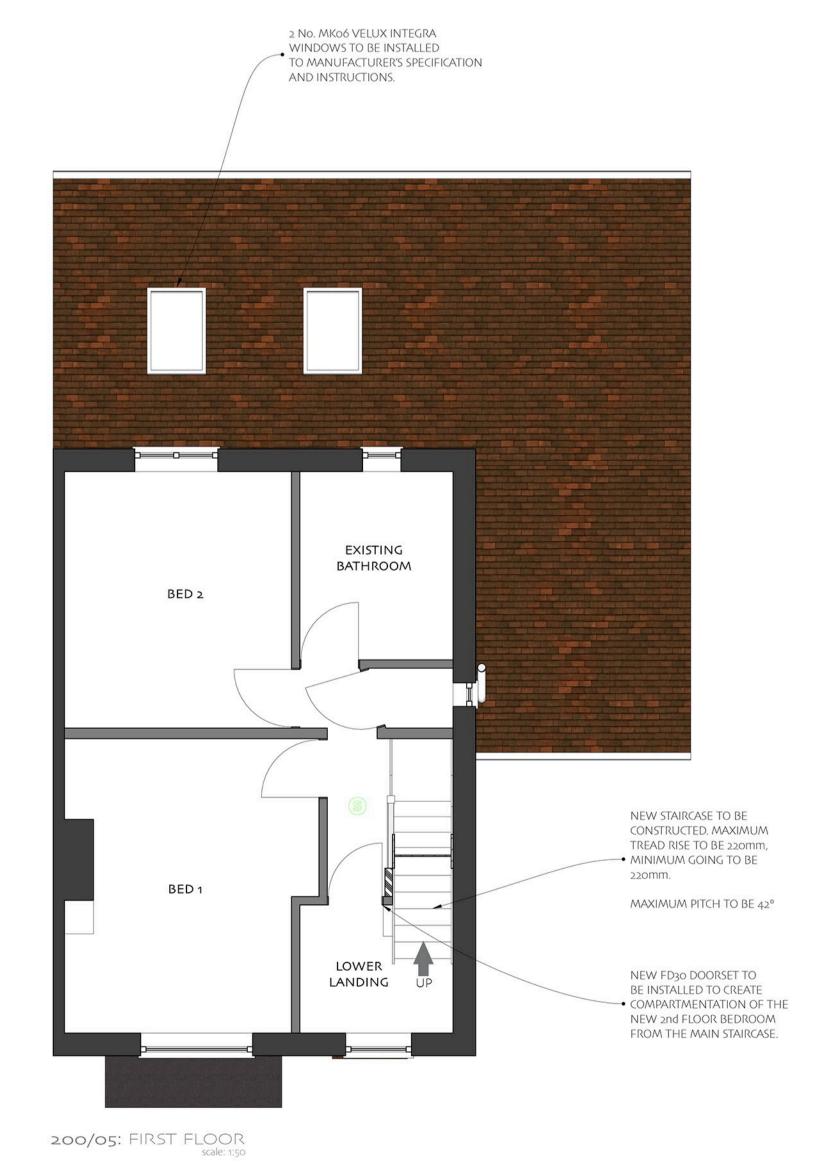






200/03: LEFT ELEVATION





CONSTRUCTION



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CLIENT: MR AND MRS WILSON

3 CARRVILLE ROAD WEST SHEFFIELD S6 1JJ PROJECT:

CARRVILLE ROAD WEST

DRAWING TITLE: BUILDING REGS: **ELEVATIONS AND LAYOUT**

DATE:	SCALE:
06/09/20	AS NOTED @ AI
DRG.No.	•
0620-05-2	200

REVISION:

All dimensions to be verified on site

DRAWN BY