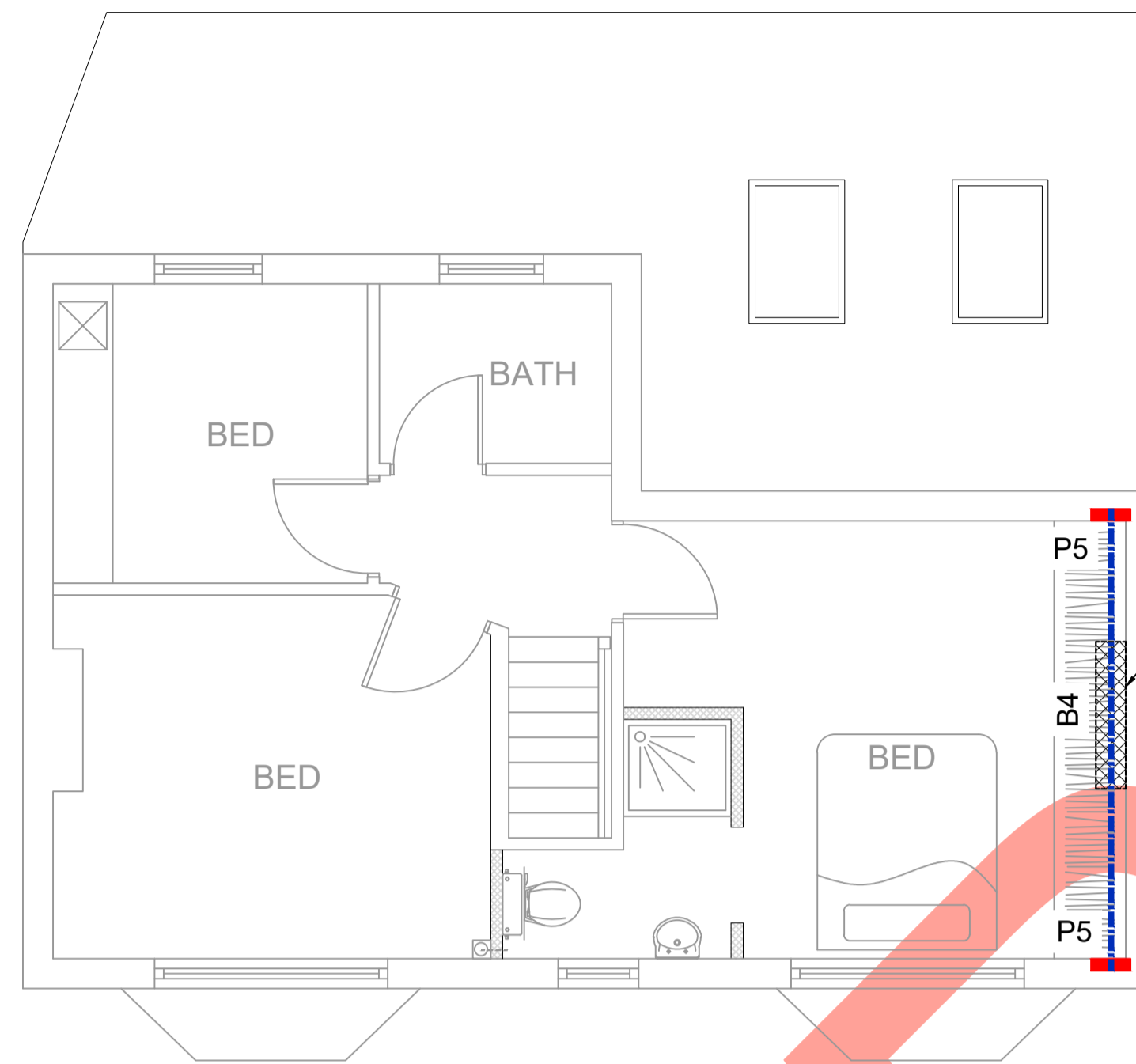


**PROPOSED GROUND FLOOR PLAN  
SHOWING FIRST FLOOR STRUCTURE OVER**  
Scale 1:50



**PROPOSED FIRST FLOOR PLAN SHOWING  
ROOF STRUCTURE OVER**  
Scale 1:50

**PRELIMINARY STEELWORK SIZES**

- B1 \*\*\*x\*\*\*x\*\*UC, S355
- B2 \*\*\*x\*\*\*x\*\*UC, S355
- B3 \*\*\*x\*\*\*x\*\*UB or 280x10mm thk bottom plate + 6mm fillet welds (100 hit / 200 miss) OR Catnic CX90/100 cavity wall lintel
- B4 \*\*\*x\*\*\*x\*\*UB + 10mm thk steel plate (sized to suit the chimney - see plan)
- B6 2No. \*\*\*x\*\*\*x\*\*UB bolted together with M12 Gr 8.8 bolts at 450mm centres

ALL STEELWORK TO BE GRADE S355JR

ALL DIMENSIONS TBC BY CLIENT / ON SITE

**TIMBER SIZES**

- RJ1 50x\*\*\* Grade C24 Timbers at 600mm max. centres (Roof Rafter)
- RJ2 50x\*\*\* Grade C24 Timbers at \*\*\*mm max. centres (Roof Rafter)
- T1 3No. 50x\*\*\* Grade C24 Timbers
- T2 2No. 50x\*\*\* Grade C24 Timbers

**KEY**

- P1 440(l)x100(w)x215(d) C36 concrete padstone
- P2 600(l)x100(w)x215(d) C36 concrete padstone
- P3 2No. 330(l)x100(w)x215(d) C36 concrete padstones
- P4 2No. 215(l)x100(w)x140(d) C36 concrete padstones
- P5 330(l)x100(w)x140(d) C36 concrete padstone
- Span of existing joists (assumed)
- L1 Catnic CH90/100 cavity wall lintel or similar
- Existing structure above

**NEW ROOF CONSTRUCTION TO BE IN ACCORDANCE WITH BUILDING REGULATIONS AND ARCHITECT DETAILS & RECOMMENDATION**

All steelwork to be grade S355JR  
New blockwork to be 7.3N/mm<sup>2</sup> min Compressive Strength  
New brickwork to be 20N/mm<sup>2</sup> min Compressive Strength  
Mortar to be Class 4 above DPC and Class 6 below DPC  
Provide proprietary tension strapping at max. 1.5m c/c and framing anchors at wall / roof junction in accordance with Part A of The Building Regulations

**GENERAL NOTES**

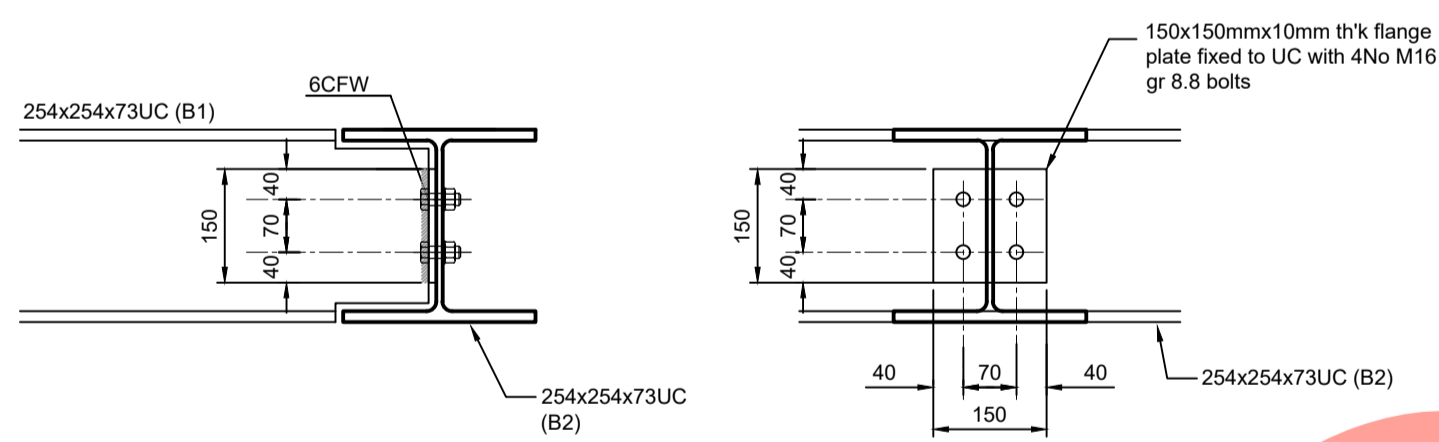
1. Any discrepancies between the drawings or documents shall be brought to the attention of the Engineer before placing orders or commencing construction.
2. The drawings shall not be scaled; use only figured dimensions.
3. Dimensions and conditions shall be verified on site. Variations between the drawings and site conditions shall be brought to the attention of the Engineer for resolution before placing orders or construction.
4. All work shall comply with the Building Regulations and the requirements of the Local Authority, current Codes of Practice and British Standards.
5. All workmanship shall be first class trade practice and to the recommendations given in BS8000: Basic Workmanship.
6. Do not use: high alumina cement; wood wool slabs; calcium chloride as an admixture; asbestos products; sea dredged aggregates; aggregates subject to alkali silica reaction or which do not comply to BS8110; materials containing fibres with a diameter of less than 3 microns and length less than 200 microns; any unsealed fibre materials; lead products in plumbing or drainage; urea formaldehyde; calcium silicate bricks and tiles; slip bricks; lead based paints; vermiculite plaster or any material considered to be deleterious or harmful to health.
7. Take all measures necessary to ensure the safety and security of operatives and the integrity of adjoining structures and roads or walkways.
8. This drawing is to be read in conjunction with all relevant drawings and specifications.
9. All dimensions are to be confirmed by the contractor on-site prior to construction onsite. The Contractor is to satisfy himself that dimensions, levels etc. are sufficiently accurate and complete for fabrication, within the specified tolerances of all prefabricated elements.
10. All works to be undertaken by an experienced and competent contractor in accordance with the current Building Regulations Part A, British Standards and good working practice.
11. All temporary works / Propping to the contractor's design and details.
12. The main contractor shall be entirely responsible for the stability of the structure whilst the works are in progress. Due regard shall be given to lateral stability of elements in the addition of support of vertical loads when construction has the need for temporary support works.
13. To minimise deflections of the existing structure, new beams must be pinned upright to existing construction with slate or dry-pack mortar, and all mortar allowed to cure prior to de-propping.
14. Due to significant structural works, minor post-construction deflection of brittle finishes may be expected in the existing building.

**Steelwork**

1. All connections to Fabricator's details. The main contractor and the steelwork sub-contractor will be responsible for agreeing all holes and fixings in the steelwork required by specialists and sub-contractors supplying secondary elements and incorporating these in their shop drawings.
2. Steelwork in cavity to receive 2No. coats of bitumastic paint.
3. Fabrication drawings to be submitted to supervising engineer for comment 10 days prior to fabrication of steelwork.
4. Erection shall be carried out so that the partially completed structure is stable and has an adequate factor of safety at all times. The contractor shall submit a method statement prior to commencing erection.
5. All steelwork to be minimum grade S355JR to BS EN 10025:1993 unless noted otherwise, execution class 2 & CE marked.
6. All steels that support timber work are to have the flanges pre-drilled @ 500mm centres to accept timber plates.
7. External steelwork to be galvanised.
8. All connections to have a minimum 2No M16 grade 8.8 bolts, 6mm full profile fillet welds & 10mm thick end plates unless noted otherwise.
9. All loose beams to have a minimum bearing length of 150mm to parallel walls and 100mm to perpendicular walls and 440x100x215mm deep concrete padstones unless noted otherwise. 2No. M10 Resin Anchor locating bolts or similar approved to connect beam to padstone.
10. All beam ends to be painted with 2No. coats bituminous paint where embedded.
11. Beams and lintels to have a minimum bearing length of 100mm when perpendicular to the wall, and 200mm when parallel to the wall unless noted otherwise.
12. Fire protection to be in accordance with relevant Building Regulations and Architect's details. New steel beams to be fire protected using British Gypsum Gyproc Fireline Pink plasterboard or 2 layers of plasterboard and skim to achieve minimum 30 minutes to 1-hour fire protection.

**Timber**

1. All proprietary lintels & joists to be installed to manufacturer's specification unless noted otherwise.
2. Roof rafters to be doubled up to trim around roof openings.
3. New structural timber to be a minimum grade C16 in accordance with the latest edition of BS5268 unless otherwise noted.
4. All bolting to be as noted in 2mm maximum clearance holes. Where are fitted with timber connectors, washers of the appropriate size and thickness must be used in accordance with BS 5268.
5. Multiple timber members to be bolted together using M12 grade 4.6 bolts with 50x50x3mm thick washers at 800mm maximum centres.
6. All screwing operations to be installed in predrilled holes.
7. Wall plates to be generally 100x50 unless noted otherwise fixed to walls using 30x2.5 galvanized mild steel vertical restraint straps 900mm long at maximum 1250mm centres with 6no screws in polyamide plugs equally spaced and to current Building Regulations.
8. All fixings in contact with timber (nails, screws, bolts, hangers etc.) are to be galvanised.
9. Joist hangers to cater for maximum load of 3.5kN, unless noted otherwise.



**CONNECTION DETAIL -  
2\*\*x2\*\*x\*\*UC (B1):2\*\*x2\*\*x\*\*UC (B2)**  
Scale 1:10

SAMPLE

Rev	By	Date	Details	Chkd
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Drawing Status: PRELIMINARY

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Client: Ms \*\*\*\*\*

Project: Proposed Structural Alterations at 2 Central Street, Nuneaton,

Title: Proposed Floor Layouts Showing Structure Over & Details

Scale (A1) 1:10, 1:50	Drawn by: CW	Dr. No.
Date: 12.10.22	Checked by: IKT1	IKT0004_001