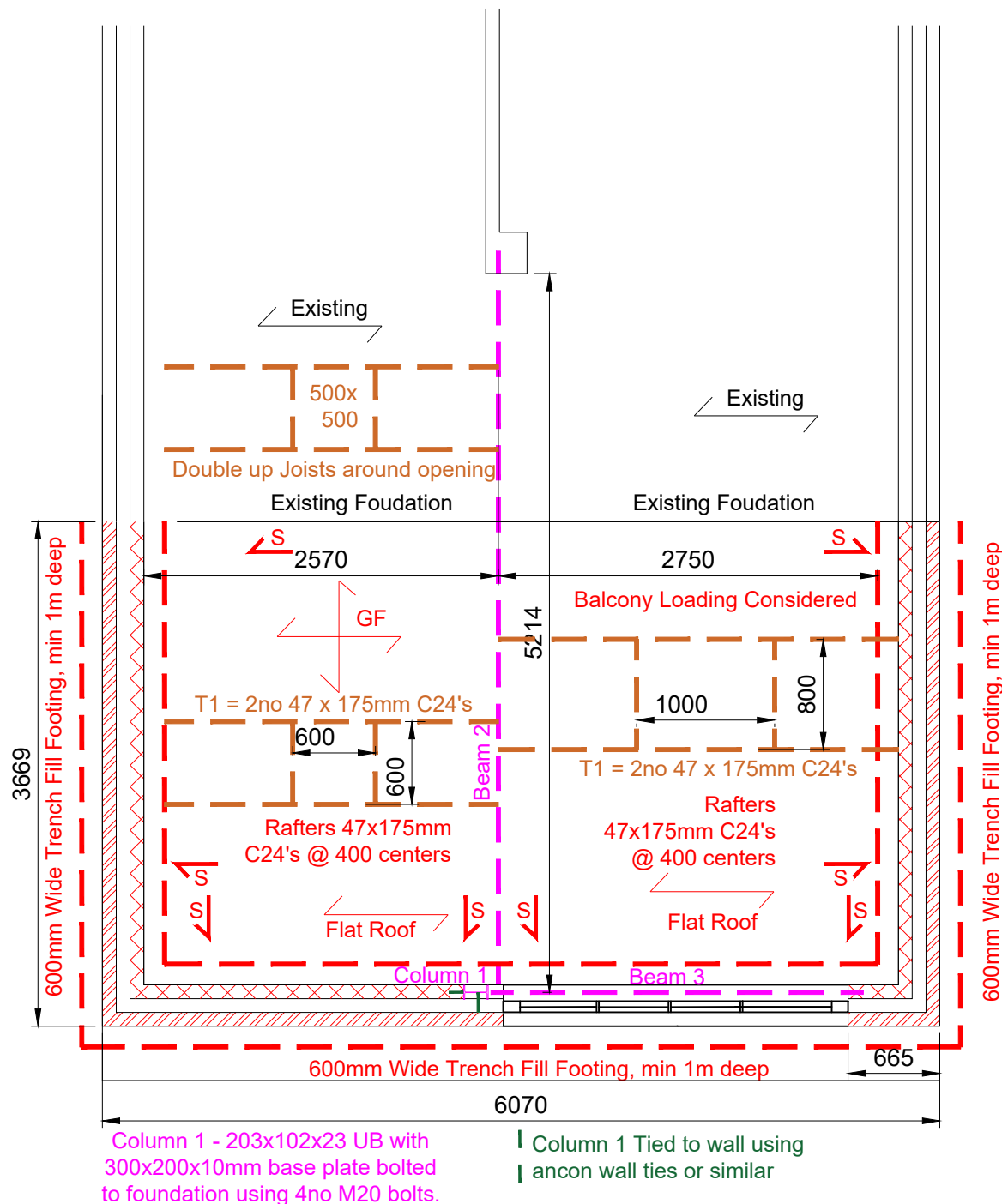




Ground Floor

150mm deep C35 reinforced concrete slab

Foundations

F1 - Trench fill footing, 600mm wide C25

Depth to be agreed with Building Control.

Masonry

Unless noted otherwise, provide 3.6 N/mm²
100mm wide blockwork above dpc, provide 7.3
N/mm² 100mm wide blockwork below dpc.

Movement joints

At max 6m centres to blockwork.

At max 12m centres to brickwork.

S - Provide roof strap fixed to wall and
rafter/joist to prevent spreading. 30x5x1000
galvanised metal straps to BS EN845-1 at
2000 approx centers.

Beam 2 - 203x133x30 UB onto
300x100x100 padstone on each
end

Beam 3 - 203x133x30 UB onto
300x100x100 padstone on each
end. UB to have 10mm plate
welded to underside also 6mm web
stiffeners at 500 centers

If any information about the existing structure, ie roof spans,
floor spans, wall make up etc. that is different to that indicated
on the drawing, then SE should be information as this may result
in a change of design.

AWAIT FULL APPROVAL ON DRAWINGS / CALCULATIONS
FROM BUILDING CONTROL BEFORE ORDERING
MATERIALS / COMMENCING WORKS
Drawings to be read in conjunction with architects drawings

NOTES

- 1) All calculations, details & proposals must be fully checked and approved (by the Building Control Engineer) prior to starting any work, such that any errors or discrepancies can be brought to the attention of USC so that adjustments can be made prior to construction.
- 2) Any work that starts before written approval has been given from the Local Authority Building Control Department is at the contractors own risk.
- 3) All new steelwork to be S355, unless noted otherwise in the calculations. Steelwork to be thoroughly wire brushed and painted with two coats of zinc phosphate primer. All damaged areas of painted are to be touched up after erection of the steelwork. All bolts are to be grade 8.8 unless noted otherwise, and all welds are to be 6mm continuous fillet type, unless noted otherwise.
- 4) Dimensions on this drawing must be checked on site. SE have no ownership over the overall dimensions on the plan as they have been taken from architectural plans and may not be correct. If the dimensions on the plan are different to that on site this must be report to SE so they may amend the design
- 5) Movement joints are to be provided in accordance with masonry manufacturers recommendations (approximately 6m centres in blockwork and 12m centres in brickwork.
- 6) Concrete grades are to be noted within the calculations and placed, compacted and protected in accordance with BS8110. As a guide reinforced concrete to be C35 grade; non-reinforced concrete to be C25 grade.
- 7) All lengths and spans used in these calculations should be verified on site prior to commencement of any construction works. Contractor and/or steel fabricator to take their dimensions on site. Builder/contractor is to check that the structural engineers proposal (i.e. location of steel beams/trimmers etc) is feasible and necessary before ordering materials. Open up top of walls etc to determine existing spans & necessity of steels/beams. No opening works were undertaken and therefore any defects hidden or inaccessible could not be reported upon and thus not the engineers responsibility.

A	Issue A	05.02.25
Issue	Amendments	Date

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USC Ultimate Structural Calculations
0759889578 - structuralcalcs.co.uk

Client
Lukas

Project
325 Leicester Rd, Markfield, LE67 9RH

Title
Ground Floor Plan

Issue Date
05.02.25

Drawn By	Checked	Scale	
BG	BG	1:50	
Job Number	Drawing Number	Issue	Original Size
2935	001	A	A3