

| BEAM DIMENSIONS | | | | |
|-----------------|---------------|-----------|----------------|-------|
| BEAM | SIZE | SPAN (mm) | REACTIONS (KN) | |
| | | | LEFT | RIGHT |
| AB | 152x89 UB 16 | 2800 | 2 | 2 |
| BC | 152x89 UB 16 | 800 | - | 3 |
| CD | 152x89 UB 16 | 2400 | 3 | 7 |
| EF | 152x89 UB 16 | 3700 | 7 | 9 |
| GH | 150x90 PFC 24 | 2800 | 4 | 4 |
| HJ | 150x90 PFC 24 | 900 | 2 | 2 |
| KL | 152x152 UC 23 | 4000 | 9 | 8 |

BEAM TABLE NOTES

- Beam Spans are Approximate for Pricing Purposes (contractor to confirm spans on site)
- Reactions are Unfactored & Rounded up to Whole KN
- Left Reaction is Beams First Letter. Right Reaction is Beams Second Letter.
- Beams marked with * are supporting Wide Elements & Require 10mm Steel Plate (width to match wall) to be Welded to Top Flange (4mm Fillet Weld).

NOTES

1. All dimensions to be verified on site.
2. Read in conjunction with architect's drawings.
3. All steelwork designed to EN3 fabricated to EN3 and EN1090.
4. All steel members to be grade S275JR steel unless otherwise noted.

5. Apply 2 coats of red oxide primer/2 coats zinc rich primer to all steel prior to erection.
6. All fire protection to architect's specification, provide min. ½ hour fire resistance capability to all steel (e.g. 12.5 mm plasterboard and 7mm skim).
7. All welding to be 4mm fillet welds carried out in workshop.
8. All black bolts to be grade 8.8.
9. All timberwork designed to BS 5268 OR ENS.
10. Double and triple joists to be bolted together with M12 bolts + 63mm dia. TP connectors and washer plate @ 450 c/c unless otherwise noted.

11. Connections:

TIMBER/BRICK: BAT SPH hanger when there is a minimum of 675mm of brickwork above, if not use MAXI SPEEDY hangers or equivalent.
TIMBER/TIMBER: BAT JIFFY or MAXI SPEEDY hanger or framing anchor.
RAFTER/TIMBER PLATE: use BAT framing anchors or angle brackets as appropriate. Do not skew nail any connection.
ALLOW FOR BAT M305 STRAPS @ 1200 c/c for restraint of joists and all wall plates.

12. Concrete padstones to be grade C25 (1:2:4).
13. All temporary propping by the contractor.
14. New brickwork to be 35N/mm² new blockwork to be 3.5n/mm² set in 1:1:6 mortar, unless noted otherwise
15. All works to be approved by the building control officer.
16. No work to commence on site prior to building control approval of structural details.
17. Any beams, joists hangers, or other structural works attached to party wall may be subject to party wall agreement.
18. Floor joists strapped to main brick walls in accordance with A3 disproportionate collapse guidelines.
19. If contractor has preferred alternative method of construction please call us.

Title: **Mezzanine Level Structural Floor Plan**

Preliminary

| Rev | Date | Description | Appr |
|-----|------|-------------|------|
| | | | |

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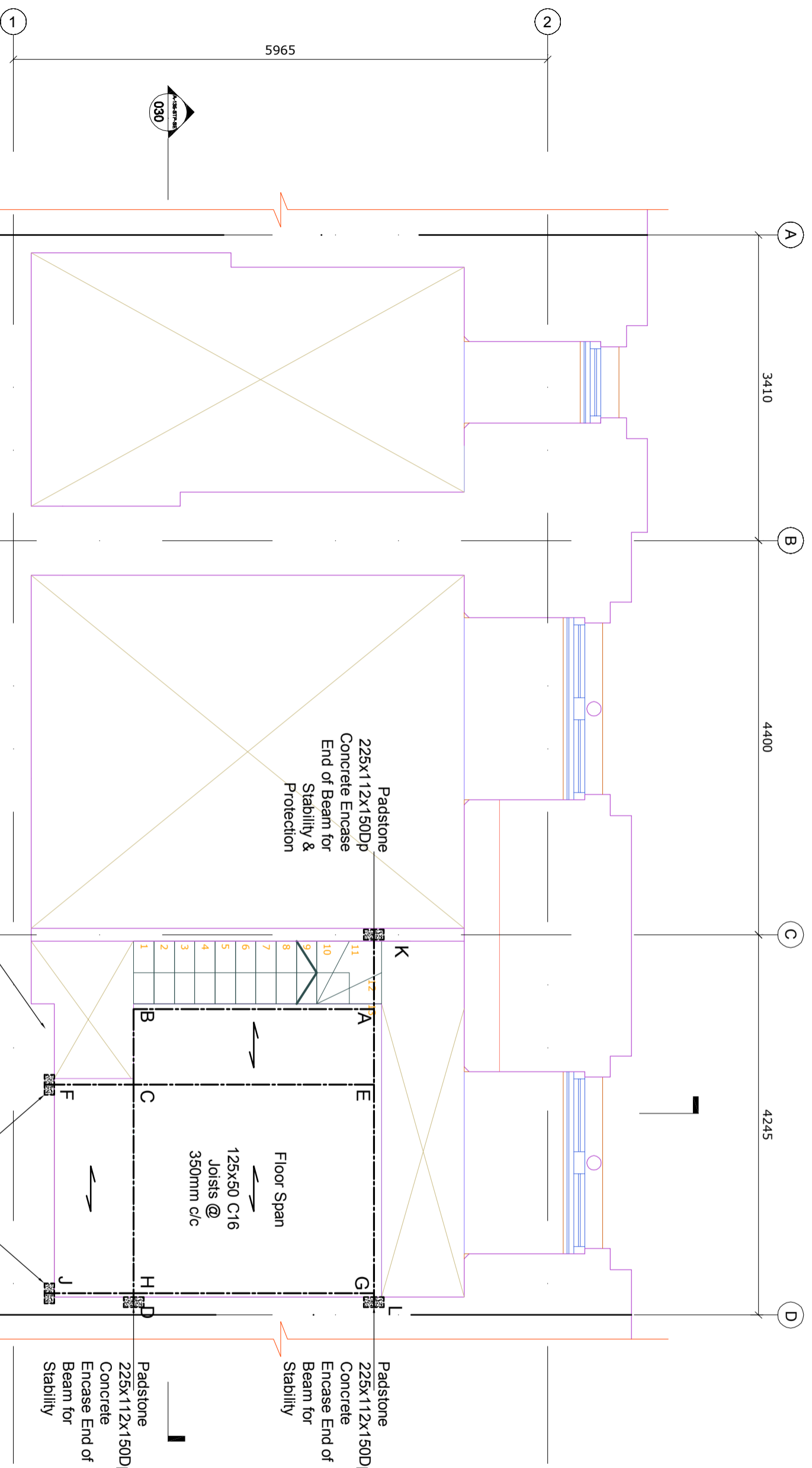
Date: 24/02/17 Sheet No. Rev

Eng: PS Scale: 1:50@A3

Job No: 16-364

Project: Flat-3, 16 St Pancras Chambers

1:50



5965

3410

4400

4245

030

Wall Construction in this Area to be Confirmed on Site. Padstones to Bear on Solid Masonry Wall Only. Contractor to Confirm Bearing Position Prior to Ordering any Steelwork

Padstone 225x112x150DP Concrete Encase End of Beam for Stability

Padstone 225x112x150DP Concrete Encase End of Beam for Stability

Padstone 225x112x150DP Concrete Encase End of Beam for Stability & Protection

Floor Span 125x50 C16 Joists @ 350mm c/c