

A / GENERAL

- Abbreviations: SE = Structural Engineer, MC = Main Contractor, TBC/V = To be confirmed/verified on site by MC.
- Drawing to be read in conjunction with all Architects & Engineers project drawings & specifications.
- Dimensions: All dimensions TBV by MC's and any discrepancies to be reported to SE & Arch't. General building setting-out and steelwork fabrication to accord to Architect's drawings & MC's site-build measurements.
- Site work to be carried out in accordance with the current Building Regulations and amendments thereto, and relevant Codes of Practice.
- Specified project information is based upon information available at time of survey without any structure exposed. Report any discrepancies to Architect & SE before commencing.
- Specialized and proprietary items such as joist hangers, lintels, restraint straps, mechanical fixings, angle brackets, etc., require installation in accordance with manufacturer's instructions.
- Subcontractors: The Principal Contractor shall be responsible for coordinating and checking all work by any appointed subcontractors.
- Existing Structure including foundations, beams, walls, lintels carrying new or altered loads are to be exposed and checked for defects & adequacy prior to commencement and as required by Building Control Officer and Structural Engineer.

B / DRAINAGE

- Drainage design is by others and not part of structural input.
- MC to verify location and depth of drains affecting work upon commencement.

Confirm any discrepancies to SE/Arch't. to allow adjustments to construction drawings.

- Substructure details here & accompanying drawings are to be coordinated with new and existing drainage.

C / NEW FOUNDATIONS

- Sub-Soils & Existing Foundation Details:** Refer to SE's report for summary of ground investigation & full report by Albury SI ref. 12463 dated Sept 2022.
- New Foundations:** Concrete back-filled trench excavations.
- Reuse of Existing Foundations:** Raising new walls or structure off existing footings is subject to approval from Building Control & SE.
- Concrete Mixes:**
 - For new trench fill foundations to be GEN3 Ready Mixed Conc.
 - For encasement of steel ground beams use RC35 Ready Mixed Concrete with option to adopt 10mm maximum aggregate size to aid compaction.
 - For any over-site ground bearing slabs - RG90 Ready Mixed Conc.

D / NEW MASONRY BELOW DPC (Mortar mix 1:1:4)

External quality frost resistant 103 wide bricks or min. 3.5N/mm² concrete blocks to specified dims on foundation plan.

E / EXTERNAL CAVITY WALL SPECIFICATION ABOVE DPC (Mortar 1:1:6)

External Finish - None.
Outer leaf - 103 Wide brick.
Cavity Width - 100 mm.
Cavity Insulation - To Arch'ts spec.
Inner leaf - 100 Thermalite Turbo blocks by Hanson or equivalent approved by SE.

Inner Finish - To Arch'ts spec.

CAVITY WALL TIES - 225mm long stainless steel Staifix RT2 General Purpose Wall Ties by Ancon spaced 450 vertically / 750 horizontally. Ties at reveals to be 225 vertical ctrs & within 225 horizontal distance. A minimum of 50mm embedment of wall ties required in each leaf.
Cavity walls to be tied with proprietary wall starter strips at abutments with existing walls.

F / GROUND FLOOR CONSTRUCTION

MC to adopt 150 deep Beam & Block floor accommodating SE specified loads. Floor system to be 'ReadyFloor' designed, drafted & supplied by www.cemex.co.uk/suspended-floor-systems. Order to be placed by MC. Floor construction drawings prepared by Cemex to be issued to SE for comment before manufacture. Infill blocks placed between beam units to be min. 7.0 N/mm² block strength - size 440x215x100 blocks and supplied by MC. Max. 1900 Kg/m² density. MC to inform floor supplier if lighter density is to be adopted and provide new density.

BEAM & BLOCK GROUND FLOOR

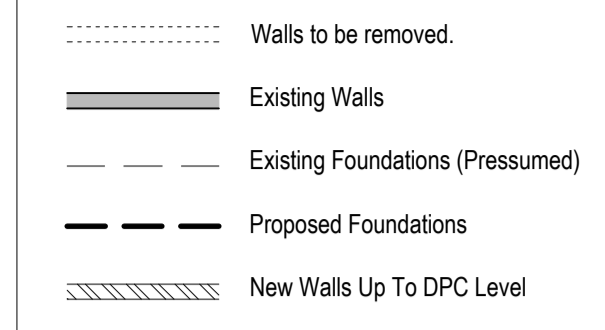
DESIGN LOADS TO BE SUPPORTED -
A - General Imposed Occupancy Load = 1.5 Kn/m²
- Infill blocks - Between 1350 - 1900 Kg/m² density.
- 75 concrete screed = 0.75 Kn/m²
- Finishes = 0.25 Kn/m²
- Floor to meet beam and block suppliers design requirements and installed in strict accordance with manufacturers recommendations.

B - Internal Partition Loads

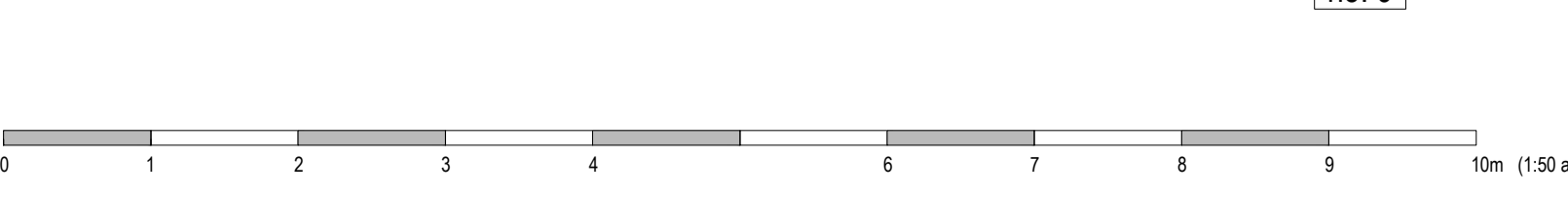
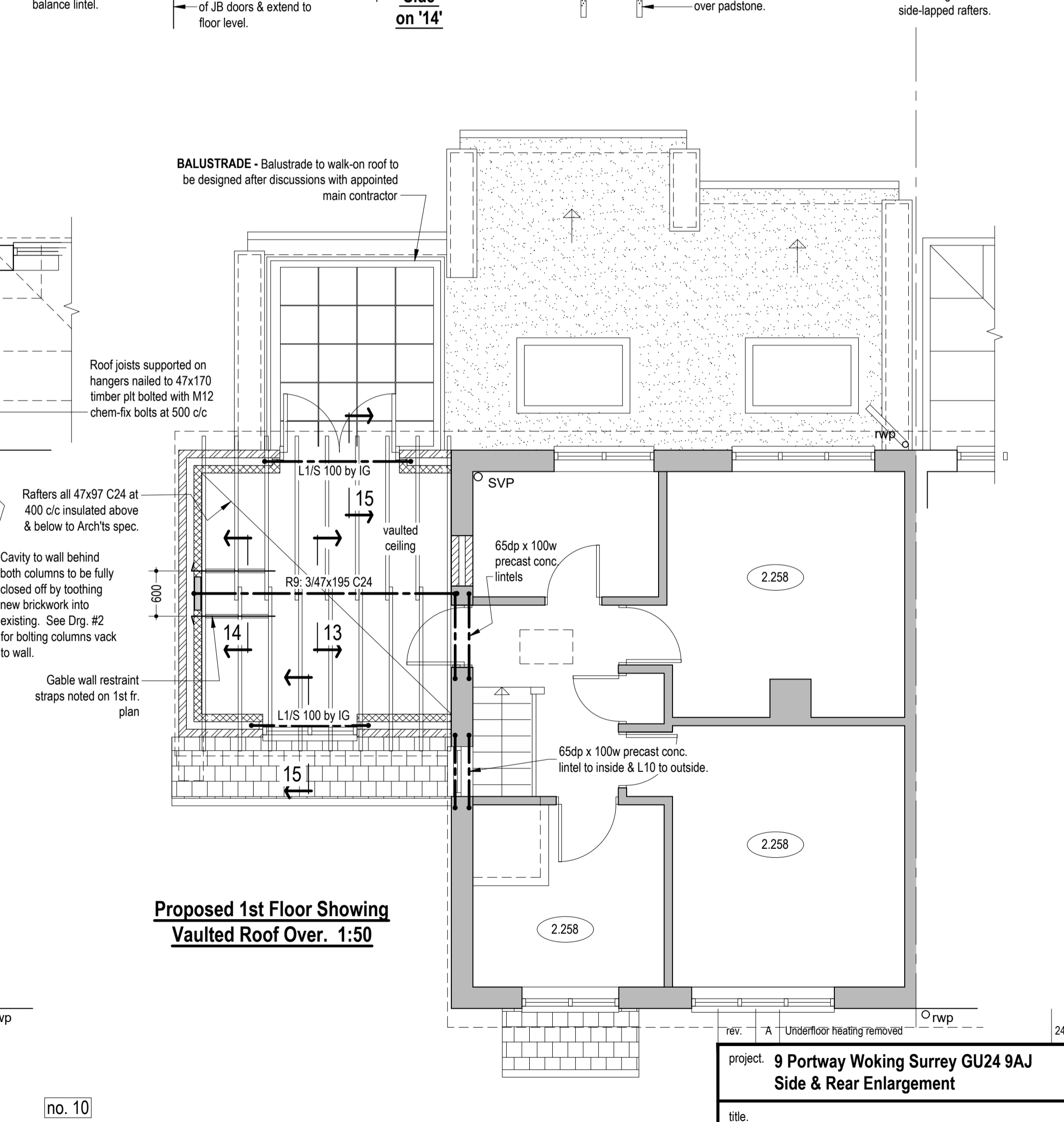
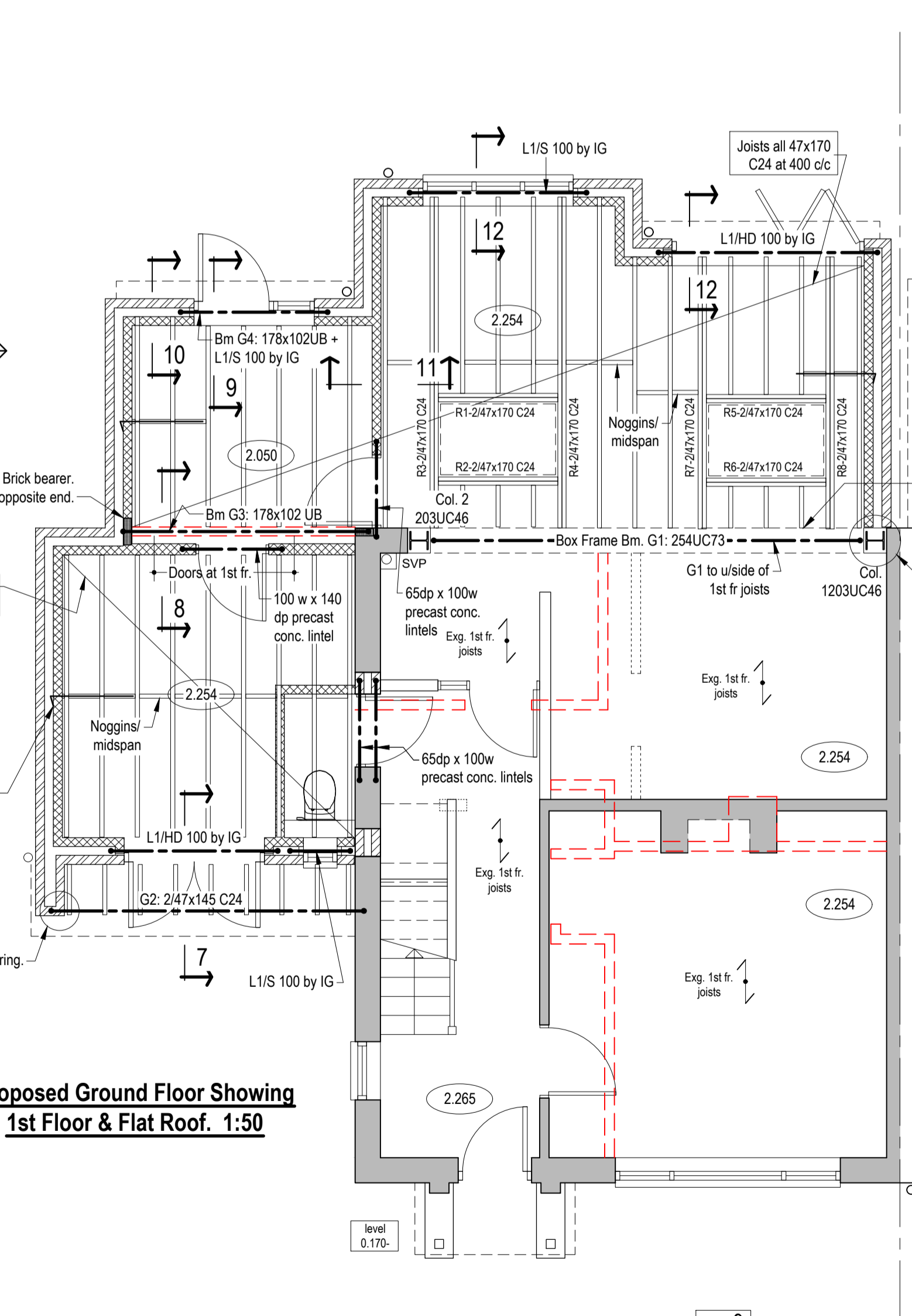
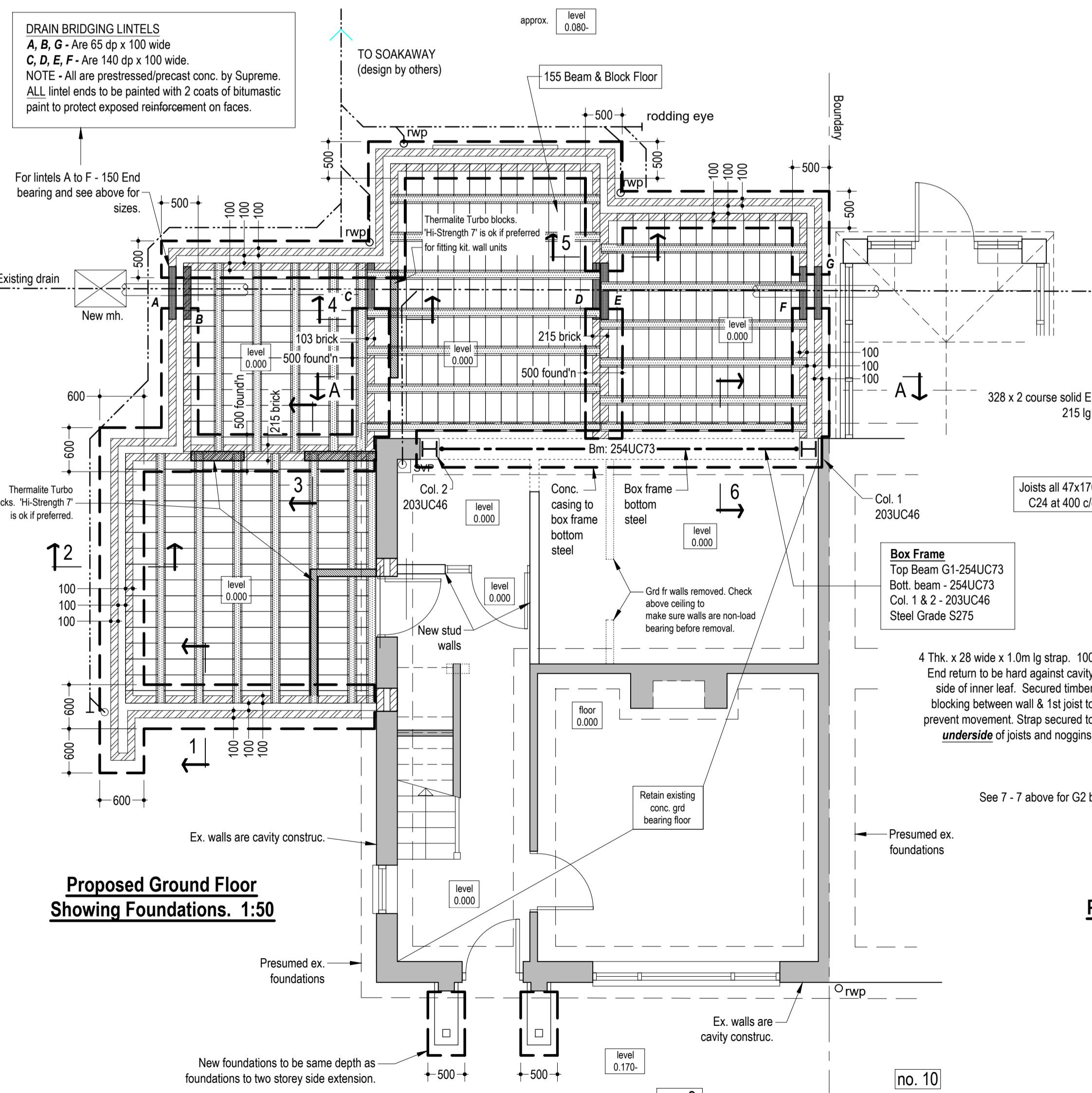
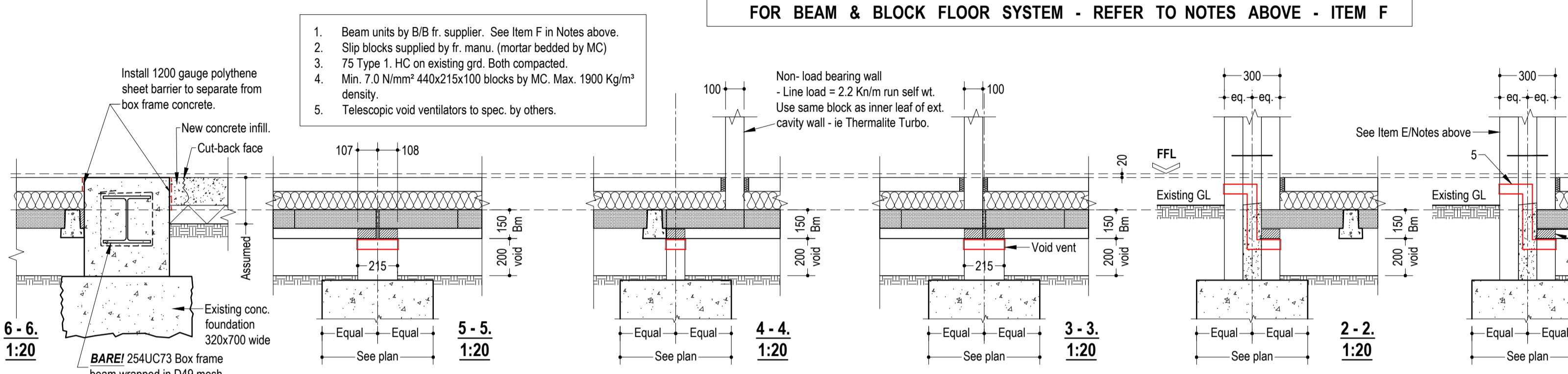
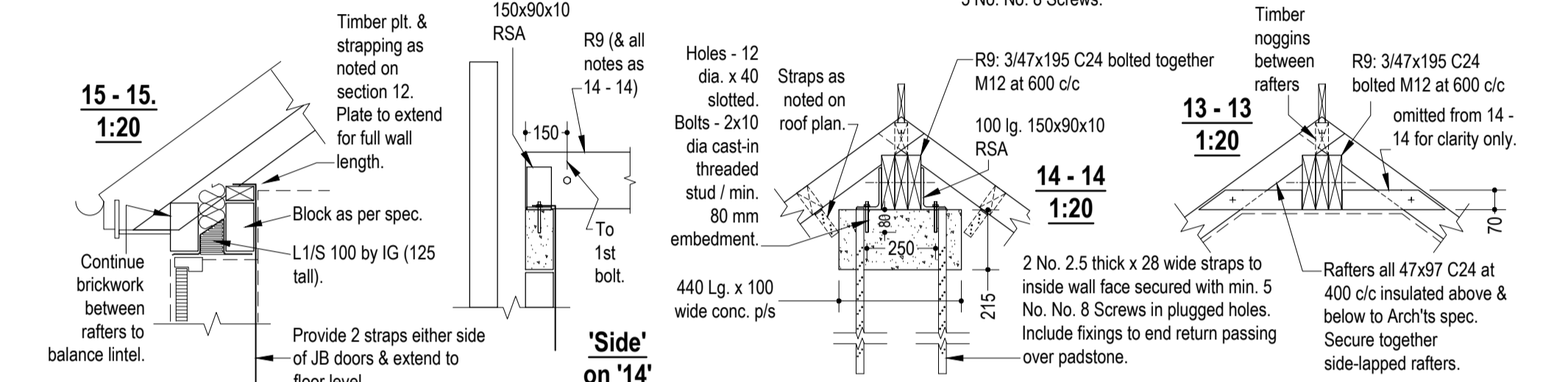
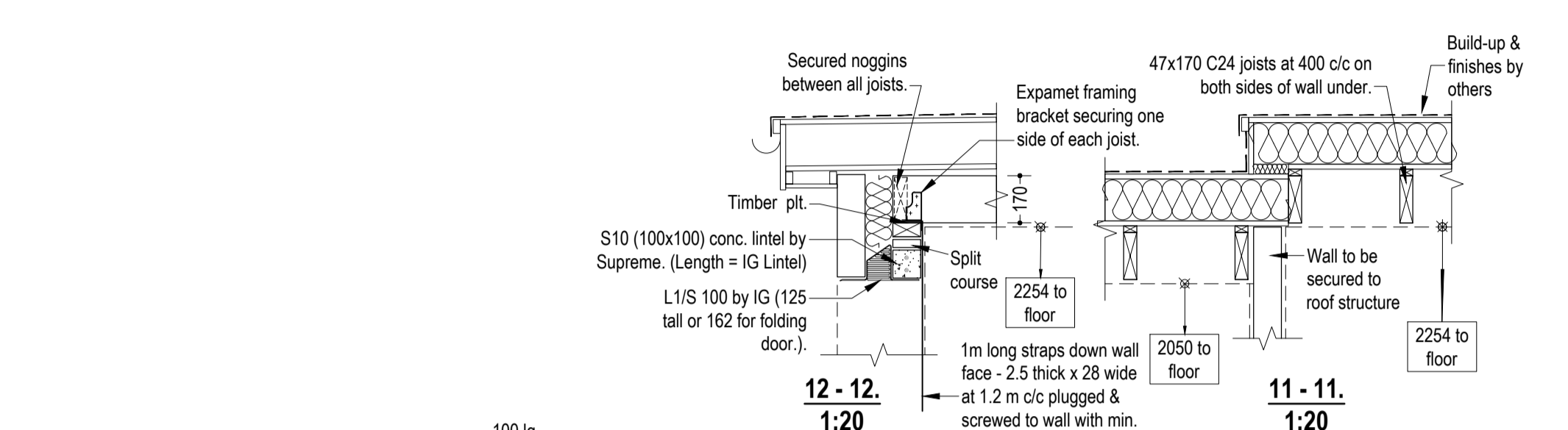
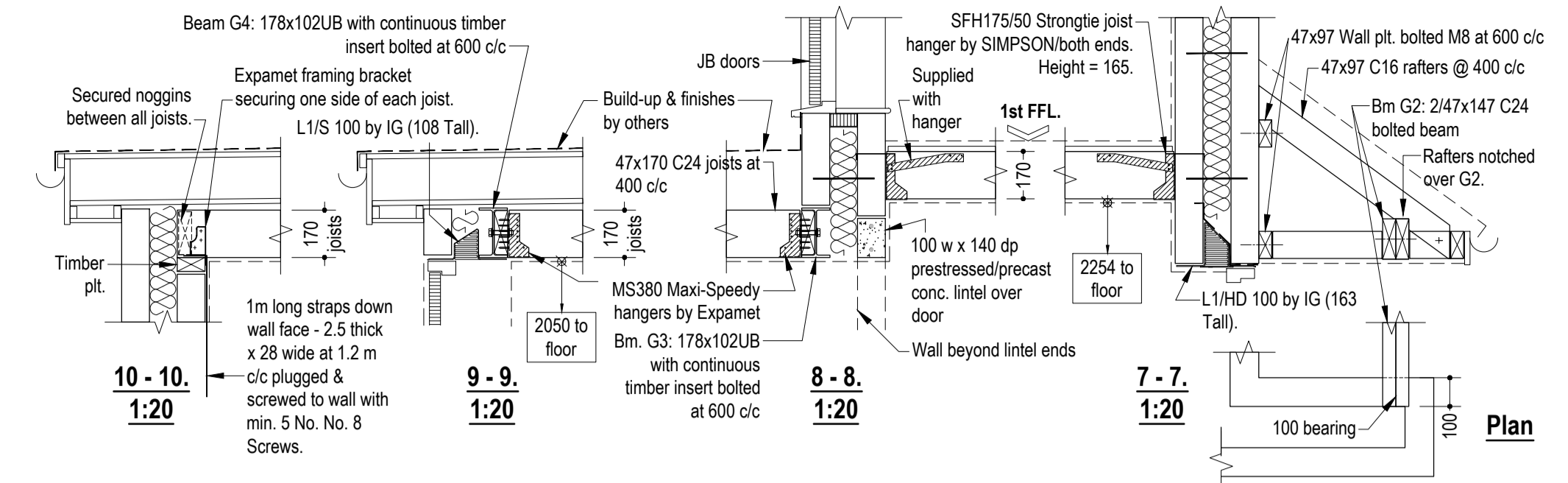
- Line load = 2.2 Kn/m run. (see section 4-4 for further info.)

FLOOR CONSTRUCTION

Architect's specified finishes no greater than 0.25 Kn/m² unless agreed with SE, on 75 conc. screed reinforced with fibre reinforcement on polythene separating layer (Architect's spec.) on Celotex insulation (Architect's spec) laid on 150 deep prepared beam & block floor.



TEMPORARY WORKS: Main Contractor is to allow for design of temporary works and take all necessary precautions to maintain stability of the existing structure(s). Ensure any temporary propping is taken down on to solid firm ground. Do not prop of the top surface of any internal floor construction unless it can support the applied loads. Periodically check the tightness of any adjustable props in accordance with manufacturers instructions.
NOTE: All box frame connection bolts must be fully tightened before releasing loads supported by temporary propping.



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| Project: 9 Portway Woking Surrey GU24 9AJ | | | |
| Side & Rear Enlargement | | | |
| Title: Proposed Structural Details 1 of 2 | | | |
| Date: 28-11-2022 | Drawing No: 22-973/1 | Rev: A | |
| Scale: As noted at A1 | Issue: Preliminary | | |
| By: Jatinder Tamrar. m: 07810 370470. email: jatinder.t@outlook.com | | | |