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71 Acton Gate, Wrexham

Internal Alterations

STRUCTURAL SKETCHES

January 2024

SCHEME

PAGE No.

361

Initials Date

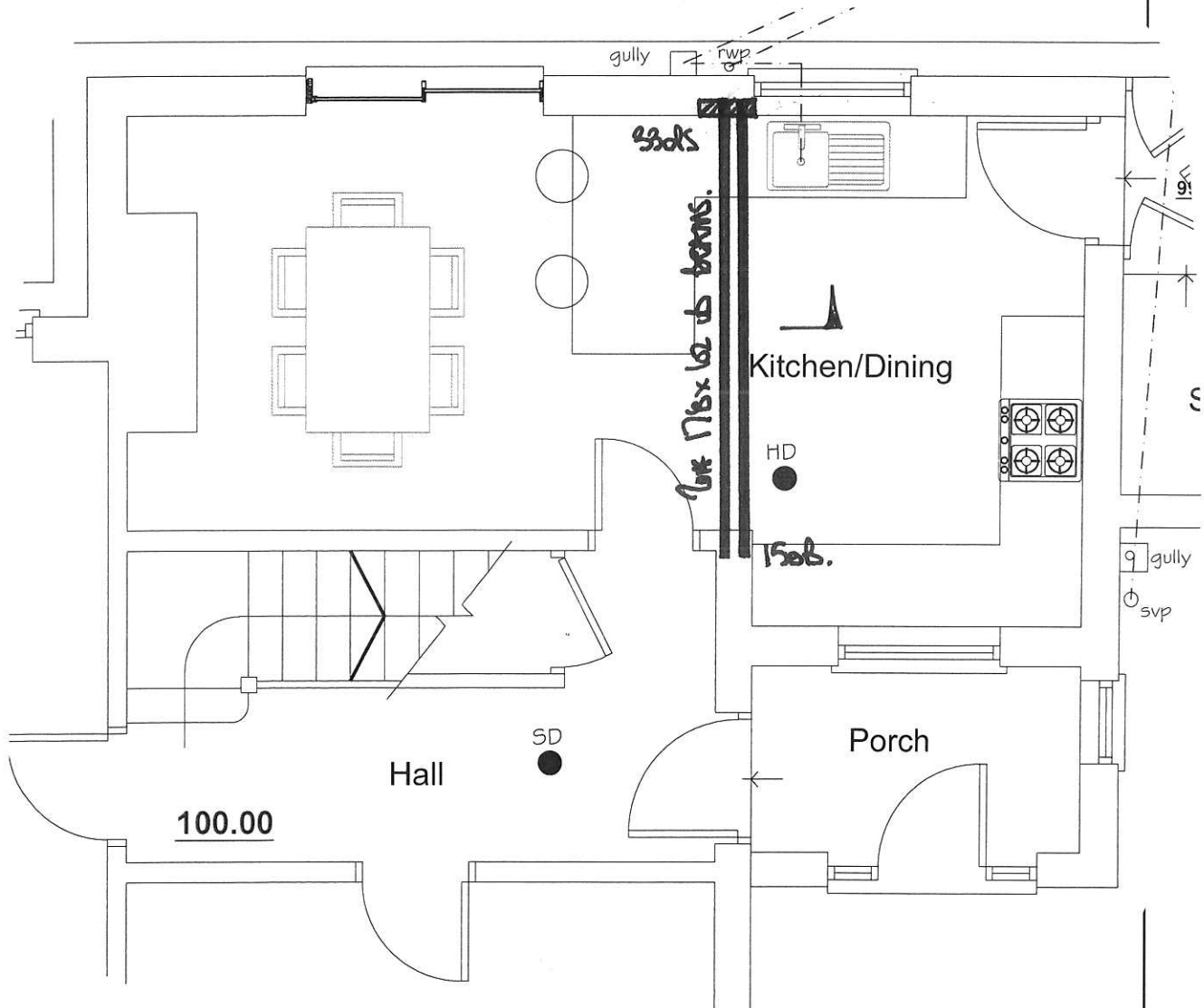
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Internal Alterations

Prepared by

AT 01/24

Checked by



Key:

150b - 150mm LAG BRICKS.

330s - 330mm LAG FLOORING.

Plan

SCHEME

PAGE No.

S202

Initials Date

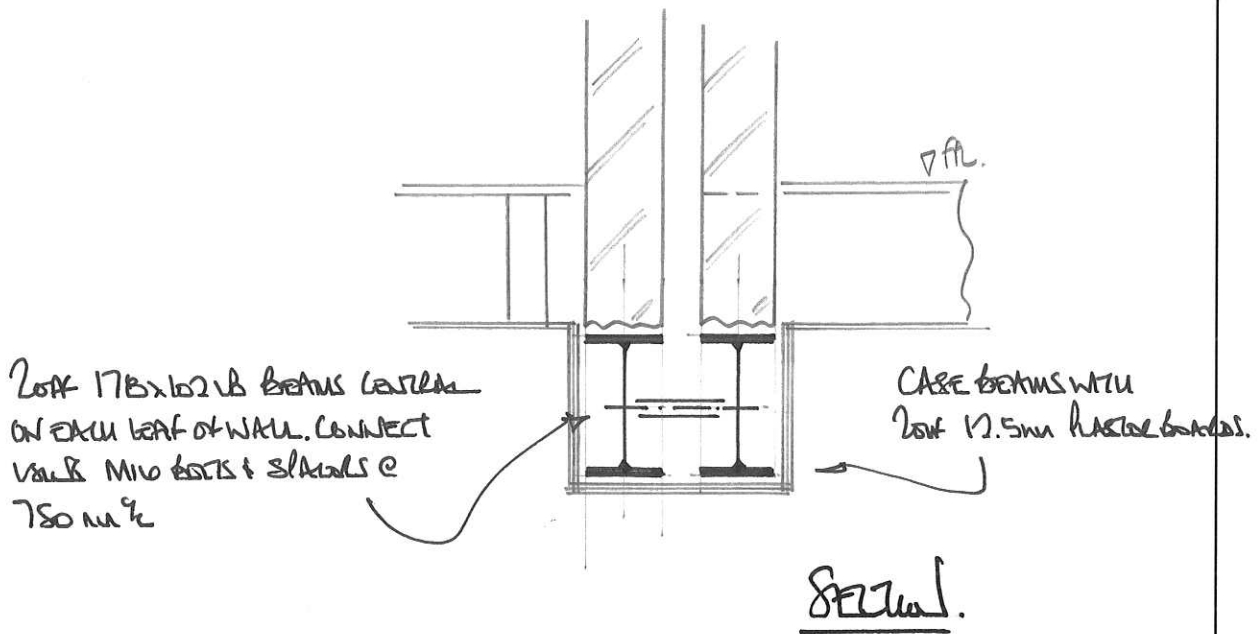
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Page No.		SK03
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NOTES/SPECIFICATION

General

- 1. The Structural Design Report is based on information provided by the Architect or on the assumptions as set out within. Should any variation between the information provided or assumed conditions be identified, they should be brought to the attention of the Project Architect or Structural Engineer as soon as possible.
- 2. All dimensions in millimetres unless noted otherwise. All dimensions shall be checked by the Contractor prior to commencement and any discrepancies brought to the attention of the Project Architect or Structural Engineer as soon as possible.
- 3. The Contractor shall be responsible for the provision of adequate propping to the existing walls and floors. All propping shall be tight and locked off prior to removal of existing supports, walls or floor construction.

Steelwork

- 4. The Execution Class for the project is EXC2 to BSEN1090-1.
- 5. All steelwork shall be Grade S355JR to BSEN10025. Hollow section steelwork shall be Grade S355JR to BSEN10210 (HF) or BSEN10219 (CF). All steelwork shall be thoroughly cleaned and painted with a zinc phosphate primer. Damage incurred during installation shall be repaired by over coating. Steelwork below ground or within cavities shall be additionally protected with two coats of bituminous paint.
- 6. Exposed steelwork requiring fire protection shall be protected by fire resistant boarding with a minimum fire rating of 1hr as installed.
- 7. Multiple steel sections shall be placed centrally under each leaf or skin of wall to be supported. Sections shall be connected together using M16 bolts with spacer tubes at maximum 750mm centres to ensure correct spacing of beams.
- 8. Minimum bearing to be 100mm onto adjacent masonry unless noted otherwise. Bearings onto padstones to be 100mm minimum. Padstones shall be cast using GEN3 concrete to sizes specified.
- 9. Beams under existing load bearing walls shall be placed centrally under leaf and packed tight to the underside of the wall using semi-dry mortar and slate packs unless noted otherwise.
- 10. Steel connections shall be made using bolts and welds as indicated on the sketches. All bolts shall be Grade 8.8 with a BZP or galvanised finish. CSK denotes countersunk head to exposed face of steelwork. Welds shall comprise 6mm FW unless noted otherwise and shall be formed using electrodes suitable for the grade of steelwork.