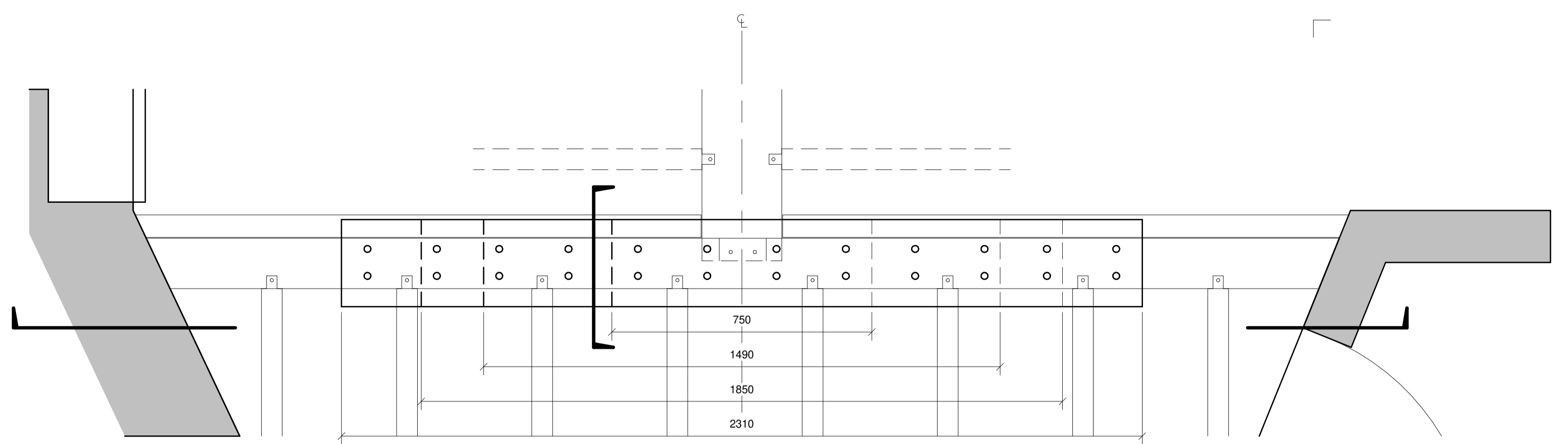
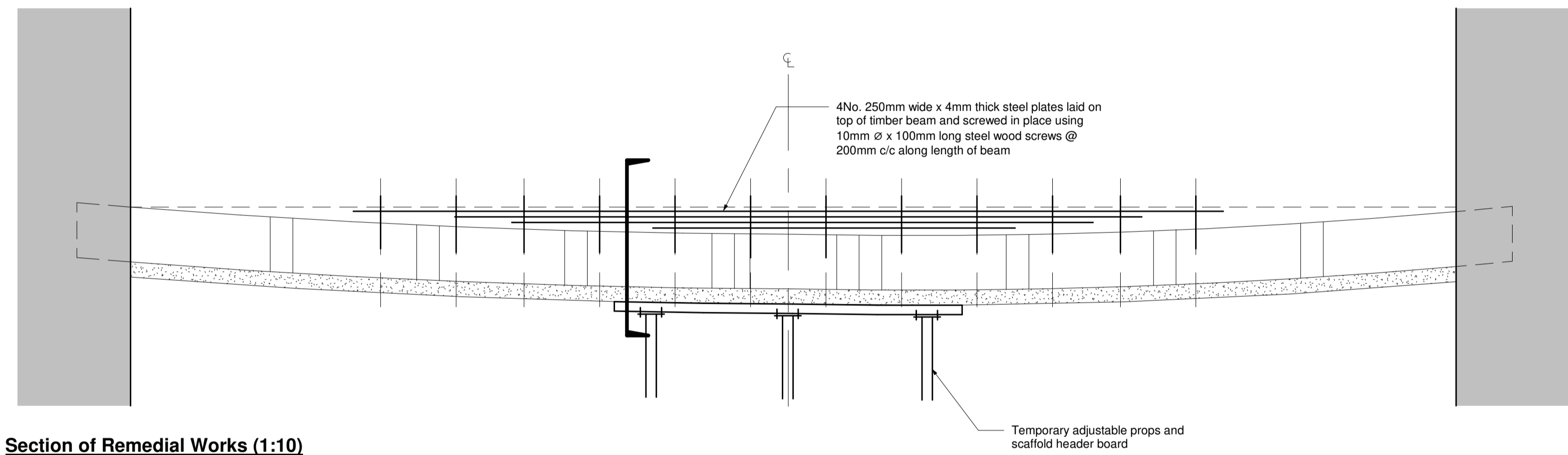


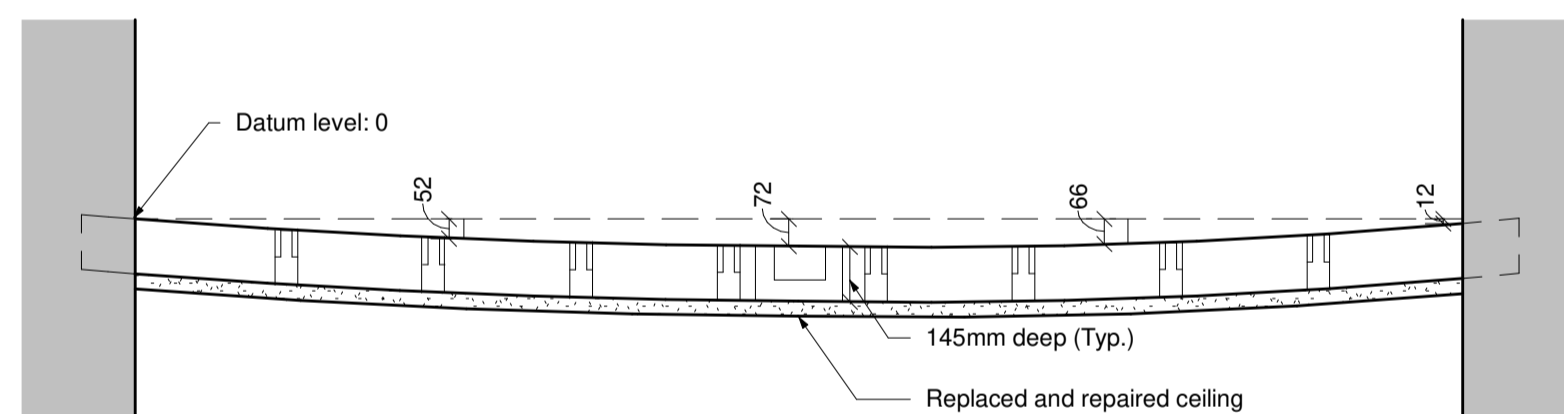
First Floor Plan (1:20)



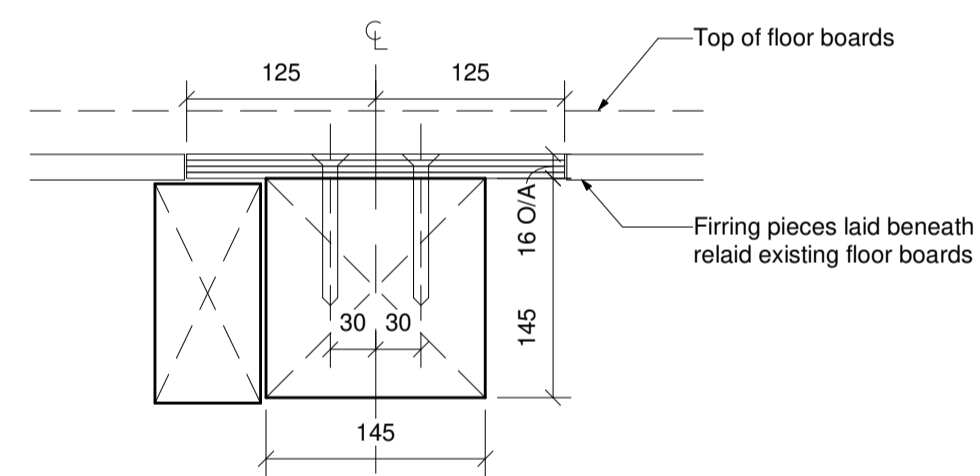
Plan of Remedial Works (1:10)



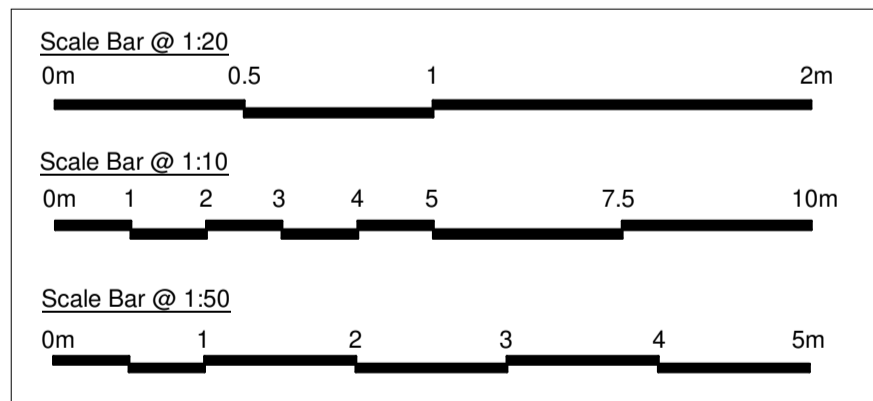
Section of Remedial Works (1:10)



Section Along Length of Timber Beam Showing Levels as Surveyed Nov 2021 (1:20)



Cross-section (1:5)



- General Notes:**
- This drawing is to be read in conjunction with all relevant drawings and specifications, and all other contract documents.
 - Do not scale from a paper or digital version of this drawing. Use written or stated dimensions only.
 - Structural elements of the building have been designed to support the following imposed loads, in addition to environmental loads in accordance with BS EN 1991:
Uniformly distributed loads (kN/m²) = 1.5, Point loading (kN) = 2.0
- Steelwork Notes:**
- All steelwork is to be Grade S275 unless noted otherwise.
 - All steelwork is to be painted off site as follows:
 - Blast clean to Sa 2 1/2
 - Paint with 75 µm dry film two pack epoxy zinc phosphate primer (Sherwin Williams Epigrip L653)
 - Notching or cutting holes, other than those shown on Engineers' drawings, through steelwork elements is not permitted. Should any such modifications be required, Barton Engineers are to be notified and a solution agreed before any works take place.
- Timber Notes:**
- All new timber is to be Grade C24 to BS EN 338 unless otherwise noted on the Engineer's drawings, and is to have a maximum moisture content of 13% at the time of erection.
 - No penetrations, notches or holes for services are allowed in the timber joists or wall studs, unless agreed with Barton Engineers prior to any cutting taking place.
 - All timber connectors (fixings to steel plates) are to be fixed to timber using sheradised countersunk wood screws through all available holes in steel plates, unless noted otherwise. All screws are to conform to BS 1202.
 - Holes in steel plates should be no more than 2 mm larger diameter than the screws. Small diameter pilot holes to be drilled in timber beam prior to fixing screws to prevent timber splitting.
- Suggested Outline Sequence of Works:**
- Clear first floor room of furniture and floor coverings, and lift floor boards.
 - Install temporary props to ceiling below directly under line of existing beam to be repaired.
 - Adjust props to ensure that weight of ceiling and floor structure above is supported on props; use folding wedges that work loose to ensure that ceiling just lifts onto props.
 - Install steel plates and fix down the existing floor beam as shown on drawing.
 - Carefully remove temporary props.
 - Install furring pieces on top of floor joists to allow floor boarding to pass over steel plates.
 - Replay floor boarding and make good with new softwood boarding as required.

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Preliminary
Not for Construction or Tending
Issues / Revisions
P1 Issued for Information 151221 LB

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Project
Providence Corner, Well Road

Title
Repairs to Existing First Floor Beam

Scales
1:5/1:10/1:20@A1

Designed by
Bob Barton
Drawn by
Lewis Barton
Drawing number
21/053/1.1

Checked by
Bob Barton
Rev.
P1