

1. This drawing is to be read in conjunction with all relevant Architects and specialist drawings.
2. All dimensions are to be checked on site and not scale from these or any other Ward Cole Ltd drawing.
3. All concrete to reinforced elements to be C32/40 to BS8500.
All binding concrete to be Gen 2 to BS8500.
All foundations and buried concrete to contain cement in accordance with the requirements of BRE Special Digest 1 (2005) for Design Sulphate Class D51 and ACEC class for the site AC-I in accordance with the findings of the Site Investigation Report.
4. All concrete to be placed and compacted in accordance with BS8110:199.
5. Nominal cover includes permitted deviation of 10mm U.N.O. in accordance with BS8500.
6. All mesh reinforcement to be in accordance with BS4483:1999, with minimum lap lengths of 450mm. All bar reinforcement to be in accordance with BS4448:1997. Minimum cover to all buried concrete to be 35mm.
7. All reinforcement to be adequately restrained, positioned and supported on suitable chairs and spacers to achieve the required to achieve the required cover in accordance with BS7973.
8. All steelwork to be grade S355, shotblasted to SA 2.5 and given 1 coat of Zinc Phosphate Modified Alkyd High Build Primer to a DFT of 75 microns, to be touched up on site where necessary after erection. All such steelwork built into external cavity walls are to receive 2No. coats of site applied bituminous paint, minimum DFT of 100 microns, after erection.
9. All steelwork to be fabricated and erected in accordance with BS5950. Fire protection to all steelwork to be to Architects specification and details.
10. All exposed steelwork to be shotblasted to SA 2.5, then hot dip galvanised to BS7293, minimum DFT 140 microns.
11. Finishes to Architects specification and details.
12. It is the sole responsibility of the Contractor to ensure the stability and safety of the new and existing structures as the works proceed.
13. All structural connections where not detailed on drawings, to be designed by Contractor. Calculations to be submitted to Ward + Cole for approval.
14. All bolts to be grade 8.8 U.N.O. min. 2No. bolts/connection.
15. The Contractor is solely responsible for all the temporary works, including their design. A specialist contractor is to be appointed to design and install all temporary works to support all applied dead and live load, and transfer those to the ground. Full details are to be submitted to Ward + Cole for consideration prior to works commencing.
16. All damp, water and weathproofing details to be specified by the Architect.

WARD ■ COLE
consulting engineers

client:
Victoria Cooper

drawing title:
Proposed Second Floor
Structural Works

job number: 24-1166	drawing number: 100	revision: -
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Scale 1:50

Note:
The Contractor is responsible for all temporary works associated with the proposed works and is to submit full method statement, sequencing, drawings and calculations to Ward Cole for review prior to the commencement of the works. The Contractor is responsible for the Design of all steelwork connections and and is to submit full details and calculations to Ward Cole for review prior to procurement.

Do not scale from this drawing
Only use figured dimensions

For General Notes Refer To Ward Cole
Drawing Number 24-1166-100

Replacement of existing
deteriorated wallplates
to architect's details

Remedial works to structural
members within valley to be
confirmed following opening up
works on site to enable inspection.

Corner masonry
parapet to be rebuilt

Existing bottom chord of timber
truss to be replaced with new
bottom chord. Size and timber
grade to match existing.

1 No. Naylor R12 Lintel by
Capstone Structural Engineers.

2 No. New 178x102x19 UB's (ULS End reaction = 25kN)
UB's to have 10mm Thk. top plate to enable construction
of brickwork. Top plate tek screw to UB's at 200mm centers.
Beams to bear onto 1 No. Naylor R6 Lintel, 100mm Wide x
140mm deep x 300mm long cut lintel padstone.
Deteriorated brickwork to be removed and reconstructed.

Steel beam to be installed in accordance with
Capstone Engineers drawings and details.

2 No. New 178x102x19 UB's (ULS End reaction = 25kN)
Beams to bear onto 1 No. Naylor R6 Lintel, 100mm Wide x
140mm deep x 300mm long cut lintel padstone.

Steel beam to be installed in accordance with
Capstone Engineers drawings and details.

2 No. Naylor R9 Lintels by
Capstone Structural Engineers.

2 No. Naylor R9 Lintels by
Capstone Structural Engineers.

1 No. Naylor R8 Lintel by
Capstone Structural Engineers.

2 No. Naylor R9 Lintels by
Capstone Structural Engineers.

Proposed Attic Floor Plan

Scale 1:50

Note:
All dimensions, concrete, steelwork setting
out and levels to be obtained/checked
against Architects drawings and by site
measurement prior to commencement of
work or ordering of materials.

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The Contractor is responsible for all temporary works
associated with the proposed works and is to submit full
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works. The Contractor is responsible for the Design of all
steelwork connections and and is to submit full details and
calculations to Ward Cole for review prior to procurement.

Line shown thus indicates proposed attic
floor steelwork designed and detailed by
Capstone Consulting Engineers.

Note:
For Details A to D Refer
to Ward Cole Drawing
No. 24-1166-201

Note:
For Detail E and F Refer
to Ward Cole Drawing
No. 24-1166-202

rev.	date	First Issue	Description	SS	DN
-	28.06.19	First Issue			

WARD COLE

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client:

Victoria Cooper

project:

Weston Hall
Weston on Trent

drawing title:

Proposed Attic Floor
Strengthening Details
Sheet 1

scale:

status:

As Shown on A1 Construction

job number:

24-1166

drawing number:

200

revision:

-

Do not scale from this drawing
Only use figured dimensions

For General Notes Refer To Ward Cole
Drawing Number 24-1166-100

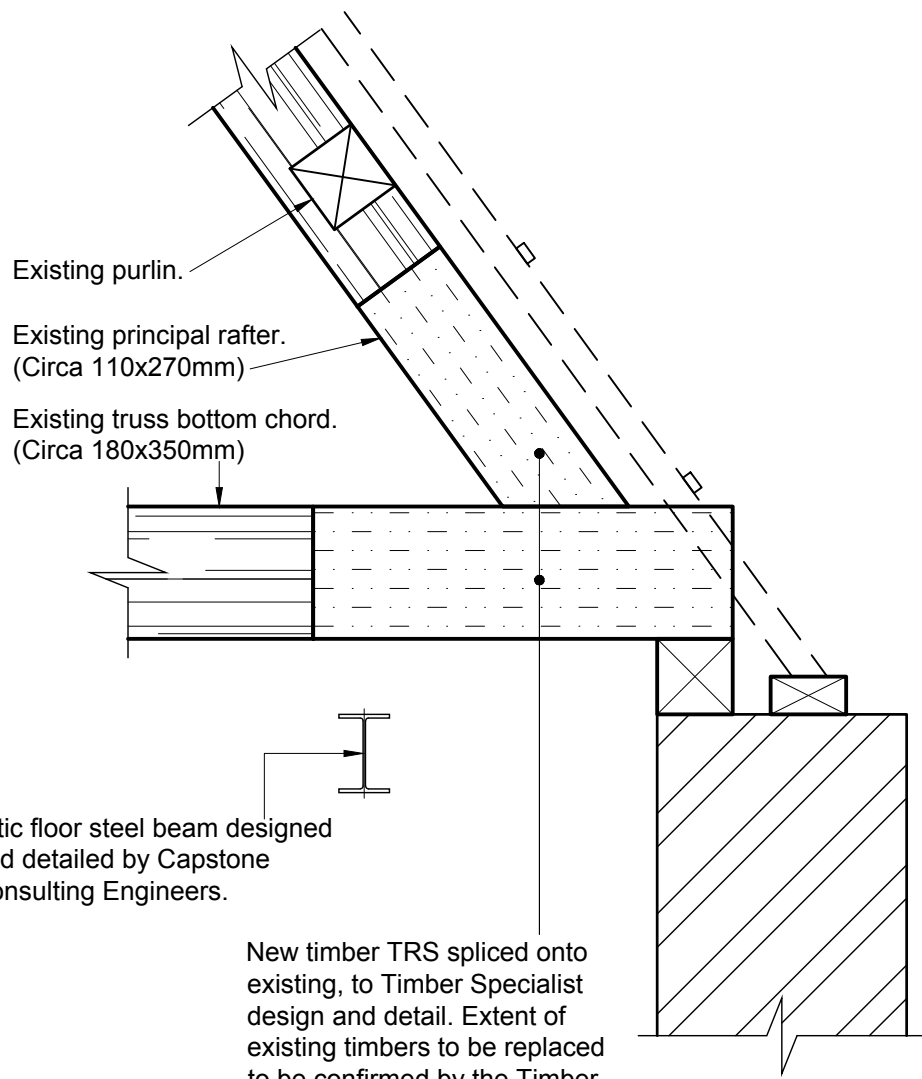
Note:
All dimensions, concrete, steelwork setting out and levels to be obtained/checked against Architects drawings and by site measurement prior to commencement of work or ordering of materials.

Note:
The Contractor is responsible for all temporary works associated with the proposed works and is to submit full method statement, sequencing, drawings and calculations to Ward Cole for review prior to the commencement of the works. The Contractor is responsible for the Design of all steelwork connections and is to submit full details and calculations to Ward Cole for review prior to procurement.

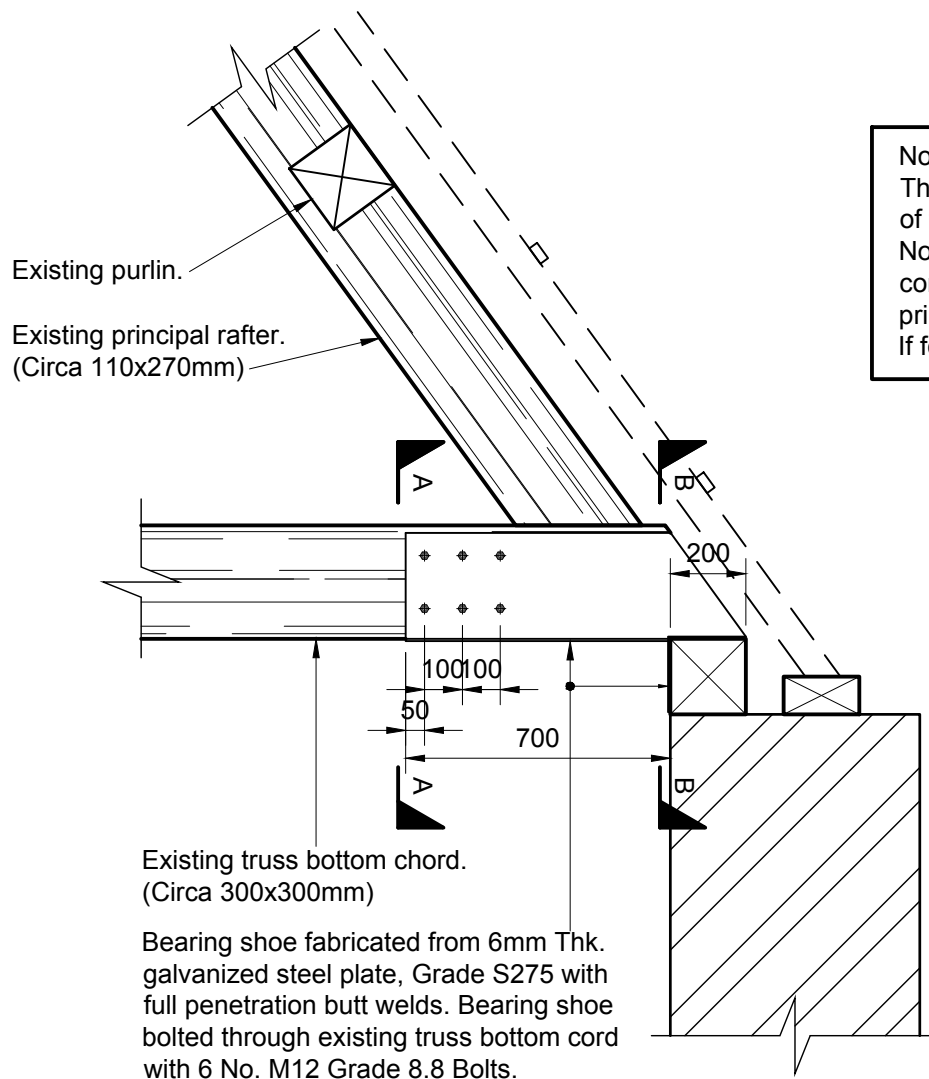
Note:
The Timber Specialist is to confirm the extent of the timber deterioration prior to fabrication. No deterioration has been allowed for that compromises the connection between the principal rafter and the bottom cord member. If found otherwise Ward Cole are to be notified.

Note:
The Timber Specialist is to confirm the extent of the timber deterioration prior to fabrication. If extent greater than assumed, Ward Cole are to be notified and detail will need to be amended accordingly.

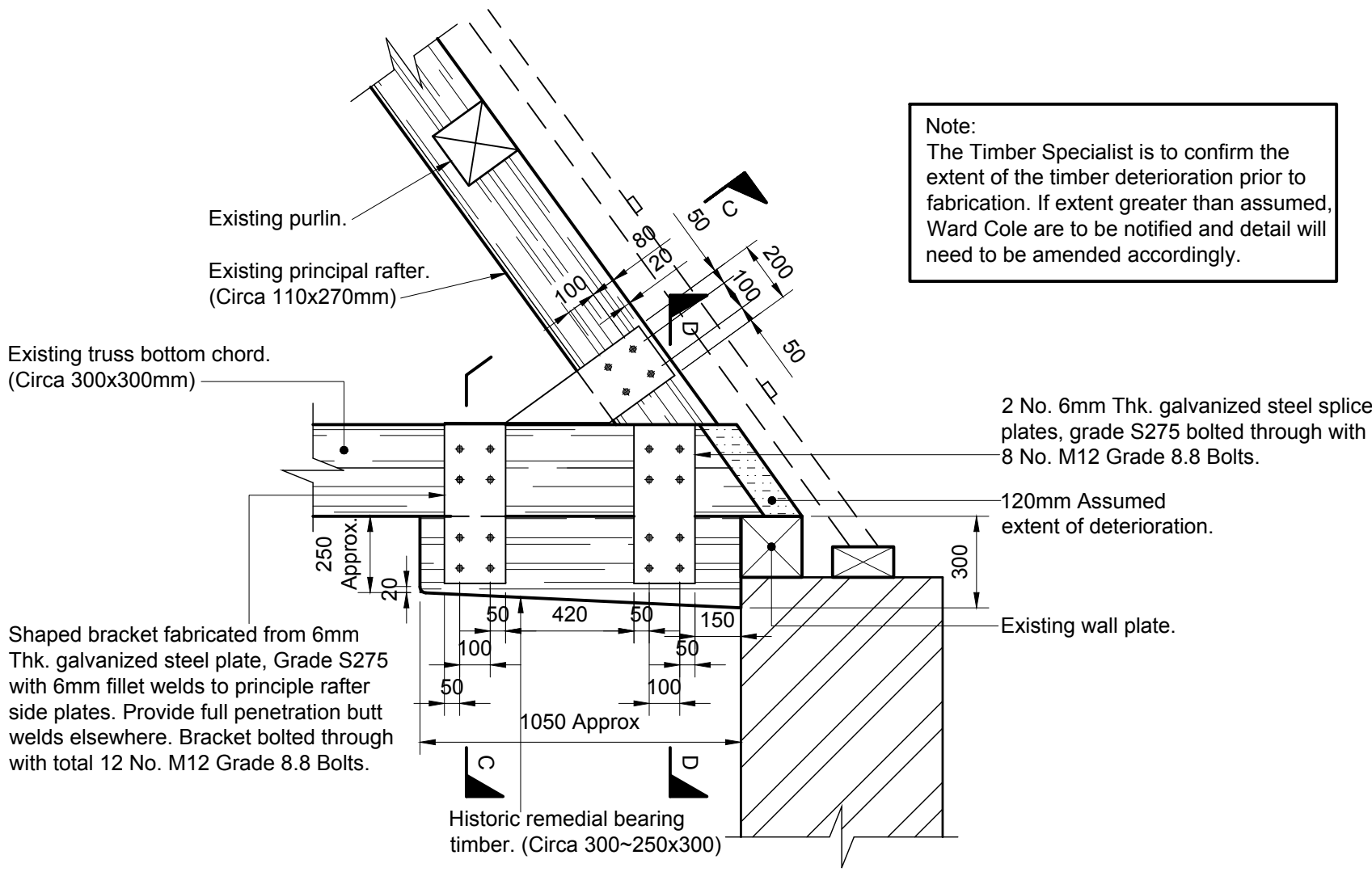
Note:
All setting out is indicative only. Precise setting out is to be agreed with the Architect / Contractor subject to site measurement and existing details.



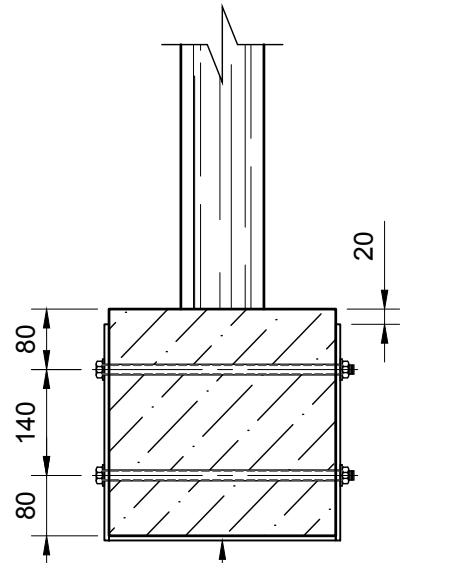
Detail A
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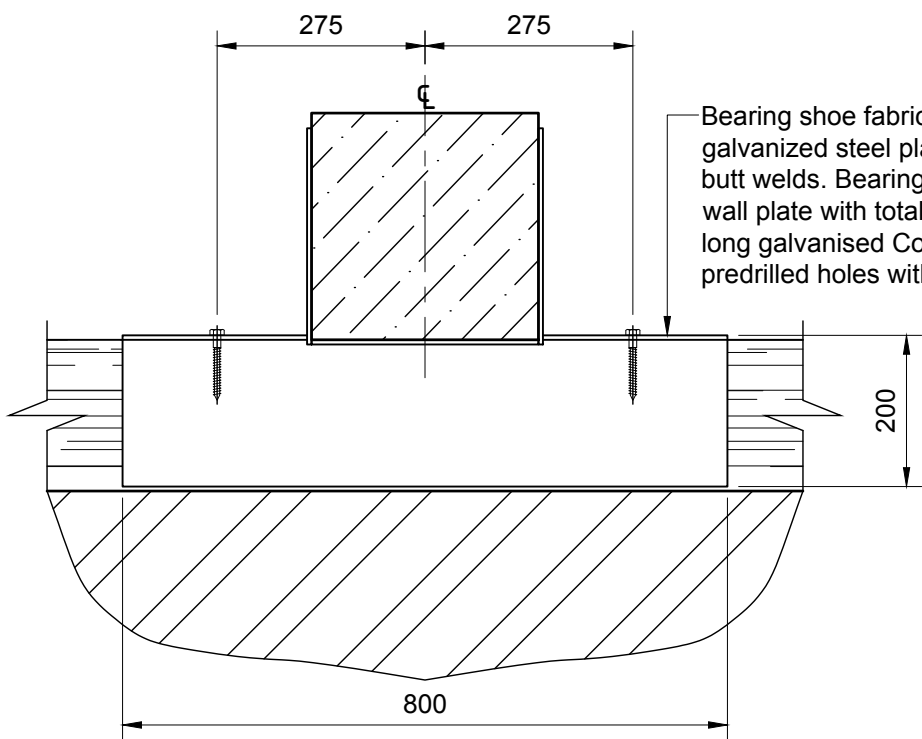
Detail B
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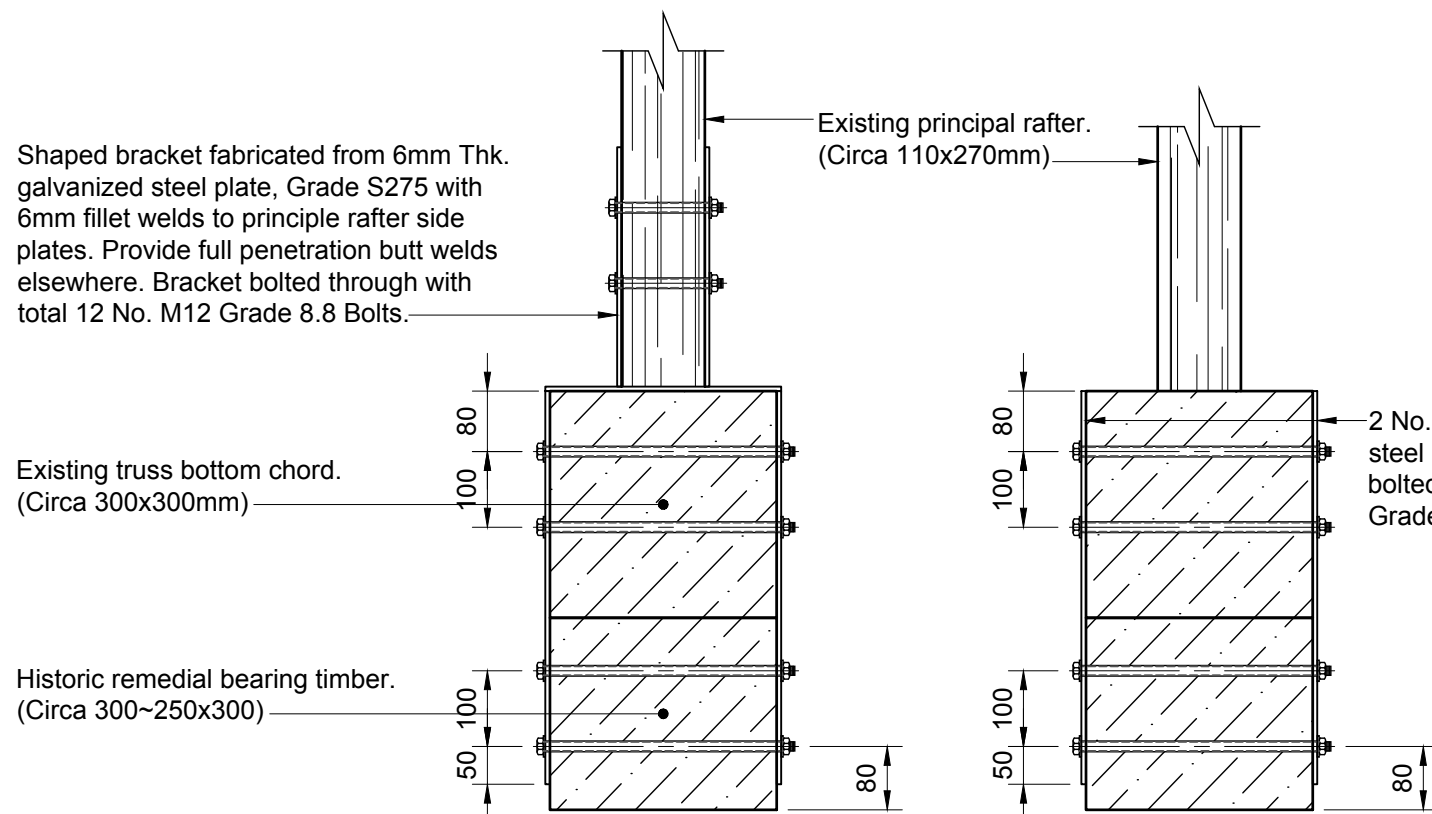
Detail C
Scale 1:20



Section A - A
Scale 1:10

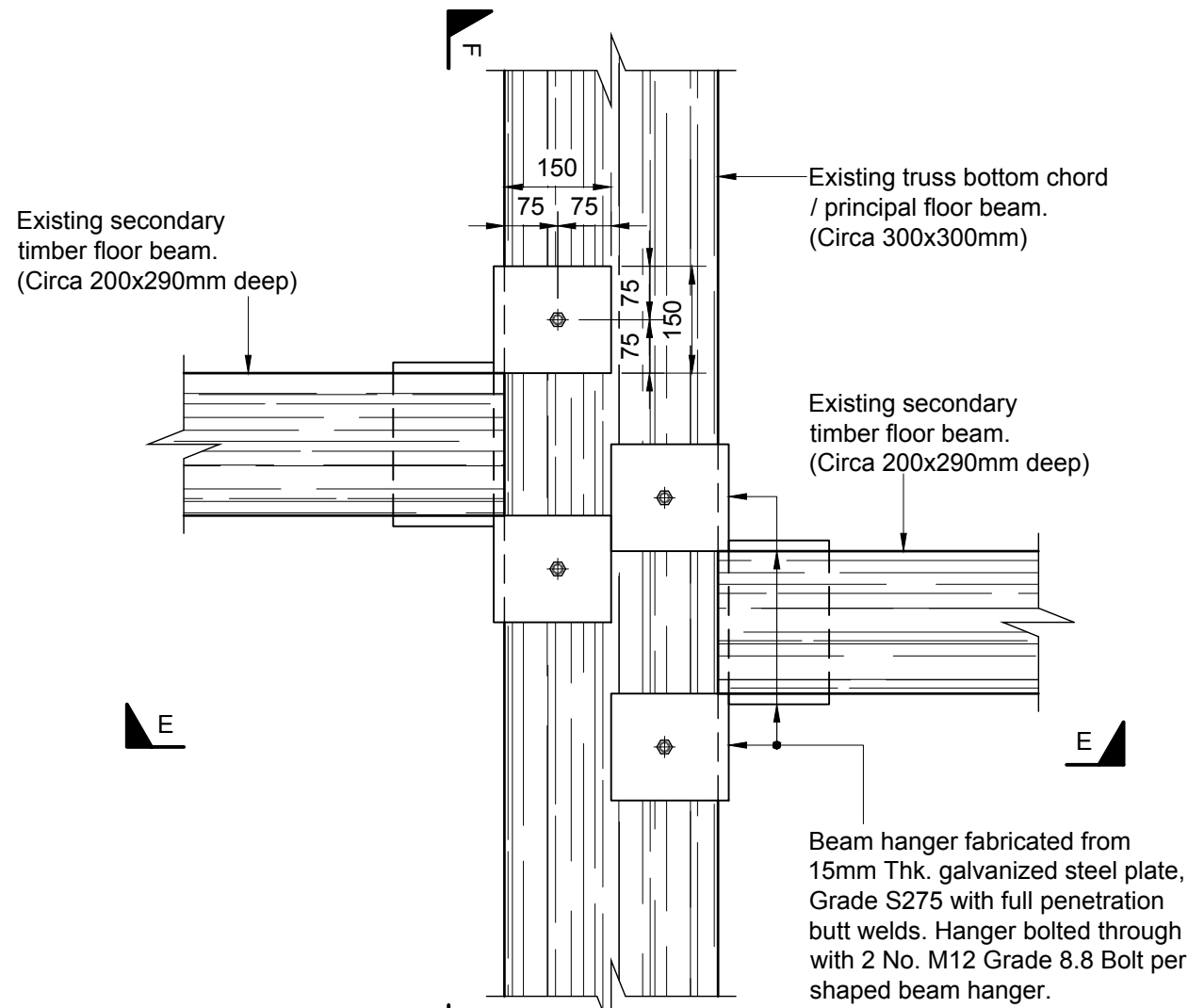


Section B - B
Scale 1:10

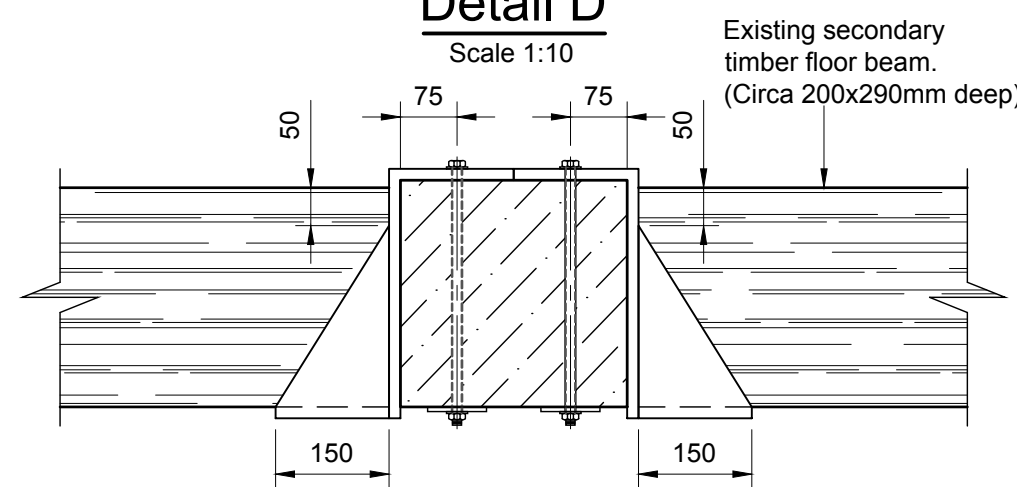


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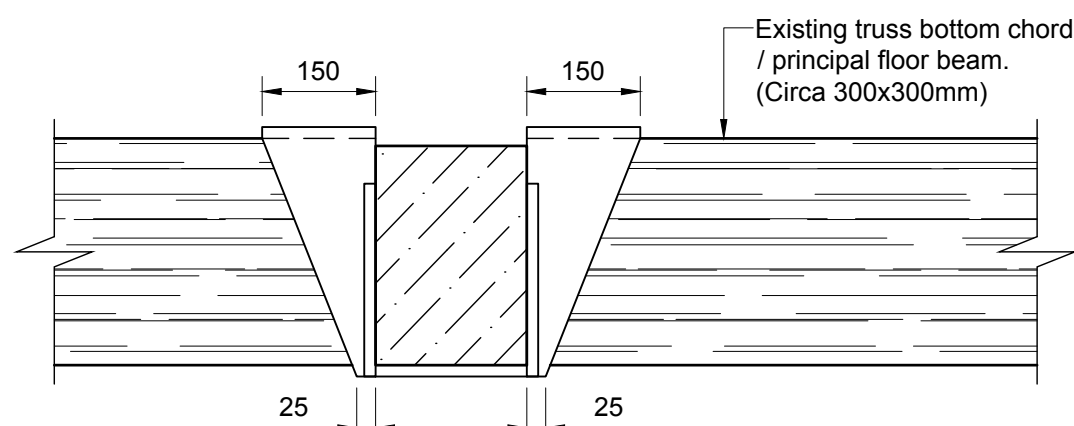
Section D - D
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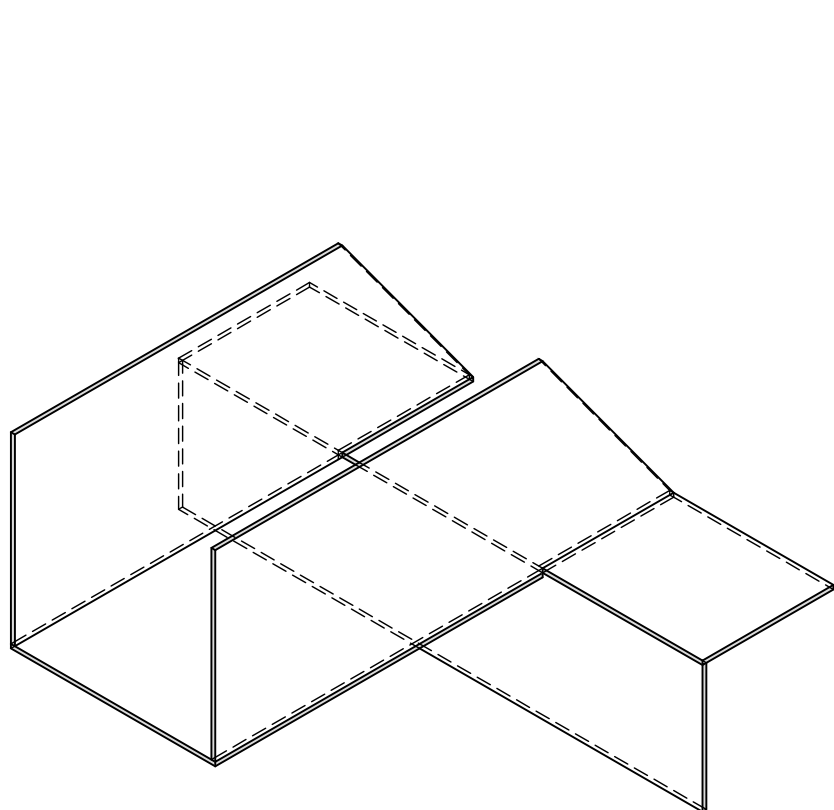
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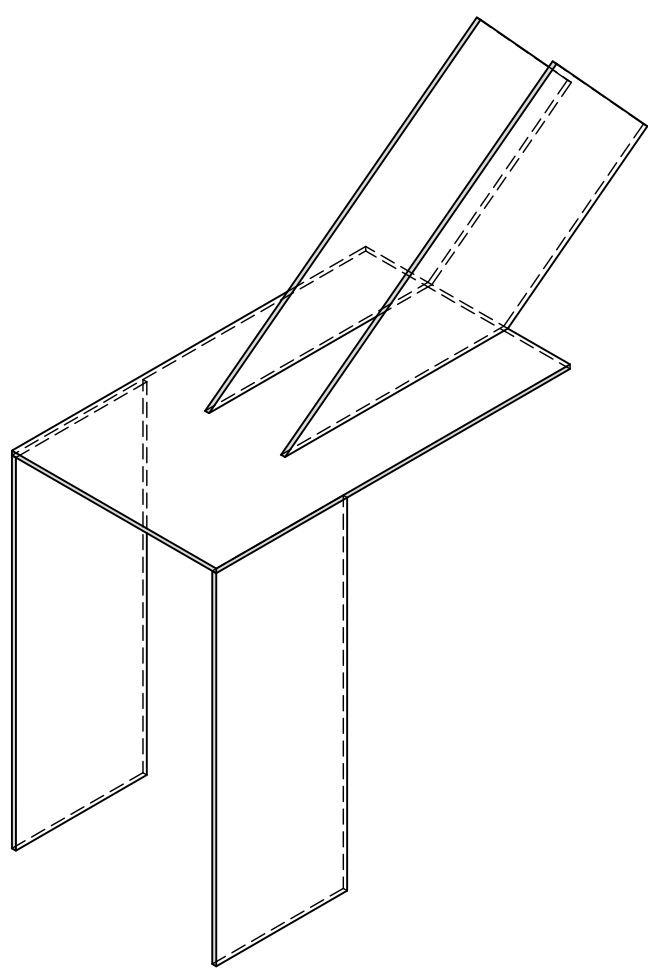
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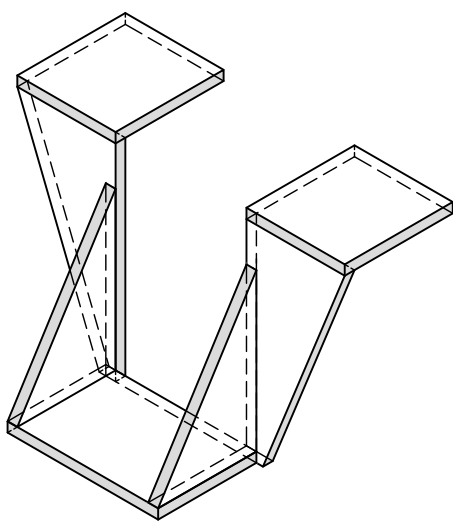
Section F - F
Scale 1:10



Isometric - Bearing Shoe, Detail B
Scale 1:10



Isometric - Fabricated Bracket, Detail C
Scale 1:10



Isometric - Fabricated Beam
Hanger, Detail D
Scale 1:10

rev.	date	description	SS	DN
1	28.06.19	First Issue		

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Victoria Cooper

project:

Weston Hall
Weston on Trent

drawing title:

Proposed Attic Floor
Strengthening Details
Sheet 2

scale:

status:

As Shown on A1 Construction

job number:

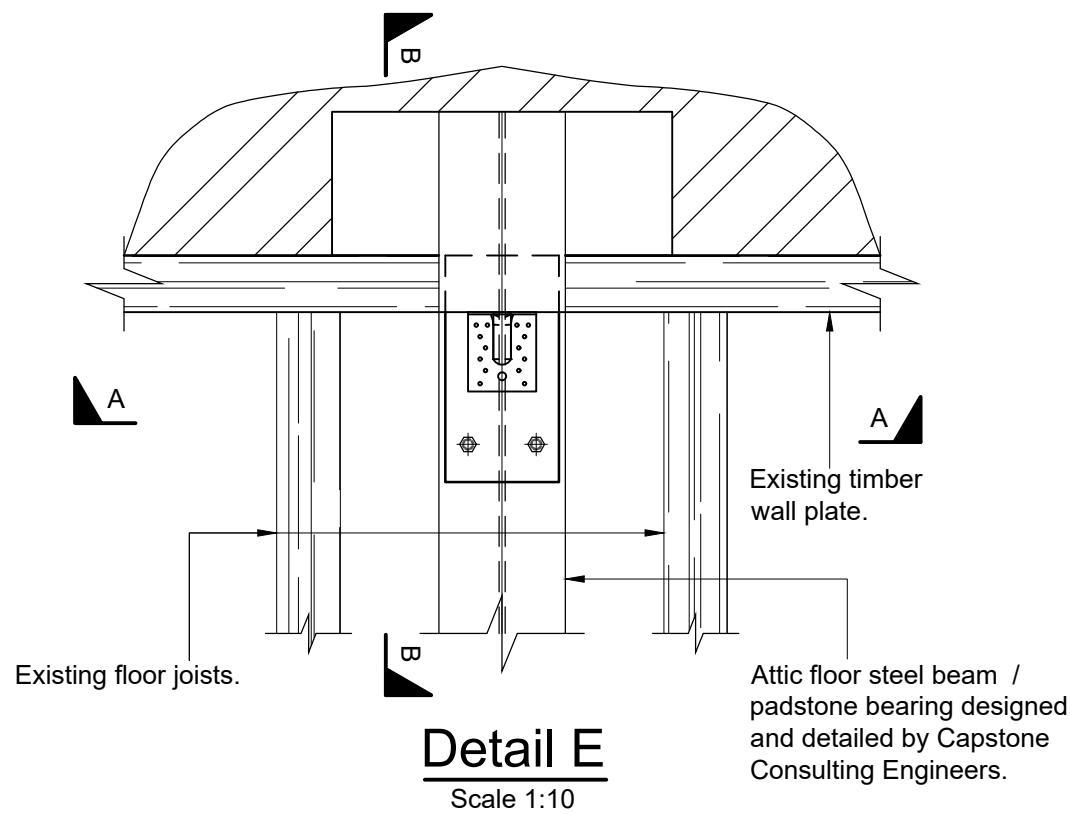
24-1166

drawing number:

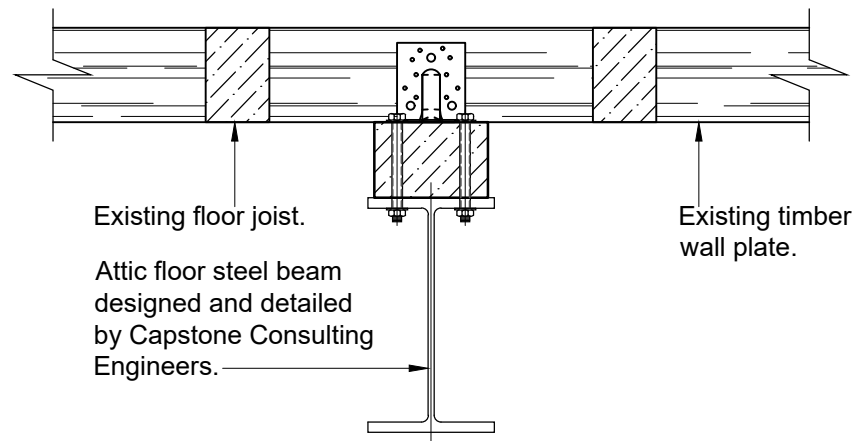
201

revision:

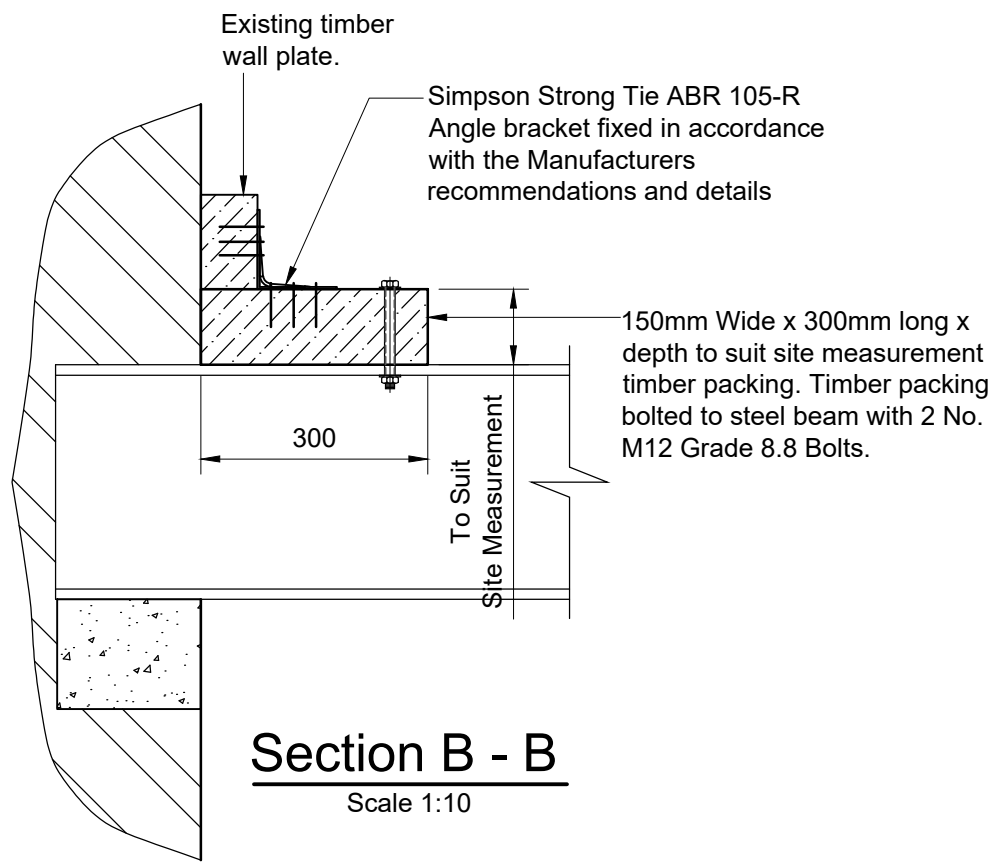
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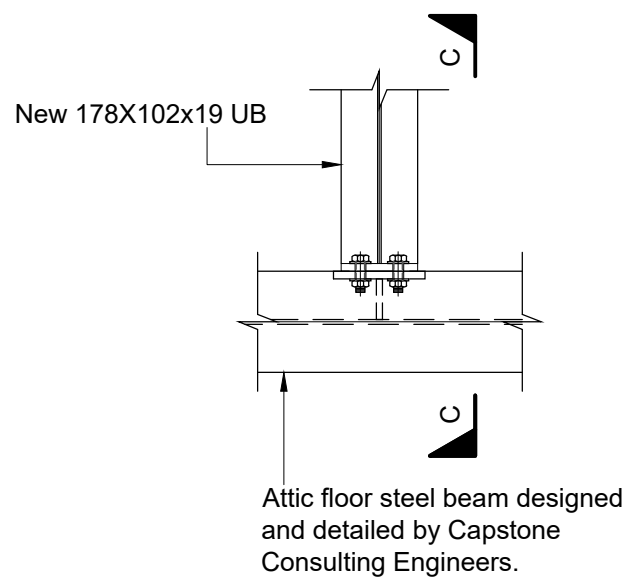
Detail E
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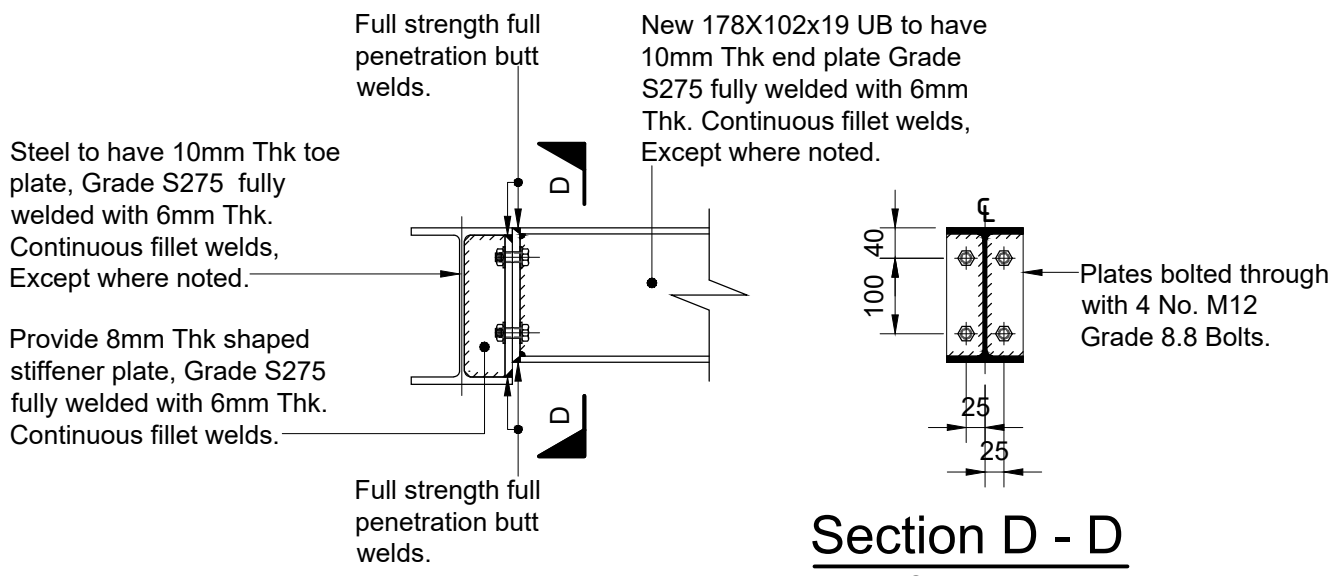
Section A - A
Scale 1:10



Section B - B
Scale 1:10



Detail F
Scale 1:10



Section C - C
Scale 1:10

Section D - D
Scale 1:10

Note:
For Location of Details E and F Refer
to Ward Cole Drawing No. 24-1166-200

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For General Notes Refer To Ward Cole
Drawing Number 24-1166-100

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	28.06.19	First Issue		SS	DN
rev.	date	Description	Drawn	Chk.	

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client:
Victoria Cooper

project:
Weston Hall
Weston on Trent

drawing title:
Proposed Attic Floor
Strengthening Details
Sheet 3

scale: status:
As Shown on A1 Construction

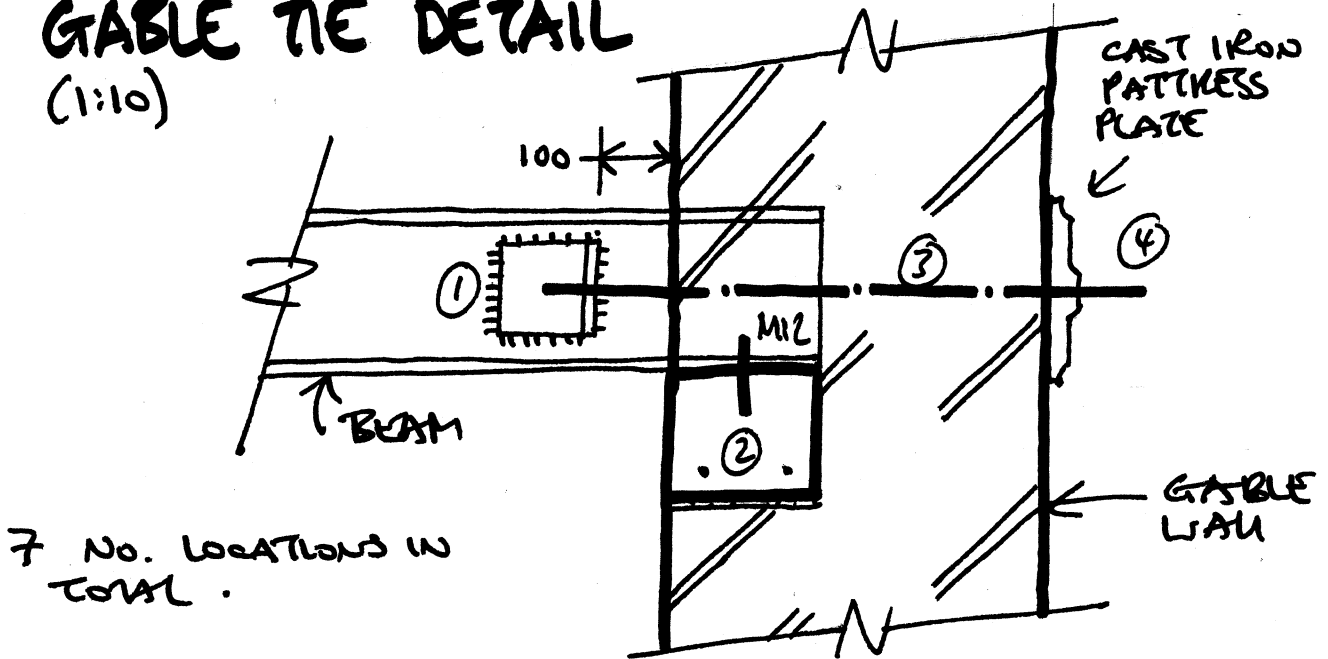
job number: 24-1166	drawing number: 202	revision: -
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Project		
WESTON HALL – ATTIC FLOOR STRENGTHENING		
Drg. Title		
STRUCTURAL DETAILS		
	Date NOV 2018	Drawn JR
Drg. P610 / D06	Revision	

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NOTES: 1) THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND WITH THE SPECIFICATION.

GABLE TIE DETAIL (1:10)



7 No. LOCATIONS IN TOTAL.

① 120x120x10 RSA, S275, 120 LONG, WELDED TO BEAM WEB (6MM CONTINUOUS FILLET WELD). PAINTED AS PER THE SPECIFICATION.

② PADSTONE, M12 RESIN ANCHOR. AS PER DETAIL D01

③ M20 THREADED BAR WITH WASHERS & NUTS TO BOTH ENDS WITH ADDITIONAL OUTER DOMED THREADED NUT.

④ "BUTTON" PATTERESS PLATE, 2 COATS BLACK BRUSHED PAINT.

TIE BAR, ALL FIXINGS & PATTERESS PLATE FROM TONY KEDWICK FABRICATOR (01283, 565299). TIE BARS & FIXINGS HIGH TENSILE GALVANISED STEEL AS SUPPLIED BY T.K. INSTN FULLY IN ACCORDANCE WITH MANUFACTURER'S DETAILS. PATTERESS TO BE PUSHED BACK ONTO BED OF MORTAR ONTO BRICKWORK.