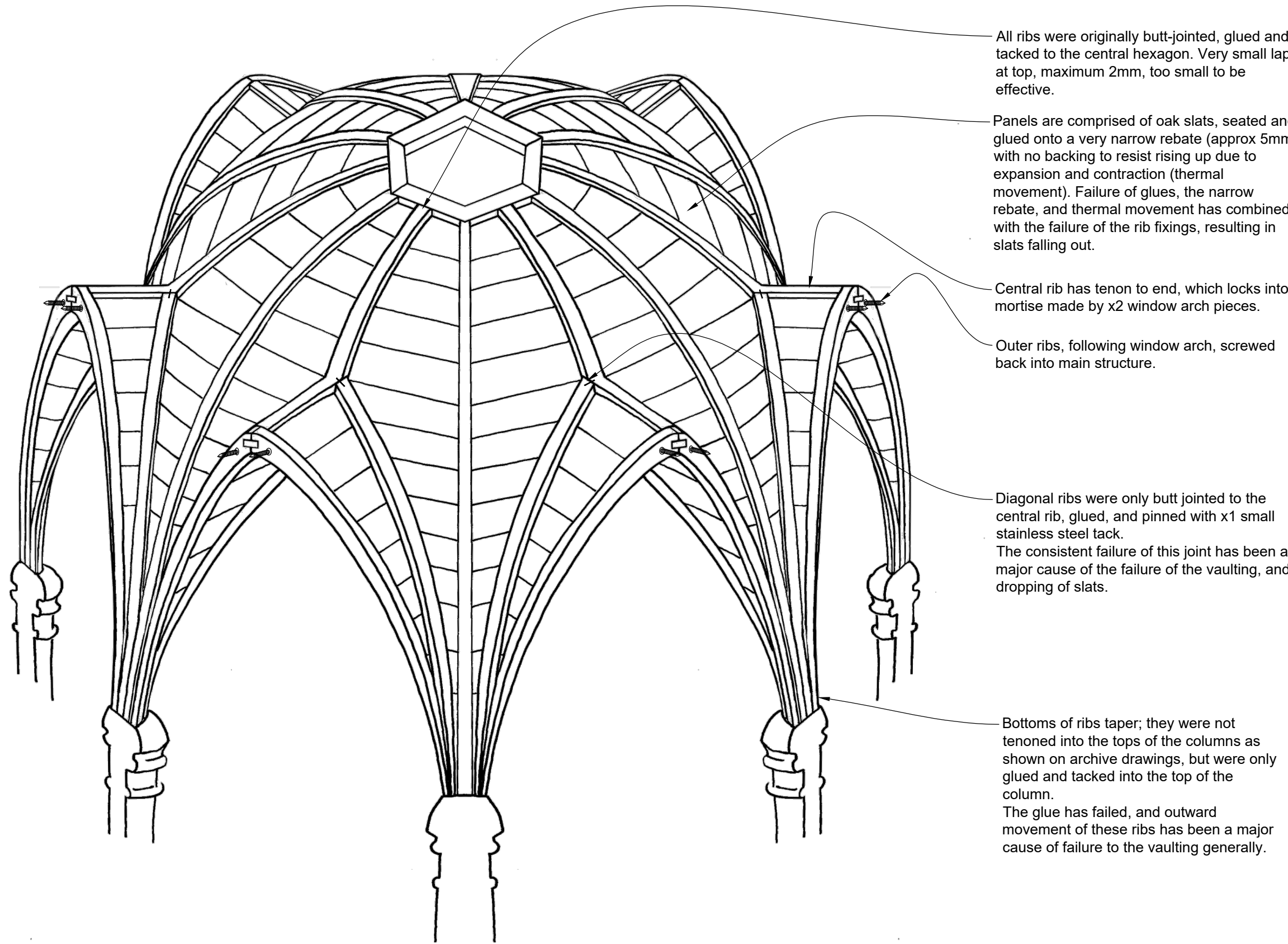
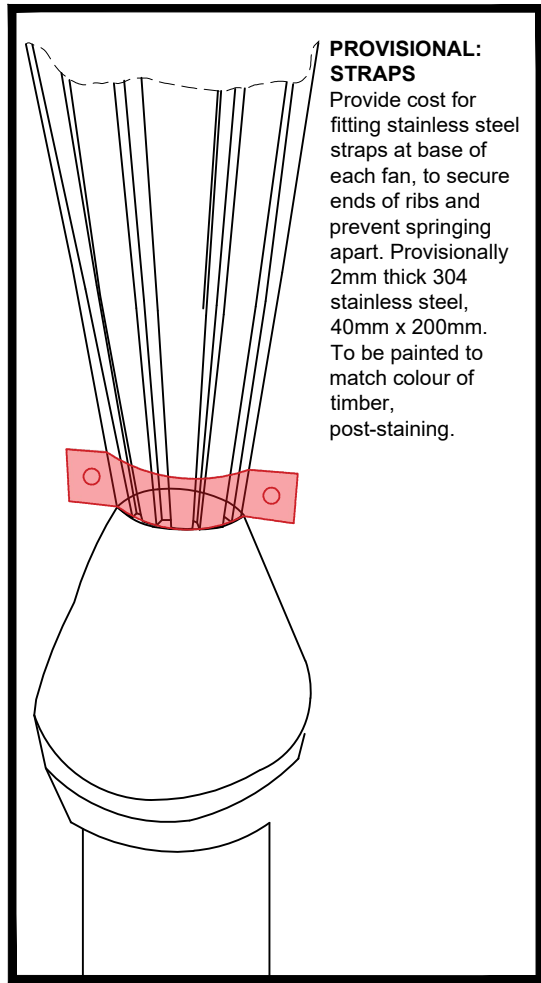


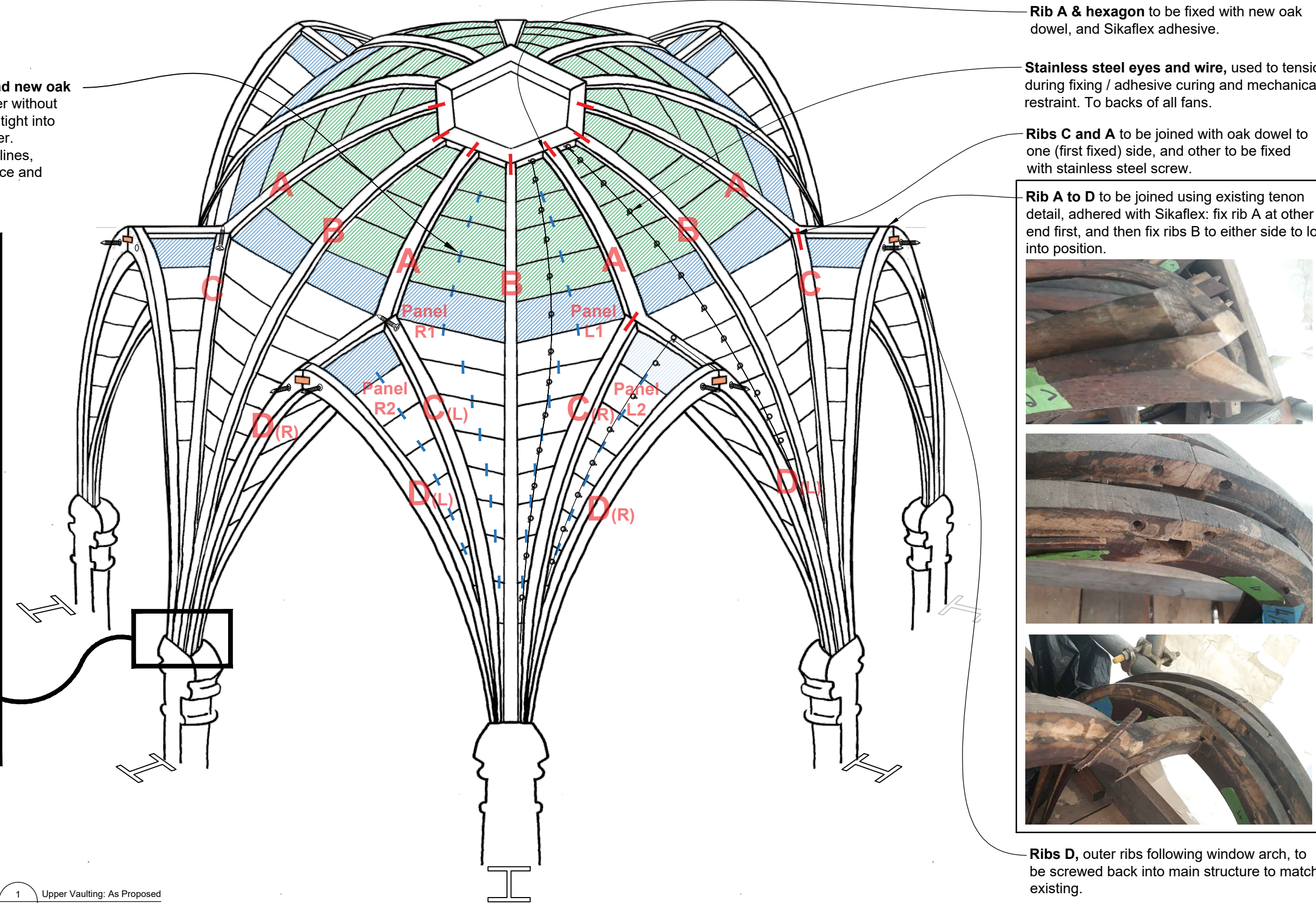


1 Upper Vaulting: As Existing
3209 NTS

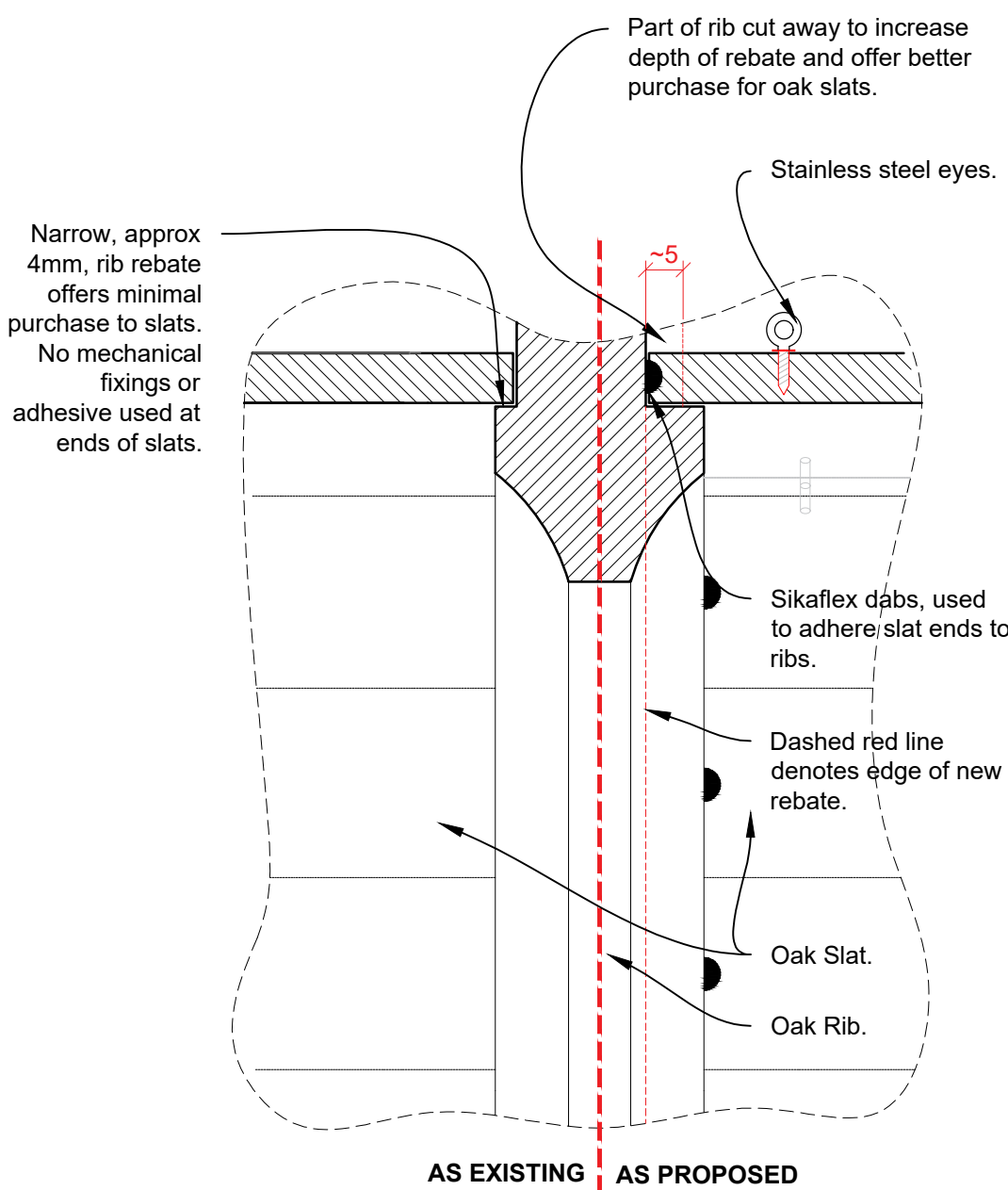
New oak dowels to be added to salvage and new oak slats. Primary purpose is to lock slats together without restricting seasonal movement. Dowels to be tight into lower slat, and permitted to be loose into upper. N.B: x1 dowel per joint, to run through centre lines, instead of x2 or more in order to allow tolerance and simplify installation.



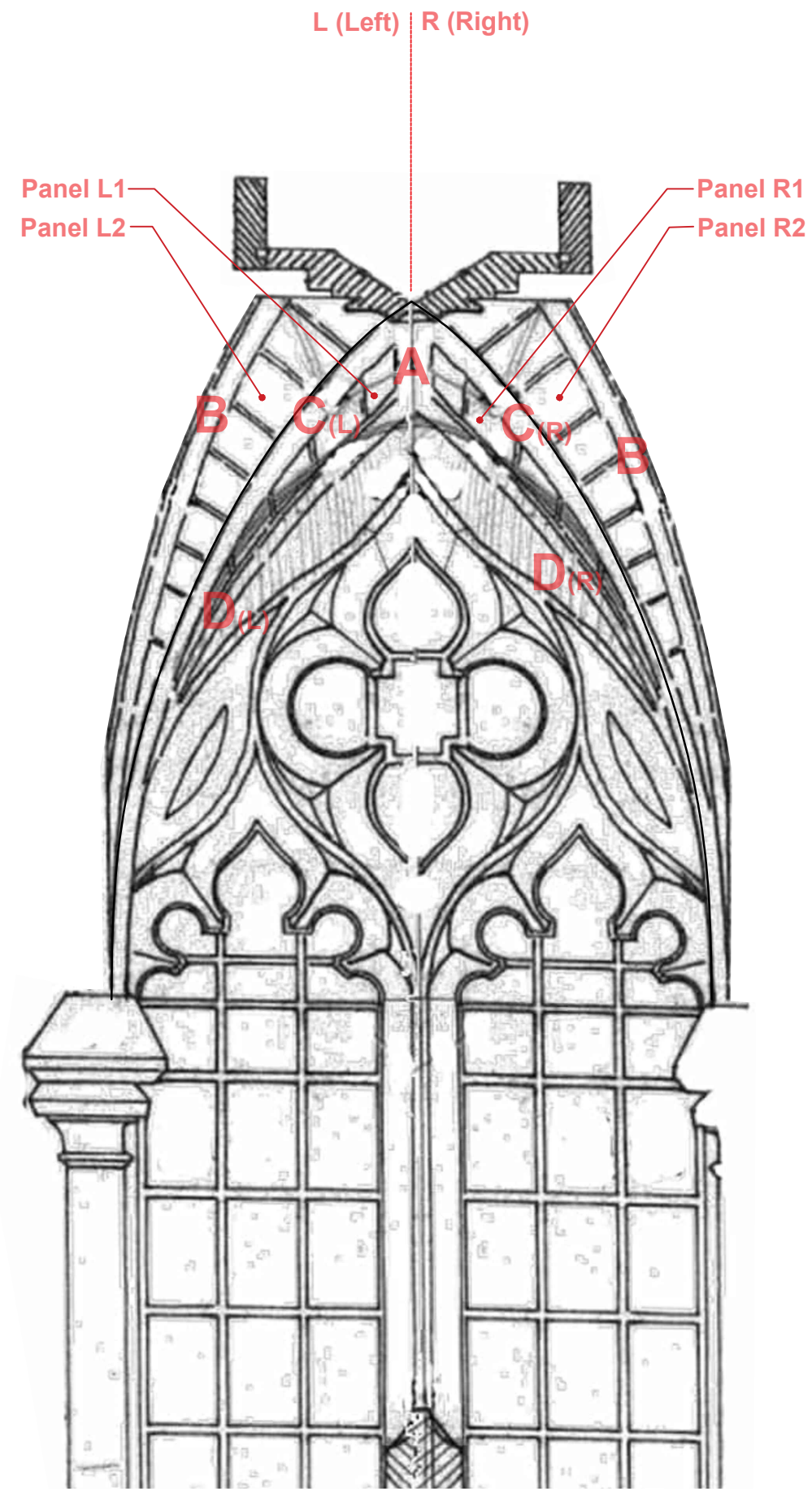
PROVISIONAL: STRAPS
Provide cost for fitting stainless steel straps at base of each fan, to secure ends of ribs and prevent springing apart. Provisionally 2mm thick 304 stainless steel, 40mm x 200mm. To be painted to match colour of timber, post-staining.



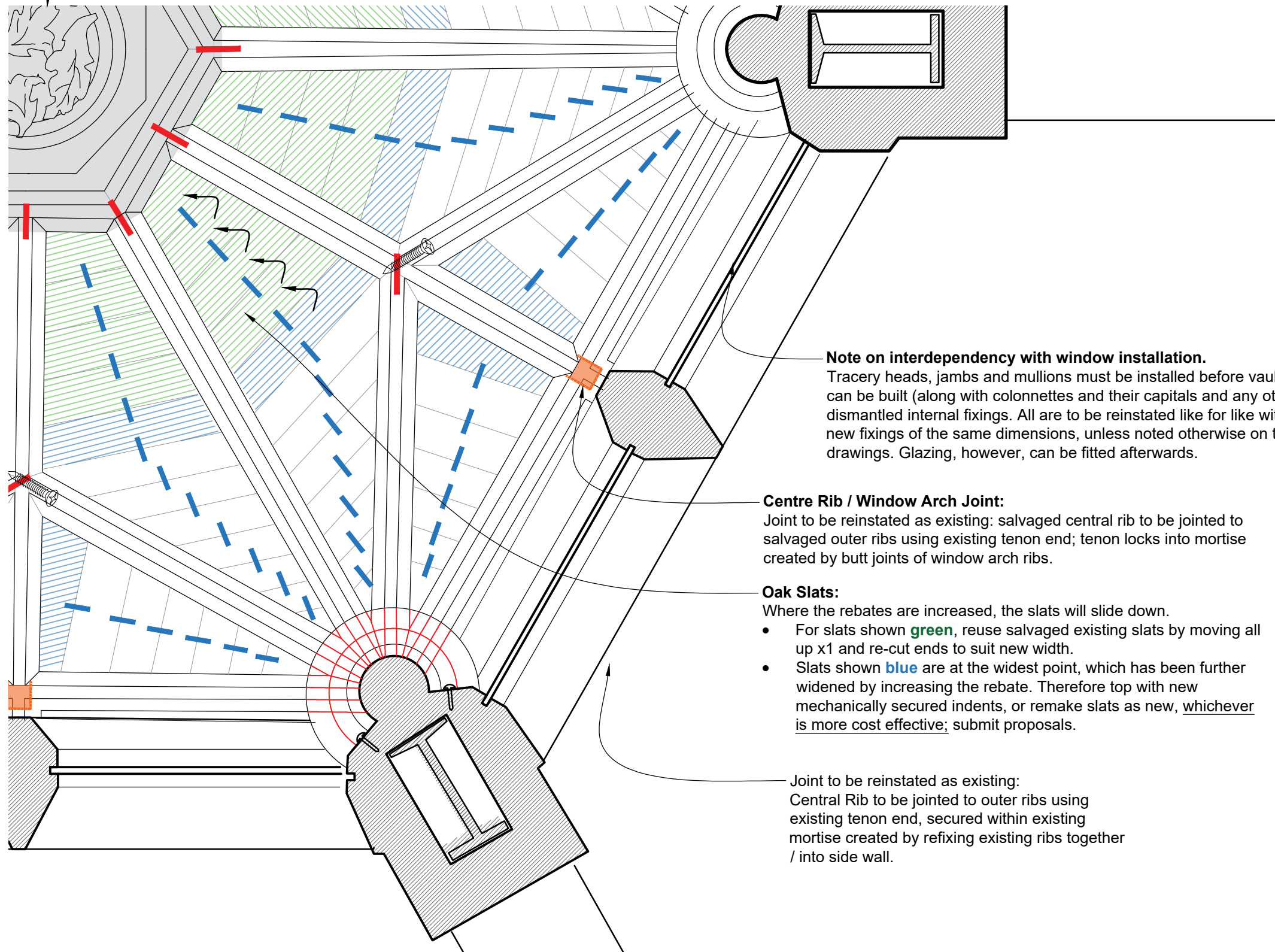
1 Upper Vaulting: As Proposed
3209 NTS



1 Section Through Rib and Slat Abutment: Existing and Proposed
3209 NTS



Grey area indicates central oak boss and surrounding hexagon. To be left in situ. Advise PM if any defects or loose parts are identified.



1 Upper Vaulting: As Proposed
3209 NTS

Lantern Vaulting Repair Key

1. Replace slats as x1 piece with false joints. Reinforce with oak dowels.
2. Remake slats or tip ends to suit new length (due to wider rebate).
3. New oak dowels to join ribs, provisionally D:10mm, L to suit.
4. New oak dowels to join slats, provisionally D:8mm, L to suit.

Indicative Repair and Installation Process:

(For one fan, or 1/6th)

1. Prepare oak manifold F; prepare new backing piece C; prepare slats (dowels, ends, eyes to backs) for panels L1, L2, R1, R2; rework ribs A (x1), B (x4) and E (x2); add stainless steel backing strips to B (x4) and C (x1).
1.1. Include any repairs identified on RCP drawings. Offer up regularly to gauge sizes: assume variation throughout.
2. Apply stains to loose pieces and allow to dry.
3. Fix new oak manifold F, fixing back to oak structure as shown.
4. Windows and internal linings (T+G boarding) to be reinstated: refer to internal repair drawings.
5. Fix salvage side ribs B (x4), upper ribs E (x2), new backing piece C (x1) and beads D (x2).
6. Install slats (new and salvage) from bottom upwards, dowing all together; maintain lines as best as feasible. Fit wire through eyes to hold in place while positioning and final fixing in, notably for slats abutting rib C.
7. Fit salvaged and adapted front rib A, and dovetail fixing covers. Allow adhesives to cure and undertake any final working-in of surfaces.
8. Apply final / touch up using approved stains.

THIS DRAWING ILLUSTRATES PROPOSED REPAIRS TO X1 FAN TO THE LOWER VAULTING.

THERE ARE X12 FANS IN TOTAL; X6 LOWER, X6 UPPER.

FOR ASSOCIATED WORK REFER TO DIA TIMBER REPAIR DRAWINGS GENERALLY, INCLUDING INTERNAL ELEVATIONS AND REFLECTED CEILING PLANS.

Generally:

Materials and workmanship as per DIA Specification, drawings, and approved samples.

Sizes of mechanical fixings (screws, pins) and dowels to match those used for the approved trial fan.

1. **Adhesive:**
 - Sikaflex 291i, black, as C53/240.
2. **Fixings:**
 - Slot-headed silicone bronze screws where heads will be visible, as C53/220.
 - 304 stainless steel elsewhere; cross or pozi heads accepted where not visible, as C53/230.
 - Stainless steel eyes, as C53/230, provisionally M5 15mm thread; submit proposals.
3. **Wood Stain, to New and Existing Timber as M60/110:**
 - Purpose, to match in new, abraded, repaired and existing oak. Dark brown stain required to match ribs and internal oak generally; medium brown to match vaulting slats, which are lighter.
 - Product: *Mylands 'The Earth Collection'* stains, or similar approved.
 - Colours subject to trials: provisionally dark brown for ribs / general joinery, and medium brown for slats.
 - Allow for use of multiple stains depending on substrate, and inter-mixing if required, as per manufacturers guidance.
 - Allow for selection of x1 stain for new work, and x1 for touching in salvages pieces, for both the dark and medium brown.
 - Stain to be applied to whole surfaces / parts before fixing: do not stain in situ.
 - Allow for in-situ touching in of any areas damaged or abraded during installation.
5. **Waxing Existing Timber Internally, as M60/115**
 - Apply and buff wax coating to internal timber following completion of staining, to nourish timber and achieve a uniform sheen and appearance.

- Notes
1. Any dwg format drawing is to be read in conjunction with and at the scale of the accompanying pdf.
 2. Where colours other than black or grey are used, the drawing must be plotted in colour.
 3. For status "C" (Construction) drawings all dimensions are to be checked on site by the contractor, scaling is for Local Authority purposes only.
 4. Unless otherwise indicated, all dimensions are in millimeters.
 5. All information on this drawing is to be read in conjunction with the relevant Donald Insall Associates specification and trade contractors' drawings and information by specialists.
 6. In the event of any discrepancy, please contact us immediately.
 7. This drawing may contain survey information by others and is to be used solely for the purposes for which it was issued.
 8. These are uncontrolled documents issued for information purposes only. If you have any queries regarding the drawings, please contact DIA immediately.
 9. Please note DIA cannot be held responsible for any errors arising from changes made to an uncontrolled dwg file.

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Drawing Status
F Feasibility
S Sketch Design
P Planning
B Building Control
D Developed Design
M Measurement
T Tender
C Construction
R Record

Rev Date Dwn Auth Revision

0 26.06.19 ERL PXD Initial Issue
Rev Date Dwn Auth Revision

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Westminster Hall Lantern

Joinery Repairs to Internal Vaulting

Project	PW.WH3	No	3209
Scale (A1)	1:VAR	Status	C
		Revision	0