

Main Chapel Roof

Note: As part of the consents process, 3no PV mock-ups will be installed in the locations shown, to assess the impact of the proposals. Each mock-up will consist of 9 PV panels with 9 integrated fixing points to the roof. There will be 18 panels total since those from Location 2 will be moved to Location 3 before commencement of the works. The fixings points will be extant in all locations (27no total).

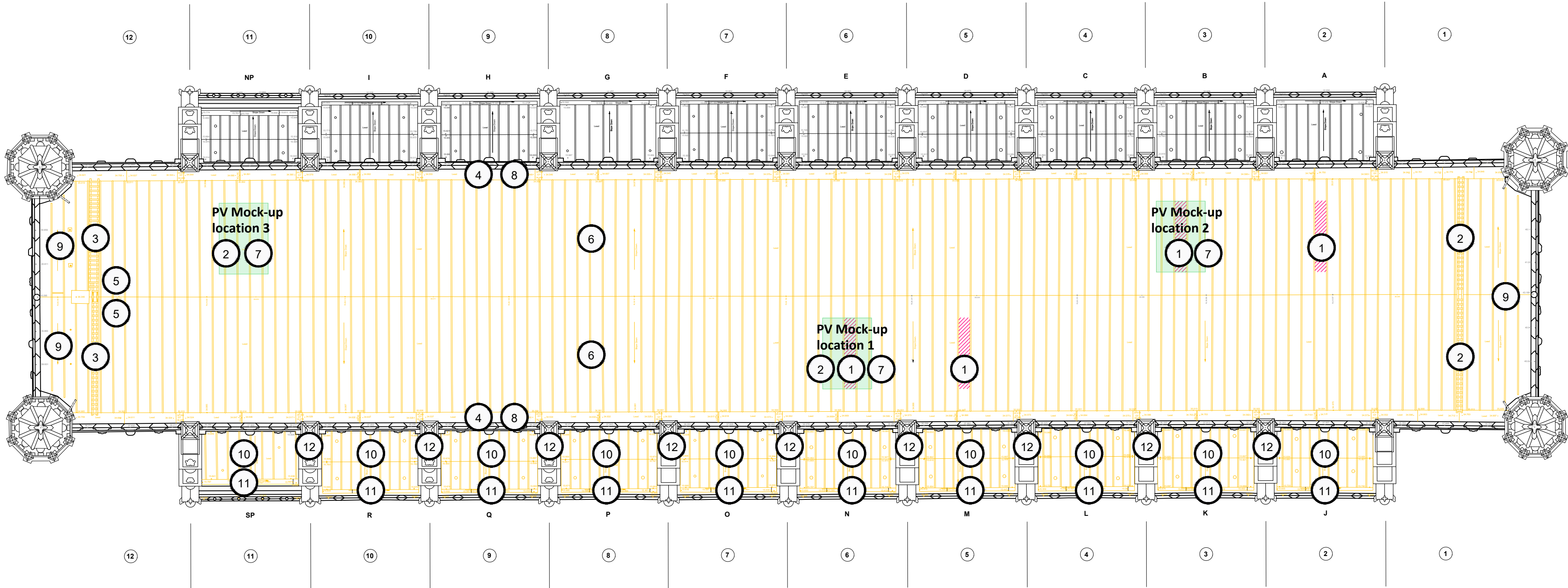
Note: Parapet braces to remain fixed throughout. Temporarily release only where necessary for removals and renewals; reinstate immediately thereafter.

- Tobit Curteis Associates are monitoring the environmental conditions impacting the lead and have placed a number of sensors beneath the existing roof covering - recessed into the sarking boards. Prior to commencement, coordinate removals with Tobit Curteis to allow for safe retrieval of the monitoring equipment and reinstatement after.
- Prior to installation of temporary roof commission specialist installer to remove PV panels from mock-up Locations 1 and 3 (18no total) and associated framing. Protect and safely store on site compound for reinstatement. See below for removal of integrated fixing points with lead roof covering.
- Take down and cart away ridge ladders (both slopes, east and west ends of the roof).
- Remove and cart away all sections of duck-boarding from the full length of both parapet gutters.
- Carefully detach 2no existing lead plaques at the west end of the roof and store at location within the Chapel to be agreed with the CotW. Plaques are not to be removed from site and will be re-fixed to the new roof, location TBC.
- Take up existing mini roll lead roof covering from both slopes, hatch (at west end) and lead flashings from all associated abutments (including those around each turret). Cart away batten rolls; transport lead for re-casting. Remove or drive home any remaining fixings and/or protruding nails.
  - The expectation is that the existing lead will be taken off for recasting and reused subject to metallurgical testing. Include extra-over for make-up to accommodate thickness of new coverings, programme, lead testing and chain of custody costs.
- In conjunction with roof covering removals above, take up integrated fixing points from PV mock-up locations 1, 2 and 3 (27no total). Store for reinstatement.
- Take up existing lead gutter linings from both parapet gutters and lead flashings from all associated abutments (including those around each turret). Deconstruct and cart away existing gutter boarding and timber substructure. Transport lead for re-casting; cart away timbers.
  - Allow for taking down all lead hoppers, repairing, adapting for overflows and reinstating.
  - Allow for both removal and adaptation of gutter sumps subject to CA instruction following inspections and setting out.
  - Include provisional item for breaking out and removing concrete or masonry in each gutter base, to a depth of up to 150mm, if required following opening-up.
  - Removal of all debris and loose material from wall head as may be exposed and timbers/wall plate zone to be costed. Include vacuuming throughout, including vacuuming of wall heads. NOTE: methodology MUST minimise dust ingress entering into roof space during works. This is vital to prevent debris being scattered throughout the roof space and then falling down into chapel.
  - Include extra-over make-up, programme and chain of custody costs for recycling of lead, as above.
- Remove existing anchor points from west end (4no total) and make good sarking boards.

**Side Chapel Roofs and South Porch** (to be undertaken sequentially with scaffold to be installed to max two bays at any one time. One full bay to be completed as a sample for approval.) Protection to windows (side chapel and main chapel windows) to be in place prior to scaffold installation in each bay.

- Roof removals:
  - Detach lightning conductor from the existing lead roof covering and earth for the duration of the works. On completion, re-attach to the new lead roof covering in accordance with current regulations.
  - Remove fixing for electrical cables running along the north abutments. Temporarily clip back to allow works to be undertaken and re-fix with new clips on completion.
  - Provisionally allow for removal of bottom sections of main downpipes to facilitate access for works. Re-fix with new st/sl fixings on completion.
  - Fit Temporary downpipe extensions to discharge rainwater from main chapel downpipes to side chapel downpipes. Remove on completion.
  - Take up existing solid core roll lead roof coverings, parapet gutter linings and point ventilators; retain lead plaques and store in location agreed with the CotW. Transport all remaining lead for recasting. Take up and cart away batten rolls, sarking boards, modern sub-structure and associated fixings for the current roof form. Remove or drive home any remaining fixings. Clear debris any dust/debris from the roof void for inspection by the CA.
  - Include extra-over make-up, programme and chain of custody costs for recycling of lead, as above.
- Take up existing lead lining from each parapet gutter. Remove lead flashings from all associated abutments and transport for recasting. Take up and cart away existing sub-structure.
  - Include extra-over make-up, programme and chain of custody costs for recycling of lead, as above.
  - Include provisional item for breaking out and removing concrete or masonry in each gutter base, to a depth of up to 150mm, if required following opening-up.
- Lift overcloaks of passageway linings to facilitate roofing works. These are to be taken up with associated flashing following removal of the scaffold beams and recast for replacement. Include programme and chain of custody costs as above.

For disconnection and reinstatement of lightning conductor tapes fixed to the main and side chapel roof coverings, refer to Specifications by Max Fordham LLP.



Removals - Roof Plan, 1:200 @A1

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Key Plan

**General notes:**  
Never scale dimensions from this drawing. Use written dimensions only. Report any discrepancies. Ask if in doubt. Always use latest revision.  
Note that this drawing is based on dimensional surveys by others, therefore site verification of dimensional information is particularly important.  
Read in conjunction with other information from CAL and other consultants.

**Notes:**

Stage 4 - For Tender		Not for construction	
CLIENT	King's College, Cambridge	SCALE	1:200@A1
PROJECT	Roof Covering Renewal Project	DATE	04.02.22
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		REVISION	

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