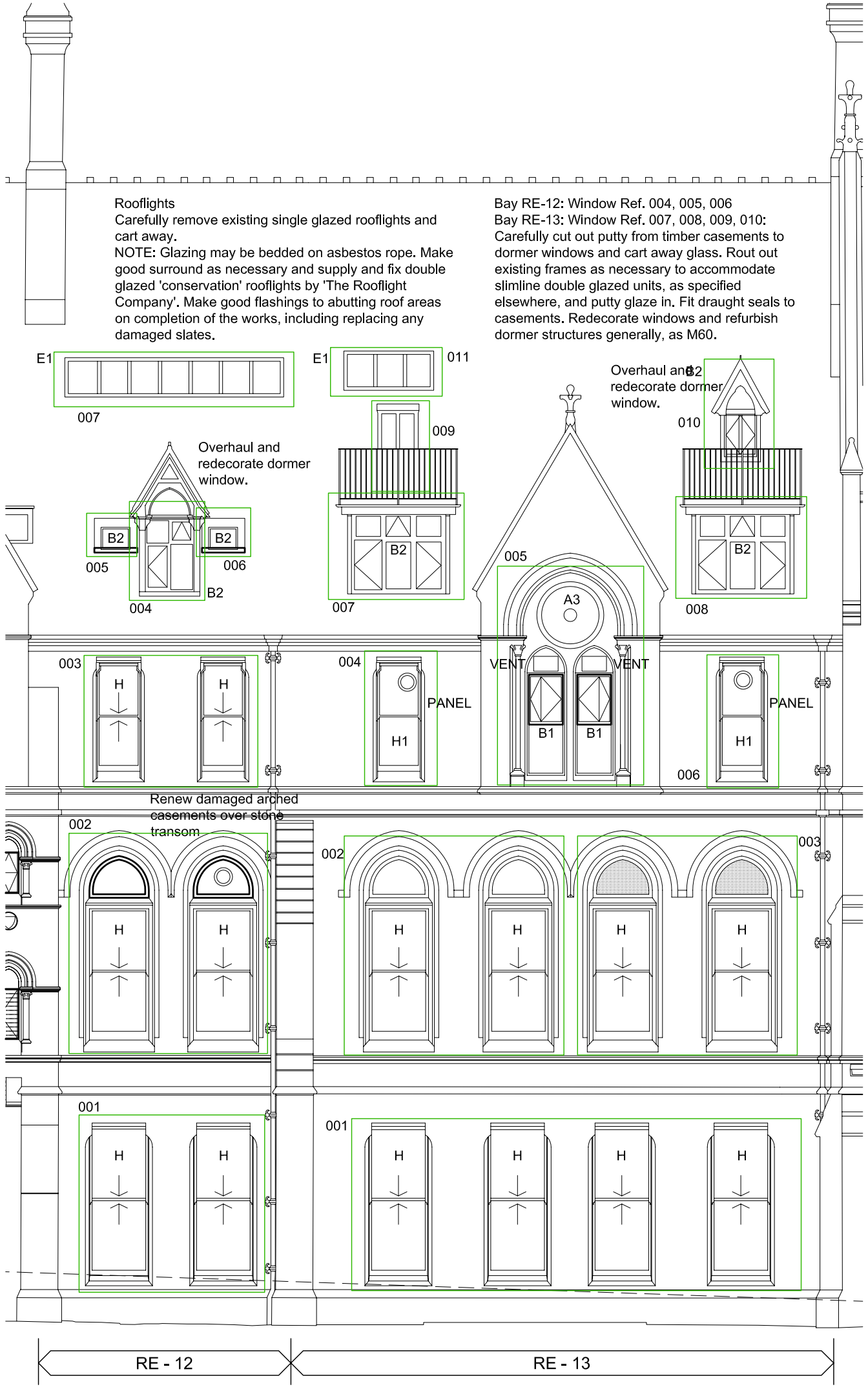


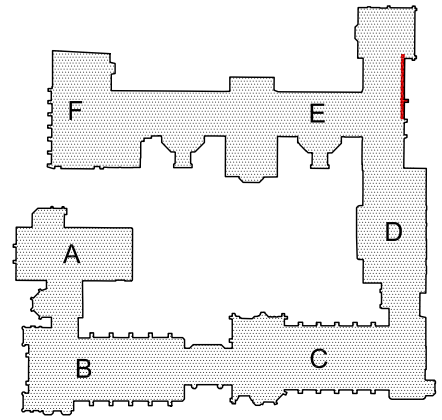
Bay RE-12: Window Ref. 001, 003
Bay RE-13: Window Ref. 001, 004, 006
Carefully remove existing external glazing beads to timber casements of vertically sliding sash windows and cart away debris, including existing glazing.
Refurbish frames in situ by carefully cutting out rotten cills / base of sash box linings and splice in new sections, as NBS C51/605. Cill to be oak, other members Baltic Red Deal. Remove parting beads to facilitate removal of sash casements and rout out as necessary to accommodate proprietary slimline double glazed units, as NBS L40/220, secure with sprigs as glazing supplier's details, and fit new reduced section beads. Remove and cart away weight access pocket and all weights and sash cords
Re-fit casements in existing refurbished linings, including renewal of parting bead, weight access pocket, sash cord and weights to accommodate extra weight of glass, and redecorate casements and frame as NBS M60. Fit draught seals and renew seal to masonry in traditional burnt sand and boiled linseed oil mastic worked to a neat chamfer, on a backing of lime mortar, all as NBS C51/605.

Bay RE-12: Window Ref. 002
Bay RE-13: Window Ref. 002, 003
Sash section of composite window (below stone transom) to be refurbished as described above.
The bottom hung inward opening casements to Window Ref. 003, Bay RE-13 above the sashes, are above the level of the suspended ceiling, and are to be to be removed from outside, repaired as necessary, including routing out to accommodate slimline double glazed units as described above, with film applied to the inner face of the glass. Refit casements in existing frames, screw shut, and redecorate as NBS M60. Renew mastic seal between frame and masonry as described above. The remainder of the bottom hung inward opening casements over the sashes are to be eased and removed and repaired as necessary (new frame members where indicated) and routed out to accommodate slimline double glazed units as described above. Refit casements in existing frames and redecorate as NBS M60. Draught seal as above and consider whether operation is required. Allow for screwing shut. Renew mastic seal between frame and masonry as described above.

Bay RE-13: Window Ref. 005
Carefully remove existing stained / painted leaded glazing from circular top light as NBS L40/136 ready for refurbishing and releading with new cames as L40/137.
All tie wires are to be renewed in 16 gauge copper touched up with matt black paint prior to completion. All saddlebars (approximate locations indicated) are to be stainless steel, powder coated black, sizes as described above.
Finished circular light is to be glazed into the stone rebate and pointed with 1:3 lime:sand mortar as described elsewhere.
Carefully remove existing composite single glazed steel framed windows with arched heads to lower lights and cart away, including glazing. Supply and fix new powder coated galvanised steel Corporate W20 Range Crittall composite framed windows, incorporating opening lights where indicated, operation to match existing. Windows are to be fitted with16mm narrow sightline double glazed units, as specified elsewhere. Include for all ironmongery to match that of the existing frames.
Seal between all new frames and masonry with Arbosil XL 1099 low modulus silicone sealant.

DOUBLE GLAZED UNITS:

Where noted existing single glazing to sash and metal casements is to be replaced with 16mm narrow sightline double glazed units comprising 4mm Saint-Gobain toughened 'Planitherm one ii, coating surface 2' outer pane, 8mm Krypton filled cavity, and 4mm Saint-Gobain toughened 'Planilux' inner pane, to give a U value of 1.1 W/m2 deg C.



EXTENT COVERED BY THIS DRAWING

WINDOW TYPE DESCRIPTIONS:

A Leaded stained glass
A1 In metal frames / casements
A2 In timber frames / casements
A3 Into stone

B Clear Glass
B1 In metal frame / casement
B2 In timber frame / casement
B3 Metal casement in timber frame

C Plain glass in stone (no frame)
C1 Plain glass in stone but with metal transom

D Leaded glass
D1 Leaded metal frame / casement
D2 Leaded in timber frame / casement
D3 Into stone

E Roof Window
E1 Patent glazing
E2 With leaded glass

F Textured float glass
F1 In metal frame / casement
F2 In timber frame / casement

G Georgian wired
G1 In metal frame
G2 In timber frame
G3 Into stone

H Sliding Sash
H1 Fixed sash / sealed shut
H2 Leaded panel

BUILDING REFERENCES:

A - Christie Building
B - Whitworth Hall
C - Manchester Museum
D - Beyer Building
E - John Owens Building
F - John Owens Building (Student Services)
G - Manchester Museum
H - Manchester Museum

Contract
UNIVERSITY of MANCHESTER
Fabric Repairs to Quadrangle: Phases 4, 5 and 6

Client UNIVERSITY OF MANCHESTER

Building / Structure COUPLAND STREET: JOHN OWENS ABUTMENT TO FORMER BOTANY

PROPOSED WINDOW REPAIRS

Drawing No. WR-32
Contract No. 4106A
Scale 1:100 @ A3
Date 15.01.13
Drawn fds
Revision -

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