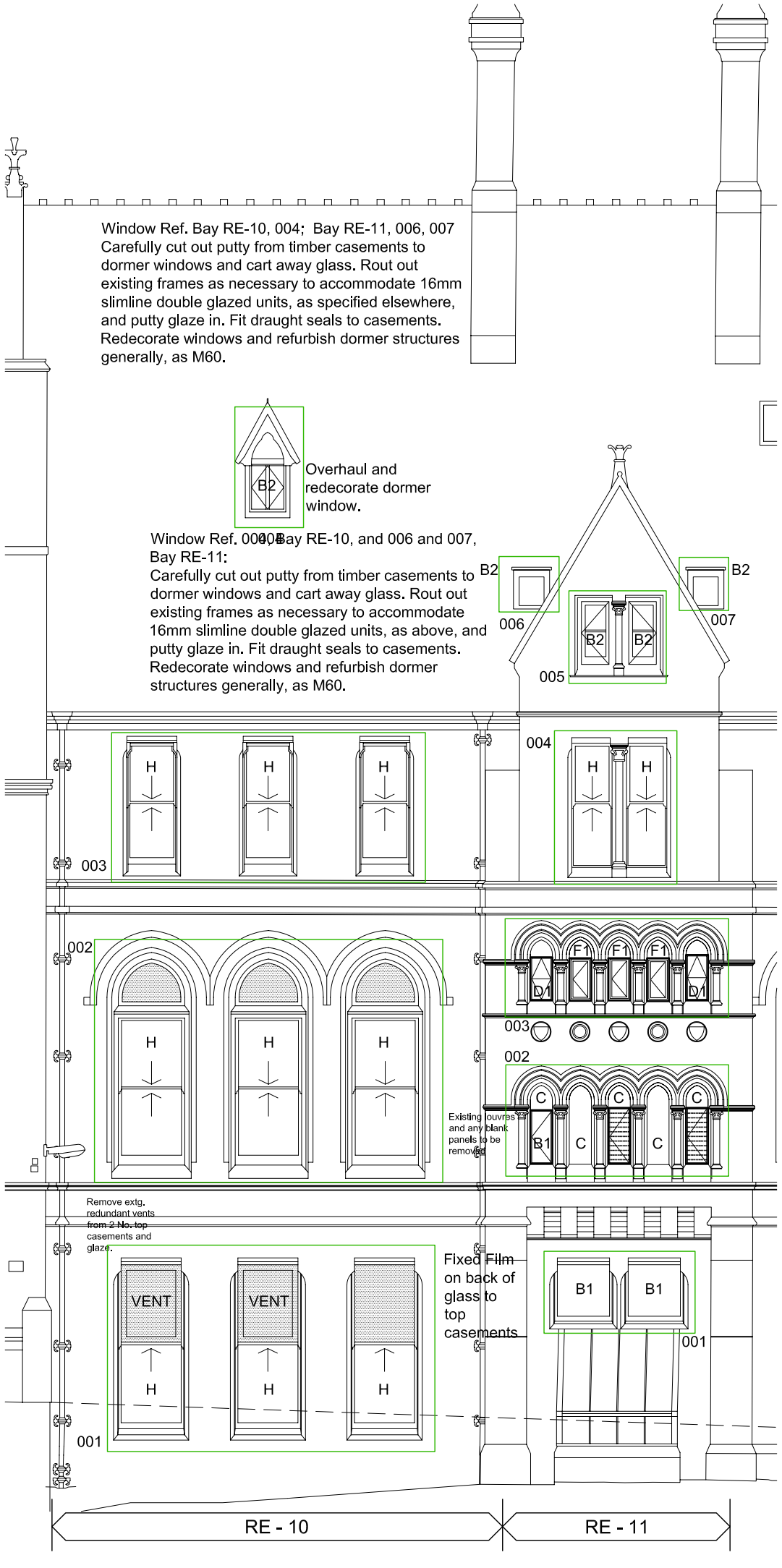


Bay RE-11: Window Ref. 004.
Carefully remove existing external glazing beads to timber casements of vertically sliding sash windows and cart away debris, including existing glazing.
Refurbish frames in situ by carefully cutting out rotten cills / base of sash box linings and splice in new sections, as 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 specified elsewhere, 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. Fix top casements shut to Window Ref. 001.

Bay RE-10: Window Ref. 002
Sash section of composite window (below stone transom) to be refurbished as described above.
Bottom hung inward opening casements above the sashes are above the level of the suspended ceiling, and are to be to be removed from outside and repaired as necessary, including routing out to accommodate slimline double glazed units as described above. Refit casements in existing frames, screw shut, and redecorate as NBS M60. Renew mastic seal between frame and masonry as described above.

Bay RE-11: Window Ref. 001
Carefully remove existing frameless single glazing from stone surround to fanlight over doors. Allow for removal of internal timber beading for subsequent re-fixing / renewal on reinstatement of windows.
Glazing is to be renewed with narrow sightline 16mm sealed double glazed units as described elsewhere, supplied by window system supplier, and glazed into powder coated galvanised steel angles (concealed by the external masonry rebate and timber beads internally) formed to the shape of the rebate at the head, pointed externally with Arbosil XL 1099 mastic sealant, and secured internally with timber beads cut down as necessary and screwed to the reveal masonry.

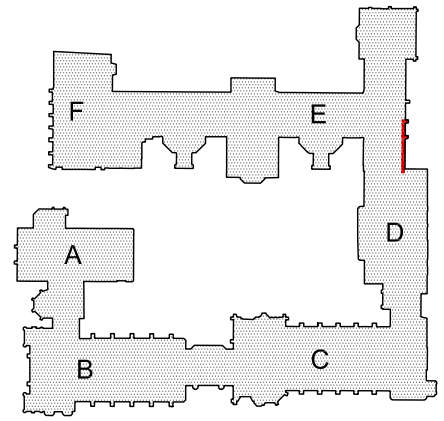
Bay RE-11: Window Ref. 002
Carefully remove existing single glazing to composite arched headed windows, including metal opening lights, from stone surrounds and cart away.
All opening lights are to be replaced with Crittall Corporate 20 Range powder coated galvanised steel windows to accommodate 16mm narrow sightline sealed double glazed units as specified elsewhere, opening pattern of casements and ironmongery to match existing.
Sealed double glazed units to the frameless fixed lights, and glazing over the casements, are to be glazed into powder coated galvanised steel angles (concealed by the external masonry rebate), pointed externally with Arbosil XL 1099 mastic sealant, and secured internally with timber beads cut down as necessary and screwed to the reveal masonry. The sealed double glazed within the shaped heads of the refurbished windows are to be glazed into concealed angles formed to the profile of the stone glazing rebate, pointed externally with Arbosil XL 1099 mastic sealant, and secured internally with timber beads shaped to the profile of the head, all as described above.

Bay RE-11: Window ref. 003
Carefully remove existing single glazed arch headed metal casement windows and cart away. Set aside leaded glazing to left and right hand lights for restoration and reinstatement as described elsewhere.
Supply and fix new Crittall Corporate 20 Range powder coated galvanised steel windows to accommodate 16mm narrow sightline sealed double glazed units as specified elsewhere, opening pattern of casements and ironmongery to match existing. left and right hand lights to be glazed with restored leaded lights.

Bay RE-11: Window Ref. 005
Carefully cut out putty from timber casements and cart away glass. Rout out existing frames as necessary to accommodate slimline double glazed units, as NBS L40/220, and putty glaze in. Fit draught seals to casements. Redecorate windows and refurbish dormer structures generally, as M60.

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 BEYER

PROPOSED WINDOW REPAIRS

Drawing No. WR-31

Contract No. 4106A

Scale 1:100 @ A3

Date 15.01.13

Drawn fds

Revision -

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