derek hunt
ARCHITECTURAL GLASS ARTIST
ACCREDITED CONSERVATOR

D O C U M E N T A T I O N

O F

C O N S E R V A T I O N

ST WULFRAM'S CHURCH, GRANTHAM

® Collective Mark of PACR
Accredited Conservator-Restorers

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SYNOPSIS

Location: St Wulfram's Church, Grantham

Window location: South aisle of NAVE

Windows: Description: Quarry Leaded Glass lancets with tracery above

The window consists of 4 no. 700 x 4500mm vmain lancet lights, with six tracery lights above, fabricated in rolled cathedral pale green glass. There are two opening vents situated at the top of each outer left and righthand lancet, operated by rope pully.

Approximate date of origin: 1870's

Windows made By: Unknown

Date removed: 25th June 2020

Date re-installed: 1st Oct 2020

Conservator: Derek Hunt ACR

(A) CONDITION REPORT

Glass

1. Type of glass.

English rolled cathedral glass

2. Colour.

Pale green

3. Thickness.

2 – 3 mm

4. Damage

Cracks	stress fractures due to vandalism
Shells	stress fractures due to vandalism
Loose fragments	due to impact fractures externally.
Holes	due to impact fractures externally.

Comments: Generally the glass is in good condition with the exception of several cracked of missing sections.

5. Dirt

Dust, algae, patina and slight deposits from saddle bars.

6. Condition of glass surface

Generally the glass surface is in reasonable condition.

7. Structure of surrounding masonry

The surrounding stonework to the jambs and mullions is in good condition, except for an area to one of the mullions and the inside area of the bottom stone sill which has suffered cracking (see PLATE 2). There is no evidence that corrosion of saddle bars has caused blowing of stonework. In addition, a feeble mix lime mortar has been used to fix the windows into the stone rebates.

8. Bars, Ferramenta and Lead Condensation Aprons.

The original wrought iron saddle bars are in reasonable condition. There are existing lead condensation aprons in place. Externally there is a stainless steel powder coated wire guard, which is in good condition.

Leads

1. Type & Width

Outside perimeter lead is 12mm flat, inside leads are 9mm flat. All lead has 3mm narrow heart.

2. Age of lead

Circa. 19th Century.

3. Deterioration of Lead

The lead cames are in poor condition with evidence of stuctur4al bowing to the lead matrix.

4. Breaks at solder joints

There are numerous failed joints.

5. Multiple Leads.

None.

Condition of Panel

1. Bowing

There is evidence of bowing to windows due to the age of the lead work.

2. Copper ties

The copper ties are not securely attached to the lead matrix.

Comments: Generally the panels are in poor condition with sever bowing to the scructure of the leadwork.

B. Previous Restoration/Conservation Work

1. Adhesives

No.

2. Straps

No.

4. Adhesive Tapes

None

5. Releading

There is no evidence the stained glass window has been releaded.

Later Additions

1. Glass

There are no later additions to the window. All glass appears to be original to the window.

2. Plating

No.

3. Applied Coating.

None.

C. Current Conservation Work

1. Cleaning.

Deionised Water	yes
Glass Fibre brushes	yes
Bristle brushes	yes
Scalpel	yes
Airbrasive	no
Abrading Material	no
Soft bristle brush	yes

Comments: The surface mortar dust was carefully removed with a soft bristle brush. There was no evidence of surface pitting and patina to internal or external surfaces of the glass. All cleaning work was kept to a minimum.

2. Repair

The stained glass window was releaded with new lead to match existing.

3. Artificial Filling.

None.

4. Plating.

None.

5. Consolidation by Coating.

None.

6. Edge Bonding.

None

Paint

1. Consolidated Areas

None.

2. New Painting

None

Lead

Releading was carried out to outer perimeter using 12mm flat lead came and to the internal areas with 9mm flat lead manufactured by *Heaps, Arnold & Heaps Ltd* and soldered with 60/40 blowpipe solder manufactured by *Fry's Ltd.* The new lead came was puttied with blackened linseed oil putty to both the internal and external surfaces and cleaned with a sharpened wooden stick and scalpel. The exterior of each panel was hand polished with a soft bristle brush and the interior surface of each panel was left unpolished. New copper ties fitted.

Saddle Bars

Existing saddle bars were cleaned down in situ with wire brushes, primed and painted with suitable satin black metal paint.

Installation

Panels were installed into existing stone apertures using lime putty to match colour of surrounding masonry.

Window Schedule

PLATE 1

Quarry glass leaded window south elevation

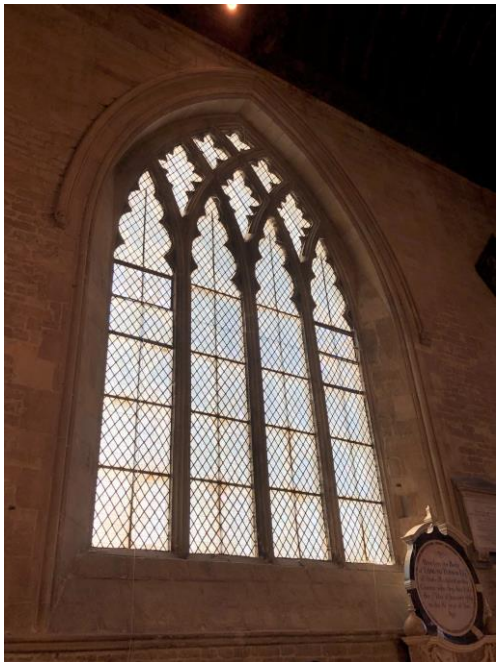

PLATE 2

Example of cracked mullion