

Thornhill St Michael and All Angels
(Anglican Diocese of Leeds)

**Condition Report
on stained & painted glass
and leaded glazing**

sII, sIII, sIV, sV, sVI, sVII, sVIII sIX, sX, sXI
wI
nVI, [nVII], nVIII, nIX, nX
SII-SVIII & NII-NVIII
with outline recommendations

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August 2019

Preliminary notes

This report has also been supplied by We Transfer with 351 images, sorted in files, one for each window.

An inspection of 30 windows, comprising all the leaded glazing and stained glass, with exception of Savile Chapel and chancel east windows was made on 6th July 2019 by Jonathan Cooke ACR at the request of Mr Brian Pearson on behalf of the PCC of St Michael's, during a period of settled dry weather with diurnal temperatures above seasonal averages.

Following much discussion beforehand with Mr Pearson it was agreed that we would inspect all glazing as far as safe and practicable, from ladders, with binoculars and external close access to the clerestory lights from the aisle and chancel roofs.

The purpose of this exercise is to determine as fully as possible without close fixed access the condition of each window, outlining recommended remedial work where appropriate, determining priorities and budget estimates for planning purposes and potential grant applications.

A Churchcare grant has been awarded towards the cost of this report.

Window numbering

The international CVMA numbering system has been used throughout; window positions can be identified from the annotated ground plan. For ease of identification in the text a verbal description of its location within the church has additionally been given for each window.

Ferramenta

All windows are all tied to mild steel external *ferramenta* dating from the G E Street reordering. They are of rectangular section: stanchions all with fleur de lys finials in the body of the nave, scrolled cross detail in nave clerestory, and simple pointed finials in chancel. Dimensions are 7/8" x 1/2" for the stanchions, with knuckled horizontals approximately 3/4" x 1/2". Throughout the report, only the number of horizontals for each individual window is noted, and their condition where relevant.

Lead cills

All windows have lead cills, again dating to the Street restoration.

Guards

All windows in the main body of the church i.e. excluding clerestory lights are protected from external impact by powder coated stainless steel guards in good order, installed at some period between 2000 -2008

Cleaning

Where no specific recommendations are made, all windows would ideally benefit from a careful conservation clean, to remove loose particles, cobwebs and more adherent grime and leached leaded light cement where possible. Deposits created by water action - rain or condensate - can include limescale from render, mortar; and rust from the metalwork.

Sizes

Where stated, these are approximate.

Summary of findings

The building is generally very well maintained, with an ambient heating regime avoiding spikes of temperatures; humidity levels remain high. The church is kept closed, and, although there are large volumes, no form of controllable ventilation is evident.

There is rising ground on the north elevation, and it has been noted in a previous report on the vulnerable c15 glass of the Savile Chapel that the north east corner of the building has been historically damp. The ferramenta of the north wall windows are noticeably more corroded than those on the south.

No major structural issues relating to the glazing were noted, with the exception of the west wall windows sX and sXI, and some of the clerestory lights, particularly those of the north clerestory, where corroded *ferramenta* appear to be the cause of fractured stone around bar sockets. There has been a regular maintenance regime of painting this metalwork where it can be accessed; the problems are on the face adjacent to the glass and in the bar sockets, where it is inaccessible. The problem of the external mild steel *ferramenta* is common to all windows in varying degrees, except those of the Savile Chapel north and east windows and chancel east window (not included in this report) where they have been treated at the time of restoration within the last twenty years. The stanchions of the three north wall windows of the Chapel have been cut short of the stone, presumably to avoid damage to cills, at the time of restoration by York Glaziers Trust c. 1984

Painted detail

There is evidence in several of the windows of past condensation settlement and repair interventions resulting in the loss of pigments; although apparently sound, all painted work should therefore be assumed unstable for purposes of any future restoration.

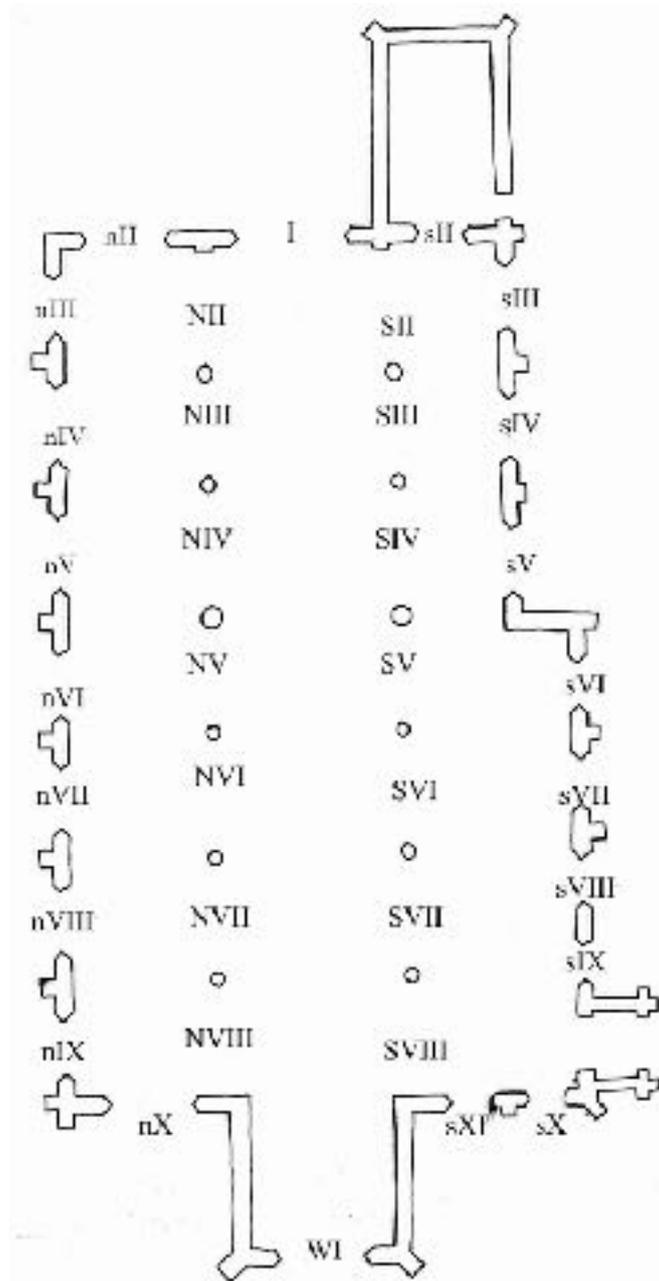
Mortar and masonry

The original late C19 mortar fillet is a hard cementitious mix. Particularly in the clerestory lights, it has failed in places and patch repairs have been carried out. There are also repairs of varying dates on some windows to the cills and hood mouldings, indicating in some places movement of the stonework. This is most evident in, but not limited to sII, and is beyond the scope of this report. No significant damage to the glazing itself was noted, though masonry movement appears responsible for some of the fracturing of the leaded borders, particularly in the clerestory lights.

Recommendations

Recommendations are made throughout the text of the report, in bold. Where no specific recommendations are made, windows should be monitored periodically; perhaps every five years would conveniently coincide with the quinquennial report, using this report, including images, to determine rate of deterioration, if any.

Thornhill St Michael and All Angels: ground plan showing window locations with CVMA numberings - not to scale



Significance of the windows

The windows dating from the last quarter of the nineteenth century and which form the subject of this report were, remarkably, all made by the firm of Burlison and Grylls from the time of the recordering by G E Street onwards.

Moreover, with the exception of a panel of heraldic glass by Henry Gyles displayed in the north choir screen, and the donated glass from York Minster installed in 1953 into a newly glazed west window, Burlison and Grylls also restored all the ancient windows in the church during the Street campaign. These comprise the chancel east window - the subject of a condition report by the present writers in 2000, four windows in the Savile Chapel¹, also the subject of condition reports by the present writers 2008-2011 and other publications relating to their condition²; Burlison and Grylls were also responsible for the arrangements of displaced c15 material into sIV and sV. At the time of writing, the CVMA volume on West Yorkshire has not yet been published. In the absence of this definitive catalogue, the present writers have made observations on the fragments in sIV and sV.

The windows in the present report form five distinct groups;

the textured plain glazing

a series of four windows in the south aisle with angel subjects; rare, possibly unique designs which may have been inspired by an Order of Angels window, now lost, fragments of which are now present in sV

a series of five windows in the north nave depicting a section of the Great Litany (Book of Common Prayer)

an incomplete set of *Te Deum* subjects in the clerestory lights

two windows on the west wall, near the baptistery, depicting subjects associated with Baptism

¹ east window now in store in the chapel, the present window a modern replica

²Conservation Basics: English Heritage Practical Building Conservation series 2013
ISBN 9780754645511

English Heritage Research Dept. Report series no 31-2011 ISSN 1749 8775

St Michael's and All Angels church, Thornhill Dewsbury West Yorkshire; Scientific examination of stained window glass Technology report: David Dungworth, Jonathan Cooke, Ruth Cooke, Richard Jacques and David Martlew

sll south aisle east wall



Description

Three light window six main tracery lights, several eyelet openings
Tinted cathedral quarry glazing with double border, dating to the
Burlison & Grylls restoration for G E Street.
Each main light 16" x 67", in two panels with division at 34" from
cill. Original leads 3/8" flat. Panels tied to external *ferramenta*,
comprising single stanchion and five knuckled horizontals in each
light.

Condition

Structural condition is reasonable. However, leaded light cement is appearing 'frilly' in places, indicating that it is beginning to fail. Ties accessed are holding at present. Panel 1b has been releaded in 3/8" convex leads and panel 2b is not now fully seated on 1b, following reinstallation. Dependent on weather events and microclimate around the building it is possible that this weakness at division could deteriorate in the short to medium term.

Several pressure fractures were noted in the borders, and there appears to have been some masonry settlement in b light. The stonework appears to have been modified, possibly to accommodate/attach a large memorial or monument.

There are unidentified deposits on the external face of the glass - possibly partly the patina formed by the action of rainwater on rusted bars; there is also some black metal paint on the glass around the horizontal bars.

Recommendations

Monitor within the quinquennium for movement of any of the panels and fracturing of ties, which could indicate that remedial action in the form of removal of panel(s) for partial or substantial releading is becoming urgent

sIII south aisle south wall first from east



Twin light window, five principal tracery lights, three small openings
c19 masonry. Tinted cathedral quarry glazing with clear double border, as sII, with rectangular lead matrix in the tracery lights

Each main light 19" x 86". Leads 3/8" flat. Panels tied only to external *ferramenta*, comprising single stanchion and six knuckled horizontals in each light.

Condition

Structurally condition becoming weak, relative to sII. There is some movement of the panels on slight pressure. The leaded light cement is beginning to fail. There are several *in situ* repairs in both main lights. Rust stains on glass mainly around horizontal bars - more pronounced in lower parts of the window

Recommendations

As sII above - monitor visually regularly for increased movement of the panels and fracturing of ties which could indicate the need for remedial action is becoming urgent

sIV and sV

contain c15 fragments, ?York school, as Savile Chapel glazing, which appear to have been displaced from other windows in the church, and reset into these two windows by Burlison and Grylls at the time of the 1877 reordering.

sIV south aisle south wall second from east



Sizes etc.

twin light window, five principal, four further small tracery lights, perpendicular fenestration
Each main light 18" x 84" in two panels, with division at 48" from cill. Quarry glazing 3/8" flat, internal leads to stained glass panels 3/16" and 1/4" flat profile. Panels tied only to external *ferramenta* comprising single stanchion and six horizontals in each light.

Catalogue of glass

a light

upper: fragmentary head and torso of male saint ?St Sebastian³ against a tree, pierced by an arrow

lower: angel musician, possibly displaced from a tracery light

b light

upper: angel head ⁴ above head of ? St George

lower: a dragon-like creature - "a fallen angel depicted as a grotesque winged dog-like creature on a leash..."⁵

Nine tracery lights contain c15 and later stained and painted fragments, including material from nII

All set on a clear cathedral quarry ground c.1877

Condition

Lead matrix all C19; no later interventions were noted other than *in situ* repairs to quarries. Structurally, similar to sIII, with some movement on slight pressure. The tracery lights are distorted and bowing, though all pieces appear secure within the lead comes at present. The c15 paintwork varies in stability; in some pieces only trace lines remain; elsewhere, the paintwork appears intact but should be assumed unstable throughout.

Recommendations

Given the age and condition of the glass: viability due to its composition, its historic significance as part of the important collection of c15 glazing at Thornhill, and the need in the medium term for intervention to address the distorted tracery panels, we would recommend an internally ventilated system of environmental protection to prevent further deterioration of painted surface and substrate. If this were to be carried out before further significant deterioration occurs to the lead matrix, substantial releading should not be necessary. This is a significant consideration both on grounds of cost and risk to the historic glass.

³ Chris Parkinson, April 2019 states this as St Edmund, but the figure is not crowned

⁴ notes for a visit to the church by Friends of the Stained Glass Museum in April 2019, prepared by Chris Parkinson, state this is a Virtue

⁵ Chris Parkinson, April 2019

sV south aisle south wall third from east



Sizes etc.

Twin light window, five principal, seven smaller tracery lights, perpendicular fenestration
Each main light 19" x 86" in two panels, with division at 36" from cill.
Tied to external *ferramenta*, comprising single stanchion and six horizontals in each light. Stainless steel guards, set within sight size apertures; apparently non-ferrous fixings. Leads principally 3/8" flat.

Description

Contains mainly c15 fragments, There is a substantial amount of material identifiable as angelic, possibly from a lost Nine Orders of Angels window: "groups of full-length but now fragmentary figures of angels set beneath canopies. Some wear white linen coifs and others have feathered legs." ⁶

"There is also a group of a dozen smaller heads of religious and lay figures, small angel musicians, many fragments of canopies, a 15th-c shield, and an early 16th-c surround of tightly twisted stems with offspring foliage which originally framed a now lost shield".⁷

Condition

The traceries are distorted and bowing, otherwise structure is apparently in reasonable condition.

There appear to be some in situ repairs, possibly carried out by YGT. There are several reversed pieces throughout; the musician angel leaded panel occupying tracery A3 is entirely reversed. The painted work is as sIV, variable condition and lost in places, to be assumed unstable throughout.

Recommendations

as sIV; the reversed pieces provide supplementary reason for protection.

⁶ This fragmentary material may help explain the unusual choice of subject in the Burlison & Grylls series sVI - sI

⁷Chris Parkinson, April 2019

Windows sVI, sVII, sVIII and sIX form an unusual series of twin light Angel themed windows, each containing four canopied scenes, upper (Old Testament) and lower (New Testament) divided by a roundel depicting one of the orders of angels, against a painted quarry ground. At base, commemorative inscriptions running through both lights

sVI nave south wall first from east



Sizes and technical information

Each light 16" x 92" in two panels with division at 46" from cill. Trefoil tracery 16" maximum width.
Lead cills. Mild steel external *ferramenta* comprising single upright and seven horizontals in each light.
Panels tied to external *ferramenta* only. 3/16" flat leads

Catalogue of glass

1a

John on Patmos, seated, writing. Angel above.
Inscription below, stick worked Lombardic script
Come hither I will show thee the bride (Revelations 21:9)

Roundel: archangel with trumpet: beneath a scroll '*archangeli*'

2a

Daniel kneeling at prie-dieu. Gabriel standing at right, pointing upwards (Daniel 9:21)
Inscription beneath as 1a,
Messiah shall be cut off but not for himself (Daniel 9.26)

1b

Cornelius and the Angel in an interior
Inscription beneath as 1a
[Who] shall tell thee words whereby thou and all thy house shall be saved (Acts 11:14)

Roundel: principality with pennant: beneath a scroll as 1a '*principatii*'

2b

Sacrifice of Isaac. Angel at right, descending
Inscription beneath as 1a
And in thy seed shall all the nations of the earth be blessed (Genesis 22:18)

Commemorative inscription

TO THE GLORY OF GOD. AND IN LOVING/MEMORY OF WILLIAM PORTEE
MADDISON
THE ELDER AND ? HIS WIFE AND OF /WILLIAM PORTEE MADDISON THE
YOUNGER

A1

green flower roundel against stylised vine foliage, white painted border

Condition

Structural condition reasonable. Lead matrix c1880. Ties all apparently secure. Bar deposits on external surface. Internally dusty, and more adherent grime. Painted pigments generally appear sound. Evidence of past condensation damage to areas of thicker paint, notably on the stick worked inscriptions. Several unconsolidated multi-fractured pieces noted, including the face of Daniel in 2a, *b* light commemorative inscription at mullion and possible pressure fracture at 'arcangeli' scroll, which coincides with knuckle of external horizontal bar. Several in borders throughout. Star fractures are characteristic of gravel chipping from lawnmower. None apparently of recent date. All noted are secure within leads at present.

in situ painted repair to inscription from Acts, *b* light, mullion side.

No evidence of damage to masonry around bar sockets. Mortar failing in places. Head of a light has been patched with putty.

Recommendations

Remove and replace putty with soft mortar fillet

sVII nave south wall second from east



Sizes etc

Each light 16" x 92" in two panels with division at 46" from cill.

Pointed trefoil tracery 16" maximum width.

Lead cills. Mild steel external *ferramenta* comprising single upright and seven horizontals in each light. Panels tied to external *ferramenta* only. 3/16" flat leads with exception of 1a, 1/4" convex.

Catalogue of glass

1a

St Peter released from prison by an Angel

Inscription below, stick worked Lombardic script

The Angel of the Lord by night opened the prison doors (Acts 5:19)

Roundel: virtue with spear and axe: beneath a scroll '*virtutis*' (*sic*)

2a

Hagar seated on a rock. Standing angel at left.

Inscription beneath as 1a,

What aileth thee, Hagar? fear not; for God hath heard the voice of the lad (Genesis 21:17)

1b

St Paul on ship, angel standing at right

Inscription beneath as 1a

[For there] stood by me this night the angel of God, whose I am and whom I serve (Acts 27: 23)

Roundel: principality with pennant: beneath a scroll as 1a '*potestates*'

2b

Lot at the city gate of Sodom meeting two angels (Genesis 19:1)

Inscription beneath as 1a

Escape for thy life look not behind thee (Genesis 19:17)

Commemorative inscription

TO THE GLORY OF GOD./THIS WINDOW IS ERECTED
BY SOME MEMBERS/OF THE CONGREGATION

A1 design as sVI A1

Condition

Structural condition reasonable. Lead matrix c1880, with exception of 1a, which has been releaded in 1/4" convex. Ties all apparently secure, including on releaded panel.

One piece of pillar at mullion has been reinstated upside down.

Bar deposits on external surface. Internally dusty, and more adherent grime.

Painted pigments generally appear sound. Evidence of past condensation damage to areas of thicker paint, notably on the stick worked inscriptions, and some due to waterproofing process to 1a following releading.

Several unconsolidated multi-fractured pieces noted. There is an *in situ* painted insertion of extraneous material (fragment of Clayton & Bell inscription, abraded) at the mullion edge of inscription in 1b with loss of text, and some leaf lead repairs throughout.

sVIII nave south wall third from east



Sizes etc.

Each light 16" x 92" in two panels with division at 46" from cill. Quatrefoil tracery 16" maximum width.

Mild steel external *ferramenta* comprising single upright and seven horizontals in each light. Panels tied to external *ferramenta* only. 3/16" flat leads.

Catalogue of glass

1a

Annunciation to the Shepherds; kneeling shepherds with sheep in fold; above, kneeling angel holding scroll, gothic lower case, silver stain capitals

Glory to God in the highest

Inscription below, stick worked Lombardic script (Luke 2:10) which now, due to repairs, reads

[behold,] I bring you good tidings of [great] joy to, [which] shall be to all people

Roundel: seraph with multiple eyes on feathered body and forearms: beneath, a scroll 'seraphim'

2a

The Dream of Jacob: Jacob asleep with head on rock; two angels ascending ladder

Inscription beneath as 1a

ye shall see heaven open and the angels of God ascending and descending upon the Son of man (John 1:51)

1b

Zacharias in the temple, Gabriel standing at right (Luke 1, 11-14)

Inscription beneath as 1a

Thou shalt have joy and gladness and many shall rejoice at his birth (Luke 1:14)

Roundel: cherub: beneath, a scroll as 1a 'cherubim'

2b

Angel appearing to Manoah and his wife

Inscription beneath as 1a

The child shall be a Nazarite unto God (Judges 13:5)

Commemorative inscription

TO THE GLORY OF GOD AND IN MEMORY OF THE/SANDERSON FAMILY WHO FOR MANY YEARS OCCUPIED THORNHILL HALL FARM THIS WINDOW/ IS ERECTED BY JOSHUA WHITAKER OF OSSETT 1878

A1 angel holding scroll, gothic lower case, *O praise the Lord*

Condition

Structural condition reasonable. Lead matrix c1880. Ties all apparently secure.

Bar deposits on external surface. Internally dusty, and more adherent grime.

Painted pigments generally appear sound. Evidence of past condensation damage to areas of thicker paint, notably on the stick worked inscriptions.

Several unconsolidated multi-fractured pieces and *in situ* inferior repairs to inscriptions

sIX nave south wall westernmost



Sizes etc.

Each light 16" x 92" in two panels with division at 46" from cill.

Quatrefoil tracery 16" maximum width.

Mild steel external *ferramenta* comprising single upright and seven horizontals in each light. Panels tied to external *ferramenta* only. 3/16" flat leads

Catalogue of glass

1a

The binding of Satan: Archangel St Michael in armour and cope, with key and large chain, standing on green dragon with flames beneath

Inscription below, stick worked Lombardic script

He laid hold of the dragon, that old serpent (Revelation 20:2)

Roundel: throne holding a tower : beneath, a scroll '*throni*'

2a

The destroying Angel

Araunah's threshingfloor at base, Jerusalem in background; restraining hand of God seen through stylised cloud

Inscription beneath as 1a

it is enough: stay now thy (sic) hand (2 Samuel 24:16)

1b

Death of Lazarus

Inscription beneath as 1a

was carried by the angels into Abrahams bosom (Luke 16:22)

Roundel: ?dominion with sceptre and sword : beneath, a scroll as 1a; ? appears to read "duaciones"

2b

Tobias and the Angel

Raphael holding Tobias' hand as they walk along a road with lush vegetation, dog beside them, Tobias with fish.

Inscription beneath as 1a

The good angel will keep him company and his journey shall be prosperous (Tobit 5:21)

Commemorative inscription

TO THE GLORY OF GOD AND IN/ MEMORY OF SARA WHITAKER THIS
WINDOW IS ERECTED BY HER HUSBAND/JOSHUA WHITAKER OF OSSET 1878

A1 angel holding scroll, gothic lower case, *ye angels of his*

Condition

Structural condition reasonable. Lead matrix c1880, ties all apparently secure

Bar deposits on external surface. Internally dusty, and more adherent grime.

Painted pigments generally appear sound. Evidence of past condensation damage to areas of thicker paint, notably on the stick worked inscriptions.

Several unconsolidated multi-fractured pieces noted. The lower part of the figure of Michael in 1a is an *in situ* painted repair, as is an area at the top of 1b, jamb side.

sX and sXI form a pair of twin light windows with quatrefoil traceries, of same configuration and similar composition. In the vicinity of the font, the subjects of these two windows are associated with Baptism.

sX south aisle west wall south

N.B. Close access restricted internally on height - now above internal porch - ladder access not possible, nor externally due to large shrub.



Sizes etc

Each light 15" x 107" in three panels, with divisions at 30" and 76" from cill.

The original leads are 3/16" flat, significant releading:

Panel 1b now 3/16" convex

Panels 2b and 3b now 1/4" convex

Panel 2a has been partially reled in 3/16" and 1/4" convex

Panels tied solely to external *ferramenta* which comprise a single stanchion and eight knuckled horizontals.

Catalogue of glass

a light: main subject in 2a standing figure of St John Baptist holding a crossed staff in right hand, architectural canopy treatment.

1a painted quarries with oak leaf and other foliar motifs

1c continuation of canopy into head of light; painted quarry ground

b light: as *a* light with standing figure of St Philip as deacon, holding book in right and martyr's palm in left hand.

Commemorative inscription running through base of both lights not easily accessible, damaged and partially illegible.

TO THE GLORY ...AND IN MEMORY OF MATTHEW BOOTH THORNTON M.D AND THORNTON GRANDPARENTS... THORNTON HIS PA...

A1 green flower roundel against stylised vine foliage

Condition

Structurally, the lower parts of both lights are in reasonable condition. All accessible ties were holding. Heads of main lights and tracery not accessed. Given condition of heads in adjacent window sXI, of similar date on the same elevation, (please see below) it is possible that these could be weak. *b* light panels appear to have been removed at different times and are not seated correctly. *b* light now contains a high proportion of later repair work of inferior quality. There are many further unsecured fractures; some holed pieces. The original painted pigments are lost throughout in places, and elsewhere should be assumed unstable. This severe loss of detail is the result of past water damage from condensation settlement, possibly on underfired paint, and probably aggravated by abrasion during the waterproofing process in those panels which have been reled. There is also much disfiguring dust and more adherent grime on the internal surface, and bar deposits and trapped debris on the outside.

Recommendations: further inspection of upper parts of both lights and tracery as access becomes available. Possible need for removal for joint strengthening or substantial releading of these panels

sXI south aisle west wall north

N.B. Close access restricted internally and externally on height



Sizes and technical information

Each light 15" x 107" in three panels, with divisions at 30" and 76" from cill.

The original leads are 3/16" flat, significant amount of releading:

Panel 1a now 1/4" convex

Panel 2a now 1/4" convex

Panel 1b now 1/4" convex

Panels tied solely to external *ferramenta* which comprise a single stanchion and eight knuckled horizontals.

Catalogue of glass

a light: main subject in 2a standing figure of Noah holding a model ark, architectural canopy treatment. Much repair, detracting from original design

1a painted quarries with oak leaf and other foliar motifs

1c continuation of canopy into head of light: painted quarry ground

b light: as *a* light with standing figure of Moses, also disfigured by inferior painted repairs, holding tablets with Ten Commandments

Commemorative inscription running through base of both lights is an extremely poor replacement, difficult to decipher, and word order scrambled by an illiterate glazier.
AND CAROLINE JOHN?? AND CHARLES THIS WINDOW WAS DEDICATED BY
WILLIAM THORNTON HIS SISTER AND BROTHERS MD JP MDCCCLXXVII.

A1, as sX, A1

Condition

Structurally, the lower parts of both lights are in reasonable condition. Much repair as noted above. All accessible ties were holding. Heads of both main lights - panels 3a and 3b were 'rattly' to the touch; tracery not accessed. There are many further unsecured fractures; some holed pieces. The original painted pigments are lost throughout in places, and elsewhere should be assumed unstable. This severe loss of detail is the result of past water damage from condensation settlement, possibly on underfired paint and probably aggravated by abrasion during the waterproofing process in 1a, 2a and 1b (i.e those reled). There is also much disfiguring dust and more adherent grime on the internal surface, and bar deposits and trapped debris on the outside.

Recommendations; as sX above

w1 tower west wall

N.B. access severely restricted on height



Sizes etc.

three light window, each 23" x 124" in four panels, divisions at 37", 80" and 108" from sill. Six principal traceries and five eyelets. Float glass quarry glazed in 3/8" convex leads. The panels of stained glass fragments are leaded in 1/4" and 3/16" convex leads. Tied only to external *ferramenta*, comprising one stanchion and eight horizontals per light.

catalogue of glass

a and c lights each incorporate a rectangular panel and two roundels of extraneous mainly c14 -15 and later painted material

b light two rectangular panels and single roundel of similar glass

The medieval material is said to have been gifted by Dean Milner White in 1953, and comprises an arrangement of fragments from York Minster.⁸ The leadwork of the clear quarry setting appears to be consistent with this date.

Condition

Many *in situ* unpainted repairs to the collection of fragments and to the quarry glazing alike. Otherwise the structural condition is sound. All ties visible appear to be in place. Leaded light cement appears sound in lower accessed parts of the window. There is at least one piece double plated with a small collection of early glass within. There is a significant amount of corrosion on the internal face of much of the stained glass, and microbial growths which could be active.

Recommendations

When access allows, a further inspection of this window would be prudent.

Despite the high number of replacement pieces, environmental protection could be considered for the panels containing vulnerable medieval glass.

⁸ This information appears in Leslie Jones' unpublished B Phil dissertation of 1971, and may have been a personal communication to him from Peter Newton. In 2008, Peter Young, Archivist to the Dean and Chapter, confirmed to us that he could not identify any material relevant to Thornhill in the Milner-White papers held at York, though some of his papers were at King's College, Cambridge

nX, nIX, nVIII, nVII and nVI form a series based on verses from the Great Litany (BCP)

Each contain canopied scenes, beneath are painted quarries with floral motifs with citation. divided by a roundel depicting one of the orders of angels, against a painted quarry ground. At base, commemorative inscriptions running through both lights

nX north aisle west wall window

N.B. traceries not closely accessed



sizes etc.

Three light window, a and c lights each 16" x 80", b light 18" x 80", each in three panels; divisions at 14" and 54" from cill in each of a and c lights, and at 23" and 54" from cill in b light. two quatrefoil and single trefoil tracery with multiple eyelets. Leads are predominantly 3/16" flat, original. Tied to external ferramenta only.

Catalogue of glass

a light

principal subject in 2a a prelapsarian depiction of Adam and Eve, with lion and lamb together in Eden, canopy treatment with part of Litany verse beneath in stickworked lombardic script BY THE MYSTERY; set on a ground of painted quarries with foliar motifs in panel 1a

b light

principal subject in 2b The Annunciation, canopy treatment with part of Litany text beneath, lettering as noted above OF THY HOLY INCARNATION, set on ground of painted quarries inset with half figure of Isaiah on a blue ground holding scroll text, gothic script, *Behold a virgin shall conceive & bear a son*

c light

principal subject in 2c The Expulsion from Eden, canopy treatment as above with part of Litany beneath, lettering as noted above GOOD LORD DELIVER US, set on ground of painted quarries in 1c as 1a.

commemorative inscription at base running through all three lights is largely indecipherable due to dirt and severe pigment loss in places.

Condition

Structural condition becoming weak. There are leaf lead repairs in all lights. A2 is severely distorted with glass protruding from leads, and a leaf lead has become detached.

In panel 2b daylight is visible, possibly indicative of movement in the masonry. There is a step in the south mullion and adjacent pressure fracture in the pillar border in 2b. This may warrant further investigation and the condition of this window should be monitored.

nIX north aisle north wall westernmost



Sizes

Twin light, each 16" x 43", principal quatrefoil tracery 16" maximum width. Original leads 3/16" flat. Tied only to external *ferramenta*, comprising single stanchion and three horizontals.

Catalogue of glass

1a Nativity with angels, canopied. At base a wide scroll held at each end by kneeling angel, gothic lower case script, silver stain to capitals: *By thy holy Nativity and*

2a Presentation, canopied. At base scroll with angels as 1a, *Circumcision Good Lord deliver us*

A1 contains angel bearing scroll; upper part of figure part of scroll including first four words are replacement *Thou shall [sic] Call his name Jesus*

Commemorative inscription at base indecipherable due to pigment loss, breakage and dirt deposits

Condition

Despite a number of interesting painted *in situ* repairs, particularly in b light, the panels are reasonably sound. The leaded light cement appears in reasonable condition and ties appear to be holding. Pigment loss is severe in places and should elsewhere be considered unstable. There is an unconsolidated star fracture with holed area to the face of Mary: an unidentified substance, probably linseed oil putty, has been applied to the internal surface of the holed area. Externally there is a significant amount of debris trapped between the glass and the guard.

nVIII north aisle north wall second from west



Twin light, each 16" x 43, principal trefoil trefoil tracery 16" max. Original leads 3/16" flat.

Catalogue of glass

a pair with nIX

1a Baptism of Christ, canopied. At base scroll with angels as nIX 1a *By thy Baptism, Fasting and*

1b Temptation of Christ, canopied. At base scroll with angels as above *Temptation Good Lord deliver us*

A1 contains angel bearing scroll; *Tempted like as we are yet without sin*

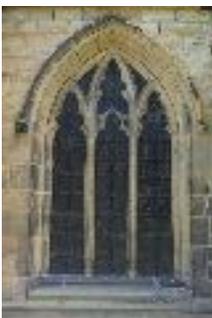
Inscription at base: *My Son if thou come to serve the Lord / prepare thy soul for temptation*

Condition

Lead matrix all original; no later interventions noted. Structurally in reasonable condition Pigments lost and unstable, condition most marked at base.

[nVII north aisle north wall third from west]

N.B.behind organ: not accessed on this occasion



During the organ restoration in 2013 we were asked by Mr Pearson to inspect the window while there was some restricted access to parts of the window. Nothing of immediate concern was noted at that time. Panels are tied to external *ferramenta* comprising single stanchion and seven horizontals in each light.

External visual inspection only on this occasion: the window appears to be reasonably sound, but close access not possible due to presence of guard.

Composition appears similar to nX, with quarry ground at base. outline subjects appear as Gethsemane, Crucifixion and Deposition and text is assumed to be *By thine Agony and bloody Sweat; by thy Cross and Passion; by thy precious Death and Burial*

nVI north aisle north wall fourth from west



Sizes

three light window with three principal tracery lights. a and c lights each 16" x 91", b light 16" x 80", all in three panels with divisions at 19" and 66" from cill.

Catalogue of glass

a light

principal subject in 2a The Resurrection, canopy treatment with part of Litany verse beneath in stickworked lombardic script BY THY GLORIOUS RESURRECTION ; set on a ground of painted quarries with oak leaf motifs, and central green floral roundel in panel 1a

Part of commemorative inscription at base: LAURA ELLEN LIPSCOMB OBDORMAVIT

b light

principal subject in 2b The Ascension, canopy treatment with part of Litany text beneath, lettering as noted above AND ASCENSION AND BY THE, set on ground of painted quarries I as 1a

Part of commemorative inscription at base: MAII DIE XVII^{MO} AD 1873 CONJUX MOERENS

c light

principal subject in 2c Pentecost, canopy treatment as above with part of Litany beneath, lettering as noted above COMING OF THE HOLY GHOST, set on ground of painted quarries in 1c as in 1a.

Part of commemorative inscription at base: HANC MEMORIAM PONENDAM CURAVIT

Traceries have foliar patterns on stick worked ground, central green floral roundel in A1

Condition

Lead matrix original; structural condition reasonable at present. No later interventions with exception of a leaf lead repair at base of 1c, jamb side were noted.

One unconsolidated multi-fractured and holed piece of red drapery at base of 1b was noted - some shelling. All pieces still held within leads; further shelling may occur.

Recommendations

Consolidation of fractured piece *in situ* to prevent further loss

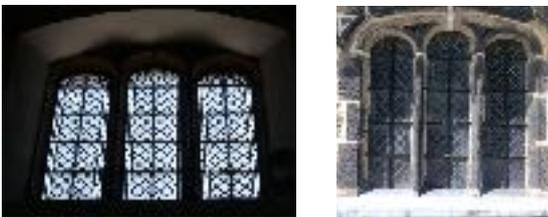
CLERESTORY

The nave and chancel clerestory lights, also by Burlison and Grylls and dating to the period following the reordering c 1880-1906, form an incomplete series of *Te Deum* subjects.

NI, NIII and NIV (north chancel first, second and third from east) depict nine Martyr saints
SIV (south chancel third from east) represents *the Holy Church throughout the world*. In SVIII, (south nave westernmost), three apostles are represented, and **the *Fellowship of the Prophets* is illustrated by six minor prophets in NVII and NVIII (nave north clerestory second and first from west)**

N.B. As noted in our quotation for this report *q.v.*, all clerestory lights were closely accessed externally only from aisle and chancel roofs, as ladder access was assessed as not possible from inside the building on grounds of height.

SII chancel south first from east



Sizes etc.

Three light, shallow arched tops. Tinted cathedral quarry glazing with clear double border, as SII.

a and c lights 16" x 55", b light 16" x 57". Leads 3/8" flat. Panels tied only to external *ferramenta*, comprising single stanchion with simple pointed finial and four knuckled horizontals in each light.

Condition

The lead matrix is original to the glazing; perimeter leads and borders are being pulled apart on a light, mullion side, and leaded light cement is becoming powdery. Ties are holding at present. There are two *in situ* repairs in a light in clear textured glass.

Recommendations

Reinspect within the quinquennium, for indication of further movement or fracturing of leads, and specifically in the areas mentioned above

SIII chancel south second from east



All sizes etc. as SII. The condition of the leaded border in a and b light, mullion side, is rather worse than in SII above. No later interventions noted.

Recommendations as SII

SIV chancel south third from east

Three light window, shallow arched tops.



Sizes etc.

a and c lights 16" x 55", b light 16" x 57". a and c lights each have mild steel hopper as base panel, 12" high. Lead matrix is original to glazing, 3/8" flat. Each light is tied to external *ferramenta*, comprising single stanchion with simple pointed finial and four horizontals.

Catalogue of glass

predominantly white glasses, silver stain.

a light: standing figure of St Gregory, facing half left, with triple crown and double crossed staff in right hand, book in left, tiled floor, beneath is name scroll "St Gregory" in gothic script. A painted border of annulets. At base part of the commemorative inscription which runs through all three lights in script as above: *In loving memory of* All on a ground of repeat painted quarries with ornate cross motif.

b light: standing figure of St Frideswide, crozier in right hand, church in left, design all as a light. At base part of the commemorative inscription *Joshua Ingham Brooke*

c light: standing figure of St Augustine, crossed staff in right hand, book in left, design all as a light. At base part of the commemorative inscription *Rector 1867 to 1889*.

Condition

The lead matrix is original to the glazing; reasonable condition. All ties holding and leaded light cement condition better than that in adjacent SII and SIII above. However, the mortar is failing in places, notably, but not limited to, around the hopper in base of a light, and at the bar socket above the hopper in c light on jamb. The hoppers are corroded, and almost certainly inoperable. Several inferior painted repairs in a light at border, mullion side.

SV nave south first from east



Sizes etc.

Three light window, main lights single-cusped, large shallow-lobed quatrefoil principal tracery, two small traceries

a and c lights 18" x 47", b light 16" x 46". Each in two panels with division at 39" from cill. Lead cills. Quatrefoil 33" x 26" max. Tinted cathedral diamond quarry glazing with double border, with rectangular quarries in the tracery lights, dating to the Burlison & Grylls restoration for G E Street. Original leads 3/8" flat. Panels tied to external *ferramenta*, comprising single stanchion, pointed finial with scrolled cross piece, and three knuckled horizontals in each main light.

Condition

The large tracery has been releaded in 3/8" flat leads within the last 50 or so years, elsewhere lead matrix original to the glazing; no later interventions were noted. Ties are all holding; leaded light cement becoming powdery, as SII. There is some stretching of the leads at base of a light, jamb and mullion sides, also mullion side of c light; this is perhaps due to stone movement in combination with strong cementitious mortar. Beyond the scope of this report, masonry movement appears to be the cause of mortar loss from stone joints.

Recommendation

Reinspect within the quinquennium, for indication of further movement or fracturing of leads, and specifically in the areas mentioned above

SVI nave south second from east



Sizes etc.

three light window, main lights single-cusped, three principal traceries and further eyelets. Each main light 16" x 51" with division at 39" from cill. Tinted cathedral diamond quarry glazing with double border; rectangular quarries in the tracery lights, dating to the Burlison and Grylls restoration for G E Street. Leads 3/8" flat. Main lights tied to external *ferramenta*, comprising single stanchion and three horizontals in each main light.

Condition

Lead matrix is original to glazing; no later interventions were noted. Ties are all holding. There is some mortar failure due to stone movement, notably in the head of c light, and leads are stretched at base of a on both jamb and mullion side, and at base of c light, mullion side; less pronounced than on SV C2 mouchette tracery is folding along a vertical line of weakness.

Recommendation

Reinspect within the quinquennium, for indication of further movement or any fracturing of leads, specifically in the areas mentioned above

SVII nave south third from east



Sizes etc.

three light window, main lights single-cusped, three traceries, comprises two trefoils and smaller quatrefoil at apex. Each main light 16" x 52" with division at 39" from cill. Tinted cathedral diamond quarry glazing with double border, rectangular quarries in the tracery lights; dating to the Burlison and Grylls restoration for G E Street. Leads 3/8" flat. Main lights tied to external *ferramenta*, comprising single stanchion as SV and three horizontal in each main light.

Condition

Lead matrix is original to glazing; two in situ repairs, one in each of a and c lights. Ties are all holding. There is some movement in the stone, and recent mortar repair work to joints, most noticeable in heads of main lights. Leaded light cement becoming powdery. Leads are stretching, as in SV and SVI mainly at jamb side of c light.

Recommendation

Reinspect within the quinquennium, for indication of further movement or fracturing of leads, and specifically in the areas mentioned above

SVIII nave south fourth from east



Sizes etc.

Three light window with large quatrefoil principal tracery light. a and c lights 16" x 63", b light 16" x 49", each in two panels with division at 39" from cill. Quatrefoil tracery 28" max. width, in two panels, with horizontal external glazing bar 3/8" square section mild steel at division. Lead matrix is original to glazing, predominantly 3/16" flat. Each light is tied to external *ferramenta*, comprising single stanchion as SV and three horizontals.

Catalogue of glass

a light: standing figure of St Jude, facing half left, with open book in right hand, unidentified attribute in left: tiled floor, ruby dorsal curtain, seaweed diaper with jewelled border: beneath is name scroll "St Jude" in gothic script. Above the figure is a scroll *Earnestly contend for the faith which was once delivered unto the saints*⁹ All on a ground of white glass, silver stain; repeat painted quarries.

b light: standing figure of St Simon, saw in right hand, open book in left, design all as a light; blue dorsal curtain. Above figure, scroll, as a light *Jesus Christ himself being the chief corner stone*¹⁰ blue dorsal curtain Above figure, scroll as a light

c light: standing figure of Mathias, scroll as above in right hand, *Ordained to be a witness with us of his Resurrection*¹¹, lance in left, design all as a light.

A1 tracery contains three kneeling angels on a ground of flowers holding scroll as above *The glorious Company of the Apostles praise thee*. All white glass, silver stained.

Condition

The lead matrix is original to the glazing; three *in situ* painted repairs were noted; one in a light, and two in c light. Main lights are in reasonable condition. All ties holding. Tracery is bowed to the interior; ties here on central horizontal bar are still holding at present

Recommendations

Monitor tracery, specifically for the appearance of any fractured ties

⁹ Jude 1:3

¹⁰ Ephesians 2:20

¹¹ Acts 1:22

NII north chancel first from east



Sizes etc.

Three light window, shallow arched tops.

a and c lights 16" x 55", b light 16" x 57" in two panels with division at 12" from cill. Lead matrix is original to glazing, 3/16" flat. Each light is tied to external *ferramenta*, comprising single stanchion with simple pointed finial and four horizontals.

Catalogue of glass

predominantly white glasses, silver stain; design as SIV

a light: standing figure of St Oswald in armour, facing half left, crowned, with sceptre in left hand, raven bearing ring in beak on right shoulder, set on ground of flowers and foliage; beneath is name scroll "St Oswald" in gothic script. A painted border of annulets.

All on a ground of repeat painted quarries with ornate cross motif.

b light: standing figure of St Ursula, holding arrow pointing down in right hand, closed book in left, design all as a light.

c light: standing figure of St Edmund, crowned; crossed orb in right hand, three arrows pointing upwards in left, design all as a light.

Condition

The lead matrix is original to the glazing; no later interventions were noted; reasonable condition. All ties holding: leaded light cement 'frilly' in places and lost in small areas. Beyond the scope of this report, there is much patch pointing externally to the hood moulding around this window. The *ferramenta* appear corroded; there is also much patch pointing around the bar sockets which conceals any underlying problem. There is some paint loss, particularly to inscriptions at base of window, indicating past condensation action on possibly underfired paint

NIII north chancel second from east



Sizes etc

Three light window, shallow arched tops.

a and c lights 16" x 55", b light 16" x 57" in two panels with division at 12" from cill; a light has opening hopper vent. Lead matrix is original to glazing, 3/16" flat. Each light is tied to external *ferramenta*, comprising single stanchion with simple pointed finial and four horizontals.

Catalogue of glass

predominantly white glasses, silver stain; design as SIV

a light: standing figure of St Catherine facing half left, nimbed and crowned, with sword in left hand, half standing on wheel on a landscape ground; beneath is name scroll "S Catherine" in gothic script. A painted border of annulets.

All on a ground of repeat painted quarries with ornate cross motif.

At base part of commemorative inscription running through all main lights: gothic script as above

Ad majorem Dei gloriam hanc

b light: standing figure of St Sebastian, bound by hands and feet to a tree trunk, pierced by nine arrows; beneath is name scroll "St Sebastian"; other design elements as a light. At base part of commemorative inscription *fenestra podenda curant fratres [fra...?]*

c light: standing figure of St Agnes, nimbed and garlanded, holding closed book in right hand, martyr's palm in left.; beneath is name scroll "S Agnes" in gothic script. At base is part of commemorative inscription *gratias agentes A D mdccclxxxiii*

Condition

Leaded light cement becoming frilly throughout, and lost in places, as NII. The hopper is corroded and probably inoperable. *Ferramenta* also corroded. There is an unconsolidated multi fractured piece of drapery of a light, jamb side. Pigment loss is particularly evident in the commemorative inscription at base

Recommendations

Consolidation of fractured piece *in situ* to prevent further loss.

NIV north chancel third from east



Sizes etc

Three light window, shallow arched tops.

a and c lights 16" x 55", b light 16" x 57" in two panels with division at 12" from cill; a light has opening hopper vent. Lead matrix is original to glazing, 3/16" flat. Each light is tied to external *ferramenta*, comprising single stanchion with simple pointed finial and four horizontals.

Catalogue of glass

design all as adjacent NIII

a light: standing figure of St Stephen facing half left, closed book in right hand, left supporting stones in lap on a landscape ground; beneath is name scroll "Saint Stephen" in gothic script. A painted border of annulets.

All on a ground of repeat painted quarries with ornate cross motif.

b light: standing figure of St George, in armour and short cloak, holding lance in both hands, standing on dragon; beneath is name scroll "St George"; other design elements as a light.¹²

c light: standing figure of St Alban in armour and long cloak, holding raised sword in right hand, small wooden canopied cross in left.; beneath is name scroll "Saint Alban" in gothic script.

Condition

Leaded light cement beginning to fail. The hopper is corroded and probably inoperable. *Ferramenta* also corroded; appears to be cause of damage to mullion at lowest bar socket, eastern side of b light. Much patch repair to masonry in hood mould in ?lime mortar, and around bar sockets of various dates and materials indicative of ongoing movement. There appears to be some movement of the mullion between b and c lights which could be linked to some ongoing mortar failure. One tie has failed. Stretching of leads at base of c light, mullion side, and daylight can be seen between perimeter lead and masonry. Pigment loss is particularly evident in the commemorative inscription at base

Recommendation

Reinspect within the quinquennium, for indication of further movement and fracturing leads

¹² the face may be a portrait - the treatment of the features differs from others in this series

NV north nave first from east



Sizes etc.

A pair with SV: three light window, main lights single-cusped, large shallow-lobed quatrefoil principal tracery, two small traceries
a and c lights 18" x 47", b light 16" x 46". Each in two panels with division at 39" from cill. Lead cills. Quatrefoil 33" x 26" max. Tinted cathedral diamond quarry glazing with double border, with rectangular quarries in the tracery lights, dating to the Burlison & Grylls restoration for G E Street. Original leads 3/8" flat. Panels tied to external *ferramenta*, comprising single stanchion, pointed finial with scrolled cross piece, and three knuckled horizontals in each main light.

Condition

The large tracery has been releaded in 3/8" flat leads within the last 50 or so years, and probably at the same time as that in SV. Elsewhere lead matrix is original to the glazing; no later interventions were noted. Leads are more oxidised than those of SV on south side of the church. Ties are all holding; the mortar is fractured in places.

NVI north nave first from east



Sizes etc

A pair with SVI: three light window, main lights single-cusped, three principal traceries and further eyelets. Each main light 16" x 51" with division at 39" from cill. Tinted cathedral diamond quarry glazing with double border; rectangular quarries in the tracery lights. Leads 3/8" flat. Main lights tied to external *ferramenta*, comprising single stanchion as SV and three horizontal in each main light.

Condition

lead matrix original to glazing; no later interventions were noted, other than in situ repairs. There are three broken quarries at base of c light, and the leads are stretched in places. Ties are all holding. The three principal tracery lights are distorted, and bowing along lines of weakness.

Recommendations

Reinspect within the quinquennium, for indication of further movement or fracturing of leads, and specifically in the areas mentioned above

NVII north nave second from east



Sizes etc

three light window, main lights single-cusped, three traceries, comprising two trefoils and smaller quatrefoil at apex. Each main light 16" x 52" with division at 39" from cill.

Catalogue of glass

predominant use of white glass, silver stained

a light Obadiah, seated in an interior with tiled floor, facing left. On pedestal with name. Holding Torah scroll in left arm and ? quill in right hand; dorsal curtain. Scroll around head *Upon mount Zion shall be deliverance and there shall be holi[ness]* Painted quarries above with intricate cross design. At base, part of commemorative inscription

To the Glory of God and in loving

b light

Jonah, standing against a green foliar ground on a stylised mound with foliage and flowers. Design otherwise all as a light. Holding scroll in right hand which encircles his head *But hast thou brought up my life from corruption O Lord my God* At base, part of commemorative inscription

memory of John Ellis Greenwood

c light

Standing figure of Micah, tiled floor, all as a light. Torah scroll in left hand, right raised in blessing. Scroll around head *I will look unto the Lord I will wait for the God of my salvation* At base, part of commemorative inscription

and Elizabeth his wife and ¹³

A1 kneeling angel (head is replacement) holding scroll:

The goodly Fellowship of

A2 design as A1. Original angel head has crossed diadem, text on scroll:

Prophets praise thee

B1 double rose set on 'glory' rays

Condition

Leadwork to main lights is original and in reasonable condition; though leaded light cement now powdery and failing, ties holding. Externally there have been patch mortar repairs, and mortar is continuing to fracture and fail in places. Tracery A1 has been releaded in convex leads, with several new painted pieces, including the top lobe containing the angel's face, and is now plated, presumably for colour. There appears to be debris and organic matter in the interspace, though details of this panel are difficult to determine beyond doubt as close inspection was limited to external surface. In other lights, relative to most other windows with exception of NVIII (see below), there is rather more dirt and adherent grime on the external surface, most noticeable around the third horizontal from cill in b light. As elsewhere, painted pigments should be assumed unstable.

¹³ there is a further row of writing which is not visible from the body of the church

NVIII north nave third from east



Sizes etc.

Three light window with large quatrefoil principal tracery light. a and c lights 16" x 63", b light 16" x 49", each in two panels with division at 39" from cill. Quatrefoil tracery 28" max. width. Original lead matrix of main lights is predominantly 3/16" flat, tracery now 1/4" convex. Each light is tied to external *ferramenta*, comprising single stanchion and three horizontals.

Catalogue of glass

a light Hosea, standing in an interior with tiled floor, facing left. On pedestal with name. blue dorsal curtain, seaweed diaper. Holding scroll in left hand *On the third day he will raise us up* Painted quarries above: intricate cross and starburst designs.

b light

Joel, standing in an interior with tiled floor, pedestal with name, ruby dorsal curtain, design all as a light. Holding scroll in left hand *The Lord will be the hope of his people*

c light

Standing figure of Amos, tiled floor, blue dorsal curtain all as a light. Scroll in left hand *Seek the Lord and ye shall live*

A1 three angels holding scroll *The goodly fellowship of the prophets*

Condition

Original lead matrix in reasonable condition; all ties holding though leaded light cement becoming powdery. The tracery, as SVIII, of same shape and size has been releaded, with more than 50% replacement glass. The aperture is arguably too wide at 28" at height to support such a panel. The replacement glass has been plated with textured green glass for colour match, and this will add to the weight of the panel, which remains unsupported. The waterproofing process has further removed fugitive painted detail on the original pieces.

Several *in situ* repairs were noted in the main lights: moreover, it would appear that a white putty has been used to patch failed leaded light cement in places, possibly in response to leakage.

There is much dirt, grime and debris on the external face of this glass, some possibly windblown, which might explain the greater concentration on this and adjacent NVII.

Recommendations

Reinspect main lights within the quinquennium, including the structural stability of the tracery. Although releaded, the evidence of this and SVIII suggests these wide panels at height are vulnerable, this the more so as no supporting bar.

Summary of recommendations

Ancient glass in sIV and sV [also w1]: consideration of introduction of environmental protection

Further inspection of upper registers of sX and sXI, where remedial intervention may be becoming urgent

Regular monitoring of sII and sIII for indications of deterioration in structural condition

Regular monitoring of all clerestory lights: specific attention to where panels are noted as distorted and/or leads stretched or there is evidence of repeated mortar failure, and the two large quatrefoil traceries in SVIII and NVIII

In situ temporary consolidation of holed stained and painted pieces in NIII and nVI to prevent further loss