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St Marys Anglican Church Chard

Church St

Chard

Somerset

TA20 2DN

Sunday, January 21, 2024

Quotation for Glazing Works Required to Damaged Stained Glass and Leaded Glazing

Dear Ian

Thank you for inviting me to survey the glazing works required at St Mary's Church. Please find below a brief schedule of proposed works, along with a quotation.

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South Aisle West Window

A 3 light, trefoiled head, stone mullion window with 9no. tracery lights above. Glazed with highly decorative, hand-painted stained glass depicting religious figures, with dedication script across the lower panels. To the exterior are metal protection guards.

The exterior metal guard has suffered minor damage and has been forced away from the window. The lower right-hand panel has suffered substantial damage due to vandalism and has been completely detached from the window. The old lead comes have come apart and misshapen, and many of the glass panes are either damaged or unrepairable. Works to repair the panel require the expertise of an experienced stained glass artist specialising in restoration works

This would involve returning to the Church to collect the damaged panel and any remaining fragments of the original stained glass. At this time, I would also take a rubbing and detailed photos of the lower left hand-panel in the window as reference for the artist and for the church records.

The panel would be carefully packaged and transported to stained glass artist Rachel Smith. Rachel comes from an art school background, focusing on stained glass. In 1995 she joined the world-

renowned Chapel Studio, going on to become head of conservation and senior member of the glass painting department. Rachel has completed many specialist courses and won numerous awards for her conservation and glass painting talents.

Once with Rachel, the panel will undergo full restoration. This will include working with the photos and rubbing provided along with the remaining intact glass panes to establish the original design, before beginning the process of replicating the missing and damaged panes using traditional methods and materials. Replacement glass will be sourced to match the original and will be intricately hand painted before kiln-firing. The new painted glass quarries will then be reassembled with any intact original glass quarries to reconstruct the glazing panel using new lead comes. This process will take approx. 4 weeks.

On completion of the restoration, I will collect the panel and return to the Church to glaze. The panel will be glazed directly into the stone window by the use of the original glazing groove, finished by pointing with a Hydraulic lime NHL 2.5 mortar using a selection of aggregates to complement the colour and texture of the existing stonework. At this time the exterior metal guard will be re-fixed into its original position.

#### **Quotation to undertake works detailed above ~ £1760.00 + VAT**

##### South Aisle Window

A 3 light, trefoiled head, stone mullion window with 9no. tracery lights above. Glazed with traditional diamond leaded glazing panels and opening metal hopper to upper section of central light.

2 of the leaded glazing panels have suffered severe damage due to vandalism. The lower section of the left-hand light has been forced through from the outside, dislodging the existing glass panes and lead. The glazing to the metal hopper has also been forced and detached from the hopper. Works to repair this damage would require removing the effected glazing panels and hopper from the window so that restoration can be carried out in the workshop.

It was also noted during the window survey that the entirety of the glazing to this window is showing signs of ageing due to the weakening of the lead comes. As the comes weaken, the panels become more susceptible to damage from adverse weather, and increased movement within the panels can lead to deterioration of the joints and lead light cement. As repair works are imminently required to a significant proportion of the window, it would be considered beneficial to remove all of the glazing to undergo conservation in the workshop in conjunction with this repair work.

**To repair only the 2 damaged glazing panels** would involve carefully removing the glazing from the window before boarding up the opening using a sturdy ply to provide security and weather proofing for the duration that the glazing is off site.

In the case of the opening hopper, this would need to be removed with the leaded glazing panel to undergo repair works, resulting in only the top section of the central light being boarded.

In the case of the left-hand light, as the glazing consists of 1 large panel that spans from the bottom of the window up to springing line (directly below the foiled heads), the full panel will require removal to undergo repairs. This will result in the full length of the left-hand light, up to the springing line, being boarded.

Once returned to the workshop and on the bench, a rubbing of the lead comes will be taken and quarries will be marked and recorded, before the panels are carefully dismantled. Old lead comes will be discarded and the glass will be individually cleaned on both faces to remove all traces of lead light cement. New comes will be cut and assembled with the original quarries to form a matrix. The intersections on both faces will then be fluxed and soldered; before lead light cement is packed between the glass and lead to strengthen and weather proof the panels. Any excess cement will then be cut back and the panels will be thoroughly brushed over and cleaned. After 'firming-up', the lead work will be darkened to appear aged, and the glass will be cleaned on both faces. Copper tie wires will be soldered to the panels in the appropriate positions on the internal face of the lead comes.

The metal hopper will be shot-blast, removing all layers of excess dirt and paint that have built up over the years. The frame will then be painted using rust-inhibiting paint. A further 2 coats of micaceous iron oxide will be applied, before finishing in a satin paint to the specified colour. The hopper will then be re-glazed with the restored leaded glazing panels.

Once returned to site, the panels and metal hopper will be glazed directly into the stone window by the use of the original glazing groove, finished by pointing with a Hydraulic lime NHL 2.5 mortar using a selection of aggregates to compliment the colour and texture of the existing stonework.

**Quotation to undertake works detailed above ~ £1735.00 + VAT**

**To undertake glazing conservation and repair works to whole window (including repairs to vandalized glazing)** would involve carefully removing all of the glazing panels from the window, including the 9no. tracery lights, opening metal hopper and horizontal saddle bars before boarding up the opening using a sturdy ply to provide security and weather proofing for the duration that the glazing is off site.

Once returned to the workshop and on the bench, the process of dismantling, cleaning, and reassembly of each glazing panel will take place, and the metal hopper will undergo shotblasting, repairing and re-decorating using the same methods detailed above.

To prevent corrosion and potential future damage to the stone window, the existing saddle bars will be thoroughly cleaned and tipped with grade 316 stainless steel tips, before re-decorating in black.

On completion of conservation works, the glazing and associated metal work will be returned to site and glazed directly into the stone window by the use of the original glazing groove. The re-tipped saddle bars will be fitted into the window using lead wedges and fastened to the lead panels using copper ties. Finished by pointing with a Hydraulic lime NHL 2.5 mortar using a selection of aggregates to complement the colour and texture of the existing stonework.

**Quotation to undertake works detailed above ~ £3980.00 + VAT**

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All prices listed are subject to VAT at 20%.

All work is carried out to the highest of standards using traditional methods and materials, with all waste disposed of in an environmentally friendly manner.

If you have any questions regarding this quotation or the works detailed, please feel free to contact myself directly on 07789 552703 or [jim.turnock@ymail.com](mailto:jim.turnock@ymail.com).

Kind Regards

Jim Turnock

J.M. Glass Ltd.