NICHOLSON ENGINEERING LTD

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11th October, 2022.

POST-CONSERVATION TREATMENT REPORT

Church of St.Peter, Poulshot, Wiltshire. Diocese of Salisbury. Listed Grade II*

Restoration of chime of three bells for stationary electrically operated chiming in accordance with quotation no.2 and supplementary quotation no.2A dated 9/7/21 prepared by Nicholson Engineering Ltd who undertook the work. Work commenced 25/4/22 Work completed 26/5/22

BELL DETAILS

bell	diameter	weight	note	date	founder
Tenor	36 1/2"	8 1/2cwt	A	1606	John Wallis, Salisbury
Second	33 1/8"	7cwt	B	1606	John Wallis, Salisbury
Treble	30 1/4"	5 1/2cwt	C#	c.1450	Medieval Bristol foundry

RECORD OF CONSERVATION

All work undertaken in accordance with the original specification prepared by Nicholson Engineering Ltd. No new discoveries were made during the course of the work.

The three bells were dismantled and lowered to the ground. A mobile drilling rig was set up in the base of the tower and was used to drill central stress-relieving holes in the heads of the bells. The original cast-in crown staples were carefully and entirely removed from the heads of the bells.

All bells were checked for cracks using dye-penetrant methods, all found to be well. New iroko deadstocks and stainless steel strapwork were made and fitted to the bells. The headstocks were treated with bat-friendly preservative.

New electromagnetically operated Canonico hammers were fitted to the bells, complete with stainless steel independent crown staples. The crown staples were provided with leather insulation washers.

An AstroPCE control unit, DCF77 antenna and 4-channel remote control unit were provided, made by Seles. A digital interface unit was also provided complete with DC driver modules for the hammers, contained in a weatherproof enclosure.

The bells were rehung in the existing medieval bellframe and secured in position using stainless steel coach screws and brackets. The hammers were installed such that they struck at unworn parts of the bells. The digital interface was installed in the bellchamber and the hammers connected using heat resistant cable. A mains spur was installed to the interface unit. A CAT5 data cable was connected to the interface unit and led down to the control position at the base of the tower. The control unit was installed at the base of the tower and connected to the CAT5 cable. A mains spur was installed to the control unit.

The system was programmed to provide the facilities required by the parish, including pealing bells, calling bell, slow speed funeral toll and Sanctus. An instruction manual for the control system was provided. The bells were fully tested and left in working order.

No further work is required.

CARE AND MAINTENANCE RECOMMENDATIONS

It is recommended that a maintenance check be undertaken once annually.

Andrew Nicholson
Managing Director
11th October, 2022.