



## **ST PETER'S CHURCH, REDCAR**

Replacement of the lead Chancel Aisle roofs with stainless steel.

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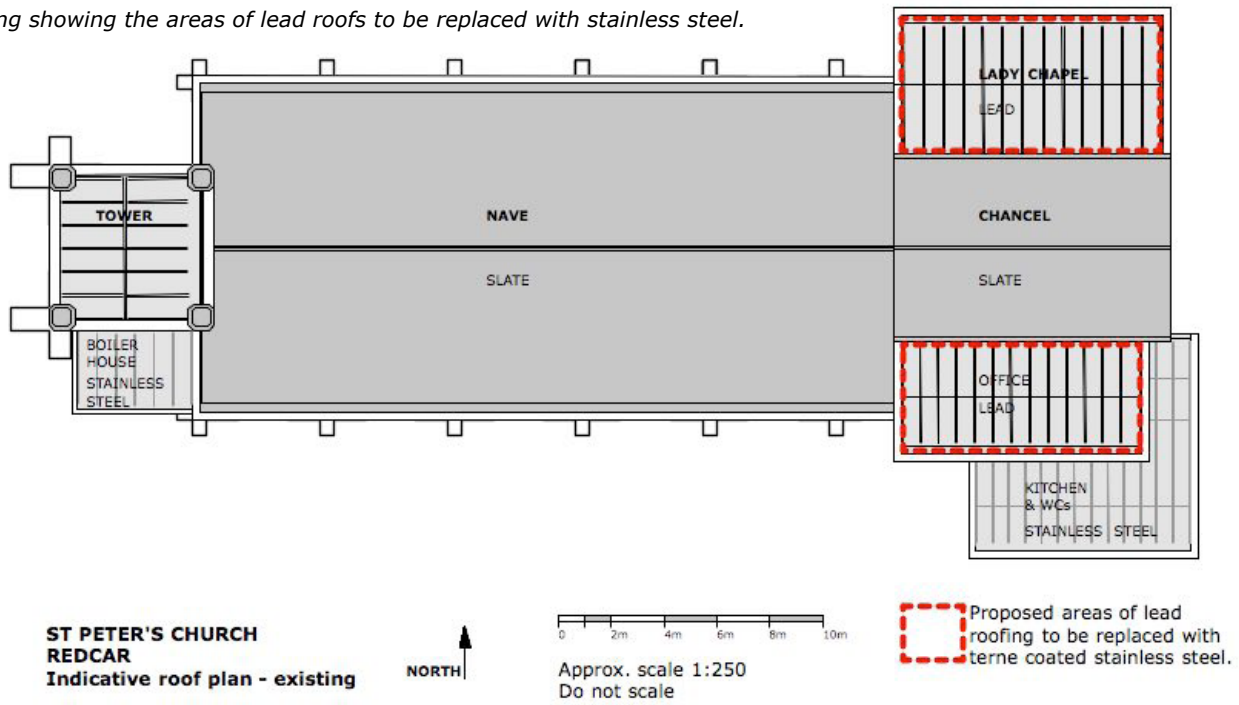
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**Introduction**

After concern over the condition of the lead roofs over the Chancel Aisles, following a number of leaks Faculty was sought to replace the existing lead coverings, gutters and flashings of the north and south Chancel Aisle roofs with terne-coated stainless steel and any associated timber repairs. Work also included for the overhaul and redecorations of existing guttering, hoppers and downpipes to these roofs.

Faculty was issued 4th December 2020, and a package of work, including drawings and specification was issued for competitive tender in September 2020. The lowest tender was received from JTC Roof Contractors Ltd and an order for the work was placed with them on 18th December 2020.

*Drawing showing the areas of lead roofs to be replaced with stainless steel.*



*South elevation of Lady Chapel. The yellow dotted line indicates the roofgutter line behind the parapet.*





*The existing lead roof on north side of Chancel (looking west). The limited length of lead bays required a step to be formed resulting a very shallow pitch resulting in ponding of water, indicated by dark patches on the lower sections of roof. This photo was taken in 2019 before the cast iron gutter was taken down due to concerns over its condition and fixing.*



*The existing lead roof on south side of Chancel (looking west).*



*Failures in the lead include splits at the bottom of the rolls (highlighted). These have been temporarily repaired with mastic in the past.*



*Debris and growth in the north side parapet gutter.*





*Some sections of the existing rainwater goods at high level were in a poor condition. While the gutters were replaced with new cast iron, the existing hoppers and downpipes were salvaged and kept.*







*With the lead stripped the boarding under was lifted and relaid on new furrings to a better pitch (3 degrees).*



*The existing boarding relaid, ready to receive the new roof build up.*





*Installation of the new breather membrane which sits under the insulation layer.*



*Some of the existing boards under the parapet gutter were affected by rot. This shows the installation of new gutter boards.*





*Installation of the insulation layer.*



*A top layer of boarding supports a Permo Sec membrane and stainless steel finish.*





*New gutter boards and lead sump in place.*



*Testing the new stainless steel gutter.*



*One of the new lead sumps installed, with outlet through the parapet.*



*The stainless steel gutter and sump.*





*Work complete.  
The thickness of the stainless  
steel (0.5mm) results in a slight  
undulation. This does not affect  
its performance in any way.*