

BEFORE THE PALMERSTON NORTH CITY COUNCIL

IN THE MATTER OF the Resource Management Act 1991

AND

IN THE MATTER OF an application by the Anglican Diocese of Wellington for the refurbishment, strengthening and extension to the heritage-listed building known as All Saints Church, 338 Church Street, Palmerston North

STATEMENT OF EVIDENCE OF GARRY NEWTON

- [1] My full name is Garry John Newton.
- [2] I am a Chartered Professional Engineer (CPEng) specialising in structural engineering. I have 36 years experience. I am a principal of Structural Concepts Limited.
- [3] I have read the Code of Conduct for Expert Witnesses issued by the Environment Court Practice Note 2014 and I agree to comply with the Code of Conduct. I am satisfied that the matters addressed in the Statement of Evidence are within my expertise. I am not aware of any material facts that have either been omitted or altered or might detract from the opinions expressed in this Statement of Evidence.
- [4] I prepared the seismic strengthening preliminary design contained in SCL job 2130-8558 and I understand sheets 105 and 120 were used for the purpose of costing the work by RLB.
- [5] I confirm that seismic strengthening of All Saints Church is imperative as it has an NBS seismic rating of 3%. A significant seismic event will in all likelihood render the building so flawed that it needs to be demolished.
- [6] The design I developed involves post-tensioning of the walls with wire cables threaded through the core holes drilled into the brick walls. The wires are tensioned between a new concrete footing below the floor and a new concrete beam at the parapet level. This design is based on the experience in the Christchurch area following the earthquakes in the Canterbury region.
- [7] Given the high levels of foot traffic near the All Saints Church, I consider that the building presents a significant risk to health and safety and that it would not be appropriate to delay remediation of this risk.
- [8] I consider that the structural method I propose is the best practicable method available to minimise impacts on the Church building's fabric and any other strengthening solutions present significantly more risk to the heritage fabric.
- [9] I consider that the risks involved in the tensioning process of the brick walls can be mitigated successfully by using experienced contractors who have

carried out similar successful installations. In the case of this project the contractor chosen has such experience with projects in Christchurch and elsewhere in New Zealand.



Garry John Newton