

TOWN OF WELLESLEY



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BOARD OF APPEAL

1966 JUN 22 AM 10:52

GARRETT S. HOAG  
JOHN L. HAYDEN  
DANA T. LOWELL

KATHARINE E. TOY, CLERK  
TELEPHONE  
CE 5-1664

Appeal of the Academy of the Assumption

Pursuant to due notice the Board of Appeal held a public hearing in the hearing room on the second floor of the Town Hall at 8:25 p.m. on March 31, 1966, on the appeal of the Academy of the Assumption from the refusal of the Inspector of Buildings to issue a permit for the construction of a building on its property at 50 Oakland Street. The reason for such refusal was that the construction of said building would violate the requirements of Chapter VII, Section 7, Working Stresses, (c) Reinforced Concrete and (d) Steel, Stresses and Details. A further appeal was made to obtain the right to use the ACI 318-63 for Reinforced Concrete published in June 1963, and the Manual of Steel Construction, Sixth Edition of the American Institute of Steel Construction.

On January 18, 1966, the appellant took an appeal in writing from the refusal of the Inspector of Buildings to issue a permit for the above-mentioned reasons, and thereafter due notice of the hearing was given by mailing and publication.

Frank H. Whelan, President of Frank H. Whalen, Inc., Consulting Engineers, spoke in support of the appeal at the hearing.

Statement of Facts

The Wellesley Building Code Chapter VII, "Materials, Loads and Stresses".

"Reinforced Concrete" required builders in Wellesley to build to the unit stresses given in the "Building Code Requirements for Reinforced Concrete" of the American Concrete Institute published in April 1951.

"Steel" outlines unit stresses and details.

The appellant seeks permission to use the ACI 318-1963 and for Steel the AISC Manual of Steel Construction, Sixth Edition and to be required to build only to the standards therein expressed.

It was pointed out that during the past fifteen years, reinforcing steels have been made stronger and tests and research conducted by various organizations have justified the use of higher stresses and methods of design. The use of the Concrete Code ACI 318-63 and Steel Code AISC 1963 will reduce the cost of the construction and be in accord with modern sound engineering practice.

Decision

After due consideration of the evidence presented and the facts as known by the Board, it is the unanimous opinion of the Board that the request may be granted subject to the following conditions:

1. Reinforced concrete shall be designed by methods admitting of rational analysis according to established principles of mechanics and generally accepted engineering practices so as to be able to support the loads and withstand the forces to which it is subjected without exceeding the stresses permitted by such engineering practices for the various materials thereof.
2. That an approved testing laboratory shall be engaged to conduct testing and mix control of the concrete and to make tests of the reinforcing actually used to determine yield point.
3. That the above condition shall be contingent upon the execution of an affidavit by a Registered Structural Engineer, preferably the one responsible for its design and submitted to the Building Inspector, covering design conforming to and in accordance with the variance granted.

Garrett S. Hoag  
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Dana T. Lowell  
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F. Lester Fraser  
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Filed with Town Clerk \_\_\_\_\_

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