

ORDINANCE NO. 400

AN ORDINANCE to repeal and re-enact Section 41 of the Building Code of the City of Alexandria, Virginia.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF ALEXANDRIA, VIRGINIA:

Section 1. That Section 41 of the Building Code of Alexandria, Virginia adopted May 23, 1939 by the City Council of said City be and the same hereby is repealed and re-enacted so as to read as follows:

"Section 41—Reinforced Concrete Construction.

1. All reinforced concrete construction shall be in accordance with the Building Regulations for Reinforced Concrete as approved and adopted by the American Concrete Institute in February, 1936 (A.C.I. 501-36-T), except

(i) That Table 302A—Assumed Strength of Concrete Mixtures shall be changed to read as follows:

TABLE 302(a)—ASSUMED STRENGTH OF CONCRETE MIXTURES

| Class of Concrete | Water Content U. S. Gallons per 94-lb. sack of Cement | Minimum Bags of Cement per Cubic Yard | Assumed Ultimate Compressive Strength at 28 days, p.s.i. | Laboratory Ultimate Compressive Strength at 28 days, p.s.i. |
|-------------------|--|--|--|---|
| A | 6.0 | 7.0 | 3500 | 4000 |
| B | 7.0 | 6.0 | 3000 | 3500 |
| C | 7.5 | 5.5 | 2500 | 2900 |
| D | 8.0 | 5.0 | 2000 | 2400 |
| E | 8.5 | 4.0 | 1500 | 1800 |

and

(ii) That the allowable unit stress in pounds per square inch on steel reinforcement may equal but shall not exceed the following values:

Tension in longitudinal and web reinforcement:

(a) For Structural grade steel bars, fifty (50) percent of the yield point as determined by test, but not to exceed 20,000 pounds per square inch.

(b) For Intermediate grade steel bars, and hard grade bars, fifty (50) percent of the yield point as determined by test, but not to exceed 24,000 pounds per square inch.

2. The designation "Commissioner of Buildings" shall mean the Building Inspector and the term "Board of Examiners" shall mean the City En-

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gineer and paragraph 103 (a) shall be changed to read as follows:

(a) The sponsors of any system of reinforced concrete which has been in successful use, or the adequacy of which has been shown by test, and the design of which is either in conflict with these regulations or not covered by them, shall have the right to present the data on which their design is based to the City Engineer, who shall investigate the data so submitted and formulate rules governing the design and construction of such systems. These rules shall be of the same force and effect as the provisions of this code.

3. All tests shall be made by a laboratory approved by the Building Inspector in accordance with standards established by the American Society of Testing Materials and the results shall satisfy the requirements of the American Society of Testing Material's Specification, serial designation A-15-39.

4. The Building Inspector shall have the authority to collect samples from the site, or the supplier's yard and test them at the expense of the owner or builder."

Section 2. That this ordinance shall take effect immediately upon its passage, but shall be published after passage in the Alexandria Gazette.

Approved this 23rd day of March, 1943.

WILLIAM T. WILKINS,
Mayor