

## **SECTION**

### **20.0.0 Concrete Construction**

#### **20.1.0 Portland Cement Concrete**

##### **20.1.1 Reinforced Concrete**

The design and construction of reinforced concrete shall conform to the current provisions of the Building Code Requirement for Reinforced Concrete (ACI 318), of the American Concrete Institute and published in the proceedings of that Institute's volumes.

##### **20.1.2 Concrete Quality**

All concrete shall have a minimum ultimate compression strength of 3,000 pounds per square inch at 28 days. A minimum of 5 bags of cement shall be used for foundation work and 5-1/2 bags for flat work such as cement floors, driveways, service walks, etc. Concrete exposed to the action of freezing weather shall have a water cement factor of 5-1/2 gallons and a minimum cement content of 5-1/2 bags. All exterior concrete shall have an air entraining agent which shall conform to ASTM C260 and which shall entrain air in the amounts of 4 to 7%.

##### **20.2.0 Tests**

Cylinder or bore tests may be required for structural concrete and all tests shall be made by a recognized materials testing laboratory in conformance with the standards of the American Concrete Institute. Tests shall be required whenever, in the opinion of the Building Commissioner, compliance with requirements is questionable. All written results of tests shall be submitted to the Building Commissioner for review.