

03 00 00 – Concrete

1. General

- A. Concrete design shall be in accordance with the latest edition of the N.C. State Building Code: Volume 1. Design also shall comply with requirements of the American Concrete Institute (ACI), specifically the requirements of ACI-301, ACI-318 for reinforced concrete structures, ACI 305 for hot-weather construction and ACI-306 for cold-weather construction. Design strength shall be appropriate to the use intended but shall be a minimum 3000 psi (at twenty-eight days). Structural drawings shall bear the seal of a registered structural engineer and contain at a minimum:
1. Live loads and other loads used in design
 2. Compressive strength of concrete types used in design
 3. Clear indication of required reinforcement and placement and the grade of reinforcing steel
 4. Types and location of finishes of concrete; color and finish of exposed concrete shall be approved by the Owner
 5. Details for mock-ups if required
 6. Location and details of expansion and control joints