

DIVISION 3 – CONCRETE

032000 - CONCRETE REINFORCEMENT

- A. Reinforcement Placement: The University shall retain an independent testing laboratory and special inspector to inspect reinforcing placement, material and/or welds and other items as required by the University Building Code Division.
- B. Coating: The A/E shall consider the corrosive nature of the environment on the reinforcement, support and exposed architectural conditions and specify coatings as appropriate.
- C. Execution: Perform concrete reinforcement work in accordance with the ACI Manual of Standards Practice and the Concrete Reinforcing Steel Institute's recommended practices.

SECTION 033000 - CAST-IN-PLACE CONCRETE

- A. A/E shall provide contract documents that specify concrete finish surfaces, critical tolerances, flatness and levelness. A/E shall specify appropriate reference standards.
- B. Exposed concrete stair treads and ramps shall have a uniform non-slip finish that meets the American with Disabilities Act requirements.
- C. Tests by Independent Testing Laboratory: The University shall retain an independent testing laboratory and special inspector to perform compression tests, and other tests and inspections as required.
- D. Mixes:
 - 1. A/E shall specify critical mix requirements. A/E shall approve the concrete mixes, including items such as high early strength cement admixtures and other special materials.
 - 2. Integral and applied colorants and specialty finishes are discouraged and proposals for their use in any and all projects require formal written application for an Exception to these Design Standards.
- E. Construction Joints: The A/E shall design construction joint detail and review construction joint locations.
- F. Control Joints: The A/E shall specify and design control joint detail and location.
- G. Concrete Accessories: Ensure compatibility of all accessories, and install in accordance with the manufacturer's specifications and technical data.
- H. Curing: Curing compound shall not be used on floor slabs to receive topping or setting beds for tile flooring. Compounds used for other slabs shall be compatible with floor sealer or adhesives used for finishing floors.

- I. Floor Hardener: Interior exposed concrete floors shall be cleaned of dust, dirt, oil, plaster, paint and stains. After cleaning, the floor shall be treated with two coats of colorless chemical hardener in accordance with the manufacturer's instructions.
- J. Cast-in Place nosings in concrete stair construction are prohibited.

END OF SECTION 033000