



# Division 030000

## Concrete

### DESIGN GUIDE

**Contents – Division 030000**  
033000 General

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### 1 General

#### 1.1 General

- A. Mix design for all concrete shall be submitted for review and approval prior to any placing.
- B. Testing is required.
- C. All exposed foundations shall have an acceptable form finish or shall be sacked smooth.
- D. The contractor shall be responsible for concrete mix design that meets design requirements, control of water added to concrete on site, placement of concrete, slab finishing methods, slab curing methods and dry-out of the concrete slabs so as to achieve a crack-free slab, with surface finish, vapor emission rate, moisture content and pH level as required by floor covering mfg. for the application of their product(s).
- E. Removal and replacement as directed of any footings, foundation wall, slab on grade, and concrete toppings that are non-conforming to the plans and specifications, show excessive cracking, and/or has an unacceptable finish is the responsibility of the contractor and shall be corrected at no cost to the university.
- F. Any colored exterior concrete paving shall have integral coloring. Contractor shall provide integral concrete color manufacturer name, address and telephone number as well as mix specification(s) and any other formula or special designation upon completion of the work.



- G. No hardscaping or paving concrete shall be painted except for traffic/parking control striping.
- H. Control joints in exposed flat work shall be tooled with a 1/4" radius tool with a narrow groove (approximately 1/8" wide) made by a deep bit groover such as manufactured by Goldblatt Tool Company Model 06215M7. Do not provide felt control joints.
- I. All exterior concrete paving shall have slip-resistant finish(es) (medium or heavy broom), or match adjacent surfaces. Verify approved finish(es) with the Project Manager.
- J. Exterior concrete floors tolerance shall be 1/8" per every ten feet (10').
- K. In concrete walks repairs, the slabs shall be cut at the control joints only.
- L. Special consideration shall be given to vehicular traffic areas relative to concrete thickness, fill and compaction. Verify walkways to receive traffic with CWU's PM.
- M. It shall be the responsibility of the Contractor to protect the finish of all exposed concrete surfaces from defacement until the project's Substantial Completion.