

DIVISION 3 CONCRETE

<u>Section No.</u>	<u>Title</u>	<u>Comments</u>
03 20 00	CONCRETE REINFORCEMENT	<ol style="list-style-type: none"> 1. Grade 60 re-bar or as required by E.O.R. 2. WWF at all walks and other flat work. 3. Areas subject to vehicular traffic to have re-bar installed. 4. Provide dowels at cold joints on all exterior flat work. 5. Require a pre-construction meeting regarding rebar placement and inspection before scheduling any concrete pours.
03 30 00	CAST-IN-PLACE CONCRETE	<ol style="list-style-type: none"> 1. 2,500 psi at flat work not subject to potential vehicle use, 6,000 psi at flat work that will be subject to vehicular use, 3,000 psi min. for structural. 2. Slabs-on-grade 4-inch thick minimum at sidewalks designated for pedestrian use, 6 to 8-inch thickness for locations subject to vehicular use. 3. 4-inch deep 5/8" crushed gravel min below all slabs on grade, 6-inch minimum, with #4 rebar at 24" o.c. each way, at vehicular traffic areas. Thicker paving sections should be engineered for fire lanes. 4. 4x4 WWM reinforcing in sidewalks without vehicular traffic. 5. All conduit, piping, raceways and related items to be located below gravel and bedded in sand. 6. Use of Chlorine containing additives is prohibited. 7. Slab-on-grade control joints at 16 feet o.c. maximum.; if joints are saw cut they shall be cut with-in 24-hours of pour (spec shall call for exposed slabs to be poured in afternoon and cut first thing next morning). 8. Use clear membrane forming curing & sealing compound. 9. Form finishes for Architectural Concrete to be steel, glass-fiber reinforced plastic, or other approved non-absorptive panel materials that will provide a continuous, true and smooth concrete finish. 10. SpecStrip or equal form release agent. 11. College will hire a testing agency to take samples and perform tests on concrete cylinders. 12. Coordinate with floor covering placement and

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		<p>finishing requirements.</p> <p>13. BASF MasterAir VR 10, Sika Aer, and Euclid Eucon Air Mix air-entraining admixture for concrete exposed and exterior flatwork.</p> <p>14. Grace Daracem 19 admixture for water-reduction.</p> <p>15. Euclid SBR Latex –adhesive bonding admixture to be used with these applications: toppings, repairs and leveling of concrete surfaces.</p> <p>16. Brighton Professional: “Hard Rock Sealer” sealing and bonding undercoat for interior concrete floors that are to be exposed.</p> <p>17. Sustainable Earth: “80 Floor Finish and Sealer” for use on slabs to receive resilient floor covering.</p> <p>18. If desire to match existing paving use “Lamp Black” to match areas of black concrete, and “Pebble” to match areas stem walls at the Longhouse.</p> <p>See 10 74 00 MANUFACTURED EXTERIOR SPECIALTIES regarding skateboard deterrents in exterior concrete walls.</p>
03 30 03	UNDERSLAB VAPOR RETARDER	1. See division 7.
03 35 00	CONCRETE FINISHING	1. Light broom finish exterior flat work typical; no “picture framing”. Stamped concrete has not been successful for the College on past projects; stay away from it.
03 40 00	PRECAST CONCRETE	1. Low preference in using precast panels, except for indoor stair treads.
03 54 00	CAST UNDERLAYMENT	1. Laticrete “Supercap” should be specified if it is believed there may be a possible problem with slabs properly curing which could then impact floor covering installation schedule.

NOTES:

1. Colored concrete to be thoroughly mixed and shall not have surface applied colorant.
2. Create tapered threshold with radius edge at all exterior door locations on slabs-on-grade.
3. Consult with owner on fire lane design regarding reinforcing and base.
4. Appropriate contained washout areas shall be designated before any concrete pours.