

GENERAL:

Design Requirements

Tests shall be performed by an Independent Laboratory under Contract to DCPS. For **tests which indicate failure, that test and all costs incurred as a result thereof shall be paid by the Contractor.**

Standard Slump Tests will be made when 20 or more cubic yards of concrete are placed. And not less than one such test should be made for each 20 cubic yards of concrete placed at one operation.

Concrete that fails by test will be replaced at the option of the Owner and the recommendation of the Structural Engineer.

Design Professional shall specify cement, aggregates, water and all necessary accessories such as inserts, slots, vapor barriers, curing compounds, expansion control materials and joint fillers.

All "Cast-in-Place" concrete should be ready mixed. Specify maximum slump and minimum strength for all types of concrete used. All concrete shall be placed within 1-1/2 hours after introduction of water to the mix. Under no conditions may additional water be added. All concrete where water has been added will be removed and replaced with proper concrete at no cost to the Owner. Design professional shall indicate proper allowances for setting beds for ceramic tile. **Always slope exterior walks away from the building a minimum of 1/4 inch per foot and field verify compliance.** Covered walks between buildings always slope to drain to the exterior and away from the buildings.

No concrete shall be placed until all reinforcing steel, pipes, sleeves; inserts, etc. have been set in place and inspected by the Architect and DCPS Code Enforcement. Notification of the DP and DCPS Code Enforcement of scheduled pours 48 hours prior to pouring shall be included within Specification.

All construction and expansion joints shall be indicated on Drawings. Expansion or cut control joints should not exceed 20" o.c. Expansion joints in walkways shall be maximum 24 feet and cut control at 6 feet o.c., and at every change in thickness. Begin curing of concrete not more than 3 hours after placing. **Curing compound used on floors that are to receive tile or other additional finish shall be compatible with adhesives and finish materials.**

Sidewalks shall be 4" thick fiber mesh reinforced 3000 PSI concrete.

Play Courts shall be 60' x 90' and shall utilize 6" thick fibermesh reinforced 3000 PSI concrete. Provide 6'-1" radius around basketball support columns. Play courts shall have a thickened edge.

Specify concrete finish as follows:

Scratch Finish: For surfaces to receive bonded cementitious applications, i.e., ceramic tile, etc., indicate on Drawings locations of depressed areas.

Trowel finish: For interior surfaces intended as smooth walking surfaces or for receipt of floor coverings.

Light Broom Finish: For exterior play courts and all sidewalks.

Concrete Finish: Tolerances shall be indicated on Drawings.

Standard Finish: Tolerance to be Class B - true planes within 1/4 inch to 10 feet.

Smooth Finish: On all exposed vertical interior and exterior concrete.

END OF SECTION 03300