

502-R-640 PCC WATER/CEMENTITIOUS RATIO

(Adopted 06-16-16)

The Standard Specifications are revised as follows:

SECTION 502, BEGIN LINE 62, DELETE AND INSERT AS FOLLOWS:

(a) Portland Cement Concrete

The CMD shall produce workable concrete mixtures, with the minimum amount of water, and having the following properties.

Portland cement content.....	564 lbs/cu yd
Maximum water/cementitious ratio	0.48 0.450
Maximum cement reduction for GGBFS replacement	30%
Fly Ash/portland cement substitution ratio.....	1.25 by weight
Maximum cement reduction for fly ash replacement	20%
GGBFS/portland cement substitution ratio.....	1.00 by weight
Slump, formed.....	2 to 4 in.
Slump, slipformed.....	1.25 to 3 in.
Air	5.0% to 8.0%
Minimum flexural strength, third point loading, with fly ash.....	550 psi at 28 days
Relative yield	0.98 to 1.02

SECTION 702, BEGIN LINE 7, DELETE AND INSERT AS FOLLOWS:

702.02 Classes of Concrete

The following classes of concrete shall be used where specified.

Class of Concrete	A	B	C
Cement content in lbs/cu yd	564	470	658
Maximum water/cement ratio in lbs of water per lbs of cement	0.49 0.450	0.620	0.443
