Requirement	GDOT	NCDOT	SCDOT
Cement Content	Contractor's Responsibility	639 lbs - 850 lbs	650 lbs - 850 lbs
Maximum W/C ratio	0.35	Precast = 0.48	0.40
		Prestress = 0.45 (if 28-day strength < or = 6000 psi)	
		Prestress = 0.40 (if 28-day strength > 6000 psi)	
SCMs / Pozzolan Allowed	fly ash, slag, microsilica, metakaolin	fly ash, slag, silica fume, limestone powder	fly ash, slag, silica fume
Amount of SCMs / Pozzolans	No more than 3 can be used	May be substituted for a portion of the cement with	May be substituted for a portion of the cement
	If 1 SCM - replace no more than 20% of cement	permission of the Engineer	
	If 2 or 3 SCMs - replace no more than 40% of cement		
Coarse to Fine Aggregate Ratio	Contractor's Responsibility	Fine Aggregate content 40% to 60% of combined	Fine Aggregate content 40% to 60% of combined
		coarse and fine aggregate weight	coarse and fine aggregate weight
Admixtures	Type F or G HRWR may be used	Viscosity Modifying Admixture recommended but not	Viscosity Modifying Admixtures are allowed
	Viscosity Modifying Admixtures may be used	required	
Air Entrainment	3.5% to 6.5%	5.0% +/- 2.0%	0.0% to 4.5%
Slump Flow	Minimum = 20" and within +/-2" of design slump flow	24" - 30" Spread	24" - 30" Spread in combination with the VSI of 0 - 1
T-20" (Time to 20" spread)	3 - 8 seconds	Not addressed in Special Provision	Not addressed in Special Provision
Visual Stability Index (VSI)	Submit results with mix design	Not addressed in Special Provision	0 - 1
L Box	Blocking Ratio (H1/H2)= 0.8 - 1.0	Blocking Ratio (H1/H2) = 0.8 - 1.0	Blocking Ratio (H1/H2) = 0.8 - 1.0
U-Box	Blocking Ratio (H1/H2)= 0.75 - 1.0	Not addressed in Special Provision	Not addressed in Special Provision
J-Ring	Not addressed in Special Provision	Difference in spread with and without J-Ring shall not	Difference in spread with and without J-Ring shall not
		exceed 2"	exceed 2"
Shrinkage	Not addressed in Special Provision	For Prestressed Concrete Only - Shall not exceed	*Shall not exceed 0.04% in 28 days
		0.04% at 28 days	
Creep	Not addressed in Special Provision	Not addressed in Special Provision	*Normalized creep shall be < 0.52 at 300 days
Compressive Strength	5,000 psi @ 28 days or as shown on the plans	As shown on the plans or Standard Specifications	6,000 psi. Shall meet the requirements of the project.
			Match curing required for strengths >10,000 psi
Modulus of Elasticity	Not addressed in Special Provision	Testing Required for Prestressed Concrete only	Shall be greater than 4,000 ksi at 56 days
Chloride Permeability @ 56	Beams Max = 4000 Coulombs	Not addressed in Special Provision	*Max = 3000 Coulombs
days	Piling Max = 2000 Coulombs		

Specifications used for comparison

GDOT - DRAFT - Section 500 - Concrete Structures Special Provision - (November 16, 2005) NCDOT - Self-Consolidating Concrete (SCC) for Precast and Prestressed Concrete (Special) - (Revised 12-5-2005) SCDOT - DRAFT - Self Consolidating Concrete (SCC) for Precast and Prestressed Concrete - Special Provision (December 2010)

This document is for information only. It is not a specification or special provision and shall not bind any agency. In cases of discrepancy, each agency's special provisions and / or specifications shall govern.

\* may be waived based on past positive performance