

NH ROUTE 3A BRIDGE
Cementitious Materials Composition

Component	Weight %			
	Girders and Panels		CIP Deck	
	Cement	GGBFS	Cement	Cement and Silica Fume
SiO ₂	20.7	20.1	21.5	27.18
Al ₂ O ₃	5.1	5.5	4.9	4.40
Fe ₂ O ₃	3.1	2.3	3.1	2.67
CaO, Total	62.7	63.2	63.7	59.18
CaO, Free	1.2	1.2	0.7	—
SO ₃	3.0	3.5	2.9	2.96
MgO	3.4	2.6	2.4	2.18
Na ₂ O	0.63	0.76	0.8	—
Loss on Ignition	1.2	1.2	0.7	0.84
Insoluble Residue	0.3	0.3	0.3	3.44
C ₃ A	8	11	7.6	7.15
C ₄ AF	—	7	9.6	—
C ₃ S	51	54	50.9	—
C ₂ S	—	17	23.1	—
K ₂ O	—	—	—	0.98
SrO	—	—	—	0.18
Mn ₂ O ₃	—	—	—	0.04
ZnO	—	—	—	0.05
Cr ₂ O ₃	—	—	—	0.02