

Project Name: I-96 (Kent Lake to I-275)
 Contractor Name: Daytona Redi Mix
 MDOT Project #: 63022-124103
 Maximum Aggregate Size (inches): 2

Representative Date: 07/23/24 through 07/30/24
 CT Project #: 230408
 Mix ID #: BW-009 (Slipform)

MATERIALS				
Type	Source	Class	Spec. Grav.	F/T Dialation
Coarse	Stoneco-Ottawa Lake (58-0003CA)	CA	2.69	0.010
Intermediate 1	Stoneco-Ottawa Lake (58-0003CA)	IA	2.68	0.010
			1.00	
Fine	Stoneco-Moscow (30-0071SG)	Fine	2.63	
Cement	Ash Grove-Missisauga	Type IL	3.10	
GGBFS	Ash Grove-Detroit	Grade 100	2.91	
ADMIXTURES				
Type	Supplier	Dosage (oz/cwt)		
Mapeair SA	MAPEI	3.5		
Mapetard R	MAPEI	3		

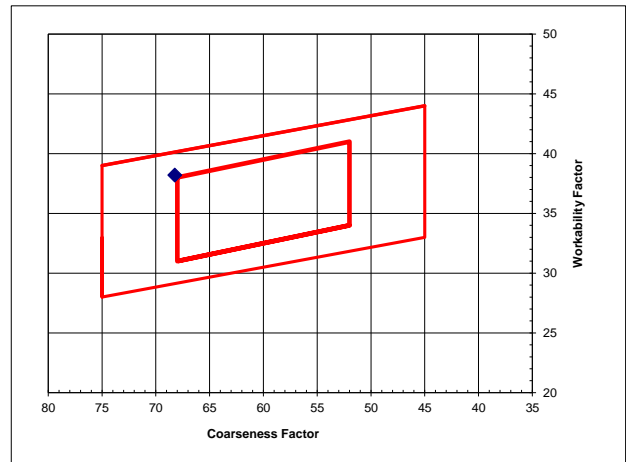
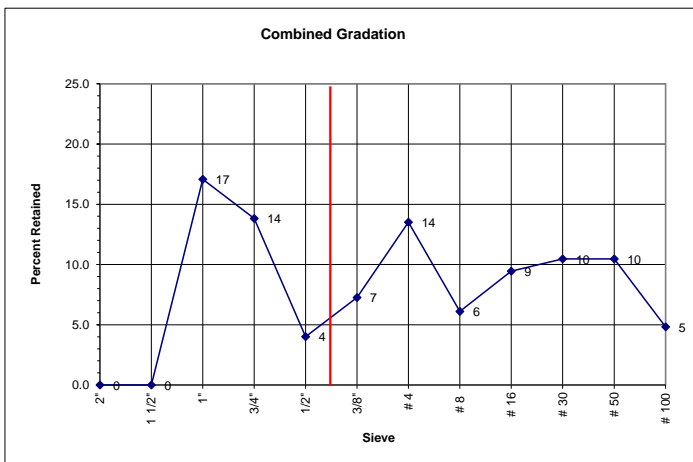
PROPORTIONS (SSD)				
Type	Wt. lbs.	Sp. Grav.	Vol. ft ³	% Vol.
Cement	458	3.1	2.37	
GGBFS	153	2.91	0.84	
Coarse	1250	2.69	7.45	40.65
Intermediate 1	585	2.68	3.50	19.10
		1.00	0.00	0.00
Fine	1210	2.63	7.37	40.25
Water	238	1	3.81	
Air, %	6.5		1.76	
27.10				
Total Cementitious:	611	lbs. or	6.5	bag
Water/Cement Ratio:	0.39			
Percent Cementitious Replacement:	25%			

	GRADATIONS								Gradation Date: <u>7/23/2024</u>			
	Coarse		Intermediate 1		Fine		Fine					
	SSD wt., lbs	1250	585	0	1210							
Abs. Volume	7.45	3.50	0.00	7.37								
Aggregate % Vol.	40.7	19.1	0.0	40.3								
Sieves	% Pass	% Mix	% Pass	% Mix	% Pass	% Mix	% Pass	% Mix	Total % Passing	% Cumm. Retained	Retained Sieve, %	Retained Spec. %
2"	100.0	40.7	100.0	19.1	0.0	0.0	100.0	40.3	100.0	0.0	0.0	
1 1/2"	100.0	40.7	100.0	19.1	0.0	0.0	100.0	40.3	100.0	0.0	0.0	
1"	58.0	23.6	100.0	19.1	0.0	0.0	100.0	40.3	82.9	17.1	17.1	
3/4"	24.0	9.8	100.0	19.1	0.0	0.0	100.0	40.3	69.1	30.9	13.8	
1/2"	16.0	6.5	96.0	18.3	0.0	0.0	100.0	40.3	65.1	34.9	4.0	
3/8"	8.0	3.3	75.0	14.3	0.0	0.0	100.0	40.3	57.8	42.2	7.3	
# 4	2.0	0.8	17.0	3.2	0.0	0.0	100.0	40.3	44.3	55.7	13.5	
# 8	2.0	0.8	4.0	0.8	0.0	0.0	91.0	36.6	38.2	61.8	6.1	
# 16	2.0	0.8	3.0	0.6	0.0	0.0	68.0	27.4	28.8	71.2	9.4	
# 30	2.0	0.8	3.0	0.6	0.0	0.0	42.0	16.9	18.3	81.7	10.5	
# 50	2.0	0.8	3.0	0.6	0.0	0.0	16.0	6.4	7.8	92.2	10.5	
# 100	2.0	0.8	3.0	0.6	0.0	0.0	4.0	1.6	3.0	97.0	4.8	
# 200	1.7	0.7	2.6	0.5	0.0	0.0	2	0.7	1.9	98.1	1.1	

Fine Aggregate Fineness Modulus: 2.79 FM

Coarseness Factor (x-axis): 68.2
((cumm. Ret 3/8 / cumm. Ret #8) x 100)

Workability Factor (y-axis): 38.2
(Pass #8 + Adjustment Factor)



Approved By: _____
 Signature: _____