

Project Name: I-696 (I-275 to Lahser)
 Contractor Name: Daytona Redi Mix
 MDOT Project #: 63101-131589
 Maximum Aggregate Size (inches): 1.5

Representative Date: 06/04/24 through 06/11/24
 CT Project #: 230408
 Mix ID #: BW-007 (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	Mid Michigan-Vella (81-0101SG)	Fine	2.64	
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		

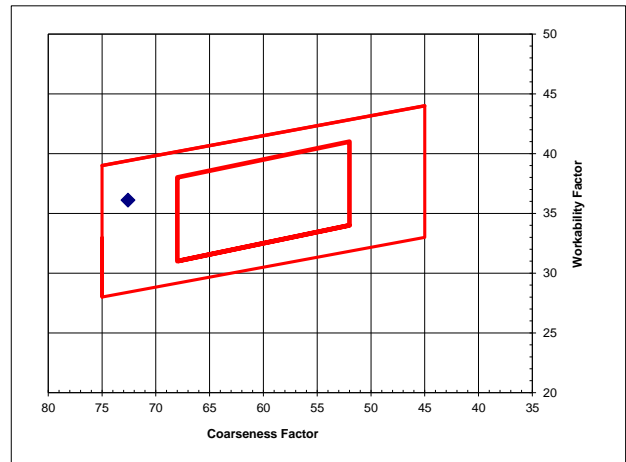
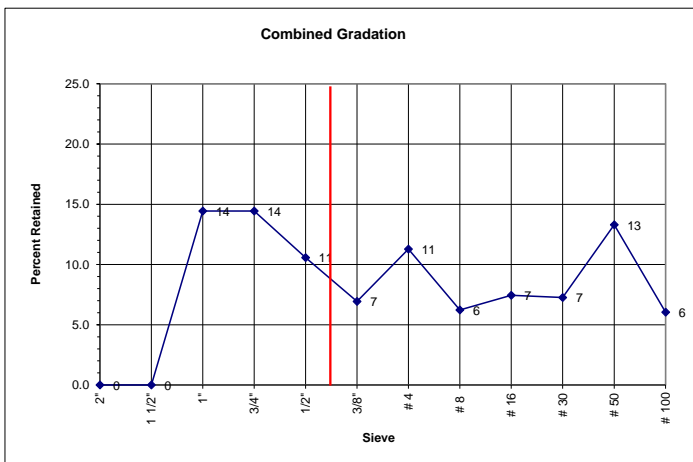
PROPORTIONS (SSD)				
Type	Wt. lbs.	Sp. Grav.	Vol. ft ³	% Vol.
Cement	458	3.1	2.37	
GGBFS	153	2.91	0.84	
Coarse	1425	2.69	8.49	46.58
Intermediate 1	400	2.68	2.39	13.12
		1.00	0.00	0.00
Fine	1210	2.64	7.35	40.30
Water	238	1	3.81	
Air, %	6.5		1.76	
27.01				
Total Cementitious:	611	lbs. or	6.5	bag
Water/Cement Ratio:	0.39			
Percent Cementitious Replacement:	25%			

	GRADATIONS								Gradation Date: <u>6/4/2024</u>			
	Coarse		Intermediate 1		Fine		Fine					
	SSD wt., lbs	1425	400	0	1210							
Abs. Volume	8.49	2.39	0.00	7.35								
Aggregate % Vol.	46.6	13.1	0.0	40.3								
Sieves	% Pass	% Mix	% Pass	% Mix	% Pass	% Mix	% Pass	% Mix	Total % Passing	% Cumm. Retained	Retained Sieve, %	Retained Spec. %
2"	100.0	46.6	100.0	13.1	0.0	0.0	100.0	40.3	100.0	0.0	0.0	
1 1/2"	100.0	46.6	100.0	13.1	0.0	0.0	100.0	40.3	100.0	0.0	0.0	
1"	69.0	32.1	100.0	13.1	0.0	0.0	100.0	40.3	85.6	14.4	14.4	
3/4"	38.0	17.7	100.0	13.1	0.0	0.0	100.0	40.3	71.1	28.9	14.4	
1/2"	17.0	7.9	94.0	12.3	0.0	0.0	100.0	40.3	60.6	39.4	10.6	
3/8"	10.0	4.7	66.0	8.7	0.0	0.0	100.0	40.3	53.6	46.4	6.9	
# 4	3.0	1.4	11.0	1.4	0.0	0.0	98.0	39.5	42.3	57.7	11.3	
# 8	2.0	0.9	4.0	0.5	0.0	0.0	86.0	34.7	36.1	63.9	6.2	
# 16	1.0	0.5	3.0	0.4	0.0	0.0	69.0	27.8	28.7	71.3	7.4	
# 30	1.0	0.5	3.0	0.4	0.0	0.0	51.0	20.6	21.4	78.6	7.3	
# 50	1.0	0.5	3.0	0.4	0.0	0.0	18.0	7.3	8.1	91.9	13.3	
# 100	1.0	0.5	3.0	0.4	0.0	0.0	3.0	1.2	2.1	97.9	6.0	
# 200	1.3	0.6	2.6	0.3	0.0	0.0	1	0.4	1.3	98.7	0.8	

Fine Aggregate Fineness Modulus: 2.75 FM

Coarseness Factor (x-axis): 72.6
((cumm. Ret 3/8 / cumm. Ret #8) x 100)

Workability Factor (y-axis): 36.1
(Pass #8 + Adjustment Factor)



James Plohg

