

Project: 696 (I-275 to Lasher) Representative Date: 05/28/24 - 06/4/24  
 Contractor: Daytona Redi Mix CT Project: 230408  
 MDOT Project: 63101-131589 Mix ID: BW- 00 (Slipform)  
 Max. Agg Size (INCH) 1.5



Daytona Redi Mix  
 7500 23 Mile Rd  
 Shelby Twp, MI 48316

Materials				
TYPE	SOURCE	CLASS	SPEC	F/T
Coarse	Stoneco-Ottawa Lake	CA	2.69	0.01
Intermediate Type 1	Stoneco-Ottawa Lake	IA	2.68	0.01
			1	
Fine	Mid Michigan-Vella	B	2.64	
Cement	Ash Grove- Missisauq	Type II	3.1	
GGBFS	Ash Grove - Detroit	Grade 100	2.91	

Total Cementitious:	611
Water/Cement Ratio:	0.42
% Cementitious Replacement	25%

Admixtures		
TYPE	SUPPLIER	DOSAGE (oz/cwt)
Mapeair Sa	Mapei	4
Dynamon SX	Mapei	5

Proportions (SSD)				
TYPE	WT (LBS)	SP. GRAV.	VOL. FT <sup>3</sup>	% Vol
Cement	458	3.1	2.37	
GGBFS	153	2.91	0.84	
Coarse	1525	2.69	9.09	49.85
Intermediate 1	300	2.68	1.79	9.84
		1	0.00	0
Fine	1210	2.64	7.35	40.3
Water	257	1	4.12	
Air, %	6.5		1.76	
			27.31	



Gradations										Gradation Date:		5/28/2024		
	COARSE		INTERMEDIATE 1		FINE									
SSD WT, LBS	1525		300		0		1210							
Abs. VOL.	9.09		1.79		0.00		7.35							
AG % VOL.	49.85		9.84		0.00		40.30							
Sieves	% PASS	% MIX	% PASS	% MIX	% PASS	% MIX	% PASS	% MIX	TOTAL % PASSING	% CUMM. RETAINED	RETAINED Sieve %	RETAINED SPEC, %		
2"	100	49.9	100	9.8	0.0	100	40.3	100.0	0.0	0.0	0.0			
1 1/2"	100	49.9	100	9.8	0.0	100	40.3	100.0	0.0	0.0	0.0			
1"	72	35.9	100	9.8	0.0	100	40.3	86.0	14.0	14.0	14.0			
3/4"	45	22.4	100	9.8	0.0	100	40.3	72.6	27.4	13.5	13.5			
1/2"	23	11.5	92	9.1	0.0	100	40.3	60.8	39.2	11.8	11.8			
3/8"	13	6.5	65	6.4	0.0	100	40.3	53.2	46.8	7.6	7.6			
#4	4	2.0	11	1.1	0.0	98	39.5	42.6	57.4	10.6	10.6			
#8	2	1.0	3	0.3	0.0	85	34.3	35.6	64.4	7.0	7.0			
#16	2	1.0	2	0.2	0.0	70	28.2	29.4	70.6	6.1	6.1			
#30	2	1.0	2	0.2	0.0	52	21.0	22.2	77.8	7.3	7.3			
#50	2	1.0	1	0.1	0.0	19	7.7	8.8	91.2	13.4	13.4			
#100	2	1.0	1	0.1	0.0	4	1.6	2.7	97.3	6.0	6.0			
#200	1.5	0.7	1.2	0.1	0.0	1.6	0.6	1.5	98.5	1.2	1.2			

Fine Agg Fineness Modulus: 2.73

\*Maximum % Retained must be above the 3/8" sieve.  
 \*Any two adjacent sieves must equal 10% except max. nom. Max. #100 and #200 sieves.  
 \*% Retained must be at least 4% for each 3/4" sieve when a 1.5" max size (nom. Max 1.0") aggregate is used.

Workability Factor:	35.6
Coarseness Factor:	72.6

