

Project: 696 (I-275 to Lasher) Representative Date: 08/27/24 - 09/02/24
 Contractor: Daytona Redi Mix CT Project: 230408
 MDOT Project: 63101-131589 Mix ID: BW-009
 Max. Agg Size (INCH) 2



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

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

Gradations												
	COARSE		INTERMEDIATE 1		FINE				Gradation Date:		5/28/2024	
SSD WT, LBS	1525		585		0		1211					
Abs. VOL.	7.45		3.50		0.00		7.35					
AG % VOL.	40.70		19.12		0.00		40.18					
Sieves	% PASS	% MIX	% PASS	% MIX	% PASS	% MIX	% PASS	% MIX	TOTAL % PASSING	% CUMM. RETAINED	RETAINED Sieve %	RETAINED SPEC, %
2"	100	40.7	100	19.1		0.0	100	40.2	100.0	0.0	0.0	
1 1/2"	100	40.7	100	19.1		0.0	100	40.2	100.0	0.0	0.0	
1"	48	19.5	100	19.1		0.0	100	40.2	78.8	21.2	21.2	
3/4"	20	8.1	100	19.1		0.0	100	40.2	67.4	32.6	11.4	
1/2"	8	3.3	95	18.2		0.0	100	40.2	61.6	38.4	5.8	
3/8"	5	2.0	70	13.4		0.0	100	40.2	55.6	44.4	6.0	
#4	2	0.8	24	4.6		0.0	98	39.4	44.8	55.2	10.8	
#8	2	0.8	11	2.1		0.0	85	34.2	37.1	62.9	7.7	
#16	2	0.8	6	1.1		0.0	69	27.7	29.7	70.3	7.4	
#30	2	0.8	3	0.6		0.0	51	20.5	21.9	78.1	7.8	
#50	2	0.8	3	0.6		0.0	20	8.0	9.4	90.6	12.5	
#100	2	0.8	2	0.4		0.0	2	0.8	2.0	98.0	7.4	
#200	1.7	0.7	2.4	0.5		0.0	1.4	0.6	1.7	98.3	0.3	

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	8 Fine	2.64	
Cement	Ash Grove- Missisauq	Type II	3.1	
GGBFS	Aszh Grove - Detroit	Grade 100	2.91	

Admixtures		
TYPE	SUPPLIER	DOSAGE (oz/cwt)
Mapeair Sa	Mapei	4.5
Dynamon SX	Mapei	
Maptard R (Poly R)	Mapei	3

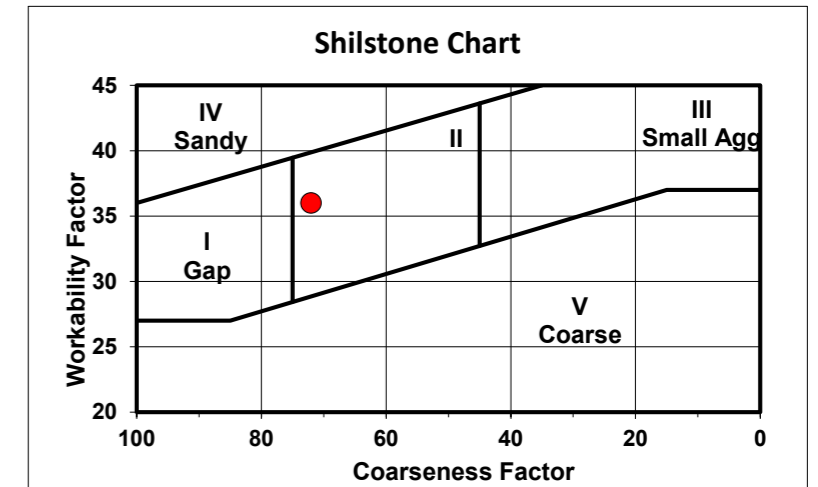
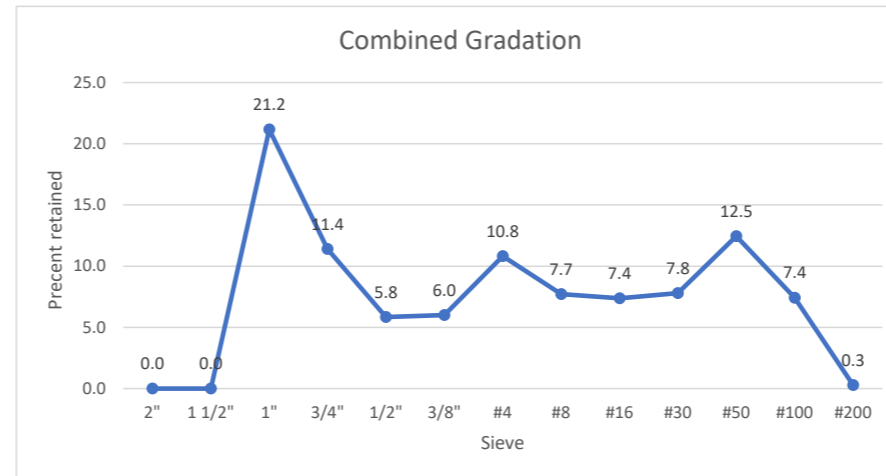
Proportions (SSD)				
TYPE	WT (LBS)	SP. GRAV.	VOL. FT ³	% Vol
Cement	458	3.1	2.37	
GGBFS	153	2.91	0.84	
Coarse	1250	2.69	7.45	49.85
Intermediate 1	585	2.68	3.50	9.84
		1	0.00	0
Fine	1211	2.64	7.35	40.3
Water	257	1	4.12	
Air, %	6.5		1.76	

27.38

*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.

Fine Agg Fineness Modulus:	2.75
----------------------------	------

Workability Factor:	37.1
Coarseness Factor:	70.6



James A. Plohq

James A. Plohq