Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-2**

Contractor: _____

Sample Date: 7/9/26

Concrete Grade: **DM, 4500HP**

Dates Test Represents: 7/10/2026 through 7/16/2026

1 inch slump

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1400	8.73	2.57	47.0
26A	71-47	Presque Isle	400	2.49	2.57	13.4
2NS	63-115	Ray Rd	1180	7.08	2.67	39.6
		Total Wt	**2980**	**18.31**		100.0

<----- Verify this number is 100%

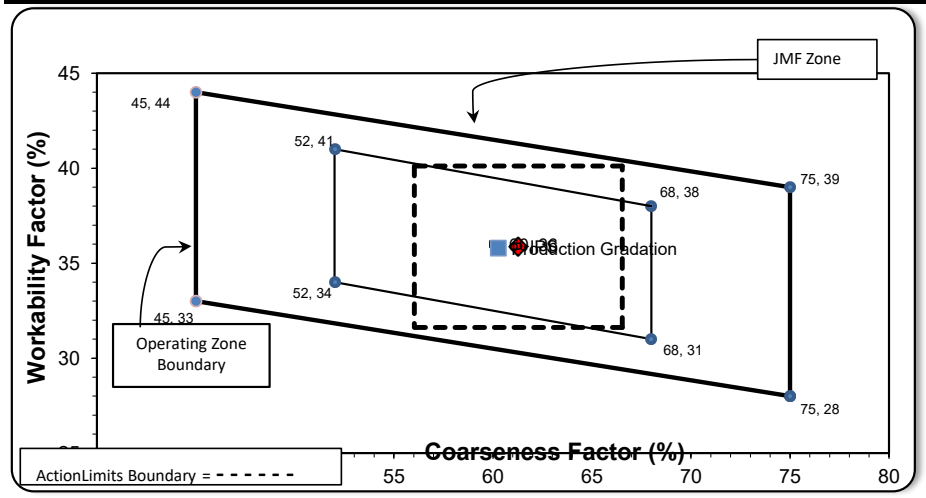
Superior Materials, LLC
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Suite 500
Farmington Hills, MI 48336

Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	97.8	100.0	100.0	99.0	1.0	1.0
3/4"	80.7	100.0	100.0	90.9	8.0	9.1
1/2"	38.5	98.3	100.0	70.9	20.1	29.1
3/8"	18.7	85.0	100.0	59.8	11.1	40.2
#4	3.0	19.8	95.9	42.0	17.8	58.0
#8	2.0	5.3	79.9	33.3	8.8	66.7
#16	1.8	3.0	64.1	26.6	6.7	73.4
#30	1.7	2.4	47.4	19.9	6.7	80.1
#50	1.6	2.2	23.8	10.5	9.4	89.5
#100	1.5	2.0	6.0	3.3	7.1	96.7
LBW	1.2	1.9	0.9	1.2	2.2	98.8

*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 sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") aggregate is used.

Production Gradation ◉ Batch Plant Gradations ○ Aggregate Supplier Gradations

Coarseness Factor:	60	Workability Factor:	33	Adjusted WF 35.8



Intial Production Sample (IPS)

Coarseness Factor:	61
Workability Factor:	36

Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:
SM, LLC Technical Service

Approved By:
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