Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-39**

Contractor: _____

Sample Date: 9/23/26

Concrete Grade: **S2M-3500HP**

Dates Test Represents: 9/24/2026 through 9/30/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1440	8.98	2.57	47.4
26A	71-47	Presque Isle	400	2.49	2.57	13.2
2NS	63-0009	Koenig	1200	7.26	2.65	39.5
		Total Wt	**3040**	**18.73**		100.0

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

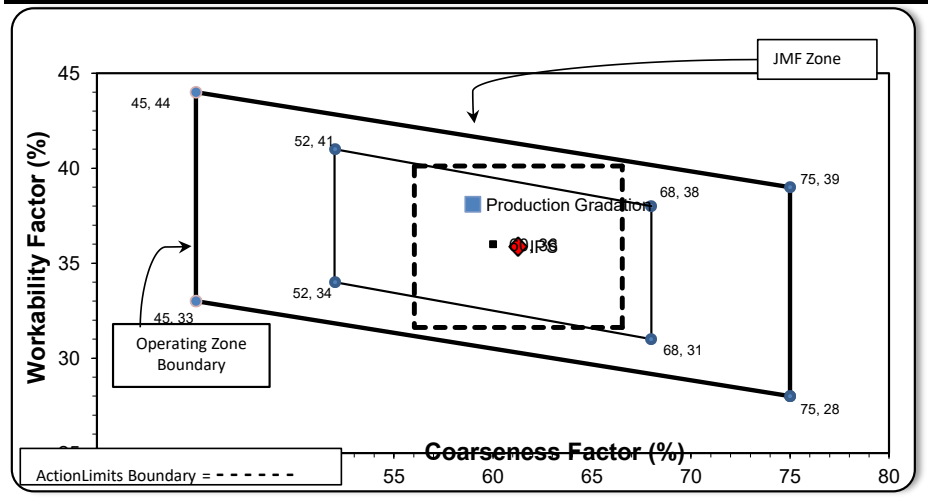
Superior Materials, LLC
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Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	98.7	100.0	100.0	99.4	0.6	0.6
3/4"	84.8	100.0	100.0	92.8	6.6	7.2
1/2"	42.9	95.4	100.0	72.3	20.5	27.7
3/8"	25.0	81.3	100.0	62.0	10.3	38.0
#4	4.6	22.2	97.8	43.7	18.3	56.3
#8	2.6	8.0	84.4	35.6	8.1	64.4
#16	2.2	3.9	70.4	29.3	6.3	70.7
#30	2.0	2.8	53.5	22.4	6.9	77.6
#50	1.9	97.8	25.5	23.8	-1.4	76.2
#100	1.7	84.4	2.2	12.8	11.1	87.2
LBW	1.5	70.4	0.3	10.1	2.7	89.9

*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:	59	Workability Factor:	36	Adjusted WF 38.1



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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