

Aggregate Optimization Chart

PLANT #: **P-39**

Contractor: _____

Sample Date: 6/6/26

Concrete Grade: **S2M, 3500HP**

Dates Test Represents: 6/7/2026 through 6/14/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Preque Isle	1460	9.10	2.57	47.8
26A	71-47	Preque Isle	350	2.18	2.57	11.5
2NS	63-0009	Koenig	1244	7.47	2.67	40.7
Total Wt			3054	18.75		100.0

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



Superior Materials, LLC

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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"	99.1	100.0	100.0	99.6	0.4	0.4
3/4"	80.8	100.0	100.0	90.8	8.7	9.2
1/2"	42.6	96.0	100.0	72.1	18.7	27.9
3/8"	22.5	82.6	100.0	61.0	11.1	39.0
#4	4.4	16.8	95.5	42.9	18.0	57.1
#8	2.8	4.8	81.1	34.9	8.0	65.1
#16	2.5	2.8	65.8	28.3	6.6	71.7
#30	2.3	2.3	48.1	21.0	7.4	79.0
#50	2.2	2.2	21.0	9.9	11.1	90.1
#100	2.1	2.0	3.5	2.7	7.2	97.3
LBW	1.7	1.8	0.8	1.3	1.3	98.7

*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.

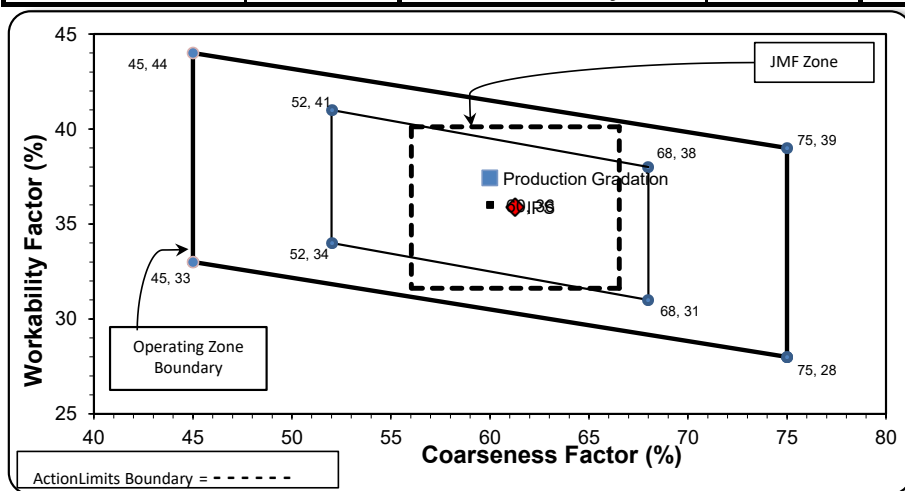
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	60	Workability Factor:	35	37.4
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Coarseness Factor:	61
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Workability Factor:	36
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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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