

Aggregate Optimization Chart

PLANT #: 102 6/6/2026

Sample Date: 6/6/26 Concrete Grade: **DM, 4500HP**

Dates Test Represents: 6/7/2026 through 6/14/2026 1 inch slump

Contractor: _____

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stone Co	1680	10.01	2.69	54.9
IA	58-003	Stone Co	200	1.19	2.69	6.5
2NS	81-019	Pleasant Lk	1180	7.14	2.65	38.6
Total Wt			3060	18.34		100.0

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



Superior Materials, LLC

30701 W. 10 Mile Rd.
Suite 500
Farmington Hills, MI 48336

Sieve	6AA	IA	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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	87.9	100.0	100.0	93.4	6.6	6.6
1/2"	46.7	91.9	100.0	70.2	23.1	29.8
3/8"	28.1	78.4	100.0	59.1	11.1	40.9
#4	3.8	20.1	97.6	41.0	18.1	59.0
#8	1.7	2.5	86.2	34.3	6.7	65.7
#16	1.4	1.7	69.9	27.8	6.5	72.2
#30	1.2	1.4	51.6	20.6	7.2	79.4
#50	1.1	1.3	17.9	7.6	13.1	92.4
#100	1.1	1.1	2.2	1.5	6.1	98.5
LBW	0.9	1.2	0.5	0.8	0.8	99.2

*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.

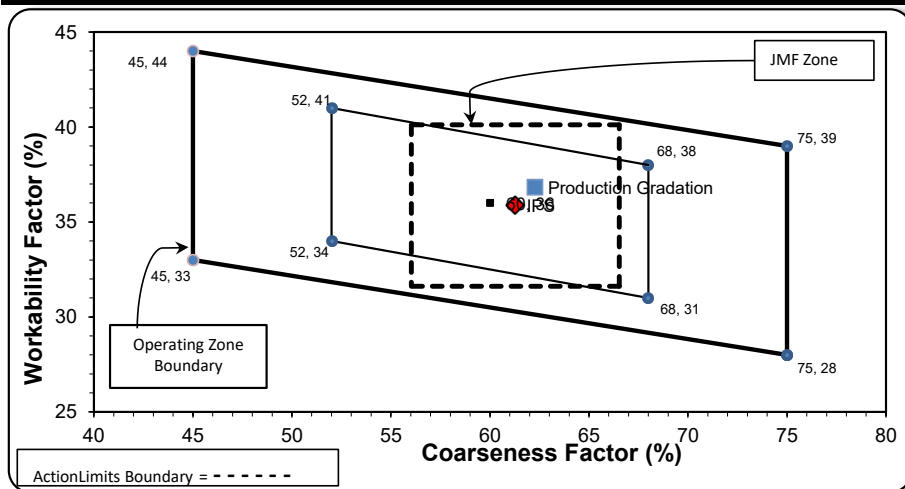
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	62	Workability Factor:	34	36.8
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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:
Nancy Donahue

Aggregate Optimization Chart

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Sample Date: 6/6/26 Concrete Grade: **DM, 4500HP**

Dates Test Represents: 6/7/2026 through 6/14/2026 5 inch slump

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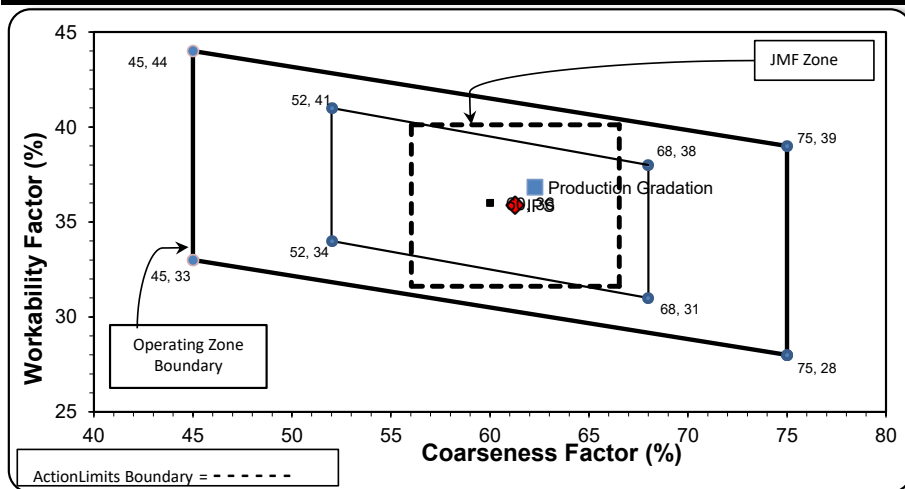
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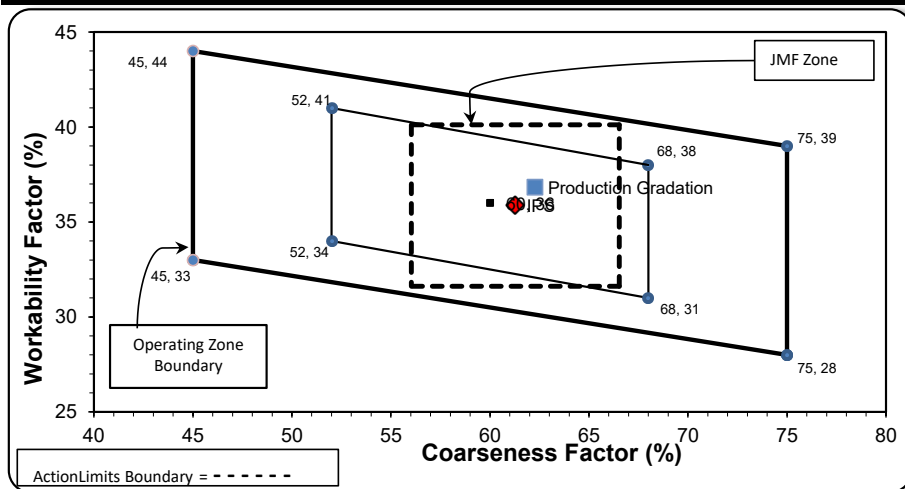
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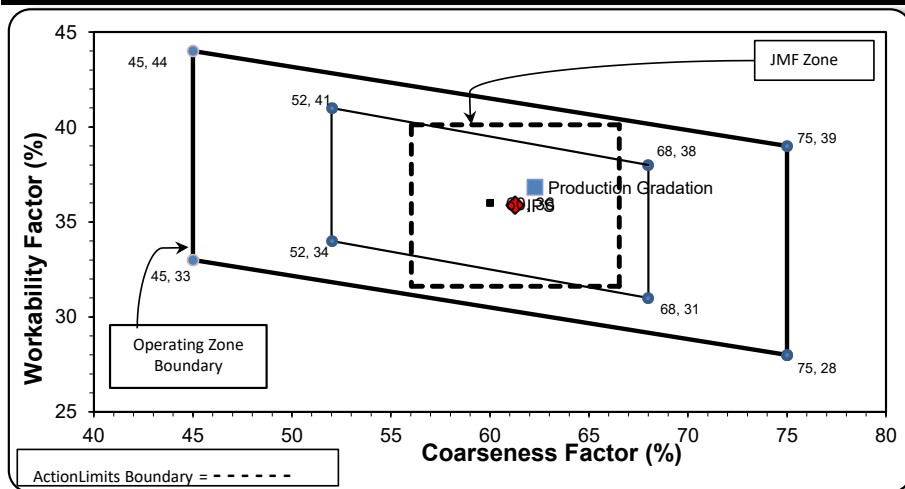
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