

Aggregate Optimization Chart

Production Gradation Report

PLANT #: 35

Sample Date: 7/16/26

Concrete Grade: **P1M, 3500HP**

Contractor: _____

Dates Test Represents: 7/17/2026 through 7/24/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	58-003	Stone Co	1320	7.86	2.69	41.9
IA	58-003	Stone Co	650	3.87	2.69	20.6
2NS	81-019	Pleasant Lake	1180	7.14	2.65	37.5
Total Wt			3150	18.87		100.0

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



Superior Materials, LLC

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Sieve	CA	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"	65.6	100.0	100.0	85.6	14.4	14.4
3/4"	37.4	100.0	100.0	73.8	11.8	26.2
1/2"	11.0	92.3	100.0	61.1	12.7	38.9
3/8"	5.8	77.8	100.0	55.9	5.2	44.1
#4	2.0	18.7	98.5	41.6	14.3	58.4
#8	1.9	2.6	86.1	33.6	8.0	66.4
#16	1.2	1.6	66.8	25.9	7.7	74.1
#30	1.1	1.4	44.9	17.6	8.3	82.4
#50	1.0	1.3	16.5	6.9	10.7	93.1
#100	1.0	1.2	3.5	2.0	4.9	98.0
LBW	0.9	1.1	0.6	0.8	1.1	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.

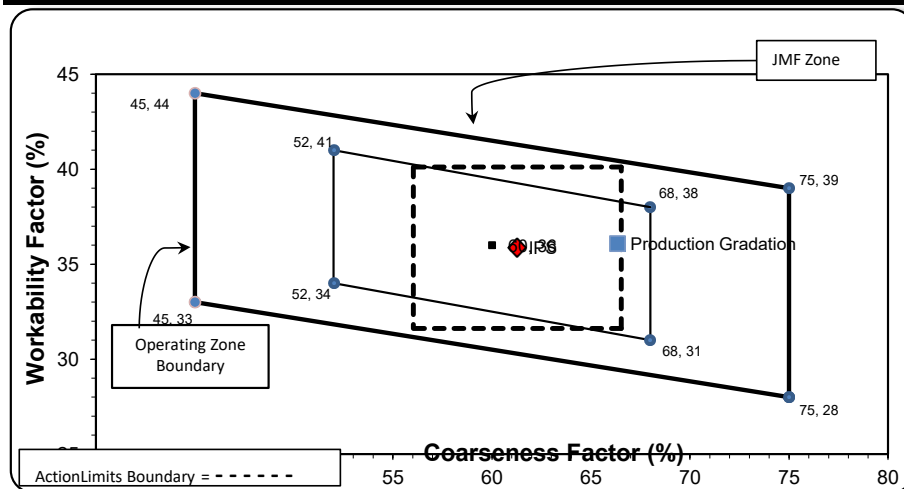
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	66	Workability Factor:	34	36.1
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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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