

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-38**

Sample Date: 8/6/26

Concrete Grade: **DM-4500HP**

Contractor: _____

Dates Test Represents: 8/7/2026 through 8/13/2026

5 inch

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	58-003	Stone Co	1500	8.94	2.69	50.8
1A	58-003	Stone Co	300	1.79	2.69	10.2
2NS	81-019	Pleasant Lk	1150	6.95	2.65	39.0
Total Wt			2950	17.68		100.0

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



Superior Materials, LLC

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Sieve	6AA	1A	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"	99.8	100.0	100.0	99.9	0.1	0.1
3/4"	83.7	100.0	100.0	91.7	8.2	8.3
1/2"	42.1	91.4	100.0	69.7	22.0	30.3
3/8"	24.3	75.3	100.0	59.0	10.7	41.0
#4	3.9	16.4	98.2	41.9	17.1	58.1
#8	1.7	2.2	86.1	34.7	7.3	65.3
#16	1.1	1.5	66.0	26.4	8.2	73.6
#30	1.0	1.4	44.6	18.0	8.4	82.0
#50	0.9	1.3	15.9	6.8	11.2	93.2
#100	0.9	1.2	3.8	2.1	4.7	97.9
LBW	0.9	1.0	0.8	0.9	1.2	99.1

*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.

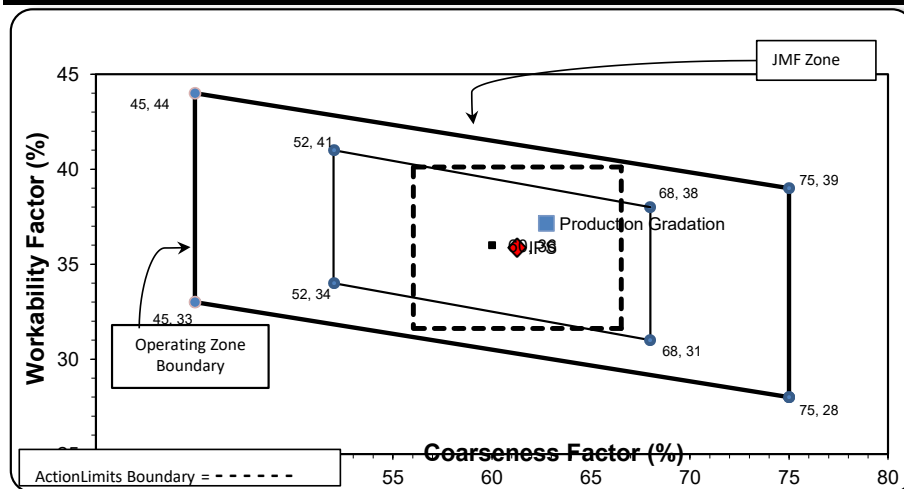
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	63	Workability Factor:	35	37.2
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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:
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Approved By:
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