

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-103**

Contractor: _____

Sample Date: 6/2/25

Concrete Grade: **P1M, 3500HP, 4000HP**

Dates Test Represents: 6/3/2025 through 6/9/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	58-003	Stoneco	1450	8.64	2.69	46.5
IA	58-003	Stoneco	470	2.80	2.69	15.1
2NS	63-114	Highland	1200	7.26	2.65	38.5
Total Wt			3120	18.70		100.0

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

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"	64.5	100.0	100.0	83.5	16.5	16.5
3/4"	31.7	100.0	100.0	68.3	15.2	31.7
1/2"	15.4	90.5	100.0	59.3	9.0	40.7
3/8"	9.5	70.0	100.0	53.4	5.8	46.6
#4	3.1	16.0	99.2	42.0	11.4	58.0
#8	2.3	2.5	85.9	34.5	7.5	65.5
#16	2.0	1.9	68.0	27.4	7.1	72.6
#30	1.9	1.7	48.2	19.7	7.7	80.3
#50	1.7	1.6	21.6	9.3	10.3	90.7
#100	1.7	1.5	3.4	2.3	7.0	97.7
LBW	1.5	1.3	0.5	1.1	1.2	98.9

*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 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Superior Materials, LLC

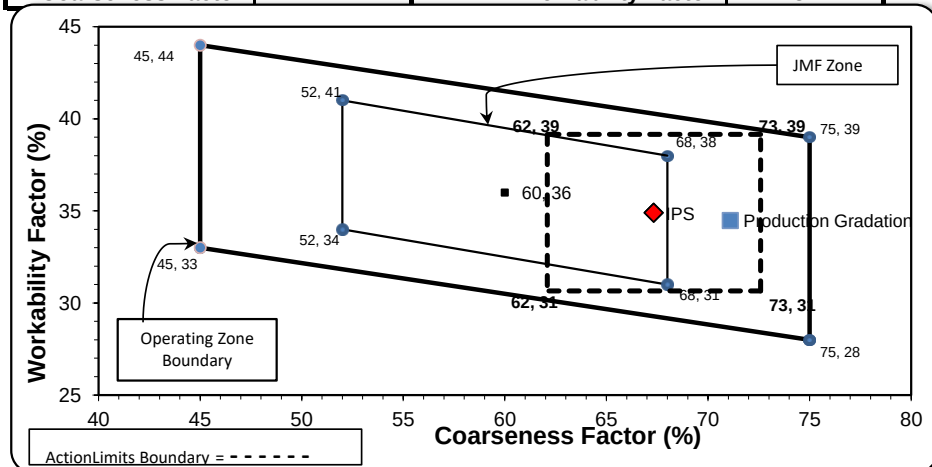
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Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Coarseness Factor:	71	Workability Factor:	34
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Initial Production Sample (IPS)

Coarseness Factor:		67	
Workability Factor:		35	
Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

PREPARED BY:
SM, LLC Technical Service

Approved BY:

[Signature]