

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-103**

Sample Date: 6/30/25

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 7/1/2025 through 7/7/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1530	9.11	2.69	51.9
26A	58-003	Stoneco	270	1.61	2.69	9.2
2NS	63-114	Highland	1150	6.95	2.65	39.0
Total Wt			2950	17.68		100.0

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

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"	99.6	100.0	100.0	99.8	0.2	0.2
3/4"	81.2	100.0	100.0	90.2	9.5	9.8
1/2"	43.0	99.3	100.0	70.4	19.9	29.6
3/8"	25.0	84.6	100.0	59.7	10.7	40.3
#4	4.7	8.4	98.7	41.7	18.0	58.3
#8	2.2	4.2	84.5	34.5	7.2	65.5
#16	1.4	2.0	67.3	27.1	7.3	72.9
#30	1.3	1.7	47.8	19.5	7.7	80.5
#50	1.2	1.6	20.8	8.9	10.6	91.1
#100	1.2	1.5	3.9	2.3	6.6	97.7
LBW	1.2	1.4	0.6	1.0	1.3	99.0

*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.



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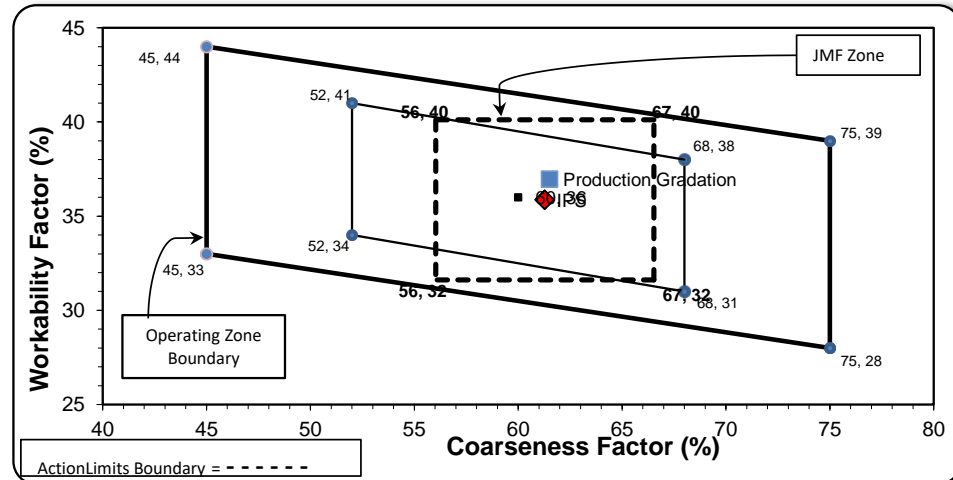
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	62	Workability Factor:	34	37.0
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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:

[Signature]