

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-102**

Sample Date: 2/26/24

Concrete Grade: DM, 4500HP

Contractor: _____

Dates Test Represents: 2/27/2024 through 3/4/2024

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1400	8.34	2.69	47.5
26A	58-003	Stoneco	400	2.38	2.69	13.6
2NS	63-114	Highland	1150	6.95	2.65	39.0
Total Wt			2950	17.68		100.0

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



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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"	99.5	100.0	100.0	99.8	0.2	0.2
3/4"	83.1	100.0	100.0	92.0	7.8	8.0
1/2"	37.5	98.8	100.0	70.2	21.8	29.8
3/8"	15.3	86.4	100.0	58.0	12.2	42.0
#4	3.4	10.6	99.0	41.6	16.3	58.4
#8	2.7	3.2	83.3	34.2	7.5	65.8
#16	2.5	2.2	64.8	26.7	7.4	73.3
#30	2.3	1.9	45.2	19.0	7.8	81.0
#50	2.2	1.7	17.7	8.2	10.8	91.8
#100	1.9	1.6	3.0	2.3	5.9	97.7
LBW	1.7	1.5	0.5	1.2	1.1	98.8

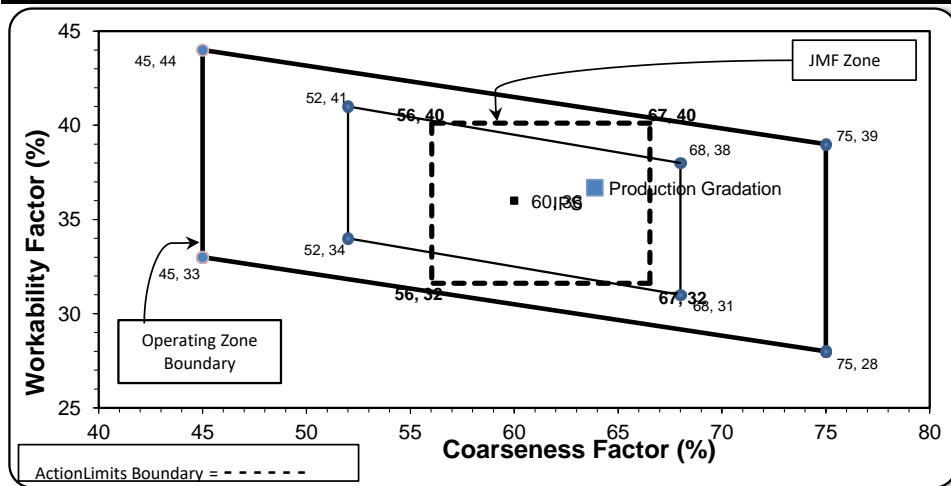
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") aggregate is used.

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	64	Workability Factor:	34	Adjusted WF	36.7
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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: