

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-35**

Sample Date: 8/21/26

Concrete Grade: **P1M-3500HP**

Contractor: _____

Dates Test Represents: 8/22/2026 through 8/28/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	58-003	Stoneco	1200	7.15	2.69	37.7
IA	58-003	Stoneco	780	4.65	2.69	24.5
2NS	81-019	Pleasant Lake	1200	7.26	2.65	37.7
Total Wt			3180	19.05		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"	60.6	100.0	100.0	85.1	14.9	14.9
3/4"	27.6	100.0	100.0	72.7	12.5	27.3
1/2"	14.2	82.2	100.0	63.3	9.4	36.7
3/8"	9.2	60.0	100.0	55.9	7.3	44.1
#4	4.2	10.8	97.7	41.1	14.8	58.9
#8	2.8	2.6	83.2	33.1	8.0	66.9
#16	2.3	1.8	63.1	25.1	8.0	74.9
#30	2.0	1.6	41.0	16.6	8.5	83.4
#50	1.7	1.4	15.0	6.6	10.0	93.4
#100	1.6	1.3	3.0	2.1	4.6	97.9
LBW	1.4	1.1	0.7	1.1	1.0	98.9



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*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.

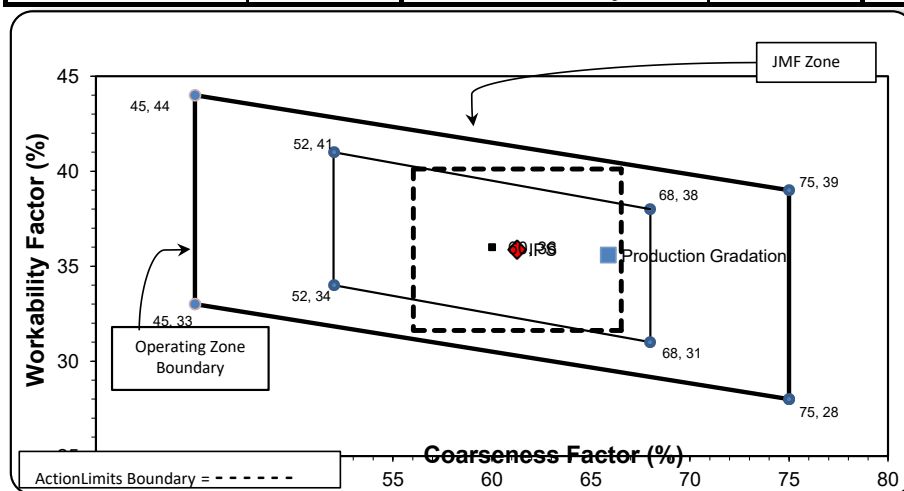
Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	66	Workability Factor:	33	35.6
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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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