Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-35**

Contractor: _____

Sample Date: 6/20/26

Concrete Grade: **P1M, 3500HP**

Dates Test Represents: 6/21/2026 through 6/27/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	58-003	Stone Co	1050	6.26	2.69	33.4
IA	58-003	Stone Co	900	5.36	2.69	28.7
2NS	81-019	Pleasant Lk	1190	7.20	2.65	37.9
		Total Wt	**3140**	**18.81**		100.0

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

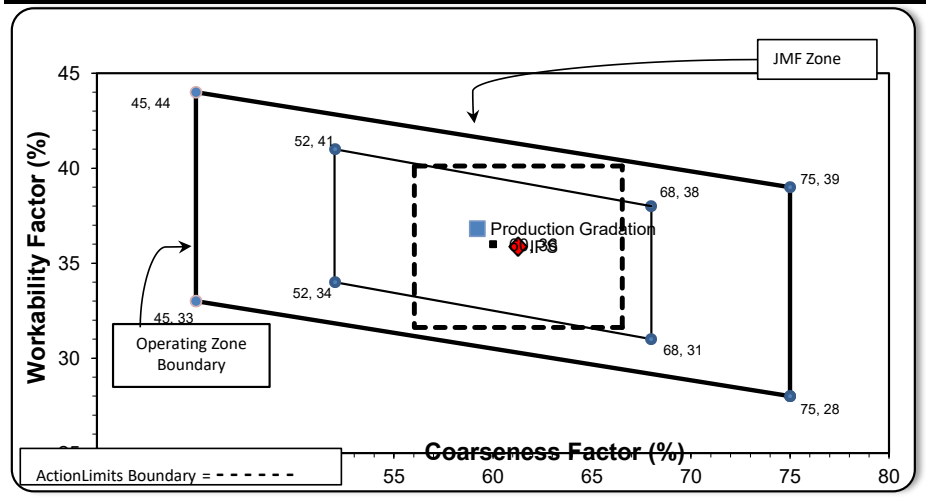
Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	44.0	100.0	100.0	81.3	18.7	18.7
3/4"	14.5	100.0	100.0	71.4	9.9	28.6
1/2"	4.5	91.7	100.0	65.7	5.7	34.3
3/8"	2.2	78.4	100.0	61.1	4.6	38.9
#4	1.2	20.1	98.5	43.5	17.6	56.5
#8	1.2	2.5	87.6	34.3	9.2	65.7
#16	1.2	1.7	71.1	27.8	6.5	72.2
#30	1.1	1.4	51.4	20.2	7.6	79.8
#50	1.1	1.3	18.0	7.6	12.7	92.4
#100	1.0	1.1	2.4	1.6	6.0	98.4
LBW	0.9	1.2	0.7	0.9	0.6	99.1

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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

Coarseness Factor:	59	Workability Factor:	34	Adjusted WF 36.8



Intial Production Sample (IPS)

Coarseness Factor:	61
Workability Factor:	36

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:
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