

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-2**

Sample Date: 7/9/26

Concrete Grade: **P1M, 3500HP**

Contractor: _____

Dates Test Represents: 7/10/2026 through 7/16/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	960	5.99	2.57	31.2
IA	71-47	Presque Isle	940	5.86	2.57	30.5
2NS	63-115	Ray Rd	1180	7.08	2.67	38.3
Total Wt			3080	18.93		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"	97.4	100.0	100.0	99.2	0.8	0.8
1"	44.8	100.0	100.0	82.8	16.4	17.2
3/4"	12.8	98.6	100.0	72.4	10.4	27.6
1/2"	3.8	80.6	100.0	64.1	8.3	35.9
3/8"	2.4	56.2	100.0	56.2	7.9	43.8
#4	1.6	9.5	95.8	40.1	16.1	59.9
#8	1.4	3.4	82.6	33.1	7.0	66.9
#16	1.4	2.3	64.5	25.8	7.3	74.2
#30	1.3	2.2	47.8	19.4	6.5	80.6
#50	1.3	1.9	24.5	10.4	9.0	89.6
#100	1.2	1.9	5.4	3.0	7.3	97.0
LBW	1.1	1.7	0.8	1.2	1.9	98.8



Superior Materials, LLC

30701 W. 10 Mile Rd.
Suite 500
Farmington Hills, MI 48336

*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.

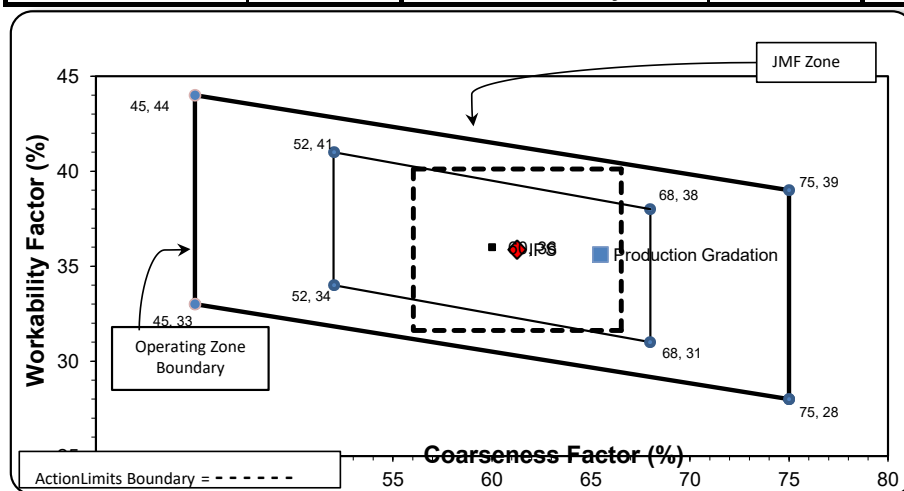
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	65	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:
SM, LLC Technical Service

Approved By:
Nancy Donahue

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-11**

Sample Date: **7/9/26**

Concrete Grade: **P1M, 3500HP**

Contractor: _____

Dates Test Represents: **7/10/2026** through **7/16/2026**

MDOT No.: _____

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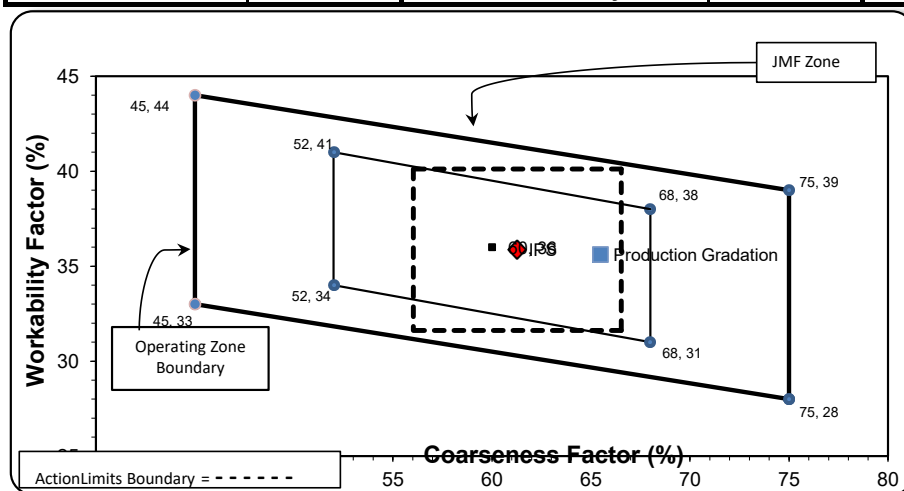
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LBW	0.7	1.2	99.3

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Nancy Donahue

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-36**

Sample Date: 7/9/26

Concrete Grade: **P1M, 3500HP**

Contractor: _____

Dates Test Represents: 7/10/2026 through 7/16/2026

MDOT No.: _____

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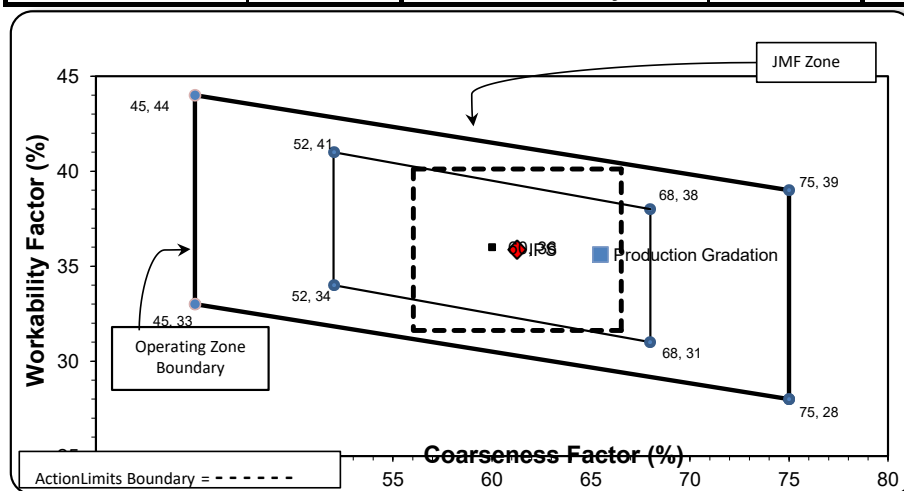
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