

# Aggregate Optimization Chart

**PLANT #:** **P-11**

Sample Date: 4/17/26

Concrete Grade: **PM, 3500HP**

Contractor: \_\_\_\_\_

Dates Test Represents: 4/18/2026 through 4/24/2026

MDOT No.: \_\_\_\_\_

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	880	5.53	2.55	28.7
IA	71-47	Presque Isle	990	6.22	2.55	32.2
2NS	63-115	Ray Rd.	1200	7.23	2.66	39.1
<b>Total Wt</b>			<b>3070</b>	<b>18.98</b>		<b>100.0</b>

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



**Superior Materials, LLC**

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

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"	50.5	100.0	100.0	85.8	14.2	14.2
3/4"	9.0	97.8	100.0	73.2	12.6	26.8
1/2"	2.8	76.9	100.0	64.7	8.5	35.3
3/8"	2.3	51.3	100.0	56.3	8.4	43.7
#4	1.8	8.7	97.4	41.4	14.9	58.6
#8	1.7	2.9	83.3	34.0	7.4	66.0
#16	1.6	2.2	63.8	26.1	7.9	73.9
#30	1.5	2.1	47.2	19.6	6.5	80.4
#50	1.4	1.9	24.4	10.6	9.0	89.4
#100	1.3	1.9	4.9	2.9	7.7	97.1
LBW	1.0	1.7	0.7	1.1	1.8	98.9

\*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.

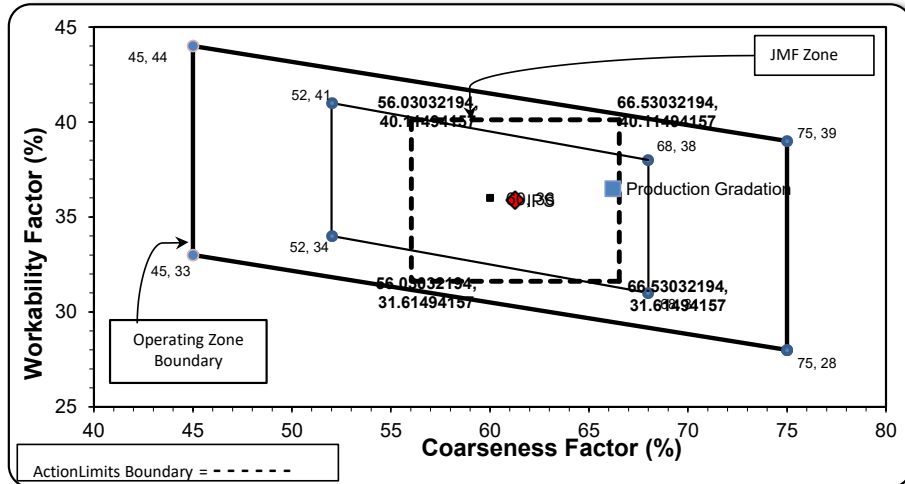
Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

<b>Coarseness Factor:</b>	<b>66</b>	<b>Workability Factor:</b>	<b>34</b>	<b>36.5</b>
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<b>Coarseness Factor:</b>	<b>61</b>
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<b>Workability Factor:</b>	<b>36</b>
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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:  
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