

# Aggregate Optimization Chart

**PLANT #:** **P-35**

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

Sample Date: 5/23/26 (Holiday Weekend no production) Concrete Grade: **P1M, 3500HP**

Dates Test Represents: 5/24/2026 through 6/2/2026 **5" SLUMP**

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

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	StoneCo	1130	6.73	2.69	37.4
IA	58-003	StoneCo	740	4.41	2.69	24.5
2NS	89-019	Pleasant Lk	1150	6.95	2.65	38.1
<b>Total Wt</b>			<b>3020</b>	<b>18.10</b>		<b>100.0</b>

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



**Superior Materials, LLC**  
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 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"	59.1	100.0	100.0	84.7	15.3	15.3
3/4"	27.4	100.0	100.0	72.8	11.9	27.2
1/2"	8.5	93.1	100.0	64.1	8.8	35.9
3/8"	4.1	77.0	100.0	58.5	5.6	41.5
#4	2.1	21.3	98.2	43.4	15.1	56.6
#8	2.0	5.7	86.2	35.0	8.4	65.0
#16	1.8	3.5	69.9	28.1	6.8	71.9
#30	1.7	3.0	51.4	20.9	7.2	79.1
#50	1.6	2.8	19.3	8.6	12.3	91.4
#100	1.5	2.4	2.4	2.1	6.6	97.9
LBW	1.3	0.2	0.5	0.7	1.3	99.3

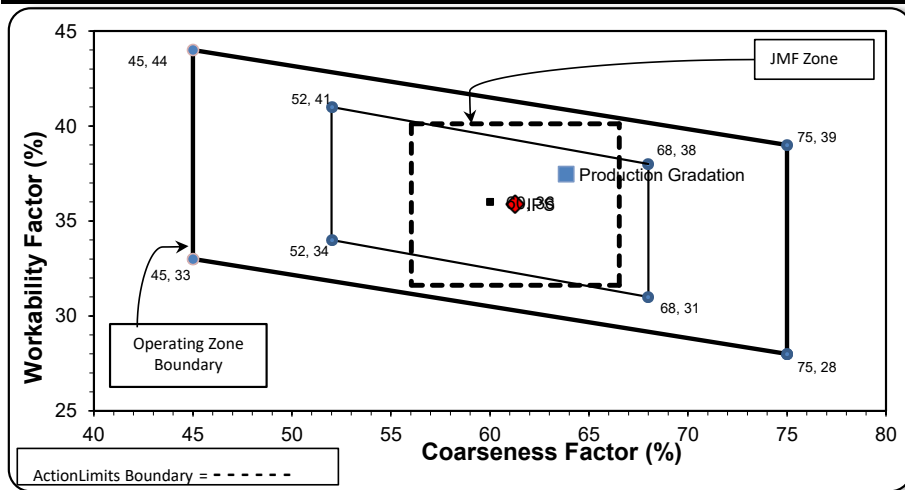
\*Maximum % Retained must be above the 3/8" sieve.  
 \*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.  
 \*\*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.  
 \*\*\*% Retained must be at least 4% for the 3/4" sieve when 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>64</b>	<b>Workability Factor:</b>	<b>35</b>	<b>37.5</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:  
 Nancy Donahue



# Daily Summary Report

Date Saturday, May 23, 2026

Sample Id	-1989638977	-674925831	-1989638979
Plant	S35 Superior Romulus	S35 Superior Romulus	S35 Superior Romulus
Product	1022 2NS GR	7919 COARSE AGG P1M LS	7920 INTERMED AGG P1M LS
Specification	2NS GR Spec	Coarse Agg P1M LS Target	Intermed Agg P1M LS Target
Sample Type	QA	QA	QA
Time	12:00	12:00	12:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		59.1	100.0
3/4" (19mm)		27.4	100.0
1/2" (12.5mm)		8.5	93.1
3/8" (9.5mm)	100.0	4.1	77.0
#4 (4.75mm)	98.2	2.1	21.3
#8 (2.36mm)	86.2	2.0	5.7
#16 (1.18mm)	69.9	1.8	3.5
#30 (.6mm)	51.4	1.7	3.0
#50 (.3mm)	19.3	1.6	2.8
#100 (.15mm)	2.4	1.5	2.4
#200 (75µm)	0.8	1.4	2.3
Pan	0.0	0.0	0.0
FM	2.72		
Wash Loss (#200/75um)	0.5	1.3	2.2
Total Moisture	3.05	1.79	3.01



# Daily Summary Report

Comments

Query Selections  
Date Created 05/23/2026  
Date Range 05/24/2026 - 05/31/2026  
Plant Superior Romulus  
Sample Type QA