

# Aggregate Optimization Chart

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

Sample Date: 6/13/26

Concrete Grade: **P1M, 3500HP**

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

Dates Test Represents: 6/14/2026 through 6/21/2026

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

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	Stone Co	1130	6.73	2.69	35.8
IA	58-003	Stone Co	850	5.06	2.69	26.9
2NS	81-019	Pleasant Lk	1180	7.14	2.65	37.3
<b>Total Wt</b>			<b>3160</b>	<b>18.93</b>		<b>100.0</b>

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



**Superior Materials, LLC**

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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	82.3	17.7	17.7
3/4"	22.5	100.0	100.0	72.3	10.0	27.7
1/2"	11.0	87.0	100.0	64.7	7.6	35.3
3/8"	6.0	65.4	100.0	57.1	7.6	42.9
#4	2.0	10.3	98.0	40.1	17.0	59.9
#8	1.5	2.3	86.9	33.6	6.5	66.4
#16	1.4	1.4	71.2	27.5	6.1	72.5
#30	1.1	1.2	51.7	20.0	7.4	80.0
#50	1.1	1.1	17.2	7.1	12.9	92.9
#100	1.0	1.1	2.0	1.4	5.7	98.6
LBW	0.9	1.0	0.5	0.8	0.6	99.2

\*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.

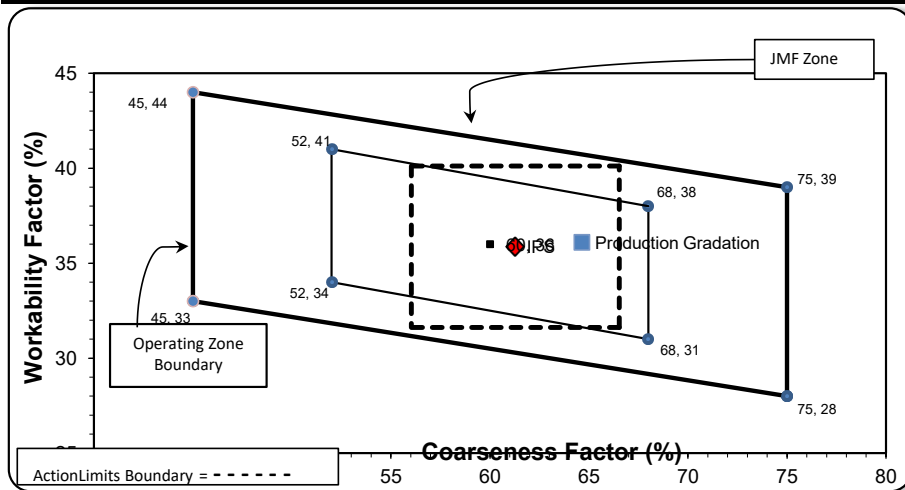
Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

<b>Coarseness Factor:</b>	<b>65</b>	<b>Workability Factor:</b>	<b>34</b>	<b>36.1</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, June 13, 2026

Sample Id	-1989637472	674944301	-1989637473
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	14:00	14:00	14:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		50.5	100.0
3/4" (19mm)		22.5	100.0
1/2" (12.5mm)		11.0	87.0
3/8" (9.5mm)	100.0	6.0	65.4
#4 (4.75mm)	98.0	2.0	10.3
#8 (2.36mm)	86.9	1.5	2.3
#16 (1.18mm)	71.2	1.4	1.4
#30 (.6mm)	51.7	1.1	1.2
#50 (.3mm)	17.2	1.1	1.1
#100 (.15mm)	2.0	1.0	1.1
#200 (75µm)	0.7	0.9	1.0
Pan	0.0	0.0	0.0
FM	2.73		
Wash Loss (#200/75um)	0.5	0.9	1.0
Total Moisture	3.55	1.47	2.08