

Aggregate Optimization Chart

PLANT #: P-2

Contractor: _____

Sample Date: 6/6/26

Concrete Grade: DM, 4500HP

Dates Test Represents: 6/7/2026 through 6/14/2026 1 inch slump

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Preque Isle	1500	9.35	2.57	50.3
26A	71-47	Preque Isle	400	2.49	2.57	13.4
2NS	63-115	Ray Rd	1080	6.48	2.67	36.2
Total Wt			2980	18.33		100.0

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



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

Sieve	6AA	26A	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"	99.1	100.0	100.0	99.5	0.5	0.5
3/4"	80.8	100.0	100.0	90.3	9.2	9.7
1/2"	42.6	96.0	100.0	70.6	19.8	29.4
3/8"	22.5	82.6	100.0	58.7	11.9	41.3
#4	4.4	16.8	95.5	39.1	19.6	60.9
#8	2.8	4.8	81.1	31.4	7.6	68.6
#16	2.5	2.8	65.8	25.5	6.0	74.5
#30	2.3	2.3	48.1	18.9	6.6	81.1
#50	2.2	2.2	21.0	9.0	9.9	91.0
#100	2.1	2.0	3.5	2.6	6.4	97.4
LBW	1.7	1.8	0.8	1.4	1.2	98.6

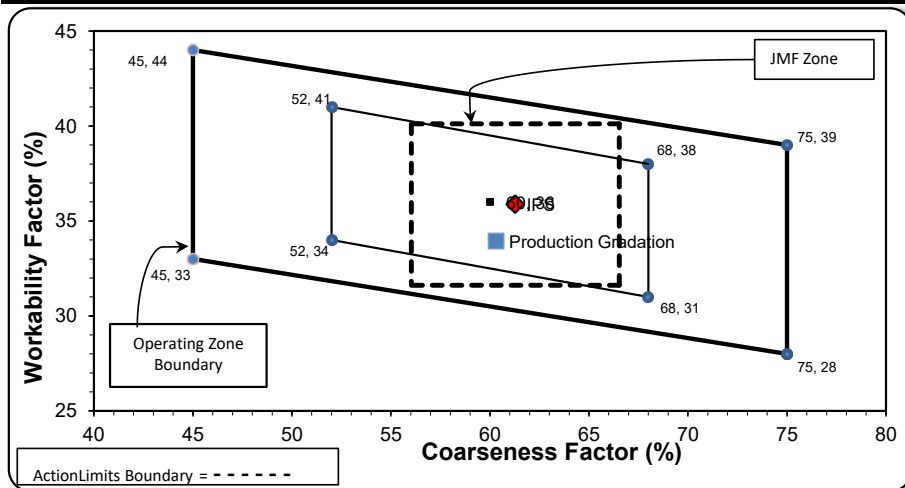
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") aggregate is used.

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	60	Workability Factor:	31	33.9
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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



Daily Summary Report

Date Friday, June 6, 2026

	Sample Id -1989638479	-719224682	-1989638480
Plant	Hoover	Hoover	Hoover
Product	1022 2NS GR	1054 6AA LS PI	1067 26A Mod LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec
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)		99.1	100.0
3/4" (19mm)		80.8	100.0
1/2" (12.5mm)		42.6	96.0
3/8" (9.5mm)	100.0	22.5	82.6
#4 (4.75mm)	95.5	4.4	16.8
#8 (2.36mm)	81.1	2.8	4.8
#16 (1.18mm)	65.8	2.5	2.8
#30 (.6mm)	48.1	2.3	2.3
#50 (.3mm)	21.0	2.2	2.2
#100 (.15mm)	3.5	2.1	2.0
#200 (75µm)	1.0	1.91	1.9
Pan	0.0	0.00	0.0
FM	2.85		
Wash Loss (#200/75um)	0.8	1.7	1.8
Total Moisture	4.09	2.79	2.29



Daily Summary Report

Comments

Query Selections
Date Created 06/06/2026
Date Range 06/07/2026 - 06/14/2026
Plant Superior Hoover
Sample Type QA

Aggregate Optimization Chart

PLANT #: **P-2**

Sample Date: **6/6/26**

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: **6/7/2026** through **6/14/2026** 5 inch slump

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Preque Isle	1450	9.04	2.57	50.3
26A	71-47	Preque Isle	350	2.18	2.57	12.2
2NS	63-115	Ray Rd	1080	6.48	2.67	37.5
Total Wt			2880	17.71		100.0

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



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1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	99.1	100.0	100.0	99.5	0.5	0.5
3/4"	80.8	100.0	100.0	90.3	9.2	9.7
1/2"	42.6	96.0	100.0	70.6	19.7	29.4
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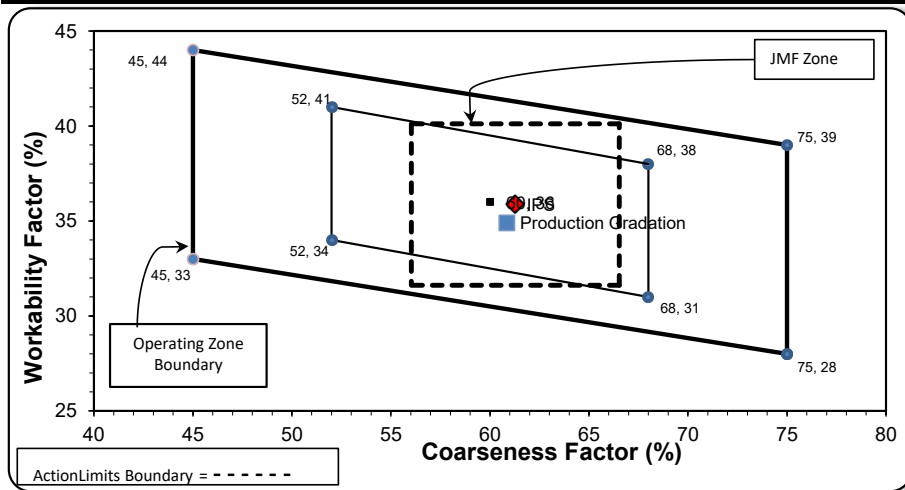
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