

Aggregate Optimization Chart

PLANT #: p11

Contractor: _____

Sample Date: 2/17/26

Concrete Grade: DM, 4500HP

Dates Test Represents: 2/18/2026 through 2/24/2026

MDOT No.: _____



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

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1480	9.05	2.62	50.5
26A	71-47	Presque Isle	300	1.83	2.62	10.2
2NS	63-115	Ray Rd	1150	6.95	2.65	39.2
Total Wt			2930	17.84		100.0

----- Verify this number is 100%

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"	98.8	100.0	100.0	99.4	0.6	0.6
3/4"	83.3	100.0	100.0	91.6	7.8	8.4
1/2"	40.3	95.6	100.0	69.4	22.2	30.6
3/8"	21.0	82.9	100.0	58.3	11.0	41.7
#4	2.3	24.6	97.5	41.9	16.4	58.1
#8	1.4	8.4	79.6	32.8	9.1	67.2
#16	1.3	4.6	62.8	25.8	7.0	74.2
#30	1.3	3.6	47.1	19.5	6.3	80.5
#50	1.3	3.2	24.8	10.7	8.8	89.3
#100	1.2	2.9	4.6	2.7	8.0	97.3
LBW	1.1	2.6	0.6	1.1	1.7	98.9

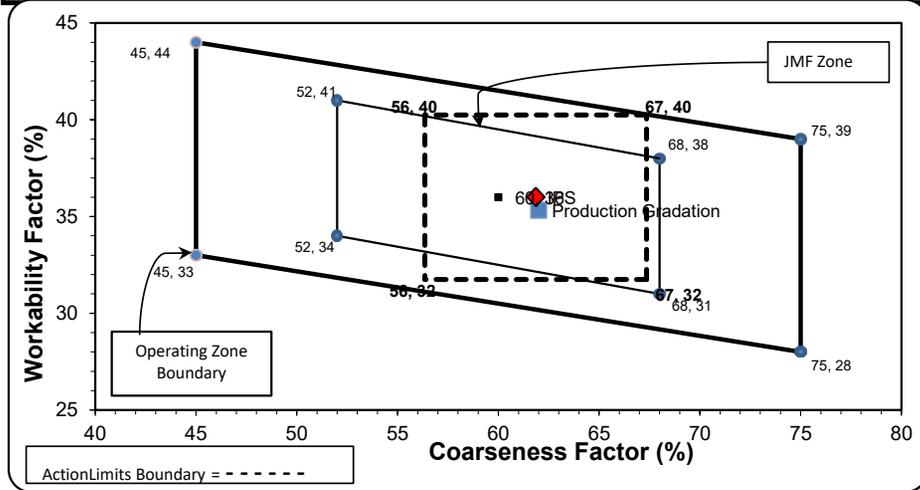
*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size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

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	62	Workability Factor:	33
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Coarseness Factor:	62
Workability Factor:	36



Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	95.0	5.0	5.0
1/2"	72.3	22.8	27.7
3/8"	60.4	11.8	39.6
#4	42.6	17.8	57.4
#8	36.0	6.6	64.0
#16	29.5	6.5	70.5
#30	20.3	9.2	79.7
#50	9.5	10.8	90.5
#100	3.4	6.1	96.6
LBW	1.3	2.1	98.7

PREPARED BY:
SM, LLC Technical Service

Approved By:
Nancy Donahue

Daily Summary Report

Date Tuesday, February 17, 2026

Sample Id	-674920073	-1989642700	-1989642701
Plant	Onsite Jefferson	Onsite Jefferson	Onsite Jefferson
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS
Specification	2NS GR Spec		26A Mod LS Spec
Sample Type	QA	QA	QA
Time	08:00	08:00	08:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		99.5	100.0
3/4" (19mm)		86.8	100.0
1/2" (12.5mm)		44.0	96.2
3/8" (9.5mm)	100.0	23.5	82.8
#4 (4.75mm)	97.8	3.9	17.3
#8 (2.36mm)	81.7	2.5	6.1
#16 (1.18mm)	65.0	2.2	3.6
#30 (.6mm)	48.3	2.1	3.0
#50 (.3mm)	24.7	2.0	2.7
#100 (.15mm)	5.7	1.9	2.5
#200 (75µm)	1.7	1.81	2.4
Pan	0.0	0.00	0.0
FM	2.77	2.77	2.77
-#200 (75um)	1.7	1.7	1.7
Wash Loss (#200/75um)	1.5	1.6	2.3
Total Moisture	3.0	2.8	4.3

Aggregate Optimization Chart

PLANT #: **P-O2**

Sample Date: 2/17/26

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 2/18/2026 through 2/24/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1480	9.05	2.62	50.5
26A	71-47	Presque Isle	300	1.83	2.62	10.2
2NS	63-115	Ray Rd	1150	6.95	2.65	39.2
Total Wt			2930	17.84		100.0

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



Superior Materials, LLC
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 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"	98.8	100.0	100.0	99.4	0.6	0.6
3/4"	83.3	100.0	100.0	91.6	7.8	8.4
1/2"	40.3	95.6	100.0	69.4	22.2	30.6
3/8"	21.0	82.9	100.0	58.3	11.0	41.7
#4	2.3	24.6	97.5	41.9	16.4	58.1
#8	1.4	8.4	79.6	32.8	9.1	67.2
#16	1.3	4.6	62.8	25.8	7.0	74.2
#30	1.3	3.6	47.1	19.5	6.3	80.5
#50	1.3	3.2	24.8	10.7	8.8	89.3
#100	1.2	2.9	4.6	2.7	8.0	97.3
LBW	1.1	2.6	0.6	1.1	1.7	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.

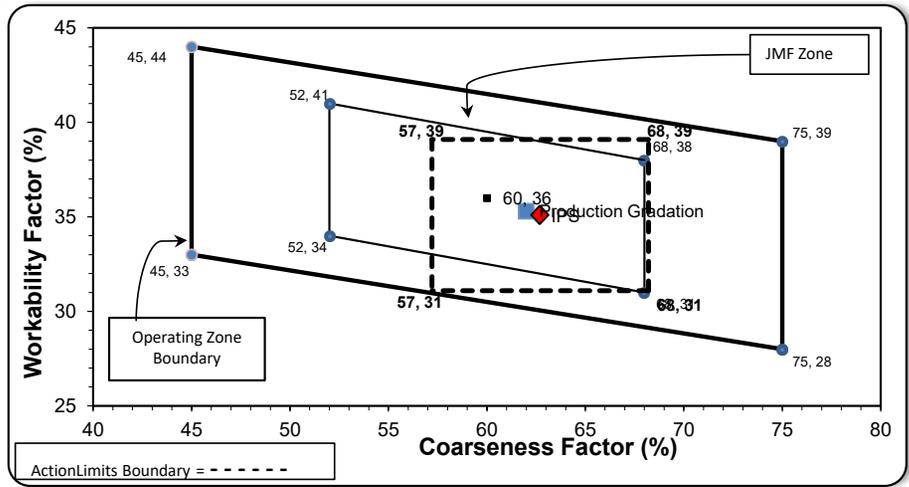
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	62	Workability Factor:	33	35.3
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Coarseness Factor:	63
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Workability Factor:	35
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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"	100.0	0.0	0.0
3/4"	95.1	4.9	4.9
1/2"	74.6	20.5	25.4
3/8"	59.3	15.3	40.7
#4	42.1	17.2	57.9
#8	35.1	7.1	64.9
#16	29.2	5.9	70.8
#30	21.9	7.3	78.1
#50	9.6	12.4	90.4
#100	2.4	7.2	97.6
LBW	0.9	1.5	99.1

PREPARED BY:
 SM, LLC Technical Service

Approved By:
 Nancy Donahue



Daily Summary Report

Date Tuesday, February 17, 2026

Sample Id	-674980812	-1989622580	-1989642699
Plant	S02 Superior Hoover	S02 Superior Hoover	S02 Superior 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	07:00	07:00	07:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		98.0	100.0
3/4" (19mm)		89.7	100.0
1/2" (12.5mm)		52.8	95.8
3/8" (9.5mm)	100.0	28.4	83.3
#4 (4.75mm)	96.7	4.4	16.3
#8 (2.36mm)	79.0	2.6	5.6
#16 (1.18mm)	61.4	2.4	3.6
#30 (.6mm)	44.4	2.2	3.1
#50 (.3mm)	22.0	2.1	2.8
#100 (.15mm)	5.4	2.0	2.7
#200 (75µm)	1.6	1.91	2.5
Pan	0.0	0.00	0.0
FM	2.91		
Wash Loss (#200/75um)	1.4	1.9	2.4
Total Moisture	5.03	2.90	3.18