

Aggregate Optimization Chart

PLANT #: **P-02**

Contractor: _____

Sample Date: 4/8/26

Concrete Grade: **DM, 4500HP**

Dates Test Represents: 4/9/2026 through 4/15/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1410	8.40	2.69	47.0
26A	71-47	Presque Isle	410	2.44	2.69	13.7
2NS	63-115	Ray Rd	1180	7.06	2.68	39.3
Total Wt			3000	17.90		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"	98.4	100.0	100.0	99.2	0.8	0.8
3/4"	84.9	100.0	100.0	92.9	6.3	7.1
1/2"	43.6	98.9	100.0	73.3	19.6	26.7
3/8"	22.8	87.7	100.0	62.0	11.3	38.0
#4	2.9	22.9	96.9	42.6	19.4	57.4
#8	2.0	7.1	79.1	33.0	9.6	67.0
#16	1.8	3.9	62.3	25.9	7.1	74.1
#30	1.8	3.2	45.0	19.0	6.9	81.0
#50	1.7	3.0	21.9	9.8	9.2	90.2
#100	1.6	2.8	4.9	3.1	6.8	96.9
LBW	1.5	2.3	1.1	1.5	1.6	98.5

*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.

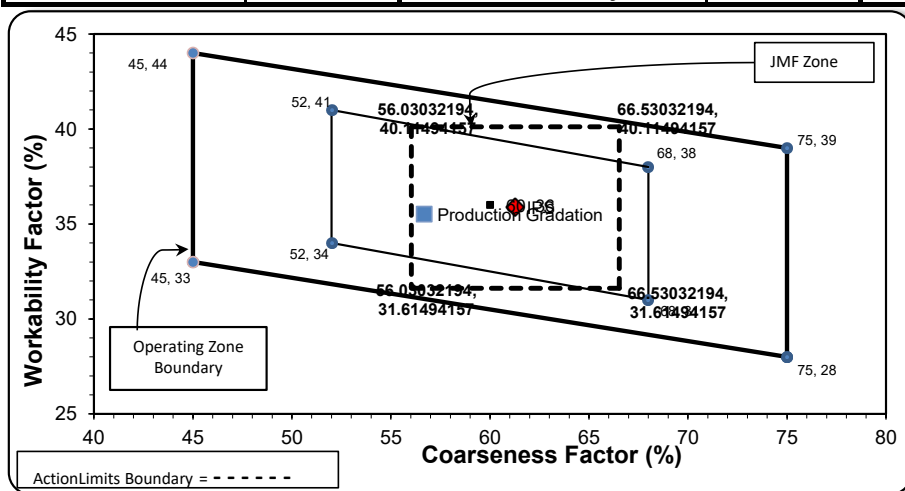
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	57	Workability Factor:	33	35.5
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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, April 08 2026

Sample Id	-1989641754	-674962948	-1989641756
Plant	S000 Superior Onsite	S000 Superior Onsite	S000 Superior Onsite
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	14:00	14:00	14:00
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		98.4	100.0
3/4" (19mm)		84.9	100.0
1/2" (12.5mm)		43.6	98.9
3/8" (9.5mm)	100.0	22.8	87.7
#4 (4.75mm)	96.9	2.9	22.9
#8 (2.36mm)	79.1	2.0	7.1
#16 (1.18mm)	62.3	1.8	3.9
#30 (.6mm)	45.0	1.8	3.2
#50 (.3mm)	21.9	1.7	3.0
#100 (.15mm)	4.9	1.6	2.8
#200 (75µm)	1.3	1.59	2.6
Pan	0.0	0.00	0.0
Wash Loss (#200/75um)	1.1	1.5	2.3
Total Moisture	3.1	2.3	2.6



Daily Summary Report

Comments

Query Selections
Date Created 04/10/2026
Date Range 04/05/2026 - 04/11/2026
Plant Superior Onsite
Sample Type QA

Aggregate Optimization Chart

PLANT #: **P-102**

Contractor: _____

Sample Date: 4/8/26

Concrete Grade: **DM, 4500HP**

Dates Test Represents: 4/9/2026 through 4/15/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1400	8.34	2.69	46.7
26A	71-47	Presque Isle	420	2.50	2.69	14.0
2NS	63-115	Ray Rd	1180	7.06	2.68	39.3
Total Wt			3000	17.90		100.0

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



Superior Materials, LLC

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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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	84.3	100.0	100.0	92.7	7.3	7.3
1/2"	40.0	99.3	100.0	71.9	20.8	28.1
3/8"	22.1	90.7	100.0	62.3	9.6	37.7
#4	5.1	10.2	97.3	42.1	20.3	57.9
#8	3.7	2.6	83.7	35.0	7.1	65.0
#16	3.1	1.8	68.6	28.7	6.3	71.3
#30	2.8	1.5	49.2	20.9	7.8	79.1
#50	2.5	1.3	20.7	9.5	11.4	90.5
#100	2.4	1.1	3.4	2.6	6.9	97.4
LBW	2.1	1.0	1.0	1.5	1.1	98.5

*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.

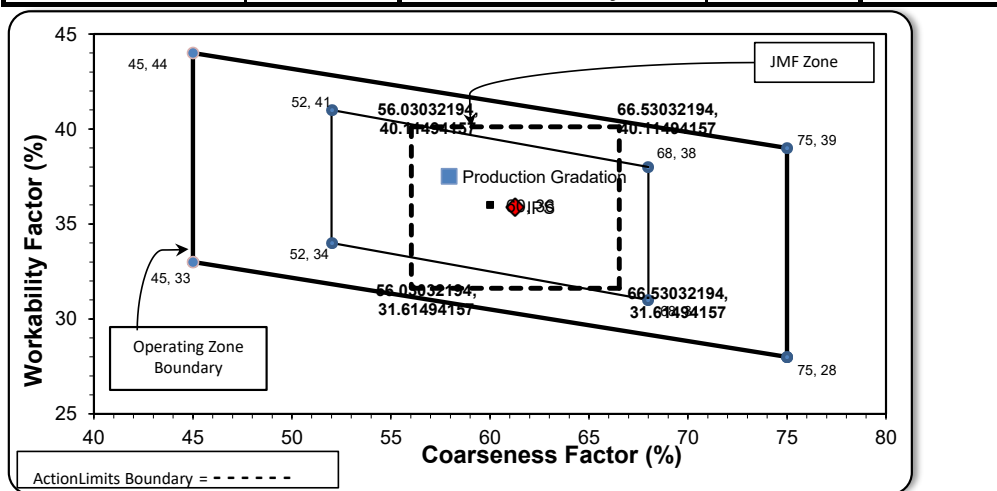
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	58	Workability Factor:	35	37.5
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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 Wednesday, April 8, 2026

	Sample Id -1989641748	-674939628	-1989641750
Plant	S102 Superior Novi	S102 Superior Novi	S102 Superior Novi
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec
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)		100.0	100.0
3/4" (19mm)		84.3	100.0
1/2" (12.5mm)		40.0	99.3
3/8" (9.5mm)	100.0	22.1	90.7
#4 (4.75mm)	97.3	5.1	10.2
#8 (2.36mm)	83.7	3.7	2.6
#16 (1.18mm)	68.6	3.1	1.8
#30 (.6mm)	49.2	2.8	1.5
#50 (.3mm)	20.7	2.5	1.3
#100 (.15mm)	3.4	2.4	1.1
#200 (75µm)	1.0	2.24	1.1
Pan	0.0	0.00	0.0
Wash Loss (#200/75um)	1.0	2.1	1.0
Total Moisture	2.72	2.16	2.11



Daily Summary Report

Comments

Query Selections
Date Created 04/10/2026
Date Range 04/05/2026 - 04/11/2026
Plant Superior Novi
Sample Type QA

Aggregate Optimization Chart

PLANT #: **P-103**

Contractor: _____

Sample Date: 4/8/26

Concrete Grade: **DM, 4500HP**

Dates Test Represents: 4/9/2026 through 4/15/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1400	8.34	2.69	46.7
26A	71-47	Presque Isle	420	2.50	2.69	14.0
2NS	63-115	Ray Rd	1180	7.06	2.68	39.3
Total Wt			3000	17.90		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"	96.9	100.0	100.0	98.6	1.4	1.4
3/4"	77.4	100.0	100.0	89.5	9.1	10.5
1/2"	34.7	99.3	100.0	69.4	20.0	30.6
3/8"	18.8	84.9	100.0	60.0	9.4	40.0
#4	4.4	11.7	98.5	42.4	17.6	57.6
#8	3.5	2.4	84.4	35.2	7.3	64.8
#16	2.9	1.6	67.2	28.0	7.2	72.0
#30	2.7	1.2	48.2	20.4	7.6	79.6
#50	2.5	1.0	21.4	9.7	10.7	90.3
#100	2.3	1.0	3.9	2.7	7.0	97.3
LBW	2.0	0.8	0.9	1.4	1.3	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.

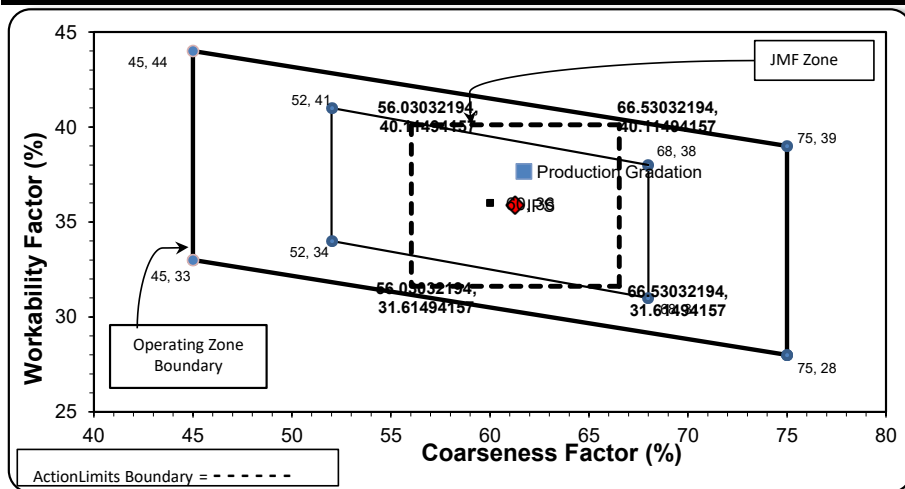
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	62	Workability Factor:	35	37.7
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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 Wednesday, April 8, 2026

Sample Id	-1989641745	-674913134	-1989641747
Plant	S103 Superior Brighton	S103 Superior Brighton	S103 Superior Brighton
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec
Sample Type	QA	QA	QA
Time	13:20	13:20	13:20
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		96.9	100.0
3/4" (19mm)		77.4	100.0
1/2" (12.5mm)		34.7	99.3
3/8" (9.5mm)	100.0	16.7	84.9
#4 (4.75mm)	98.5	4.4	11.7
#8 (2.36mm)	84.4	3.5	2.4
#16 (1.18mm)	67.2	2.9	1.6
#30 (.6mm)	48.2	2.7	1.2
#50 (.3mm)	21.4	2.5	1.0
#100 (.15mm)	3.9	2.3	1.0
#200 (75µm)	1.0	2.17	0.9
Pan	0.0	0.00	0.0
Wash Loss (#200/75um)	0.9	2.0	0.8
Total Moisture	2.84	2.78	2.33



Daily Summary Report

Comments

Query Selections
Date Created 04/10/2026
Date Range 04/05/2026 - 04/11/2026
Plant Superior Brighton
Sample Type QA