

Aggregate Optimization Chart

PLANT #: 36

Sample Date: 3/4/26

Concrete Grade: P1M 350HP

Contractor: _____

Dates Test Represents: 3/5/2026 through 3/11/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	820	4.89	2.69	26.6
IA	71-47	Presque Isle	980	5.84	2.69	31.8
2NS	63-115	Ray Rd	1280	7.74	2.65	41.6
Total Wt			3080	18.46		100.0

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



Superior Materials, LLC

30701 W. 10 Mile Rd.
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"	94.4	100.0	100.0	98.5	1.5	1.5
1"	28.1	100.0	100.0	80.9	17.7	19.1
3/4"	3.9	100.0	100.0	74.4	6.4	25.6
1/2"	1.9	73.0	100.0	65.3	9.1	34.7
3/8"	1.7	46.9	100.0	56.9	8.4	43.1
#4	1.7	10.7	97.6	44.4	12.5	55.6
#8	1.6	5.3	79.3	35.1	9.3	64.9
#16	1.5	4.3	63.2	28.0	7.0	72.0
#30	1.5	4.0	47.5	21.4	6.6	78.6
#50	14.0	3.5	23.8	14.7	6.7	85.3
#100	1.3	3.1	5.1	3.5	11.3	96.5
LBW	1.2	2.6	1.1	1.6	1.8	98.4

*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.,

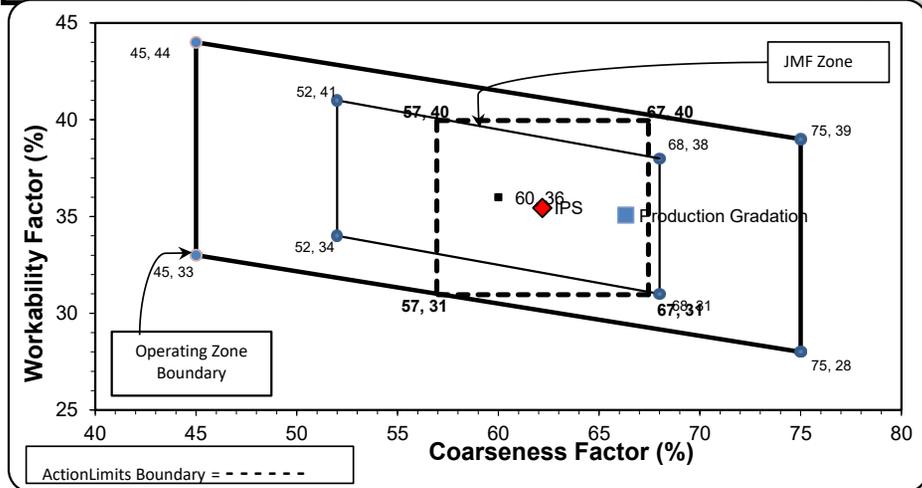
nom. max., #100 and #200 sieves.

*% 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

Coarseness Factor:	66	Workability Factor:	35
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Initial Production Sample (IPS)

Coarseness Factor:	62		
Workability Factor:	35		
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"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
SM, LLC Technical Service

Approved by:
Nancy Donau



Daily Summary Report

Date Wednesday, March 4, 2026

Sample Id	-1124318307	-1989642464	-674921578
Plant	S36 Superior Auburn Hills 7919	S36 Superior Auburn Hills 7920	S36 Superior Auburn Hills 1022
Product	COARSE AGG P1M LS	INTERMED AGG P1M LS	2NS GR
Specification	Coarse Agg P1M LS Target	Intermed Agg P1M LS Target	2NS GR Spec
Sample Type	QA	QA	QA
Time	17:01	17:01	17:05
2" (50mm)	100.0	100.0	
1 1/2" (37.5mm)	94.4	100.0	
1" (25mm)	28.1	100.0	
3/4" (19mm)	3.9	100.0	
1/2" (12.5mm)	1.9	73.0	
3/8" (9.5mm)	1.7	46.9	100.0
#4 (4.75mm)	1.7	10.7	97.6
#8 (2.36mm)	1.6	5.3	79.3
#16 (1.18mm)	1.5	4.3	63.2
#30 (.6mm)	1.5	4.0	47.5
#50 (.3mm)	1.4	3.5	23.8
#100 (.15mm)	1.3	3.1	5.1
#200 (75µm)	1.3	2.8	1.3
Pan	0.0	0.0	0.0
FM			2.84
Wash Loss (#200/75um)	1.2	2.6	1.1
Total Moisture	1.71	4.30	3.09

Aggregate Optimization Chart

PLANT #: 39

Sample Date: 3/4/26

Concrete Grade: P1M 3500HP

Contractor: _____

Dates Test Represents: 3/5/2026 through 3/11/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	950	5.66	2.69	30.8
26A	71-47	Presque Isle	850	5.06	2.69	27.6
2NS	Oxford	63-0009	1280	7.74	2.65	41.6
Total Wt			3080	18.46		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"	98.3	100.0	100.0	99.5	0.5	0.5
1"	25.3	100.0	100.0	77.0	22.5	23.0
3/4"	7.3	98.9	100.0	71.1	5.9	28.9
1/2"	3.0	78.7	100.0	64.2	6.9	35.8
3/8"	2.6	55.1	100.0	57.6	6.6	42.4
#4	2.4	12.7	97.9	44.9	12.6	55.1
#8	2.3	5.6	83.1	36.8	8.1	63.2
#16	2.2	4.1	65.3	28.9	7.8	71.1
#30	2.1	3.8	47.4	21.4	7.6	78.6
#50	1.9	3.3	23.3	11.2	10.2	88.8
#100	1.7	2.9	4.5	3.2	8.0	96.8
LBW	1.5	2.3	0.8	1.4	1.8	98.6

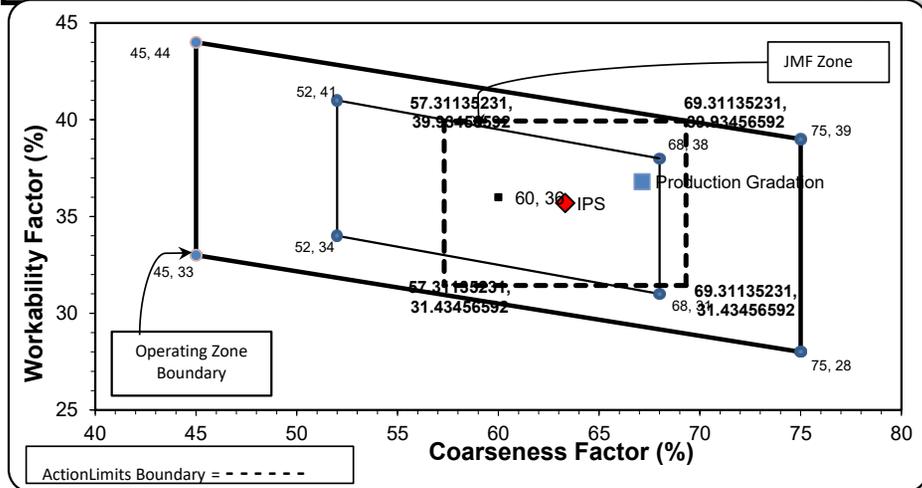


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*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 *% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 *% Retained must 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

Coarseness Factor:	67	Workability Factor:	37
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Initial Production Sample (IPS)

Coarseness Factor:	63
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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"	100.0	0.0	0.0
3/4"	95.6	4.4	4.4
1/2"	73.1	22.6	26.9
3/8"	59.3	13.8	40.7
#4	42.8	16.5	57.2
#8	35.7	7.1	64.3
#16	28.9	6.8	71.1
#30	20.7	8.2	79.3
#50	9.9	10.8	90.1
#100	2.1	7.8	97.9
LBW	0.9	1.2	99.1

PREPARED BY:
 SM, LLC Technical Service

Approved By:
 Nancy Donahue



Daily Summary Report

Date Monday, March 2, 2026

Sample Id	-1989642460	-674922956	-1989642462
Plant	S39	S39	S39
Product	Superior Sterling Heights 1022 2NS GR	Superior Sterling Heights 7919 COARSE AGG P1M LS	Superior Sterling Heights 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	17:22	17:22	17:22
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		98.3	100.0
1" (25mm)		25.3	100.0
3/4" (19mm)		7.3	98.9
1/2" (12.5mm)		3.0	78.7
3/8" (9.5mm)	100.0	2.6	55.1
#4 (4.75mm)	97.9	2.4	12.7
#8 (2.36mm)	83.1	2.3	5.6
#16 (1.18mm)	65.3	2.2	4.1
#30 (.6mm)	47.4	2.1	3.8
#50 (.3mm)	23.3	1.9	3.3
#100 (.15mm)	4.5	1.7	2.9
#200 (75µm)	1.0	1.6	2.6
Pan	0.0	0.0	0.0
FM	2.78		
Wash Loss (#200/75um)	0.8	1.5	2.3
Total Moisture	2.64	0.95	1.95

Aggregate Optimization Chart

PLANT #: 101

Sample Date: 3/4/26

Concrete Grade: **P1M 3500HP**

Contractor: _____

Dates Test Represents: 3/5/2026 through 3/11/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	900	5.36	2.69	29.3
26A	71-47	Presque Isle	970	5.78	2.69	31.6
2NS	Wilson	74-0051	1200	7.26	2.65	39.1
Total Wt			3070	18.40		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"	95.6	100.0	100.0	98.7	1.3	1.3
1"	26.0	100.0	100.0	78.3	20.4	21.7
3/4"	5.1	99.0	100.0	71.9	6.4	28.1
1/2"	1.8	77.2	100.0	64.0	7.9	36.0
3/8"	1.6	52.8	100.0	56.2	7.8	43.8
#4	1.5	14.6	95.1	42.2	14.0	57.8
#8	1.4	9.1	78.1	33.8	8.4	66.2
#16	1.4	7.9	62.4	27.3	6.5	72.7
#30	1.4	7.4	48.7	21.8	5.5	78.2
#50	1.3	6.4	29.1	13.8	8.0	86.2
#100	1.2	4.2	9.4	5.4	8.4	94.6
LBW	0.9	2.3	0.0	1.0	4.4	99.0



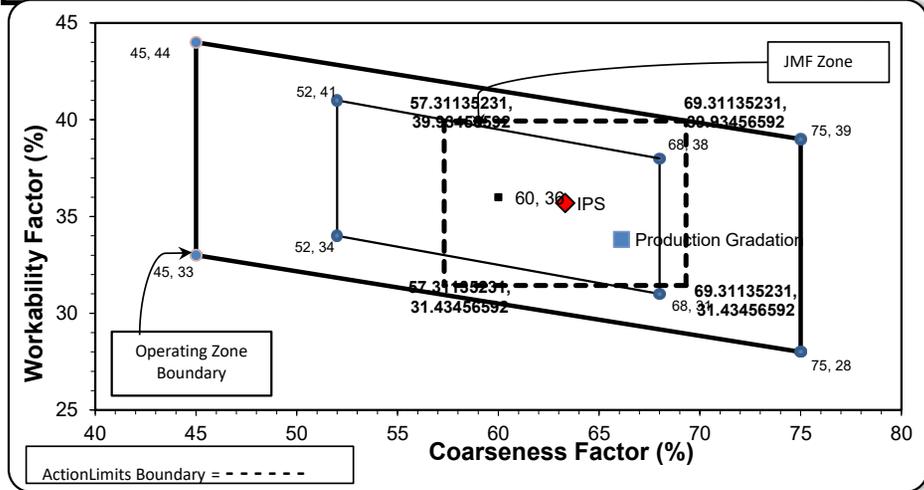
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Farmington Hills, MI 48336

*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

Coarseness Factor:	66	Workability Factor:	34
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Initial Production Sample (IPS)

Coarseness Factor:	63		
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"	95.6	4.4	4.4
1/2"	73.1	22.6	26.9
3/8"	59.3	13.8	40.7
#4	42.8	16.5	57.2
#8	35.7	7.1	64.3
#16	28.9	6.8	71.1
#30	20.7	8.2	79.3
#50	9.9	10.8	90.1
#100	2.1	7.8	97.9
LBW	0.9	1.2	99.1

PREPARED BY:
SM, LLC Technical Service

Approved By:
Nancy Donahue



Daily Summary Report

Date Monday, March 2, 2026

Sample Id	-674920447	-1989642465	-674961900
Plant	S101	S101	S101
Product	Superior Mount Clemens 7919 COARSE AGG P1M LS	Superior Mount Clemens 7920 INTERMED AGG P1M LS	Superior Mount Clemens 1022 2NS GR
Specification	Coarse Agg P1M LS Target	Intermed Agg P1M LS Target	2NS GR Spec
Sample Type	QA	QA	QA
Time	16:58	16:58	17:00
2" (50mm)	100.0	100.0	
1 1/2" (37.5mm)	95.6	100.0	
1" (25mm)	26.0	100.0	
3/4" (19mm)	5.1	99.0	
1/2" (12.5mm)	1.8	77.2	
3/8" (9.5mm)	1.6	52.8	100.0
#4 (4.75mm)	1.5	14.6	95.1
#8 (2.36mm)	1.4	9.1	78.1
#16 (1.18mm)	1.4	7.9	62.4
#30 (.6mm)	1.4	7.4	48.7
#50 (.3mm)	1.3	6.4	29.1
#100 (.15mm)	1.2	4.2	9.4
#200 (75µm)	1.0	2.6	1.1
Pan	0.0	0.0	0.0
FM			2.77
Wash Loss (#200/75um)	0.9	2.3	0.9
Total Moisture	1.30	1.54	2.70

Aggregate Optimization Chart

PLANT #: 102

Sample Date: 3/4/26

Concrete Grade: P1M 3500HP

Contractor: _____

Dates Test Represents: 3/5/2026 through 3/11/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	Stoneco	600	3.57	2.69	19.0
IA	58-003	Stoneco	1280	7.63	2.69	40.5
2NS	63-009	Grange Hall	1280	7.74	2.65	40.5
Total Wt			3160	18.94		100.0

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



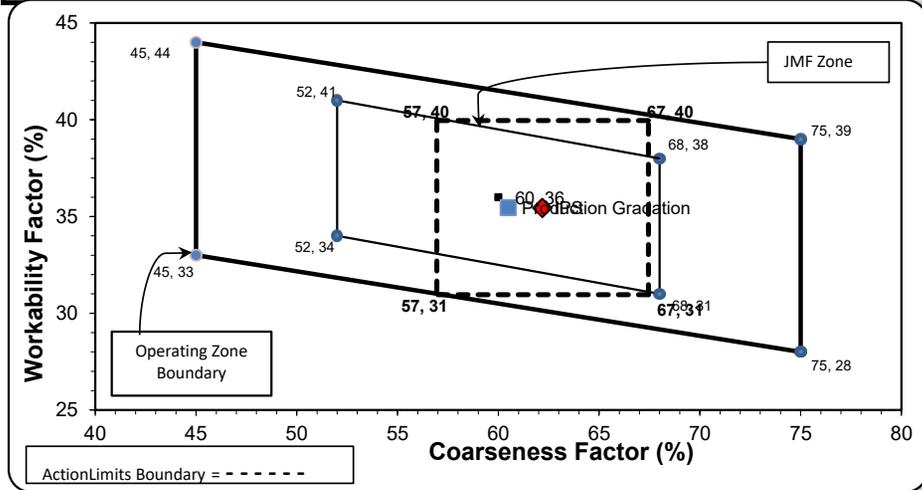
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 Suite 500
 Farmington Hills, MI 48336

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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	100.0	74.1	100.0	89.5	10.5	10.5
1/2"	99.1	28.6	100.0	70.9	18.6	29.1
3/8"	83.4	11.4	100.0	61.0	9.9	39.0
#4	11.5	3.6	97.3	43.1	17.9	56.9
#8	5.0	3.2	82.0	35.5	7.6	64.5
#16	3.8	2.8	67.1	29.0	6.4	71.0
#30	3.1	2.4	48.9	21.4	7.7	78.6
#50	2.3	2.2	21.6	10.1	11.3	89.9
#100	1.6	2.0	3.9	2.7	7.4	97.3
LBW	1.4	1.6	0.9	1.3	1.4	98.7

*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

Coarseness Factor:	60	Workability Factor:	35
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Initial Production Sample (IPS)

Coarseness Factor:	62		
Workability Factor:	35		
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"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
 SM, LLC Technical Service

Approved by:
 Nancy Donau



Daily Summary Report

Date Thursday, March 5, 2026

	-1989642457	-1989642455	-1989642453
Sample Id	-1989642457	-1989642455	-1989642453
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	17:27	17:28	17:28
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		100.0	100.0
3/4" (19mm)		74.1	100.0
1/2" (12.5mm)		28.6	99.1
3/8" (9.5mm)	100.0	11.4	83.4
#4 (4.75mm)	97.3	3.6	11.5
#8 (2.36mm)	82.0	3.2	5.0
#16 (1.18mm)	67.1	2.8	3.8
#30 (.6mm)	48.9	2.4	3.1
#50 (.3mm)	21.6	2.2	2.3
#100 (.15mm)	3.9	2.0	1.6
#200 (75µm)	1.1	1.83	1.4
Pan	0.0	0.00	0.0
FM	2.79		
Wash Loss (#200/75um)	0.9	1.6	1.4
Total Moisture	2.30	2.19	3.32

Aggregate Optimization Chart

PLANT #: 103

Sample Date: 3/4/26

Concrete Grade: P1M 350HP

Contractor: _____

Dates Test Represents: 3/5/2026 through 3/11/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1420	8.46	2.69	45.5
26A	58-003	Stoneco	500	2.98	2.69	16.0
2NS	63-009	Grange Hall	1200	7.26	2.65	38.5
Total Wt			3120	18.70		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"	99.3	100.0	100.0	99.7	0.3	0.3
3/4"	75.7	100.0	100.0	88.9	10.7	11.1
1/2"	28.8	99.9	100.0	67.6	21.4	32.4
3/8"	12.5	84.3	100.0	57.7	9.9	42.3
#4	2.8	11.2	97.0	40.4	17.3	59.6
#8	1.9	2.3	81.8	32.7	7.7	67.3
#16	1.7	1.5	65.8	26.3	6.4	73.7
#30	1.5	1.2	47.3	19.1	7.3	80.9
#50	1.4	1.0	19.8	8.4	10.7	91.6
#100	1.3	0.9	3.3	2.0	6.4	98.0
LBW	1.1	0.8	0.9	1.0	1.0	99.0

*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.,

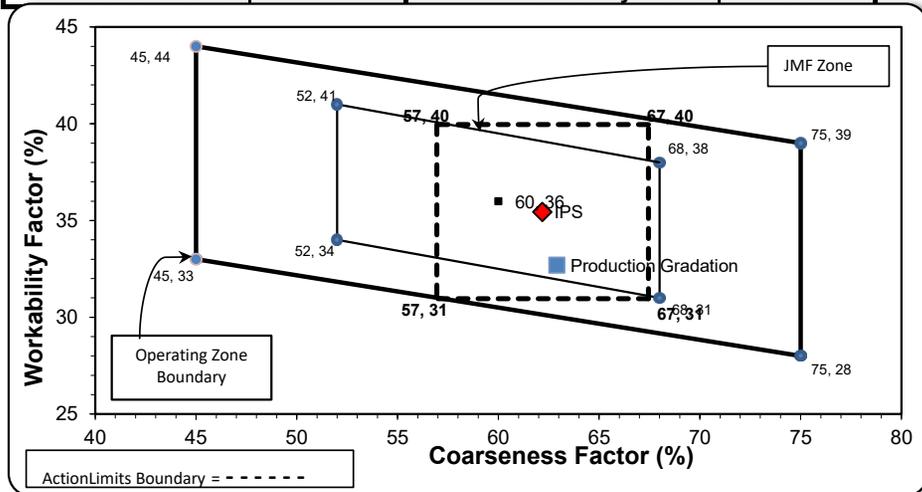
nom. max., #100 and #200 sieves.

*% 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

Coarseness Factor:	63	Workability Factor:	33
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Initial Production Sample (IPS)

Coarseness Factor:	62		
Workability Factor:	35		
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"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
SM, LLC Technical Service

Approved by:
Nancy Donau



Daily Summary Report

Date Thursday, March 5, 2026

Sample Id	-1989615982	-110123009	-1989642456
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	17:27	17:28	17:28
2" (50mm)		100.0	100.0
1 1/2" (37.5mm)		100.0	100.0
1" (25mm)		99.3	100.0
3/4" (19mm)		75.7	100.0
1/2" (12.5mm)		28.9	99.9
3/8" (9.5mm)	100.0	12.5	84.3
#4 (4.75mm)	97.0	2.8	11.2
#8 (2.36mm)	81.8	1.9	2.3
#16 (1.18mm)	65.8	1.7	1.5
#30 (.6mm)	47.3	1.5	1.2
#50 (.3mm)	19.8	1.4	1.0
#100 (.15mm)	3.3	1.3	0.9
#200 (75µm)	1.1	1.22	0.8
Pan	0.0	0.00	0.0
FM	2.85		
Wash Loss (#200/75um)	0.9	1.1	0.8
Total Moisture	3.85	2.66	2.69