Sample Date:

7/11/22 Concrete Grade: **P1M**, **3500HP** 

oates Lest F	Represents:	7/12/2022	tnrougn	7/18/2022		
∖gg. Class	Pit#	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	1070	6.54	2.62	34.9
IA	71-47	Presque Isle	800	4.89	2.62	26.1
2NS	75-051	Mid Michigan	1200	7.23	2.66	39.1
		Total Wt	3070	18.67		100.0

Contractor:

MDOT No.:



---- Verify this number is 100%

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

				. 0 0 . 0	· romy and m	di 11001 10 10070
Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	94.9	100.0	100.0	98.2	1.8	1.8
1"	44.7	100.0	100.0	80.7	17.5	19.3
3/4"	16.0	98.7	100.0	70.4	10.3	29.6
1/2"	4.4	83.6	100.0	62.4	8.0	37.6
3/8"	2.9	65.4	100.0	57.1	5.3	42.9
#4	1.9	21.6	98.9	44.9	12.2	55.1
#8	1.6	6.6	83.2	34.8	10.2	65.2 r
#16	1.5	3.5	66.7	27.5	7.3	72.5
#30	1.4	2.5	51.0	21.1	6.4	<b>78.9</b> r
#50	1.4	2.3	26.9	11.6	9.5	88.4
#100	1.1	2.2	7.0	3.7	7.9	96.3
LBW	0.9	1.9	0.8	1.1	2.6	98.9

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

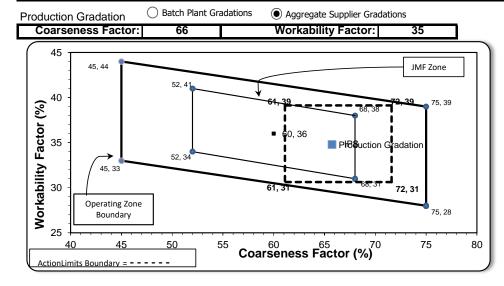
nom. max., #100 and #200 sieves.

 $^{*}\%$  Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Initial Production Sample (IPS)

Coars	eness Factor:	66	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	84.3	15.3	15.7
3/4"	74.8	9.6	25.2
1/2"	64.3	10.4	35.7
3/8"	56.8	7.5	43.2
#4	43.0	13.8	57.0
#8	34.9	8.1	65.1
#16	26.4	8.5	73.6
#30	19.9	6.5	80.1
#50	10.4	9.5	89.6
#100	3.4	7.0	96.6
LBW	1.2	2.2	98.8

PREPARED BY: SM, LLC Technical Service Approved By:

Pleasant Lake

PLANT #: P-102

81-019

Sample Date:

2NS

7/11/22 Concrete Grade: **P1M, 3500HP** 

7.26

2.65

Dates Test F	Represents:	7/12/2022	through	7/18/2022		
Agg. Class	Pit#	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	Stoneco	1370	8.16	2.69	43.9
IA	58-003	Stoneco	550	3.28	2.69	17.6

1200

Contractor:

MDOT No.:



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

	Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	L	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	100.0	10	0.0	100.0	100.0	0.0	0.0
1"	67.5	10	0.0	100.0	85.7	14.3	14.3
3/4"	47.0	10	0.0	100.0	76.7	9.0	23.3
1/2"	19.0	91	1.2	100.0	62.9	13.8	37.1
3/8"	4.8	79	9.2	100.0	54.5	8.4	45.5
#4	2.8	23	3.6	98.8	43.4	11.1	56.6
#8	1.4	4	.6	83.8	33.7	9.7	66.3
#16	1.2	2	.0	66.2	26.3	7.3	73.7
#30	1.2	1	.2	48.5	19.4	6.9	80.6
#50	1.1	1	.0	24.4	10.0	9.3	90.0
#100	1.0	1	.0	7.4	3.5	6.6	96.5
LBW	1.0	0	.6	1.3	1.0	2.4	99.0

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

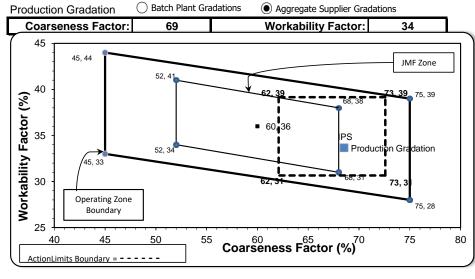
nom. max., #100 and #200 sieves.

 $^{\star}\%$  Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)

Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

PREPARED BY: SM, LLC Technical Service Approved By

Sample Date:

7/11/22 Concrete Grade: **P1M**, **3500HP** 

Dates Test I	Represents:	1/12/2022	through	7/18/2022		
Agg. Class	Pit#	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	Stoneco	1370	8.16	2.69	43.9
IA	58-003	Stoneco	550	3.28	2.69	17.6
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5

Contractor:

MDOT No.:



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

	Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	L	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	100.0	10	0.0	100.0	100.0	0.0	0.0
1"	67.5	10	0.0	100.0	85.7	14.3	14.3
3/4"	47.0	10	0.0	100.0	76.7	9.0	23.3
1/2"	19.0	91	.2	100.0	62.9	13.8	37.1
3/8"	4.8	79	).2	100.0	54.5	8.4	45.5
#4	2.8	23	3.6	98.8	43.4	11.1	56.6
#8	1.4	4	.6	83.8	33.7	9.7	66.3
#16	1.2	2	.0	66.2	26.3	7.3	73.7
#30	1.2	1	2	48.5	19.4	6.9	80.6
#50	1.1	1	.0	24.4	10.0	9.3	90.0
#100	1.0	1	.0	7.4	3.5	6.6	96.5
LBW	1.0	0	6	1.3	1.0	2.4	99.0

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

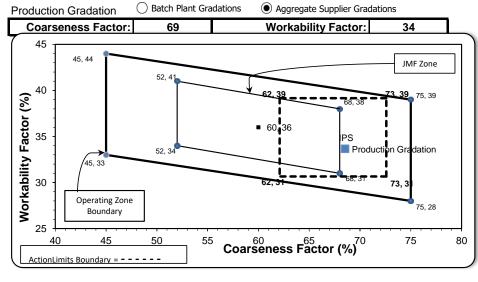
nom. max., #100 and #200 sieves.

\*% Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)

Coars	eness Factor:	67	
Workability Factor:		35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

CA

100.0

95.6

45.2

10.3

2.1

1.8

1.5

1.4

1.4

1.4

1.4

1.2

Sample Date:

Sieve

2"

1.5"

3/4"

1/2'

3/8'

#4

#8

#16

#30

#50

#100

7/11/22 Concrete Grade: P1M, 3500HP 7/18/2022

2NS

100.0

100.0

100.0

100.0

100.0

100.0

96.7

79.3

61.8

45.5

24.7

4.9

61.2

53.7

42.2

33.8

26.3

19.5

11.0

2.8

Dates Test F	Represents:	7/12/2022	through	7/18/2022		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	970	5.93	2.62	31.6
IA	71-47	Presque Isle	850	5.20	2.62	27.7
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7
Total Wt		3070	18.69		100.0	

IΑ

100.0

100.0

100.0

97.4

71.5

45.0

8.6

4.0

2.6

2.1

1.8

1.6

Contractor:

MDOT No.:

---- Verify this number is 100%

9.8

7.4

11.5

8.4

7.5

6.8

8.6

8.2

1.9

Cumulative % Passing	% Retained	Cumulative % Retained
100.0	0.0	0.0
98.6	1.4	1.4
82.7	15.9	17.3
70.9	11.7	29.1

38.8

46.3

57.8

66.2

73.7

80.5

89.0

97.2

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

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

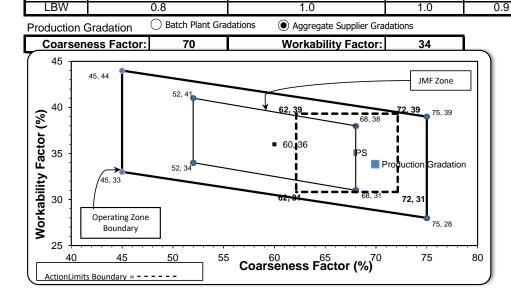
nom. max., #100 and #200 sieves.

\*% Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used



Intial Production Sample (IPS)

Coarseness Factor:		67	
Work	ability Factor:	35	
Siovo	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.0	9.8	26.0
1/2"	63.7	10.3	36.3
3/8"	56.4	7.3	43.6
#4	43.0	13.4	57.0
#8	35.1	7.9	64.9
#16	29.0	6.1	71.0
#30	20.9	8.0	79.1
#50	8.1	12.8	91.9
#100	1.6	6.5	98.4
LBW	0.9	0.8	99.1

Sample Date:

7/11/22 Concrete Grade: P1M, 3500HP

Dates Test F	Represents:	7/12/2022	through	7/18/2022		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	900	5.50	2.62	29.3
IA	71-47	Presque Isle	920	5.63	2.62	30.0
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7
		Total Wt	3070	18.69		100.0

Contractor:

MDOT No.:



---- Verify this number is 100%

ed	Cumulative % Retained	
	0.0	Suite 500
	1.3	Farmington Hills, MI 48336

3070 18.69 Cumulative CA IΑ % Retaine Sieve 2NS % Passing 2" 100.0 100.0 100.0 100.0 0.0 1.5" 95.6 100.0 100.0 98.7 1.3 1.3 16.1 45.2 100.0 100.0 83.9 14.8 3/4" 10.3 97.4 100.0 72.9 11.0 27.1 1/2' 2.1 71.5 100.0 62.8 10.2 37.2 3/8' 45.0 100.0 54.7 8.0 45.3 1.8 42.2 #4 1.5 8.6 96.2 12.5 57.8 #8 1.4 4.0 83.1 35.4 6.7 64.6 #16 1.4 2.6 68.2 29.0 6.5 71.0 #30 21.3 78.7 1.4 2.1 49.7 7.7 #50 1.4 1.8 25.5 11.3 9.9 88.7 #100 1.2 1.6 8.2 4.2 7.2 95.8 LBW 1.0 1.2 3.0 98.8

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

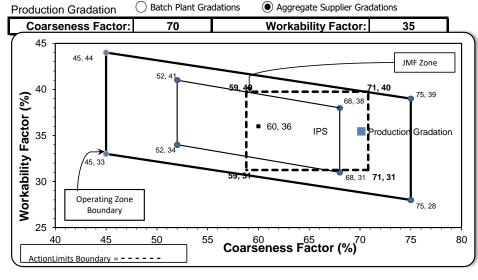
nom. max., #100 and #200 sieves.

\*% Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)

Coarseness Factor:		65	
Work	ability Factor:	36	
Siovo	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.0	0.6	0.6
1"	84.0	15.3	16.0
3/4"	73.5	10.5	26.5
1/2"	65.2	8.2	34.8
3/8"	58.2	7.1	41.8
#4	44.1	14.1	55.9
#8	35.5	8.6	64.5
#16	29.1	6.4	70.9
#30	21.9	7.3	78.1
#50	9.6	12.2	90.4
#100	2.6	7.1	97.4
LBW	1.0	1.6	99.0

Sample Date:

**Dates Test Represents:** 

7/11/22 Concrete Grade: P1M, 3500HP

:	7/12/2022	through	7/18/2022		
	Source	Weight (SSD)	ft <sup>3</sup>	Specific	%
	Source	weight (SSD)	π	Gravity	Contribution
	Stoneco	1370	8.16	2.69	43.9
	Stoneco	550	3.28	2.69	17.6

Contractor:

MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	Stoneco	1370	8.16	2.69	43.9
IA	58-003	Stoneco	550	3.28	2.69	17.6
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.5
		Total Wt	3120	18.70		100.0

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

	Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	L	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	100.0	10	0.0	100.0	100.0	0.0	0.0
1"	67.5	10	0.0	100.0	85.7	14.3	14.3
3/4"	47.0	10	0.0	100.0	76.7	9.0	23.3
1/2"	19.0	91	.2	100.0	62.9	13.8	37.1
3/8"	4.8	79	0.2	100.0	54.5	8.4	45.5
#4	2.8	23	3.6	98.8	43.4	11.1	56.6
#8	1.4	4	.6	83.8	33.7	9.7	66.3
#16	1.2	2	.0	66.2	26.3	7.3	73.7
#30	1.2	1	.2	48.5	19.4	6.9	80.6
#50	1.1	1	.0	24.4	10.0	9.3	90.0
#100	1.0	1	.0	7.4	3.5	6.6	96.5
LBW	1.0	0	.6	1.3	1.0	2.4	99.0

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

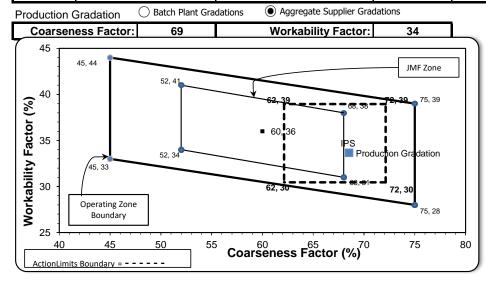
nom. max., #100 and #200 sieves.

\*% Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)

Coarseness Factor:		67	
Work	ability Factor:	35	
Siovo	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	86.9	13.1	13.1
3/4"	76.1	10.8	23.9
1/2"	63.7	12.4	36.3
3/8"	56.2	7.5	43.8
#4	43.2	13.0	56.8
#8	34.7	8.5	65.3
#16	27.5	7.2	72.5
#30	20.6	7.0	79.4
#50	9.0	11.6	91.0
#100	2.1	6.9	97.9
LBW	1.0	1.1	99.0

PREPARED BY: SM, LLC Technical Service Approved By:

PLANT #:

Sample Date:

Concrete Grade: P1M, 3500HP

ates Test F	Represents:	7/12/2022	through	7/18/2022		
gg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	900	5.50	2.62	29.3
IA	71-47	Presque Isle	970	5.93	2.62	31.6
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1

Contractor:

MDOT No.:



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

	Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	1/	A.	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100	0.0	100.0	100.0	0.0	0.0
1.5"	95.6	100	0.0	100.0	98.7	1.3	1.3
1"	45.2	100	0.0	100.0	83.9	14.8	16.1
3/4"	10.3	97	.4	100.0	72.9	11.1	27.1
1/2"	2.1	71	.5	100.0	62.3	10.6	37.7
3/8"	1.8	45	.0	100.0	53.8	8.5	46.2
#4	1.5	8.	6	97.4	41.2	12.6	58.8
#8	1.4	4.	0	82.4	33.9	7.3	66.1
#16	1.4	2.	6	67.0	27.4	6.5	72.6
#30	1.4	2.	1	47.6	19.7	7.7	80.3
#50	1.4	1.	8	17.3	7.7	11.9	92.3
#100	1.2	1.	6	3.3	2.1	5.6	97.9
LBW	0.8	1.	0	0.4	0.7	1.4	99.3

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

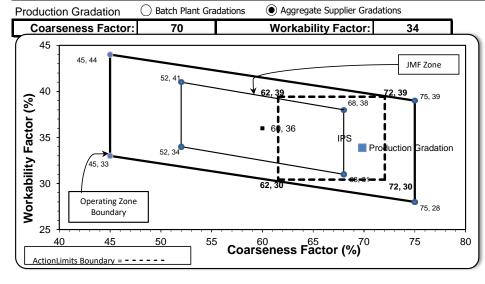
nom. max., #100 and #200 sieves.

\*% Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)

Coars	Coarseness Factor:		
Work	Workability Factor:		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.0	15.0	15.0
3/4"	72.1	12.9	27.9
1/2"	64.5	7.6	35.5
3/8"	56.5	8.0	43.5
#4	42.7	13.8	57.3
#8	34.9	7.8	65.1
#16	29.0	5.9	71.0
#30	21.0	8.0	79.0
#50	8.2	12.8	91.8
#100	1.6	6.5	98.4
LBW	0.7	0.9	99.3

Krake Willis Rd

1250

PLANT #: P-39

Pit#

71-47

71-47

44-051

Sample Date:

Agg. Class

CA

IΑ

2NS

Dates Test Represents:

7/11/22 Concrete Grade: P1M, 3500HP

7/12/2022	through	7/18/2022		
Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
Presque Isle	1020	6.24	2.62	33.2
Presque Isle	800	4.89	2.62	26.1

2.65

40.7

7.56

Contractor:





Superior Materials, LLC 30701 W. 10 Mile Rd.

Suite 500

Farmington Hills, MI 48336

	Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%
Sieve	CA	1/	<b>A</b>	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100	0.0	100.0	100.0	0.0	0.0
1.5"	94.9	100	0.0	100.0	98.3	1.7	1.7
1"	44.7	100	0.0	100.0	81.6	16.7	18.4
3/4"	16.0	98	.7	100.0	71.8	9.9	28.2
1/2"	4.4	83	.6	100.0	64.0	7.8	36.0
3/8"	2.9	65	.4	100.0	58.7	5.2	41.3
#4	1.9	21	.6	98.9	46.5	12.2	53.5
#8	1.6	6.	6	83.2	36.1	10.4	63.9 r
#16	1.5	3.	5	66.7	28.6	7.6	71.4
#30	1.4	2.	5	51.0	21.9	6.7	<b>78.1</b> r
#50	1.4	2.	3	26.9	12.0	9.9	88.0
#100	1.1	2.	2	7.0	3.8	8.2	96.2 a
LBW	0.9	1.	9	0.8	1.1	2.7	98.9

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

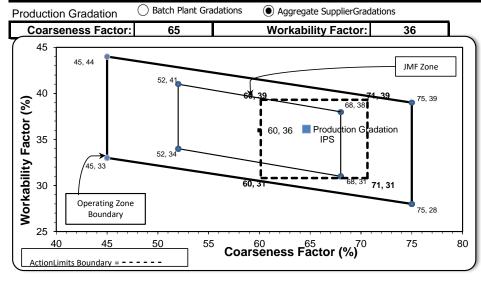
nom. max., #100 and #200 sieves.

\*% Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)

Coars	Coarseness Factor:		
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.1	9.8	25.9
1/2"	64.3	9.7	35.7
3/8"	57.5	6.8	42.5
#4	44.5	13.1	55.5
#8	35.1	9.4	64.9
#16	27.9	7.2	72.1
#30	21.7	6.2	78.3
#50	12.6	9.1	87.4
#100	3.5	9.1	96.5
LBW	1.2	2.4	98.8

Sample Date:

**Dates Test Represents:** 

Concrete Grade: P1M, 3500HP 7/11/22

7/12/2022	through	7/18/2022		
Source	Weight (SSD)	ft <sup>3</sup>	Specific	%
Source	weight (SSD)	11	Gravity	Contribution
Presque Isle	950	5.81	2.62	30.9
Dan samue Iele	070	F 00	0.00	00.0

Contractor:

MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	950	5.81	2.62	30.9
IA	71-47	Presque Isle	870	5.32	2.62	28.3
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7
		Total Wt	3070	18.69		100.0

SUPERIOR MATERIALS

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

	Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%
Sieve	CA	1,4	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100	0.0	100.0	100.0	0.0	0.0
1.5"	95.6	100	0.0	100.0	98.6	1.4	1.4
1"	45.2	100	0.0	100.0	83.0	15.6	17.0
3/4"	10.3	97	<b>'.4</b>	100.0	71.5	11.5	28.5
1/2"	2.1	71	.5	100.0	61.6	9.9	38.4
3/8"	1.8	45	5.0	100.0	54.0	7.6	46.0
#4	1.5	8.6		96.7	42.3	11.8	57.7
#8	1.4	4.	.0	79.3	33.9	8.4	66.1
#16	1.4	2.	.6	61.8	26.3	7.5	73.7
#30	1.4	2.	.1	45.5	19.6	6.8	80.4
#50	1.4	1.	.8	24.7	11.0	8.6	89.0
#100	1.2	1.	.6	4.9	2.8	8.2	97.2
LBW	0.8	1.	.0	1.0	0.9	1.9	99.1

\*Maximum % Retained must be above the 3/8" sieve.

\*Any two adjacent sieves must equal 10% except max.,

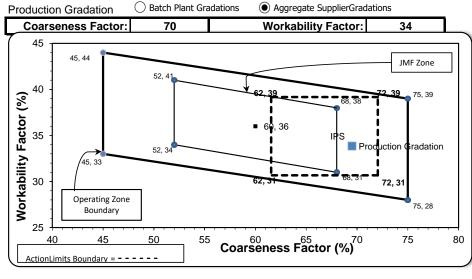
nom. max., #100 and #200 sieves.

\*% Retained must be at least 4% for each sieve except max.,

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

\*% Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)

Coars	Coarseness Factor:		
Work	Workability Factor:		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.0	15.0	15.0
3/4"	72.3	12.7	27.7
1/2"	64.5	7.8	35.5
3/8"	56.5	8.0	43.5
#4	42.7	13.8	57.3
#8	34.9	7.8	65.1
#16	29.0	5.9	71.0
#30	21.0	8.0	79.0
#50	8.2	12.8	91.8
#100	1.6	6.5	98.4
LBW	0.7	0.9	99.3

PREPARED BY: SM, LLC Technical Service Approved By: