Sample Date:

4/25/22 Concrete Grade: **P1M, 3500HP** 

Dates Test Represents:		4/26/2022	tnrougn	5/2/2022		
Agg. 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

Contractor:

MDOT No.:



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

Total Wt		3070	18.67		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"	98.4	10	0.0	100.0	99.4	0.6	0.6
1"	47.6	10	0.0	100.0	81.7	17.7	18.3
3/4"	13.6	98	3.8	100.0	69.6	12.2	30.4
1/2"	3.4	84	1.0	100.0	62.2	7.4	37.8
3/8"	2.3	62	2.4	100.0	56.2	6.0	43.8
#4	1.9	13	3.6	98.5	42.7	13.4	57.3
#8	1.8	4	.0	83.3	34.2	8.5	65.8 ı
#16	1.7	2	.5	68.3	27.9	6.3	72.1
#30	1.6	2	.2	53.3	22.0	6.0	78.0
#50	1.5	2	.1	29.2	12.5	9.5	87.5
#100	1.4	2	.0	7.3	3.9	8.6	96.1
LBW	1.2	1	.8	0.6	1.1	2.7	98.9

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

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

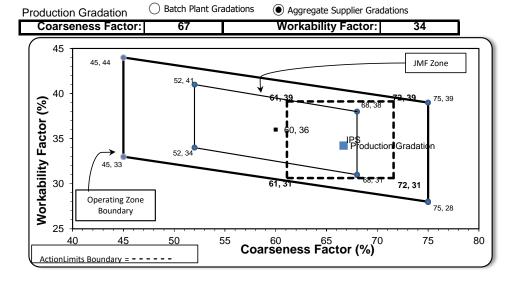
nom. max., #100 and #200 sieves.

 $^{\star}\%$  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.



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

Sample Date:

Concrete Grade: P1M, 3500HP 4/25/22

Dates Test Represents:		4/26/2022	tnrougn	5/2/2022		
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.:

IVI	AI	En	IA	LS
Su	perio	r Ma	terial	s, LLC
307	701 W	. 10 N	∕lile R	d.
Sui	te 500	)		
Far	mingt	on Hi	lls, M	I 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"	65.8	10	0.0	100.0	85.0	15.0	15.0
3/4"	33.1	10	0.0	100.0	70.6	14.4	29.4
1/2"	13.6	94	1.3	100.0	61.1	9.6	38.9
3/8"	7.2	81	1.1	100.0	55.9	5.1	44.1
#4	2.0	27	7.7	99.0	43.8	12.1	56.2
#8	1.3	6	.9	85.2	34.6	9.3	65.4
#16	1.2	3	.6	68.9	27.7	6.9	72.3
#30	1.1	2	.7	49.8	20.1	7.5	79.9
#50	1.0	2	.4	22.8	9.6	10.5	90.4
#100	1.0	2	.3	6.0	3.2	6.5	96.8
LBW	0.6	2	.4	1.4	1.2	1.9	98.8

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

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

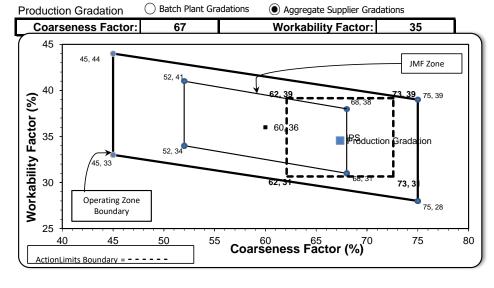
nom. max., #100 and #200 sieves.

\*% 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)

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

Sample Date:

Concrete Grade: P1M, 3500HP 4/25/22

Dates Test Represents:		4/26/2022	tnrougn	5/2/2022		
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
		= 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0100	1		4000

Contractor:

MDOT No.:

ed Cumulative % Retained		Superior ivialerials, LLC
	0.0	Suite 500
	0.0	Farmington Hills, MI 48336

	Total Wt	3120	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"	100.0	100	0.0	100.0	100.0	0.0	0.0
1"	65.8	100	0.0	100.0	85.0	15.0	15.0
3/4"	33.1	100	0.0	100.0	70.6	14.4	29.4
1/2"	13.6	94	.3	100.0	61.1	9.6	38.9
3/8"	7.2	81	.1	100.0	55.9	5.1	44.1
#4	2.0	27	.7	99.0	43.8	12.1	56.2
#8	1.3	6.	9	85.2	34.6	9.3	65.4
#16	1.2	3.	6	68.9	27.7	6.9	72.3
#30	1.1	2.	7	49.8	20.1	7.5	79.9
#50	1.0	2.	4	22.8	9.6	10.5	90.4
#100	1.0	2.	3	6.0	3.2	6.5	96.8
LBW	0.6	2.	4	1.4	1.2	1.9	98.8

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

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

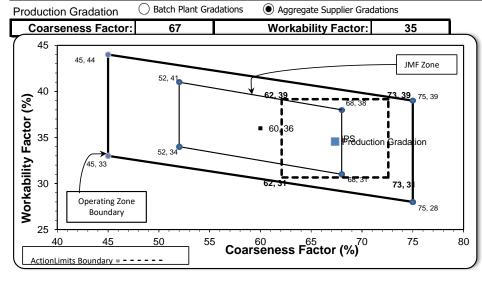
nom. max., #100 and #200 sieves.

\*% 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)

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

Sample Date:

4/25/22 Concrete Grade: **P1M, 3500HP** 

Dates Test F	Represents:	4/26/2022	through	5/2/2022		
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

Contractor:

MDOT No.:



<b>Superior Materials, LLC</b>
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	L	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	94.9	10	0.0	100.0	98.4	1.6	1.6
1"	37.9	10	0.0	100.0	80.4	18.0	19.6
3/4"	5.1	97	<b>'</b> .7	100.0	69.4	11.0	30.6
1/2"	1.2	72	2.5	100.0	61.2	8.2	38.8
3/8"	1.1	43	3.9	100.0	53.2	8.0	46.8
#4	1.1	5	.9	96.3	41.2	12.0	58.8
#8	1.1	3	.0	78.2	33.0	8.2	67.0
#16	1.1	2	.1	61.0	25.8	7.3	74.2
#30	1.0	1	.8	45.4	19.3	6.5	80.7
#50	1.0	1	.6	23.4	10.3	9.0	89.7
#100	1.0	1	.4	3.3	2.0	8.2	98.0
LBW	0.7	0	.8	0.7	0.7	1.3	99.3

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

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

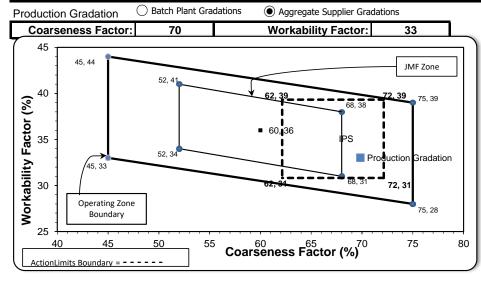
nom. max., #100 and #200 sieves.

 $^{\star}\%$  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	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"	74.0	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

PREPARED BY:
SM, LLC Technical Service

Sample Date:

4/25/22 Concrete Grade: **P1M, 3500HP** 

Dates Test F	Represents:	4/26/2022	through	5/2/2022		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	870	5.32	2.62	28.3
IA	71-47	Presque Isle	950	5.81	2.62	30.9
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%

ined	Cumulative % Retained	Superior iviaterials, LLC
)	0.0	Suite 500
4	1.4	Farmington Hills, MI 48336

	Total Wit	10.00		100.0	< Verily tills if	umber 13 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	98.6	1.4	1.4
1"	37.9	100.0	100.0	82.4	16.2	17.6
3/4"	5.1	97.7	100.0	72.4	10.0	27.6
1/2"	1.2	72.5	100.0	63.5	8.9	36.5
3/8"	1.1	43.9	100.0	54.6	8.9	45.4
#4	1.1	5.9	96.5	41.4	13.2	58.6
#8	1.1	3.0	84.0	35.4	6.0	64.6
#16	1.1	2.1	68.9	29.0	6.4	71.0
#30	1.0	1.8	49.2	20.9	8.1	79.1
#50	1.0	1.6	23.5	10.3	10.5	89.7
#100	1.0	1.4	6.7	3.4	6.9	96.6
LBW	0.7	0.8	1.7	1.1	2.3	98.9

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

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

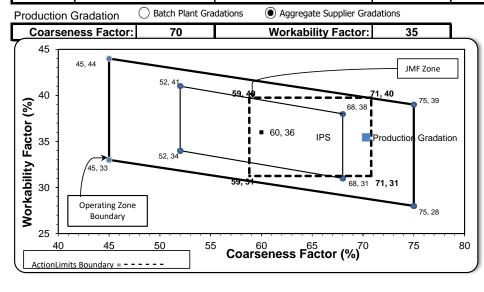
nom. max., #100 and #200 sieves.

 $\ensuremath{^{*}\%}$  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	
Sieve	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

PREPARED BY: SM, LLC Technical Service

4/25/22

PLANT #: P-35

Sample Date:

Concrete Grade: P1M, 3500HP

4/26/2022 5/2/2022 **Dates Test Represents:** through Specific ft<sup>3</sup> Pit# Agg. Class Source Weight (SSD) Gravity Contribution CA 58-003 Stoneco 1370 8.16 2.69 43.9 IΑ 58-003 Stoneco 550 3.28 2.69 17.6 2NS 81-019 Pleasant Lake 1200 7.26 2.65 38.5

MDOT No.:

Contractor:

SUPERIOR MATERIALS	

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

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

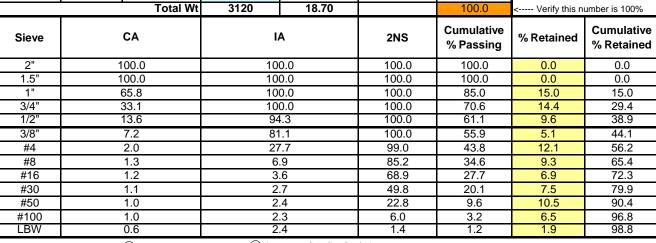
\*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.

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

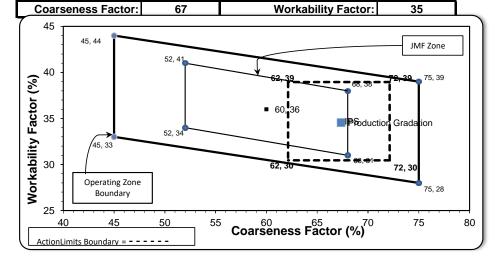
nom. max., #100 and #200 sieves

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

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



 Aggregate Supplier Gradations Batch Plant Gradations **Production Gradation** 



Intial Production Sample (IPS)

Coars	Coarseness Factor:		
Worl	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"	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

4/25/22 Sample Date: Dates Test Represents: 4/26/2022 through

		Concrete Grade:	P1M, 3500F
gh	5/2/2022		

	MI
%	
ntribution	
30.0	

Contractor:

IDOT No.:

Specific ft<sup>3</sup> Agg. Class Pit# Source Weight (SSD) Gravity Co CA 920 71-47 Presque Isle 5.63 2.62 IΑ 71-47 Presque Isle 950 5.81 2.62 30.9 2NS 63-92 Grange Hall 1200 7.26 2.65 39.1

SUPER	RIOR

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

	l otal Wt	3070	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	1/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	94.9	10	0.0	100.0	98.5	1.5	1.5
1"	37.9	10	0.0	100.0	81.4	17.1	18.6
3/4"	5.1	97	<b>'</b> .7	100.0	70.8	10.5	29.2
1/2"	1.2	72	2.5	100.0	61.9	9.0	38.1
3/8"	1.1	43	3.9	100.0	53.0	8.9	47.0
#4	1.1	5	.9	97.0	40.1	12.9	59.9
#8	1.1	3	.0	83.4	33.9	6.2	66.1
#16	1.1	2	.1	68.8	27.9	6.0	72.1
#30	1.0	1.	.8	49.7	20.3	7.6	79.7
#50	1.0	1.	.6	21.8	9.3	11.0	90.7
#100	1.0	1.	.4	2.8	1.8	7.5	98.2
LBW	0.7	0.	.8	0.4	0.6	1.2	99.4

\*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 8% for the 1" sieve when

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

Production Gradation	Batch Plant Gradation	ns	ations
Coarseness Factor:	71	Workability Factor:	34
45 45, 44 45, 44 45, 33 Operating Zone Boundary	52, 41	62, 39	72, 39 75, 39 Production Gradation 72, 30 75, 28
40 45  ActionLimits Boundary =	50 55 C	parseness Factor (%) <sup>70</sup>	75 80

Intial Production Sample (IPS)

Coars	Coarseness Factor:		
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"	85.0	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

PREPARED BY: SM, LLC Technical Service

Sample Date:

4/25/22 Concrete Grade: **P1M**, **3500HP** 

Dates Test F	Represents:	4/26/2022	through	5/2/2022		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	1020	6.24	2.62	33.2
IA	71-47	Presque Isle	800	4.89	2.62	26.1
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	40.7
		Total Wt	3070	18.69		100.0

Contractor:

MDOT No.:



----- Verify this number is 100%

ined	Cumulative % Retained	<u>Superior Materials, LLC</u> 30701 W. 10 Mile Rd.
	0.0	Suite 500
	0.5	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"	98.4	100.0	100.0	99.5	0.5	0.5
1"	47.6	100.0	100.0	82.6	16.9	17.4
3/4"	13.6	98.8	100.0	71.0	11.6	29.0
1/2"	3.4	84.0	100.0	63.7	7.2	36.3
3/8"	2.3	62.4	100.0	57.7	6.0	42.3
#4	1.9	13.6	96.3	43.4	14.4	56.6
#8	1.8	4.0	79.8	34.1	9.3	65.9
#16	1.7	2.5	64.6	27.5	6.6	72.5
#30	1.6	2.2	49.2	21.1	6.4	78.9
#50	1.5	2.1	25.2	11.3	9.8	88.7
#100	1.4	2.0	7.8	4.2	7.1	95.8
LBW	1.2	1.8	0.5	1.1	3.1	98.9

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

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

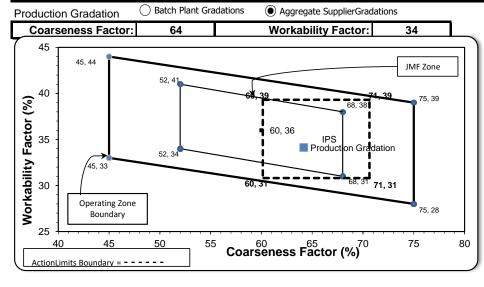
nom. max., #100 and #200 sieves.

 $^{*}\%$  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	eness Factor:	65	
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

PREPARED BY: SM, LLC Technical Service

Sample Date:

Concrete Grade: P1M, 3500HP 4/25/22

Dates Test F	Represents:	4/26/2022	through	5/2/2022		
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
		T . ( . 1 M/c	2	4		4000

Contractor:

MDOT No.:



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

	Total Wt	3070 18	3.69	100.0	< Verify this n	umber is 100%
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	98.4	1.6	1.6
1"	37.9	100.0	100.0	80.4	18.0	19.6
3/4"	5.1	97.7	100.0	69.4	11.0	30.6
1/2"	1.2	72.5	100.0	61.2	8.2	38.8
3/8"	1.1	43.9	100.0	53.2	8.0	46.8
#4	1.1	5.9	96.3	41.2	12.0	58.8
#8	1.1	3.0	78.2	33.0	8.2	67.0
#16	1.1	2.1	61.0	25.8	7.3	74.2
#30	1.0	1.8	45.4	19.3	6.5	80.7
#50	1.0	1.6	23.4	10.3	9.0	89.7
#100	1.0	1.4	3.3	2.0	8.2	98.0
LBW	0.7	0.8	0.7	0.7	1.3	99.3

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

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

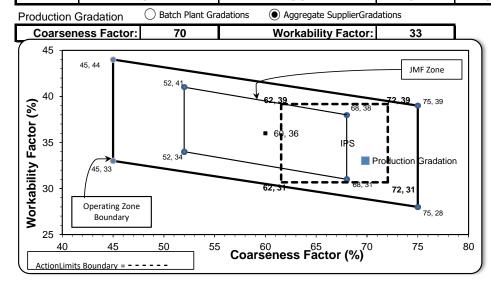
nom. max., #100 and #200 sieves.

\*% 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:		
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"	85.0	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

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