Sample Date:

LBW

1.2

5/30/22 Concrete Grade: **P1M**, **3500HP**

oates Lest F	Represents:	5/31/2022	through	6/6/2022		
∖gg. Class	Pit #	Source	Weight (SSD)	ft ³	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%

Cumulative % Retained	Superior iviaterials, LLC
0.0	Suite 500
1.1	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"	96.8	100.0	100.0	98.9	1.1	1.1
1"	48.1	100.0	100.0	81.9	17.0	18.1
3/4"	13.9	98.3	100.0	69.5	12.4	30.5
1/2"	3.7	78.1	100.0	60.7	8.8	39.3
3/8"	2.6	54.5	100.0	54.2	6.5	45.8
#4	1.9	15.6	98.8	43.3	10.8	56.7
#8	1.7	6.1	85.0	35.4	7.9	64.6
#16	1.7	3.8	70.4	29.1	6.3	70.9
#30	1.6	3.2	53.3	22.2	6.9	77.8
#50	1.5	2.9	25.5	11.2	11.0	88.8
#100	1.4	2.7	6.4	3.7	7.6	96.3

0.6

1.3

2.5

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

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

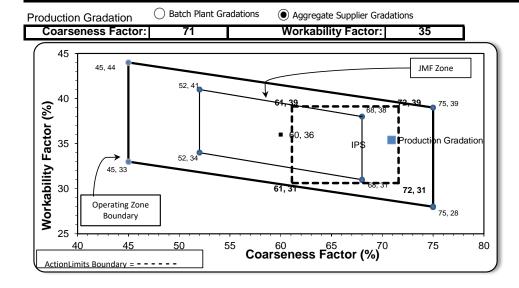
nom. max., #100 and #200 sieves.

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



Initial Production Sample (IPS)

98.7

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:

Sample Date:

5/30/22 Concrete Grade: P1M, 3500HP 6/6/2022

Dates Test F	Represents:	5/31/2022	through	6/6/2022		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	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

Contractor:

MDOT No.:

---- Verify this number is 100%

ned Cumulative % Retained		Superior Materials, LLC
	0.0	Suite 500
	0.0	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"	66.5	100.0	100.0	85.3	14.7	14.7
3/4"	34.5	100.0	100.0	71.2	14.1	28.8
1/2"	10.9	94.4	100.0	59.9	11.4	40.1
3/8"	6.6	81.8	100.0	55.8	4.1	44.2
#4	2.5	26.8	97.1	43.2	12.6	56.8
#8	1.9	6.5	80.5	32.9	10.2	67.1
#16	1.8	2.4	63.5	25.6	7.3	74.4
#30	1.5	1.5	46.3	18.7	6.9	81.3
#50	1.3	1.3	23.4	9.8	8.9	90.2
#100	1.3	1.2	8.0	3.9	5.9	96.1
LBW	1.1	1.0	1.7	1.3	2.5	98.7

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

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

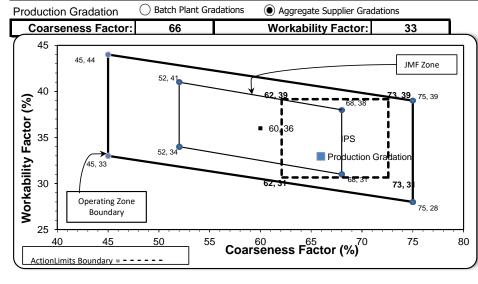
nom. max., #100 and #200 sieves.

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

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

*% Retained must be at least 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	
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:

5/30/22 Concrete Grade: **P1M, 3500HP**

Dates Test F	represents:	5/31/2022	through	6/6/2022		
Agg. Class	Pit#	Source	Weight (SSD)	ft ³	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	1/	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"	66.5	10	0.0	100.0	85.3	14.7	14.7
3/4"	34.5	10	0.0	100.0	71.2	14.1	28.8
1/2"	10.9	94	.4	100.0	59.9	11.4	40.1
3/8"	6.6	81	.8	100.0	55.8	4.1	44.2
#4	2.5	26	6.8	97.1	43.2	12.6	56.8
#8	1.9	6	.5	80.5	32.9	10.2	67.1
#16	1.8	2	.4	63.5	25.6	7.3	74.4
#30	1.5	1.	.5	46.3	18.7	6.9	81.3
#50	1.3	1.	.3	23.4	9.8	8.9	90.2
#100	1.3	1.	.2	8.0	3.9	5.9	96.1
LBW	1.1	1.	.0	1.7	1.3	2.5	98.7

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

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

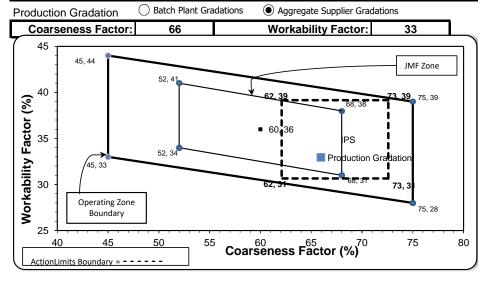
nom. max., #100 and #200 sieves.

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

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

PREPARED BY:
SM, LLC Technical Service

Approved BY:

Approved By:

PLANT #: P-12

Sample Date:

5/30/22 Concrete Grade: P1M, 3500HP

Dates Test F	Represents:	5/31/2022	through	6/6/2022		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	800	4.89	2.62	26.1
IA	71-47	Presque Isle	1020	6.24	2.62	33.2
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7

Contractor:

MDOT No.:



SUPERIOR

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/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100	0.0	100.0	100.0	0.0	0.0
1.5"	95.5	100	0.0	100.0	98.8	1.2	1.2
1"	28.9	100	0.0	100.0	81.5	17.4	18.5
3/4"	5.0	97	. 1	100.0	74.3	7.2	25.7
1/2"	1.6	61	.0	100.0	61.4	12.9	38.6
3/8"	1.5	35	.9	100.0	53.0	8.4	47.0
#4	1.5	6.	4	96.5	41.8	11.2	58.2
#8	1.5	3.	3	78.6	33.5	8.3	66.5
#16	1.5	2.	2	61.6	26.2	7.3	73.8
#30	1.5	1.	9	46.1	19.8	6.4	80.2
#50	1.4	1.	6	25.4	11.2	8.6	88.8
#100	1.3	1.	5	5.2	3.0	8.3	97.0
LBW	0.9	1.	0	0.9	0.9	2.0	99.1

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

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

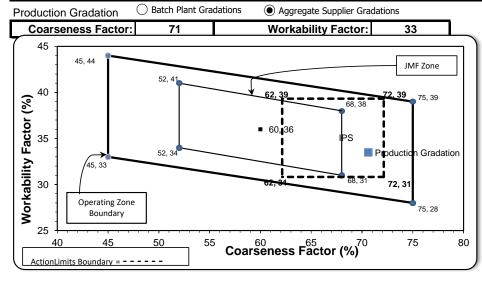
nom. max., #100 and #200 sieves.

 $^{*}\%$ 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)

Coarseness Factor:		67	
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

Smelter Bay

1250

PLANT #: P-32

Pit#

71-47

71-47

95-013

Sample Date:

Agg. Class

CA

IΑ

2NS

Dates Test Represents

5/30/22 Concrete Grade: **P1M, 3500HP**

3:	5/31/2022	through	6/6/2022		
	Source	Weight (SSD)	ft ³	Specific	%
	Source	weight (SSD)	It	Gravity	Contribution
	Presque Isle	550	3.36	2.62	17.9
	Presque Isle	1270	7 77	2 62	41 4

7.56

2.65

Contractor:

MDOT No.:



SUPERIOR

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	L	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	95.5	10	0.0	100.0	99.2	0.8	0.8
1"	28.9	10	0.0	100.0	87.3	11.9	12.7
3/4"	5.0	97	97.1		81.8	5.5	18.2
1/2"	1.6	61	.0	100.0	66.2	15.5	33.8
3/8"	1.5	35	35.9		55.8	10.4	44.2
#4	1.5	6	.4	96.6	42.2	13.6	57.8
#8	1.5	3	.3	84.6	36.1	6.2	63.9
#16	1.5	2	.2	69.8	29.6	6.5	70.4
#30	1.5	1	1.9		21.7	7.9	78.3
#50	1.4	1.6		24.5	10.9	10.9	89.1
#100	1.3	1	.5	6.9	3.7	7.2	96.3
LBW	0.9	1	.0	1.3	1.1	2.6	98.9

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

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

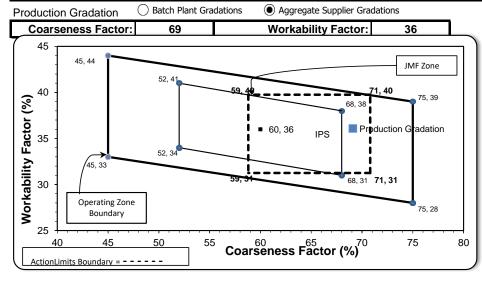
nom. max., #100 and #200 sieves.

 $^{\star}\%$ 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)

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 Approved By

Concrete Grade: P1M, 3500HP

Sample Date: 5/30/22
Dates Test Represents: 5/31/2022

through 6/6/2022

MDOT	No.:	
		١

Contractor:

Specific ft³ Agg. Class Pit# Source Weight (SSD) Gravity Contribution Stoneco CA 58-003 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 18 70

----- Verify this number is 100%

SUPERIOR MATERIALS

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

	i otai wt	3120	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	I.A	1	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"	66.5	100	0.0	100.0	85.3	14.7	14.7
3/4"	34.5	100	0.0	100.0	71.2	14.1	28.8
1/2"	10.9	94	.4	100.0	59.9	11.4	40.1
3/8"	6.6	81	.8	100.0	55.8	4.1	44.2
#4	2.5	26	.8	97.1	43.2	12.6	56.8
#8	1.9	6.	5	80.5	32.9	10.2	67.1
#16	1.8	2.	4	63.5	25.6	7.3	74.4
#30	1.5	1.	5	46.3	18.7	6.9	81.3 r
#50	1.3	1.	3	23.4	9.8	8.9	90.2
#100	1.3	1.	2	8.0	3.9	5.9	96.1
LBW	1.1	1.	0	1.7	1.3	2.5	98.7

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

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

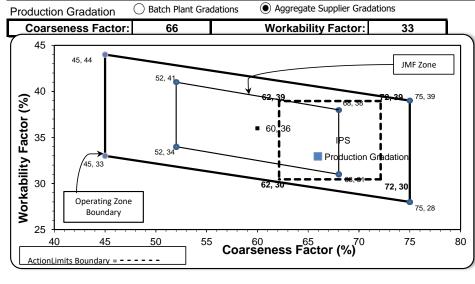
nom. max., #100 and #200 sieves.

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

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

*% Retained must be at least 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	
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 Approved By

Sample Date: 5/30/22 Concrete Grade: P1M, 3500HP

Dates Test F	Represents:	5/31/2022	through	6/6/2022		
Agg. Class	Pit#	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	600	3.67	2.62	19.5
IA	71-47	Presque Isle	1270	7.77	2.62	41.4
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1
Total Wt		3070	18.70		100.0	

Contractor:

MDOT No.:



<---- Verify this number is 100%

d	Cumulative % Retained	<u>Superior Materials, LLC</u> 30701 W. 10 Mile Rd.
	0.0	Suite 500
	0.9	Farmington Hills, MI 48336

		00.0	10110			Tomy and named to 10070		
Sieve	CA	IA	1	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	95.5	100	0.0	100.0	99.1	0.9	0.9	
1"	28.9	100	0.0	100.0	86.1	13.0	13.9	
3/4"	5.0	97	.1	100.0	80.2	5.9	19.8	
1/2"	1.6	61	.0	100.0	64.6	15.6	35.4	
3/8"	1.5	35	.9	100.0	54.2	10.4	45.8	
#4	1.5	6.	4	97.2	40.9	13.3	59.1	
#8	1.5	3.	3	82.0	33.7	7.2	66.3	
#16	1.5	2.	2	67.4	27.5	6.2	72.5	
#30	1.5	1.	9	49.0	20.2	7.3	79.8	
#50	1.4	1.	6	22.2	9.6	10.6	90.4	
#100	1.3	1.	5	2.7	1.9	7.7	98.1	
LBW	0.9	1.	0	0.5	0.8	1.1	99.2	

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

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

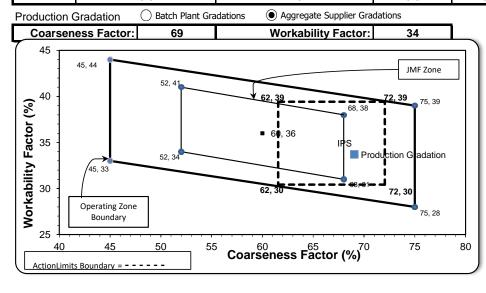
nom. max., #100 and #200 sieves.

 $^{\star}\%$ 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"	85.0	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 Approved By:

5/30/22

PLANT #: P-39

Sample Date:

Concrete Grade: P1M, 3500HP

Dates Test Represents: 5/31/2022 6/6/2022 through

Contractor:

MDOT No.:

24100 10011	top.coc.nc.	0,0.,_0	o a g	0, 0, 2022		
Agg. Class	Pit#	Source	Weight (SSD)	ft ³	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

SUPERIOR MATERIALS	

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

	l otal Wt	3070	18.69		100.0	< Verify this n	umber is 100%
Sieve	CA	I,	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	96.8	10	0.0	100.0	98.9	1.1	1.1
1"	48.1	10	0.0	100.0	82.8	16.2	17.2
3/4"	13.9	98	3.3	100.0	71.0	11.8	29.0
1/2"	3.7	78	3.1	100.0	62.3	8.7	37.7
3/8"	2.6	54	.5	100.0	55.8	6.5	44.2
#4	1.9	15	5.6	96.4	43.9	11.8	56.1
#8	1.7	6	.1	80.6	35.0	9.0	65.0
#16	1.7	3	.8	66.0	28.4	6.5	71.6
#30	1.6	3	2	50.2	21.8	6.6	78.2
#50	1.5	2	9	27.6	12.5	9.3	87.5
#100	1.4	2	7	9.2	4.9	7.6	95.1
LBW	1.2	2.	.5	1.6	1.7	3.2	98.3

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

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

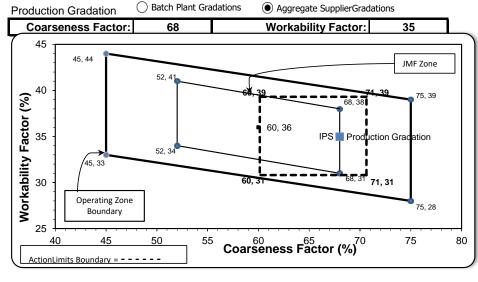
nom. max., #100 and #200 sieves.

*% 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	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:

5/30/22 Concrete Grade: P1M, 3500HP

Dates Test F	represents:	5/31/2022	through	6/6/2022		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	550	3.36	2.62	17.9
IA	71-47	Presque Isle	1270	7.77	2.62	41.4
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7
		Total Wt	3070	18.69		100.0

Contractor:

MDOT No.:



<---- Verify this number is 100%

Cumulative % Retained	
0.0	Suite 500
0.8	Farmington Hills, MI 48336

	i Otai Wt	3070 10.03		100.0	C Verily tills if	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"	95.5	100.0	100.0	99.2	0.8	0.8
1"	28.9	100.0	100.0	87.3	11.9	12.7
3/4"	5.0	97.1	100.0	81.8	5.5	18.2
1/2"	1.6	61.0	100.0	66.2	15.5	33.8
3/8"	1.5	35.9	100.0	55.8	10.4	44.2
#4	1.5	6.4	96.5	42.2	13.6	57.8
#8	1.5	3.3	78.6	33.6	8.6	66.4
#16	1.5	2.2	61.6	26.3	7.4	73.7
#30	1.5	1.9	46.1	19.8	6.4	80.2
#50	1.4	1.6	25.4	11.3	8.6	88.7
#100	1.3	1.5	5.2	3.0	8.3	97.0
LBW	0.9	1.0	0.9	0.9	2.0	99.1

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

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

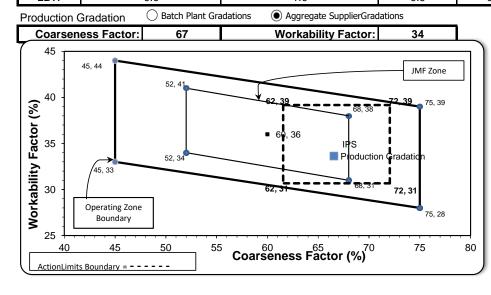
nom. max., #100 and #200 sieves.

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

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"	85.0	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