6AA

100.0

100.0

99.6

84.1

46.9

24.8

5.7

3.1

2.3

2.1

2.0

1.8

Dates Test Represents:

Sieve

2"

1.5"

3/4"

1/2

3/8'

#4

#8

#16

#30

#50

#100

LBW

Cumulative

% Passing

100.0

100.0

99.8

92.4

74.4

62.4

45.3

37.3

29.7

21.1

7.7

2.0

PLANT #: P-103 Sample Date:

3/6/17 S₂M Concrete Grade: 3/6/2017 to

3/12/2017		
ft ³	Specific	%
π	Gravity	Contribution

2NS

100.0

100.0

100.0

100.0

100.0

100.0

99.3

86.6

69.3

48.7

16.1

2.4

Agg. Class	Pit#	Source	Weight (SSD)	ft ³	Specific	%
, 199. C.acc			110.9.11 (002)		Gravity	Contribution
6AA	58-003	Stoneco	1515	9.03	2.69	48.0
26A	58-003	Stoneco	350	2.09	2.69	11.1
2NS	81-93	Burmeister	1290	7.83	2.64	40.9
		Total Wt	3155	18.94		100.0

26A

100.0

100.0

100.0

100.0

99.2

86.7

17.7

4.0

2.0

1.6

1.4

1.4

MDOT No.:

Cumulative

% Retained

0.0

0.0

0.2

7.6

25.6

37.6

54.7

62.7

70.3

78.9

92.3

98.0

---- Verify this number is 100%

Contractor:

% Retained

0.0

0.0

0.2

7.4

18.0

12.0

17.1

8.0

7.7

8.6

13.4

5.7

0.7

SUPERIOR MATERIALS
Superior Materials, LLC

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

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

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

Production Gradation	Batch Plant Gr	adations	r Gradations
Coarseness Factor:	60	Workability Factor:	37
45 45, 44 45, 44 45, 33 Operating Zone Boundary	52, 41	58, 40 69, 40 68, 38 Production Gradation 60, 36 IPS 669311	75, 39 75, 28
25	50 55	Coarseness Factor (%) ⁷⁰	75 80

Intial Production Sample (IPS)

Coars	eness Factor:	63	
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"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

PREPARED BY: SM, LLC Technical Service Approved BY:

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.

Burmeister

6AA

100.0

100.0

99.6

84.1

46.9

24.8

5.7

3.1

2.3

2.1

2.0

Total Wt

2NS

Sieve

2"

1.5"

3/4"

1/2

3/8

#4

#8

#16

#30

#50

81-93

40.9

Cumulative

% Passing

100.0

100.0

99.8

92.4

74.4

62.4

45.3

37.3

29.7

21.1

7.7

PLANT #: P-38 Contractor:

2.64

2NS

100.0

100.0

100.0

100.0

100.0

100.0

99.3

86.6

69.3

48.7

16.1

7.83

18.94

Sample Date: 3/6/17 Concrete Grade: S2M

Jates Test F	represents:	3/6/2017	το	3/12/2017		
Agg. Class	Pit#	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1515	9.03	2.69	48.0
26A	58-003	Stoneco	350	2.09	2.69	11.1

26A

100.0

100.0

100.0

100.0

99.2

86.7

17.7

4.0

2.0

1.6

1.4

1290

3155

MDOT No.:

Cumulative

% Retained

0.0

0.0

0.2

7.6

25.6

37.6

54.7

62.7

70.3

78.9

92.3

98.0

----- Verify this number is 100%

% Retained

0.0

0.0

0.2

7.4

18.0

12.0

17.1

8.0

7.7

8.6

13.4

5.7

0.7

SUPERIOR MATERIALS

<u>Superior Materials, LLC</u> 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.,

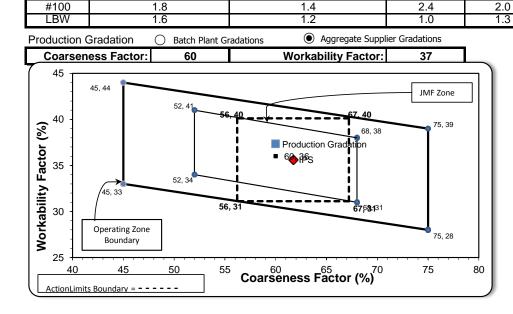
nom. max., #100 and #200 sieves.

*% 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)

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"	99.2	0.8	0.8
3/4"	91.1	8.1	8.9
1/2"	72.0	19.1	28.0
3/8"	60.3	11.7	39.7
#4	43.4	16.9	56.6
#8	35.6	7.8	64.4
#16	28.4	7.2	71.6
#30	21.8	6.7	78.2
#50	9.1	12.6	90.9
#100	1.7	7.4	98.3
LBW	1.1	0.6	98.9

PREPARED BY: SM, LLC Technical Service Approved By