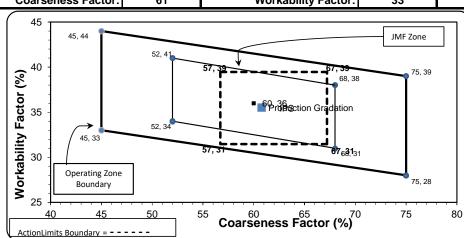
PLANT #	<b>#:</b>	P-101					Contractor:			
Sample Date	:	8/21/23			Concrete Grade:	DM, 4500HP				
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				
6AA	71-47	Presque Isle	1500	9.17	2.62	51.7				
26A	71-47	Presque Isle	250	1.53	2.62	8.6				
2NS	75-051	Mid Michigan	1150	6.93	2.66	39.7				SII
		Total Wt	2900	17.63		100.0	< Verify this n	umber is 100%	-	SU M A T
Sieve		6AA	26	Α	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<u>Superio</u> 30701 V
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	1	Suite 50
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0		Farming
1"		96.7	100	0.0	100.0	98.3	1.7	1.7		
3/4"		84.6	100		100.0	92.0	6.3	8.0		
1/2"		41.8	93	.4	100.0	69.3	22.7	30.7		
3/8"		24.5	80	.7	100.0	59.3	10.0	40.7	*Maximum %	Retained must I
#4		4.2	14.3		96.1	41.5	17.8	58.5	*Any two adja	cent sieves mus
#8		2.3	2.		79.7	33.0	8.5	67.0	nom. max., #10	00 and #200 siev
#16		2.0	1.	=	64.6	26.8	6.3	73.2	*% Retained r	must be at least
#30		2.0	2.		49.3	20.8	6.0	79.2	nom. max., #10	00 and #200 siev
#50		1.9	0.		26.6	11.6	9.1	88.4	*% Retained r	must be at least
#100		1.8	0.		7.9	4.1	7.5	95.9	a 1.5" max. siz	e (nom. Max. 1.0
LBW		1.5	0.	8	1.1	1.3	2.9	98.7		
Production G	radation	O Batch Plant Gra	dations 💿 Agg	regate Supplier G	Gradations	Adjusted WF	Initial Product	ion Sample (IP	S)	_
Coarsene	ss Factor:	61	Work	ability Facto	r: 33	35.5	Coars	eness Factor:	62	
45							Work	ability Factor:	35	
	45, 44				JMF Zone		Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
		52, 41					2"	100.0	0.0	0.0
ू <sup>40</sup> ।			57, 39	67, 3	75, 39		1.5"	100.0	0.0	0.0
			!	~_ <b>L</b> °°	,		1"	100.0	0.0	0.0
j j			■_ <b>6</b> 0.3	6			3/4"	95.0	5.0	5.0
Factor (%)				Bection Gradatic	n		1/2"	70.5	24.5	29.5
ļŭ į	$\rightarrow$	52, 34	<u> </u>				3/8"	60.0	10.5	40.0



ior Materials, LLC W. 10 Mile Rd. 00 gton Hills, MI 48336

be above the 3/8" sieve. ust equal 10% except max., eves. 4% for each sieve except max., eves. 4% for the 3/4" sieve when .0") aggregate is used.



Coars	eness Factor:	62	
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"	100.0	0.0	0.0
3/4"	95.0	5.0	5.0
1/2"	70.5	24.5	29.5
3/8"	60.0	10.5	40.0
#4	44.4	15.6	55.6
#8	35.5	9.0	64.5
#16	28.5	7.0	71.5
#30	21.5	7.0	78.5
#50	10.2	11.3	89.8
#100	3.1	7.1	96.9
LBW	1.3	1.8	98.7

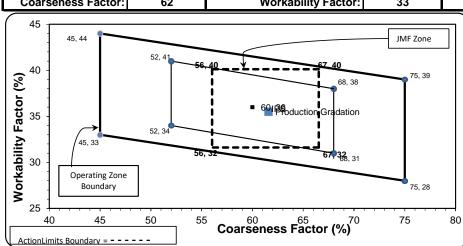
Approved By: Mart P. Ball

PLANT #	#:	P-102					Contractor:			
Sample Date	:	8/21/23		C	Concrete Grade	DM, 4500HP	_			
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				
6AA	58-003	Stoneco	1525	9.09	2.69	51.7				
26A	58-003	Stoneco	275	1.64	2.69	9.3				
2NS	81-019	Pleasant Lake	1150	6.95	2.65	39.0				SUP
		Total Wt	2950	17.68		100.0	< Verify this n	umber is 100%		MATI
Sieve		6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<u>Superior</u> 30701 W.
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0		Suite 500
1.5"	1	00.0	10	0.0	100.0	100.0	0.0	0.0		Farmingto
1"	1	00.0	10	0.0	100.0	100.0	0.0	0.0		
3/4"		80.9	10	0.0	100.0	90.1	9.9	9.9		
1/2"		42.3	10	0.0	100.0	70.2	20.0	29.8		
3/8"	:	22.1	89	).4	100.0	58.7	11.4	41.3	*Maximum %	Retained must be
#4		4.0	11	.4	97.7	41.2	17.5	58.8	*Any two adja	cent sieves must
#8		1.9	4	.0	81.2	33.0	8.2	67.0	nom. max., #10	00 and #200 sieve
#16		1.8	3	.0	63.9	26.1	6.9	73.9	*% Retained	must be at least 49
#30		1.8	2	.5	45.0	18.7	7.4	81.3	nom. max., #10	00 and #200 sieve
#50		1.7		.3	22.0	9.7	9.0	90.3	*% Retained	must be at least 49
#100		1.7	2		6.3	3.5	6.1	96.5	a 1.5" max. siz	e (nom. Max. 1.0")
LBW		1.1	1	.4	1.2	1.2	2.4	98.8		
Production G	radation	O Batch Plant Gra	dations 🛛 🔘 Agg	regate Supplier Gra	dations	Adjusted WF	Intial Production	on Sample (IPS	5)	
Coarsene	ess Factor:	62	Worl	ability Factor:	33	35.5	Coars	eness Factor:	61	
45							Work	ability Factor:	36	
	15, 44				JMF Zone		Siovo	Cumulative	%	Cumulative
. 1	10, <del>1</del>				Jivii 2011e		Sieve	% Passing	Retained	% Retained
		52, 41 <b></b> 56	40	67 40			2"	100.0	0.0	0.0
					75.39		1.5"	100.0	0.0	0.0



Materials, LLC 10 Mile Rd. on Hills, MI 48336

above the 3/8" sieve. equal 10% except max., es. % for each sieve except max., es. % for the 3/4" sieve when aggregate is used.



Coars	seness Factor:	61	
Worl	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

Approved By: Mary P. Ball

PLANT a	#:	P-103					Contractor:				
Sample Date	:	8/21/23		C	Concrete Grade	DM, 4500HP					
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	58-003	Stoneco	1525	9.09	2.69	51.7					
26A	58-003	Stoneco	275	1.64	2.69	9.3					
2NS	81-019	Pleasant Lake	1150	6.95	2.65	39.0				SUP	ERIOR
		Total Wt	2950	17.68		100.0	< Verify this n	umber is 100%	1	MATE	RIALS
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained			<b>Materials, LLC</b> 10 Mile Rd.
2"		100.0	100	0.0	100.0	100.0	0.0	0.0		Suite 500	
1.5"		100.0	100		100.0	100.0	0.0	0.0		Farmingto	n Hills, MI 48336
1"		100.0	100	0.0	100.0	100.0	0.0	0.0			
3/4"		80.9	100	0.0	100.0	90.1	9.9	9.9			
1/2"		42.3	100		100.0	70.2	20.0	29.8			
3/8"		22.1	89		100.0	58.7	11.4	41.3	*Maximum % Retained must be above the 3/8" sier		
#4		4.0	11		97.7	41.2	17.5	58.8	*Any two adja	icent sieves must e	qual 10% except max.,
#8		1.9	4.0		81.2	33.0	8.2	67.0		00 and #200 sieves	
#16		1.8	3.0 2.5		63.9	26.1	6.9	73.9			for each sieve except
#30		1.8			45.0	18.7	7.4	81.3	,	00 and #200 sieves	
#50		1.7	2.	-	22.0	9.7	9.0	90.3			for the 3/4" sieve wher
#100 LBW		<u>1.7</u> 1.1	2.		6.3 1.2	3.5 1.2	6.1 2.4	96.5 98.8	a 1.5" max. siz	e (nom. Max. 1.0")	aggregate is used.
Production G	radation	Batch Plant Gra		- regate Supplier Gra		Adjusted WF		on Sample (IPS	•		
	ess Factor:	-		ability Factor:	33	35.5		eness Factor:	61		
Coarsene	55 Facior.	02	WOIN	ability Factor.	33	35.5			36		
<sup>45</sup> T	-				<b></b>	)	WORK	ability Factor: Cumulative	30 %	Cumulative	
1 4	45, 44				JMF Zone		Sieve	% Passing	Retained	% Retained	
1		52, 41		_			2"	100.0	0.0	0.0	
<b>4</b> 0		56	40	67.40	75, 39		1.5"	100.0	0.0	0.0	
8			!	68, 38	10,00		1"	99.3	0.7	0.7	
5				l I			3/4"	89.2	10.1	10.8	
Factor (%)				oduction Gradation			1/2"	70.7	18.5	29.3	
	$\rightarrow$	52, 34	-	<b>!</b>			3/8"	60.7	10.0	39.3	
Ę į	45, 33		L				#4	44.4	16.3	55.6	
Workability		56,	32	67, 32, 31			#8	35.9	8.5	64.1	
∎ ~   L	Operating Zone	2					#16	27.3	8.6	72.7	
<u>ک</u>	Boundary				75, 28		#30	19.1	8.2	80.9	
S   L							#50	7.4	11.7	92.6	
- <sub>2</sub>							#100	1.9	5.6	98.1	
25 <del> </del> 40	45	50 55	<b>Coarseness</b>	65 70	75	80	LBW	0.7	1.2	99.3	

Approved BY: Mary 1. Ball

PLANT :	-	14					Contractor:			-	
Sample Date	-	8/21/23		C	oncrete Grade	: DM, 4500HP					
Dates Test R	Represents:	8/22/2023	through	8/28/2023			MDOT No.:			-	
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				Γ	
6AA	58-003	Stoneco	1500	8.94	2.69	50.7					
26A	58-003	Stoneco	360	2.14	2.69	12.2				L	
2NS	19-04	Schlegel	1100	6.60	2.67	37.2			Builde		<b>Iders'</b>
		Total Wt	2960	17.68		100.0	< Verify this n	umber is 100%	•	REDI-MIX Finish First With Builders'	
Sieve	6	<b>SAA</b>	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<b>Builders</b> 30701 W.	<b>Redi-Mix</b> 10 Mile Rd.
2"	1	00.0	100	).0	100.0	100.0	0.0	0.0	1	Suite 500	
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	]	Farmingto	n Hills, MI 48336
1"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	]		
3/4"		30.9	100		100.0	90.3	9.7	9.7	]		
1/2"		12.3	100	-	100.0	70.8	19.6	29.2			
3/8"		22.1	89		100.0	59.2	11.5	40.8	*Maximum %	Retained must be	above the 3/8" sieve.
#4		4.0	11		99.9	40.5	18.7	59.5	*Any two adja	icent sieves must e	equal 10% except max.,
#8		1.9	4.	-	90.1	34.9	5.6	65.1	· ·	00 and #200 sieves	
#16		1.8	3.		69.4	27.1	7.9	72.9			6 for each sieve except
#30		1.8	2.	-	44.5	17.8	9.3	82.2	,	00 and #200 sieves	
#50		1.7	2.		14.3	6.5 2.1	11.3	93.5			6 for the 3/4" sieve wher
#100 LBW		<u>1.7</u> 1.1	2.		2.7 0.2	0.8	4.3 1.3	97.9 99.2	a 1.5" max. siz	e (nom. Max. 1.0")	aggregate is used.
Production G		Batch Plant Gra	-	regate Supplier Grac	-		-	on Sample (IPS			
	ess Factor:	63	0 33	ability Factor:	35	37.4		eness Factor:	<b>63</b>		
45				-			Work	ability Factor:	36		
45	45, 44				JMF Zone		Sieve	Cumulative % Passing	% Retained	Cumulative % Retained	
		52, 41	57, 40	68, 40			2"	100.0	0.0	0.0	
হ <sup>40</sup>				68, 38	75, 39		1.5"	100.0	0.0	0.0	
Workability Factor (%)			i 🖕	Production Gradatic	on		1"	99.3	0.7	0.7	
1 10			<b>6</b> 0, 36				3/4"	89.0	10.3	11.0	
<b>5</b> 35			i				1/2"	70.3	18.7	29.7	
<u>к</u>		52, 34	-				3/8"	59.9	10.4	40.1	
	45, 33		57,22	688, 32 688, 31			#4 #8	41.9 35.9	18.0 6.0	58.1 64.1	
		-		- 68, 31			#8 #16	27.8	6.0 8.2	64.1 72.2	
ž	Operating Zone						#16 #30	18.9	8.2	81.1	
₹ jL	Boundary				75, 28		#30	6.3	0.0 12.6	93.7	
25							#100	1.7	4.6	98.3	
40	45	50 55	5 60	65 70	75	80		1.0		00.0	

75

80

LBW

0.7

99.0

1.0

PREPARED BY: SM, LLC Technical Service

45

ActionLimits Boundary = - - - - -

50

40

**Coarseness Factor (%)**<sup>70</sup>

55

Approved By: Mart P. Ball

PLANT :	#:	12	-				Contractor:			
Sample Date		8/21/23	-		Concrete Grade	DM, 4500HP	-			
Dates Test R	Represents:	8/22/2023	through	8/28/2023	Oracelfie	0/	MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				
6AA	71-47	Presque Isle	1550	9.48	2.62	53.4				
26A	71-47	Presque Isle	205	1.25	2.62	7.1				
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6				SUD
-		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%		MATE
Sieve		6AA	20	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<u>Superior I</u> 30701 W. 1
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0		Suite 500
1.5"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	]	Farmingtor
1"		98.8		0.0	100.0	99.4	0.6	0.6		
3/4"		82.2		0.0	100.0	90.5	8.9	9.5		
1/2"		43.0	96	6.5	100.0	69.3	21.2	30.7		
3/8"		23.6		).3	100.0	58.6	10.8	41.4	*Maximum %	Retained must be
#4		4.5		2.8	96.4	42.9	15.7	57.1	*Any two adja	icent sieves must e
#8		2.2	8.8		81.8	34.2	8.7	65.8	nom. max., #1	00 and #200 sieves
#16		2.0	3		66.7	27.7	6.5	72.3	*% Retained	must be at least 4%
#30		1.8		.4	50.4	21.1	6.6	78.9		00 and #200 sieves
#50		1.8		.2	25.6	11.2	9.8	88.8		must be at least 4%
#100		1.7		.0	5.0	3.0	8.2	97.0	a 1.5" max. siz	e (nom. Max. 1.0")
LBW		1.4	_	.8	0.7	1.2	1.9	98.8		
Production G		O Batch Plant Gra		regate Supplier Gra	T			on Sample (IPS	,	
Coarsene	ess Factor:	63	Wor	cability Factor:	: 34	36.7		eness Factor:	63	
<sup>45</sup> ]							Work	ability Factor:	36	
	45, 44				JMF Zone		Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
10		52, 41	57, 40	68, 40			2"	100.0	0.0	0.0
<b>হ</b> <sup>40</sup> ]				68, 38	75, 39		1.5"	100.0	0.0	0.0
<u>ຍ</u>			į _				1"	99.3	0.7	0.7
Į Į			<b>6</b> 0, 36	Production Grada	tion		3/4"	89.0	10.3	11.0
<b>2</b> <sup>8</sup> 35			i í				1/2"	70.3	18.7	29.7
<b>∟</b> ]	$\rightarrow$	52, 34		i			3/8"	59.9	10.4	40.1
ΞÍ I	45, 33		17-22				#4	41.9	18.0	58.1
<b>ig</b> 30 -	1			68, 32			#8	35.9	6.0	64.1
ž	I Operating Zone						#16	27.8	8.2	72.2
Workability Factor (%)	Boundary				75, 28		#30	18.9	8.8	81.1
> <sub>25</sub>							#50	6.3	12.6	93.7
	45		- 00	05 70			#100	17	46	98.3

 $\mathbf{Coarseness} \ \mathbf{F_{actor}^{65}} (\mathbf{\%})^{70}$ 

#100

LBW

80

75

1.7

1.0

4.6

0.7

98.3

99.0



erials, LLC ile Rd. , MI 48336

e the 3/8" sieve. 10% except max., each sieve except max., he 3/4" sieve when egate is used.

PREPARED BY: SM, LLC Technical Service

45

ActionLimits Boundary = - - - - -

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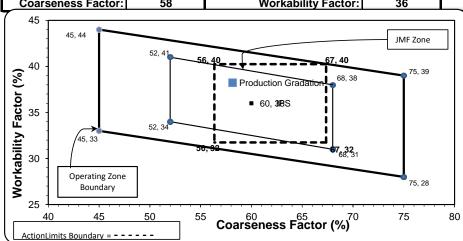
Approved By:

PLANT #	<b>#:</b>	p11					Contractor:			
Sample Date	:	8/21/23			Concrete Grade:	DM, 4500HP	_			
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				
6AA	71-47	Presque Isle	1455	8.90	2.62	50.1				
26A	71-47	Presque Isle	300	1.83	2.62	10.3				
2NS	95-013	Smelter Bay	1150	6.95	2.65	39.6	1			SUP
		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%	_	MATE
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<u>Superior I</u> 30701 W. 1
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0		Suite 500
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0		Farmingtor
1"	1	98.1	100	0.0	100.0	99.0	1.0	1.0		
3/4"		86.7	100	0.0	100.0	93.3	5.7	6.7		
1/2"		43.9	96	5.5	100.0	71.5	21.8	28.5		
3/8"	:	27.4	90	.3	100.0	62.6	8.9	37.4	*Maximum %	Retained must be a
#4		5.2	32	2.8	96.1	44.0	18.6	56.0	*Any two adja	cent sieves must eo
#8		2.5	8.	.8	84.8	35.7	8.3	64.3	nom. max., #10	00 and #200 sieves.
#16		2.2	3.	.5	70.0	29.2	6.6	70.8	*% Retained	must be at least 4%
#30		2.1	2.	.4	49.9	21.1	8.1	78.9	nom. max., #10	00 and #200 sieves.
#50		2.0	2.	.2	23.6	10.6	10.5	89.4	*% Retained	must be at least 4%
#100		1.9	2.		6.9	3.9	6.7	96.1	a 1.5" max. siz	e (nom. Max. 1.0") a
LBW		1.5	1.	.8	1.2	1.4	2.5	98.6		
Production G		O Batch Plant Gra		regate Supplier G				on Sample (IPS		•
Coarsene	ess Factor:	58	Work	ability Facto	or: 36	38.2	Coars	eness Factor:	62	
45 T						— )	Work	ability Factor:	36	
	15, 44	52, 41			JMF Zone		Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
40		52, 4	5.40	67, 40			2"	100.0	0.0	0.0
<b>?</b>				68,	75, 39		1.5"	100.0	0.0	0.0
Factor (%)			Production	Gradation			1"	100.0	0.0	0.0
8			■ 60, <b>3</b> 18	s I			3/4"	95.0	5.0	5.0
<b>i</b> i i i i i i i i i i i i i i i i i i			i	<b>i</b>			1/2"	72.3	22.8	27.7
		52, 34	+	i i			3/8"	60.4	11.8	39.6
lity	45, 33			┍╼┲╺┛╽╴╖	. I		#4	42.6	17.8	57.4



erials, LLC ile Rd. s, MI 48336

the 3/8" sieve. 10% except max., ach sieve except max., he 3/4" sieve when egate is used.



Coars	eness Factor:	62	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% 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"	95.0	5.0	5.0
1/2"	72.3	22.8	27.7
3/8"	60.4	11.8	39.6
#4	42.6	17.8	57.4
#8	36.0	6.6	64.0
#16	29.5	6.5	70.5
#30	20.3	9.2	79.7
#50	9.5	10.8	90.5
#100	3.4	6.1	96.6
LBW	1.3	2.1	98.7

Approved By: Marthe Ball

PLANT #	#:	P-32	_				Contractor:				
Sample Date	:	8/21/23		C	Concrete Grade	: DM, 4500HP					
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	71-47	Presque Isle	1455	8.90	2.62	50.1					
26A	71-47	Presque Isle	300	1.83	2.62	10.3					
2NS	95-013	Smelter Bay	1150	6.95	2.65	39.6				SUP	ERIOR
		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%			RIALS
Sieve		6 <b>A</b> A	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained			<b>Materials, LLC</b> 10 Mile Rd.
2"	1	00.0	100	).0	100.0	100.0	0.0	0.0		Suite 500	
1.5"		00.0	100		100.0	100.0	0.0	0.0		Farmingto	n Hills, MI 48336
1"		98.1	100	).0	100.0	99.0	1.0	1.0			
3/4"		86.7	100		100.0	93.3	5.7	6.7			
1/2"		43.9	96		100.0	71.5	21.8	28.5			
3/8"		27.4	90	-	100.0	62.6	8.9	37.4			above the 3/8" sieve.
#4		5.2	32		96.1	44.0	18.6	56.0			qual 10% except max.,
#8		2.5	8.	-	84.8	35.7	8.3	64.3	-	00 and #200 sieves	
#16		2.2	3.		70.0	29.2	6.6	70.8			for each sieve except r
#30 #50		2.1 2.0	2.		49.9 23.6	21.1	8.1	78.9	,	00 and #200 sieves	
#50 #100		<u>2.0</u> 1.9	2.		6.9	10.6 3.9	10.5 6.7	89.4 96.1			for the 3/4" sieve when
LBW		1.5	1.		1.2	1.4	2.5	98.6	a 1.5 max. siz	e (nom. Max. 1.0")	aggregate is used.
Production G	radation	Batch Plant Gra		egate Supplier Gra				on Sample (IPS	3)		
	ess Factor:	58	Work	ability Factor:	36	38.2		eness Factor:	, 62		
		50		ability ractor.	50	50.2		ability Factor:	36		
<sup>45</sup> T							WORK	Cumulative	%	Cumulative	
- 4	45, 44				JMF Zone		Sieve	% Passing	Retained	% Retained	
1		52, 41	6. 40	67.40			2"	100.0	0.0	0.0	
<b>a</b> <sup>40</sup>				67,40	75, 39		1.5"	100.0	0.0	0.0	
Factor (%)			Production	Gradation 68, 38			1"	100.0	0.0	0.0	
5			■ 60, <b>3</b> B				3/4"	95.0	5.0	5.0	
<b>2</b> 35			- 00, 36	° !			1/2"	72.3	22.8	27.7	
	$\rightarrow$	52, 34	-i				3/8"	60.4	11.8	39.6	
it	45, 33		!				#4	42.6	17.8	57.4	
Workability			5, 5,	<b>67, 32</b> 68, 31			#8	36.0	6.6	64.0	
ka	Operating Zone						#16	29.5	6.5	70.5	
<b>a</b> 11	Boundary				75, 28		#30	20.3	9.2	79.7	
8 IL							#50	9.5	10.8	90.5	
<b>8</b> 1 40	45	50 55	5 60	<b>Factor (%)</b> <sup>70</sup>	75	80	#100 LBW	3.4 1.3	6.1 2.1	96.6 98.7	

Approved By:

PLANT #	#:	P-35	-				Contractor:				
Sample Date	;:	8/21/23			Concrete Grade:	DM, 4500HP	-				
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	58-003	Stoneco	1525	9.09	2.69	51.7					
26A	58-003	Stoneco	275	1.64	2.69	9.3					
2NS	81-019	Pleasant Lake	1150	6.95	2.65	39.0				SUD	ERIOR
		Total Wt	2950	17.68		100.0	< Verify this n	umber is 100%	-	MATE	ERIALS
Sieve	(	6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained			<u>Materials, LLC</u> 10 Mile Rd.
2"	1	00.0	10	).0	100.0	100.0	0.0	0.0		Suite 500	
1.5"	1	00.0	100	).0	100.0	100.0	0.0	0.0	]	Farmingto	n Hills, MI 48336
1"	1	00.0	100	0.0	100.0	100.0	0.0	0.0			
3/4"		80.9	10		100.0	90.1	9.9	9.9			
1/2"		42.3	100	0.0	100.0	70.2	20.0	29.8			
3/8"	-	22.1	89	.4	100.0	58.7	11.4	41.3	*Maximum % Retained must be above the 3/8" siev		
#4		4.0	11	.4	97.7	41.2	17.5	58.8	*Any two adja	icent sieves must e	qual 10% except max.
#8		1.9	4.		81.2	33.0	8.2	67.0	nom. max., #10	00 and #200 sieves	3.
#16		1.8	3.		63.9	26.1	6.9	73.9	*% Retained r	must be at least 4%	6 for each sieve except
#30		1.8	2.	5	45.0	18.7	7.4	81.3	nom. max., #10	00 and #200 sieves	3.
#50		1.7	2.		22.0	9.7	9.0	90.3	*% Retained r	must be at least 4%	6 for the 3/4" sieve whe
#100		1.7	2.		6.3	3.5	6.1	96.5	a 1.5" max. siz	e (nom. Max. 1.0")	aggregate is used.
LBW		1.1	1.	4	1.2	1.2	2.4	98.8			
Production G	radation	O Batch Plant Gra	idations 💿 Agg	regate Supplier Gr	adations	Adjusted WF	Intial Production	on Sample (IPS	8)	•	
Coarsene	ess Factor:	62	Work	ability Factor	: 33	35.5	Coars	eness Factor:	61		
45							Work	ability Factor:	36		-
-	45, 44				JMF Zone		Sieve	Cumulative	%	Cumulative	
	,							% Passing	Retained	% Retained	
4		52, 41	40	67 40			2"	100.0	0.0	0.0	
10								100.0	0.0	00	
<b>9</b> <sup>40</sup>					75, 39		1.5"	100.0		0.0	
<b>(%)</b>				68, 38	75, 39		1"	99.3	0.7	0.7	
tor (%)			- 60.36				1" 3/4"	99.3 89.1	0.7 10.2	0.7 10.9	
actor (%)			■ 60 <sub>11</sub> ₿ĝ	68, 38			1" 3/4" 1/2"	99.3 89.1 70.5	0.7 10.2 18.6	0.7 10.9 29.5	
r Factor (%)		52, 34	■ 6 <mark>0</mark> 138				1" 3/4" 1/2" 3/8"	99.3 89.1 70.5 60.5	0.7 10.2 18.6 10.0	0.7 10.9 29.5 39.5	
lity Factor (%)	45, 33		 				1" 3/4" 1/2" 3/8" #4	99.3 89.1 70.5 60.5 44.1	0.7 10.2 18.6 10.0 16.4	0.7 10.9 29.5 39.5 55.9	
bility Factor (%)	45, 33	52, 34	 				1" 3/4" 1/2" 3/8" #4 #8	99.3 89.1 70.5 60.5 44.1 35.6	0.7 10.2 18.6 10.0 16.4 8.5	0.7 10.9 29.5 39.5 55.9 64.4	
kability Factor (%)	45, 33 Operating Zone	56,	+	oduction Gradation			1" 3/4" 1/2" 3/8" #4 #8 #16	99.3 89.1 70.5 60.5 44.1 35.6 27.7	0.7 10.2 18.6 10.0 16.4 8.5 7.9	0.7 10.9 29.5 39.5 55.9 64.4 72.3	
<b>/orkability Factor (%)</b>		56,	+	oduction Gradation			1" 3/4" 1/2" 3/8" #4 #8 #16 #30	99.3 89.1 70.5 60.5 44.1 35.6 27.7 20.6	0.7 10.2 18.6 10.0 16.4 8.5 7.9 7.1	0.7 10.9 29.5 39.5 55.9 64.4 72.3 79.4	
Workability Factor (%)	Operating Zone	56,	+	oduction Gradation			1" 3/4" 1/2" 3/8" #4 #8 #16 #30 #50	99.3 89.1 70.5 60.5 44.1 35.6 27.7 20.6 8.7	0.7 10.2 18.6 10.0 16.4 8.5 7.9 7.1 11.8	0.7 10.9 29.5 39.5 55.9 64.4 72.3 79.4 91.3	
40 35 25 40 40	Operating Zone	56,	31	oduction Gradation	75, 28	80	1" 3/4" 1/2" 3/8" #4 #8 #16 #30	99.3 89.1 70.5 60.5 44.1 35.6 27.7 20.6	0.7 10.2 18.6 10.0 16.4 8.5 7.9 7.1	0.7 10.9 29.5 39.5 55.9 64.4 72.3 79.4	

PREPARED BY: SM, LLC Technical Service

ActionLimits Boundary = - - - - -

Approved By:

PLANT #	#:	P-36	_				Contractor:					
Sample Date		8/21/23	-		Concrete Grade:	DM, 4500HP				-		
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:					
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution						
6AA	71-47	Presque Isle	1500	9.17	2.62	51.6						
26A	71-47	Presque Isle	255	1.56	2.62	8.8						
2NS	63-92	Grange Hall	1150	6.95	2.65	39.6			SUPERIOR			
		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%			FIALS	
Sieve		6AA	26	Α	2NS	Cumulative % Passing	% Retained	Cumulative % Retained			Materials, LLC 10 Mile Rd.	
2"	100.0		100.0		100.0	100.0	0.0	0.0	Suite 500			
1.5"		00.0	100.0		100.0	100.0	0.0	0.0	Farmington Hills, MI 48336			
1"		98.8	100.0		100.0	99.4	0.6	0.6	1			
3/4"		82.2	100	0.0	100.0	90.8	8.6	9.2				
1/2"		43.0	96	.5	100.0	70.3	20.5	29.7				
3/8"		23.6	90.3		100.0	59.7	10.6	40.3	*Maximum % Retained must be above the 3/8" sieve.			
#4	4.5		32.8		97.6	43.8	15.9	56.2	*Any two adjacent sieves must equal 10% except max.,			
#8	2.2		8.8		83.3	34.9	9.0	65.1	nom. max., #100 and #200 sieves.			
#16		2.0	3.	-	68.6	28.5	6.4	71.5			6 for each sieve except m	
#30		1.8	2.		49.3	20.7	7.8	79.3		nom. max., #100 and #200 sieves.		
#50		1.8	2.		19.8	9.0	11.7	91.0			6 for the 3/4" sieve when	
#100 LBW		<u>1.7</u> 1.4	2.	-	2.8	2.2	6.8 1.1	97.8 99.0	a 1.5" max. sız	e (nom. Max. 1.0")	aggregate is used.	
Production G	radation	Batch Plant Gra		egate Supplier G				on Sample (IPS	3)			
	ess Factor:	62	Workability Factor:		35	37.4	Coarseness Factor:		63			
							Workability Factor:		35			
45					JMF Zone			Cumulative	%	Cumulative		
- 4	45, 44				JIVIF 2011e		Sieve	% Passing	Retained	% Retained		
1		52, 41					2"	100.0	0.0	0.0		
<del>م</del> 40			58, 39	<b>68</b> , 3	75, 39		1.5"	100.0	0.0	0.0		
Factor (%)			i D	oduction Gradatio			1"	99.1	0.9	0.9		
jo j			∎ ■ 60, 36				3/4"	90.3	8.8	9.7		
<b>26</b> 35 -			- 00,00	IPS			1/2"	69.2	21.1	30.8		
Щ́ į		52, 34		i			3/8"	59.1	10.1	40.9		
Ē	45, 33						#4	41.8	17.3	58.2		
		_	58, 31	68, <sup>3</sup>	31		#8 #16	35.1	6.6	64.9 71 5		
ž	Operating Zone						#16 #30	28.5 21.2	6.6 7.3	71.5 78.8		
Workability	Boundary				75, 28		#30	8.7	12.5	91.3		
							#100	1.8	7.0	91.3		
25 —								-				
25 <del> </del> 40	45	<u> </u>	5 <b>6</b> 0	<b>Factor (%)</b>	0 75	80	LBW	0.7	1.0	99.3		

Approved By:

sieve except max.,

PLANT 7	#:	P-38					Contractor:				
Sample Date	:	8/21/23			Concrete Grade	: DM, 4500HP					
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	58-003	Stoneco	1525	9.09	2.69	51.7					
26A	58-003	Stoneco	275	1.64	2.69	9.3					
2NS 81-019		Pleasant Lake	1150 6.95		2.65	39.0				SUP	ERIOR
		Total Wt	2950	17.68		100.0	< Verify this n	umber is 100%	I		RIALS
Sieve 6AA		26A		2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<u>Superior I</u> 30701 W. 1	<b>Materials, LLC</b> 10 Mile Rd.	
2"	1	00.0	100.0		100.0	100.0	0.0	0.0		Suite 500	
1.5"	1	00.0	100.0		100.0	100.0	0.0	0.0		Farmingtor	n Hills, MI 48336
1"		00.0	100		100.0	100.0	0.0	0.0			
3/4"		80.9	100		100.0	90.1	9.9	9.9			
1/2"		42.3	100		100.0	70.2	20.0	29.8			
3/8"		22.1	89.4		100.0	58.7	11.4	41.3	*Maximum % Retained must be above the 3/8" sie		
#4	4.0		11.4		97.7	41.2	17.5	58.8	*Any two adjacent sieves must equal 10% except n		
#8		1.9	4.0		81.2	33.0	8.2	67.0	nom. max., #100 and #200 sieves.		
#16		1.8	3.		63.9	26.1	6.9	73.9	*% Retained I	*% Retained must be at least 4% for each sieve e	
#30		1.8	2.		45.0	18.7	7.4	81.3		nom. max., #100 and #200 sieves.	
#50		1.7	2.3		22.0	9.7	9.0	90.3	*% Retained must be at least 4% for the 3/4" sieve w		
#100		1.7	2.2		6.3	3.5	6.1	96.5	a 1.5" max. siz	e (nom. Max. 1.0")	aggregate is used.
LBW		1.1			1.2	1.2	2.4	98.8			
roduction G	radation	O Batch Plant Gra	dations 💿 Agg	regate Supplier Gr	adations	Adjusted WF	Intial Production	on Sample (IPS	)		
Coarsene	ess Factor:	62	Work	ability Factor	33	35.5	Coars	eness Factor:	61		
					•						
							Work	ability Factor:	36		
45	45, 44				JMF Zone		Work Sieve	Cumulative	%	Cumulative % Retained	
-	45, 44	52, 41			JMF Zone			-		Cumulative % Retained 0.0	
40	45, 44	52, 41 <b></b>	<b>↓</b>	<del> </del>	- 75.39		Sieve	Cumulative % Passing	% Retained	% Retained	
40	45, 44	52, 41 <b>56,</b>	₩ ₩ ₩	<b>97, 40</b> 68, 38	- 75.39		Sieve 2"	Cumulative % Passing 100.0	% Retained 0.0	% Retained 0.0	
40	45, 44	52, 41 <b>56;</b>	<b>₩</b>		75, 39		Sieve 2" 1.5" 1" 3/4"	Cumulative % Passing 100.0 100.0	% Retained 0.0 0.0	% Retained 0.0 0.0 0.7 10.9	
40	45, 44	52, 41 56;	10	68, 38 oduction Gradation	75, 39		Sieve 2" 1.5" 1" 3/4" 1/2"	Cumulative % Passing 100.0 99.3 89.1 70.5	% Retained 0.0 0.0 0.7 10.2 18.6	% Retained 0.0 0.0 0.7 10.9 29.5	
40	45, 44	52, 41 56,	+ <del>10</del> ■ 60,µ≩§		75, 39		Sieve 2" 1.5" 1" 3/4" 1/2" 3/8"	Cumulative % Passing 100.0 99.3 89.1 70.5 60.5	% Retained 0.0 0.0 0.7 10.2 18.6 10.0	% Retained 0.0 0.0 0.7 10.9 29.5 39.5	
40	45, 44	56,			75, 39		Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4	Cumulative % Passing 100.0 99.3 89.1 70.5	% Retained 0.0 0.0 0.7 10.2 18.6	% Retained 0.0 0.0 0.7 10.9 29.5	
40		56,			75, 39		Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8	Cumulative % Passing 100.0 99.3 89.1 70.5 60.5 44.1 35.6	% Retained 0.0 0.7 10.2 18.6 10.0 16.4 8.5	% Retained   0.0   0.0   0.7   10.9   29.5   39.5   55.9   64.4	
40	45, 33	52, 34		oduction Gradation	75, 39		Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8 #16	Cumulative % Passing 100.0 99.3 89.1 70.5 60.5 44.1 35.6 27.7	% Retained 0.0 0.7 10.2 18.6 10.0 16.4 8.5 7.9	% Retained   0.0   0.0   0.7   10.9   29.5   39.5   55.9   64.4   72.3	
40		52, 34		oduction Gradation	75, 39		Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8 #16 #30	Cumulative % Passing 100.0 99.3 89.1 70.5 60.5 44.1 35.6 27.7 20.6	% Retained 0.0 0.7 10.2 18.6 10.0 16.4 8.5 7.9 7.1	% Retained   0.0   0.0   0.7   10.9   29.5   39.5   55.9   64.4   72.3   79.4	
Workability Factor (%)	45, 33 Operating Zone	52, 34		oduction Gradation	75, 39		Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8 #16 #30 #50	Cumulative % Passing 100.0 99.3 89.1 70.5 60.5 44.1 35.6 27.7 20.6 8.7	%   Retained   0.0   0.0   0.7   10.2   18.6   10.0   16.4   8.5   7.9   7.1   11.8	% Retained 0.0 0.7 10.9 29.5 39.5 55.9 64.4 72.3 79.4 91.3	
40	45, 33 Operating Zone	52, 34	31	oduction Gradation	75, 39		Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8 #16 #30	Cumulative % Passing 100.0 99.3 89.1 70.5 60.5 44.1 35.6 27.7 20.6	% Retained 0.0 0.7 10.2 18.6 10.0 16.4 8.5 7.9 7.1	% Retained   0.0   0.0   0.7   10.9   29.5   39.5   55.9   64.4   72.3   79.4	

Approved By: Marth. Ball

PLANT :	#:	P-39					Contractor:					
Sample Date	e:	8/21/23		C								
Dates Test Represents: 8/22/2023		through		MDOT No.:								
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution						
6AA	71-47	Presque Isle	1605	9.82	2.62	55.2						
26A	71-47	Presque Isle	200	1.22	2.62	6.9						
2NS 44-051		Krake Willis Rd		6.65	2.65	37.9			SUPERIOR			
		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%			RIALS	
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained			<b>Materials, LLC</b> 10 Mile Rd.	
2"		100.0	10	0.0	100.0	100.0	0.0	0.0		Suite 500		
1.5"		100.0	100.0		100.0	100.0	0.0	0.0	Farmington Hills, MI 48336			
1"		96.7		0.0	100.0	98.2	1.8	1.8				
3/4"		84.6		0.0	100.0	91.5	6.7	8.5				
1/2"		41.8		3.4	100.0	67.4	24.1	32.6				
3/8"		24.5	80		100.0	57.0	10.4	43.0		*Maximum % Retained must be above the 3/8" siev		
#4	4.2		14.3 2.5		99.0	40.8	16.2	59.2	*Any two adjacent sieves must equal 10% except ma			
#8		2.3			85.0	33.6	7.2	66.4	nom. max., #100 and #200 sieves.			
#16		2.0		.2	67.9	26.9	6.7	73.1		ined must be at least 4% for each sieve		
#30 #50		2.0		.0 .9	50.6 23.1	20.4 9.9	6.5 10.5	79.6 90.1	nom. max., #100 and #200 sieves.			
#30 #100		1.8		.9	5.8	3.3	6.6	96.7	*% Retained must be at least 4% for the 3/4" si			
LBW		1.5	0.8		1.0	1.3	2.0 98.7		a 1.5" max. size (nom. Max. 1.0") aggregate is used.			
roduction G	Gradation	Batch Plant Gra		regate Supplier Gra	-			on Sample (IPS	5)			
	ess Factor:	65	Workability Factor: 34			36.1	Coarseness Factor:		63			
				,			Workability Factor:		36			
45	-							Cumulative	%	Cumulative		
	45, 44				JMF Zone		Sieve	% Passing	Retained	% Retained		
1		52, 41	$ \longrightarrow $				2"	100.0	0.0	0.0		
G <sup>40</sup>			58,40		75, 39		1.5"	100.0	0.0	0.0		
<u>ව</u>			1	68, 38	ľ		1"	100.0	0.0	0.0		
5			∎ 60.36	Production Gr	adation		3/4"	89.7	10.3	10.3		
<b>5</b> 35				IPS			1/2"	70.3	19.4	29.7		
Ľ		52, 34					3/8"	59.1	11.2	40.9		
li li	45, 33						#4	42.8	16.3	57.2		
<b>ig</b> 30 -		_	50,00	68,832	<u> </u>		#8	35.5	7.3	64.5		
ž	Operating Zone	e					#16 #30	29.0 21.2	6.5 7.7	71.0 78.8		
Workability Factor (%)	Boundary				75, 28		#30 #50	9.8	11.5	78.8 90.2		
> <sub>25</sub>							#30	9.0 3.7	6.1	90.2		
40	45	50 55	60	65 , 70	75	80		-	-			
	45 Boundary =		Coarseness	<b>Factor (%)</b> <sup>70</sup>	75	80	LBW	1.2	2.5	98.8		

Approved By: Mart P. Ball

PLANT #:		<b>P-O2</b>					Contractor:				
Sample Date	-	8/21/23		(	Concrete Grade:	DM, 4500HP	-				
Dates Test R	epresents:	8/22/2023	through	8/28/2023			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	71-47	Presque Isle	1550	9.48	2.62	53.4					
26A	71-47	Presque Isle	205	1.25	2.62	7.1					
2NS 63-115		Ray Rd	1150	6.95	2.65	39.6					5 PLOP
		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%	-	MATE	RIALS
Sieve 6		6AA	26A		2NS	Cumulative % Passing	% Retained	Cumulative % Retained	<u>Superior Materials,</u> 30701 W. 10 Mile Rd.		
2"	1	00.0	100.0		100.0	100.0	0.0	0.0	Suite 500		
1.5"	1	00.0	100.0		100.0	100.0	0.0	0.0	Farmington Hills, MI 4		n Hills, MI 48336
1"	Q	98.8	100	0.0	100.0	99.4	0.6	0.6			
3/4"		32.2	100		100.0	90.5	8.9	9.5			
1/2"	2	43.0	96		100.0	69.3	21.2	30.7			
3/8"		23.6	90.3		100.0	58.6	10.8	41.4	*Maximum % Retained must be above t		above the 3/8" sieve.
#4		4.5	32.8		96.4	42.9	15.7	57.1	*Any two adjacent sieves must equal 10% ex		qual 10% except max
#8		2.2	8.8		81.8	34.2	8.7	65.8	nom. max., #100 and #200 sieves.		
#16		2.0	3.5		66.7	27.7	6.5	72.3	*% Retained must be at least 4% for each sie		for each sieve exce
#30		1.8	2.4		50.4	21.1	6.6	78.9	nom. max., #100 and #200 sieves.		
#50		1.8	2.2		25.6	11.2	9.8	88.8	*% Retained must be at least 4% for the 3/4" si		
#100 LBW		1.7	2.		5.0	3.0	8.2		a 1.5" max. siz	e (nom. Max. 1.0")	aggregate is used.
		1.4	1.	-	0.7	1.2	1.9	98.8			
Production G	ladation	Batch Plant Grad	0.00	regate SupplierGrad				on Sample (IPS		1	
Coarsene	ess Factor:	63	Work	ability Factor:	34	36.7		eness Factor:	63		
45						_)	Work	ability Factor:	35		1
1	45, 44		-		JMF Zone		Sieve	Cumulative	%	Cumulative	
]		52.41			L			% Passing	Retained	% Retained	
40		52, 4	↓				2"	100.0	0.0	0.0	
ຂ			58, 39	68, 39 68, 38	75, 39		1.5"	100.0	0.0	0.0	
, i			! _		tion		1"	100.0	0.0	0.0	
2			■ 60, 36	Production Grada	uon		3/4" 1/2"	95.1 74.6	4.9 20.5	4.9 25.4	
<b>a</b> 35			i				3/8"	74.6 59.3	20.5	25.4 40.7	
<b>-</b>	45, 33	52, 34					3/8 #4	59.3 42.1	15.3	40.7 57.9	
ii i	40,00						#4 #8	35.1	7.1	64.9	
	ļ	-	58, 31	688,331			#0 #16	29.2	5.9	70.8	
Workability Factor (%)	Operating Zone Boundary						#30	29.2	7.3	78.1	
s jL	воиниагу				75, 28		#50	9.6	12.4	90.4	
25							#100	2.4	7.2	97.6	
40	45	50 55	5 <b>6</b> 0	<b>Factor (%)</b>	75	80	LBW	0.9	1.5	99.1	
			Loarseness								

3/8" sieve. except max., sieve except max.,

/4" sieve when

Coarseness Factor (%) 75 ActionLimits Boundary = - - - - -

Approved By: