PLANT	#:	P-102	_				Contractor:			-		
Sample Date	e:	5/13/24	-	C	Concrete Grade	DM, 4500HP						
Dates Test F	Represents:	5/14/2024	through	5/20/2024			MDOT No.:			_		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution						
6AA	58-003	Stoneco	1600	9.53	2.69	54.2						
26A	58-003	Stoneco	200	1.19	2.69	6.8						
2NS	63-114	Highland	1150	6.95	2.65	39.0				SUP	ERIOR	
		Total Wt	2950	17.68		100.0	< Verify this n	umber is 100%			RIALS	
Sieve	e	AA	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"		00.0	10		100.0	100.0	0.0	0.0		Farmingto	n Hills, MI 48336	
1"		00.0	10		100.0	100.0	0.0	0.0				
3/4"	8	39.6	10	0.0	100.0	94.4	5.6	5.6				
1/2"	Ę	51.7	99	.6	100.0	73.8	20.6	26.2				
3/8"		28.4	89	-	100.0	60.5	13.3	39.5	*Maximum %	Retained must be	above the 3/8" sieve.	
#4		4.2	10	-	98.8	41.5	19.0	58.5	*Any two adja	acent sieves must e	qual 10% except max.,	
#8		1.9		8	84.5	34.2	7.3	65.8	nom. max., #100 and #200 sieves.			
#16		1.7	2		67.6	27.4	6.7	72.6		*% Retained must be at least 4% for each sieve except		
#30 #50		1.6 1.5	2		50.5 21.0	20.7 9.1	6.7 11.6	79.3 90.9	nom. max., #100 and #200 sieves. *% Retained must be at least 4% for the 3/4" sieve whe			
#30		1.5	1		21.0	1.8	7.4	90.9		e (nom. Max. 1.0")		
LBW		1.3	1		0.3	0.9	0.8	99.1	a 1.5 max. siz	e (1011. Max. 1.0 )	aggregate is used.	
Production G	Gradation	O Batch Plant Gra	adations 🔘 Agg	regate Supplier Gra	dations	Adjusted WF	Intial Production	on Sample (IPS	■ 6)			
Coarsene	ess Factor:	60	Work	ability Factor:	34	36.7	Coars	eness Factor:	61			
45			-				Work	ability Factor:	36			
	45, 44				JMF Zone		Sieve	Cumulative	%	Cumulative		
	-10, +-1				31011 20110			% Passing	Retained	% Retained		
40		52, 41 <b>-56</b>	,40	67 40			2"	100.0	0.0	0.0		
ຂ*ີ				68, 38	75, 39		1.5"	100.0	0.0	0.0		
Ľ			Drodu				1"	99.3	0.7	0.7		
8 ~ 1				ction Gradation			3/4" 1/2"	89.2 70.7	10.1 18.5	10.8 29.3		
<u>з</u> 35 -	$\rightarrow$	52, 34	!	i			3/8"	60.7	18.5	29.3 39.3		
<u>ح</u>	45, 33	52, 34					#4	44.4	16.3	55.6		
÷		56	, 32	<b>67, 32</b> 67, 32			#8	35.9	8.5	64.1		
<b>.</b>	Operating Zone	7					#16	27.3	8.6	72.7		
	Operating 2011				75, 28		#30	19.1	8.2	80.9		
	Boundary						#50	7.4	11.7	92.6		
Worka	Boundary											
25 Aorkapi	Boundary 45	 	5 60	<b>Factor (%)</b>	75	80	#100 LBW	1.9 0.7	5.6	92.0 98.1 99.3		

Approved By:

PLANT #	Ŧ: _	P-103					Contractor:			-	
Sample Date:	_	5/13/24		C	Concrete Grade	: DM, 4500HP					
Dates Test R	epresents:	5/14/2024	through	5/20/2024			MDOT No.:			_	
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	58-003	Stoneco	1600	9.53	2.69	54.2					
26A	58-003	Stoneco	200	1.19	2.69	6.8					
2NS	63-114	Highland	1150	6.95	2.65	39.0				SUP	ERIOR
		Total Wt	2950	17.68		100.0	< Verify this n	umber is 100%		MATE	RIALS
Sieve	6	AA	26	<b>A</b>	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<u>Superior I</u> 30701 W. 2	<b>Materials, LLC</b> 10 Mile Rd.
2"	1(	0.0	100	.0	100.0	100.0	0.0	0.0		Suite 500	
1.5"		0.0	100	-	100.0	100.0	0.0	0.0		Farmingto	n Hills, MI 48336
1"		0.00	100		100.0	100.0	0.0	0.0			
3/4"	-	9.6	100	-	100.0	94.4	5.6	5.6			
1/2"		1.7	99.		100.0	73.8	20.6	26.2			
3/8"		8.4	89.		100.0	60.5	13.3	39.5			above the 3/8" sieve.
#4		4.2	10.	-	98.8	41.5	19.0	58.5			qual 10% except max.,
#8 #16		1.9 1.7	2.2		84.5 67.6	34.2 27.4	7.3 6.7	65.8 72.6	-	00 and #200 sieves	
#10		1.6	2.		50.5	20.7	6.7	72.0		must be at least 4% 00 and #200 sieves	for each sieve except
#50		1.5	2.0		21.0	9.1	11.6	90.9	,		5. 5 for the 3/4" sieve whe
#100		1.5	1.		2.1	1.8	7.4	98.2		e (nom. Max. 1.0")	
LBW		1.3	1.0		0.3	0.9	0.8	99.1			aggiogato to about
		Batch Plant Gra	dations 💿 Aggi	egate Supplier Gra	adations	Adjusted WF	Intial Production		5)		
Production G	radation	Batch Plant Gra				,		on Sample (IPS	/	1	
Production G Coarsene		_		egate Supplier Gra ability Factor:		Adjusted WF 36.7	Coars	on Sample (IPS eness Factor:	61		
Production G Coarsene	radation ss Factor:	Batch Plant Gra			34	,	Coars Work	on Sample (IPS eness Factor: ability Factor:	61 36	Cumulative	
Production G Coarsene	radation	Batch Plant Gra				,	Coars	on Sample (IPS eness Factor: ability Factor: Cumulative	61 36 %	Cumulative % Retained	
Production G Coarsene	radation ss Factor:	Batch Plant Gra			34	,	Coars Work	on Sample (IPS eness Factor: ability Factor:	61 36	Cumulative % Retained 0.0	
45 40	radation ss Factor:	Batch Plant Gra		ability Factor:	34	,	Coars Work Sieve	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing	61 36 % Retained	% Retained	
A 45 40	radation ss Factor:	Batch Plant Gra	Work	ability Factor:	JMF Zone	,	Coars Work Sieve 2"	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0	61 36 % Retained 0.0	% Retained 0.0	
45 40	radation ss Factor:	Batch Plant Gra	Work	ability Factor:	JMF Zone	,	Coars Work Sieve 2" 1.5" 1" 3/4"	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0 100.0 99.3 89.2	61 36 % Retained 0.0 0.0 0.7 10.1	% Retained 0.0 0.0 0.7 10.8	
45 40	radation ss Factor:	Batch Plant Gra	Work	ability Factor:	JMF Zone	,	Coars Work Sieve 2" 1.5" 1" 3/4" 1/2"	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0 100.0 99.3 89.2 70.7	61 36 % Retained 0.0 0.0 0.7 10.1 18.5	% Retained 0.0 0.0 0.7 10.8 29.3	
45 40	radation ess Factor:	Batch Plant Gra	Work	ability Factor:	JMF Zone	,	Coars Work Sieve 2" 1.5" 1" 3/4" 1/2" 3/8"	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0 100.0 99.3 89.2 70.7 60.7	61 36 % <u>Retained</u> 0.0 0.0 0.7 10.1 18.5 10.0	% Retained 0.0 0.0 0.7 10.8 29.3 39.3	
45 40	radation ss Factor:	Batch Plant Gra	Work	ability Factor:	JMF Zone	,	Coars Work Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0 100.0 99.3 89.2 70.7 60.7 44.4	61 36 % Retained 0.0 0.0 0.7 10.1 18.5 10.0 16.3	% Retained 0.0 0.7 10.8 29.3 39.3 55.6	
A 45 40	radation ess Factor:	Batch Plant Gra	Work	ability Factor:	JMF Zone	,	Coars Work Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0 100.0 99.3 89.2 70.7 60.7 44.4 35.9	61 36 % Retained 0.0 0.0 0.7 10.1 18.5 10.0 16.3 8.5	% Retained   0.0   0.0   0.7   10.8   29.3   39.3   55.6   64.1	
45 40	Ats, 33 Operating Zone	Batch Plant Gra	Work	ability Factor:	JMF Zone	,	Coars Work Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8 #16	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0 100.0 99.3 89.2 70.7 60.7 44.4 35.9 27.3	61 36 % <u>Retained</u> 0.0 0.0 0.7 10.1 18.5 10.0 16.3 8.5 8.6	% Retained   0.0   0.0   0.7   10.8   29.3   39.3   55.6   64.1   72.7	
45 40	45, 33	Batch Plant Gra	Work	ability Factor:	JMF Zone	,	Coars Work Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8 #16 #30	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0 100.0 99.3 89.2 70.7 60.7 44.4 35.9 27.3 19.1	61 36 % <u>Retained</u> 0.0 0.0 0.7 10.1 18.5 10.0 16.3 8.5 8.6 8.2	% Retained   0.0   0.0   0.7   10.8   29.3   39.3   55.6   64.1   72.7   80.9	
ability Factor (%)	Ats, 33 Operating Zone	Batch Plant Gra	Work	ability Factor:	34 JMF Zone 75, 39	,	Coars Work Sieve 2" 1.5" 1" 3/4" 1/2" 3/8" #4 #8 #16	on Sample (IPS eness Factor: ability Factor: Cumulative % Passing 100.0 100.0 99.3 89.2 70.7 60.7 44.4 35.9 27.3	61 36 % <u>Retained</u> 0.0 0.0 0.7 10.1 18.5 10.0 16.3 8.5 8.6	% Retained   0.0   0.0   0.7   10.8   29.3   39.3   55.6   64.1   72.7	

Approved BY: Mary P. Ball

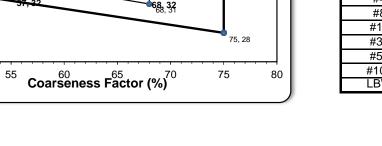
PLANT #		<b>12</b> 5/13/24					Contractor:			
Sample Date		5/14/2024	the many series		Concrete Grade					
Dates Test R		5/14/2024	through	5/20/2024	Specific	%	MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Gravity	Contribution				
6AA	71-47	Presque Isle	1450	8.87	2.62	49.9	1			
26A	71-47	Presque Isle	305	1.87	2.62	10.5	1			
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6				eu
		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%	•	SU M A 1
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<u>Superi</u> 30701 \
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0		Suite 50
1.5"		00.0	100		100.0	100.0	0.0	0.0		Farming
1"		99.3	100	0.0	100.0	99.7	0.3	0.3		
3/4"	i	80.3	100		100.0	90.2	9.5	9.8		
1/2"		42.7	95	-	100.0	70.9	19.3	29.1		
3/8"	:	24.8	83		100.0	60.7	10.1	39.3	*Maximum %	Retained must
#4		4.1	16	-	95.8	41.7	19.1	58.3	*Any two adja	icent sieves mu
#8		1.9		3.2 81.4		33.5	8.1	66.5	nom. max., #10	
#16		1.6	1.		65.9	27.1	6.4	72.9		must be at leas
#30		1.5	1.		50.0	20.7	6.4	79.3	nom. max., #10	
#50		1.4	1.		25.2	10.8	9.9	89.2		must be at leas
#100 LBW		1.4 1.1	1.		4.4 0.5	2.6 0.9	8.2 1.7	97.4 99.1	a 1.5" max. siz	e (nom. Max. 1
		_		-						
Production G		Batch Plant Gra		regate Supplier Gra			Intial Production	on Sample (IPS	,	
Coarsene	ess Factor:	59	Work	ability Factor:	34	36.0		eness Factor:	63	
45 T						— )	Work	ability Factor:	36	
- 4	45, 44	52, 41			JMF Zone		Sieve	Cumulative % Passing	% Retained	Cumulativ % Retaine
<b>4</b> 0			57, 40	68, 40			2"	100.0	0.0	0.0
%				68, 38	75, 39		1.5"	100.0	0.0	0.0
				ſ			1"	99.3	0.7	0.7
<b>5</b> 35			📕 🖣 robily	RS radation			3/4"	89.0	10.3	11.0
Ľ J		52, 34					1/2"	70.3	18.7	29.7
2	45, 33	52, 54					3/8"	59.9	10.4	40.1
			57, 22	68, 32 68, 31			#4	41.9	18.0	58.1
		_		00, 31			#8	35.9	6.0	64.1
Workability Factor (%)	Operating Zone				75, 28		#16	27.8	8.2	72.2
ă l	Boundary				15,20		#30	18.9	8.8	81.1
25							#50	6.3	12.6	93.7

PERIOR TERIALS

ior Materials, LLC W. 10 Mile Rd. 500 ngton Hills, MI 48336

st be above the 3/8" sieve. nust equal 10% except max., sieves. ast 4% for each sieve except max., sieves. ast 4% for the 3/4" sieve when

1.0") aggregate is used.



Coars	seness Factor:	63	
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"	99.3	0.7	0.7
3/4"	89.0	10.3	11.0
1/2"	70.3	18.7	29.7
3/8"	59.9	10.4	40.1
#4	41.9	18.0	58.1
#8	35.9	6.0	64.1
#16	27.8	8.2	72.2
#30	18.9	8.8	81.1
#50	6.3	12.6	93.7
#100	1.7	4.6	98.3
LBW	1.0	0.7	99.0

PREPARED BY: SM, LLC Technical Service

50

45 ActionLimits Boundary = - - - - -

25

40

Approved By: Mart P. Ball

PLANT :	#:	p11					Contractor:			-	
Sample Date	):	5/13/24		C	concrete Grade:	DM, 4500HP					
Dates Test R	Represents:	5/14/2024	through	5/20/2024			MDOT No.:			_	
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	71-47	Presque Isle	1405	8.59	2.62	48.4					
26A	71-47	Presque Isle	350	2.14	2.62	12.0					
2NS	95-013	Smelter Bay	1150	6.95	2.65	39.6				SUD	ERIOR
		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%	-	MATI	ERIALS
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		30701 W.	<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"		94.6	100		100.0	97.4	2.6	2.6	1		
3/4"		65.2	100		100.0	83.2	14.2	16.8	4		
1/2"		28.3	95	-	100.0	64.7	18.4	35.3	4		
3/8"		14.6	83		100.0	56.7	8.0	43.3			above the 3/8" sieve.
#4		3.6	16	-	96.4	41.8	14.9	58.2			equal 10% except max.,
#8		2.8	3.		85.7	35.7	6.2	64.3	nom. max., #100 and #200 sieves.		
#16		2.6	1.		70.9	29.6	6.1	70.4	*% Retained must be at least 4% for each sieve		•
#30 #50		2.5 2.4	<u> </u>		50.8 24.1	21.5 10.9	8.0 10.6	78.5 89.1		00 and #200 sieves	s. 6 for the 3/4" sieve whe
#100		2.4	1.		7.3	4.2	6.7	95.8			aggregate is used.
LBW		1.9	1.		1.4	1.6	2.6	98.4	a 1.5 max. siz	.e (110111. Max. 1.0 )	aggregate is used.
Production G	Gradation	Batch Plant Gra		egate Supplier Grad		1	Intial Production		<b>⊿</b> 6)		
Coarsene	ess Factor:	67	Work	ability Factor:	36	38.2	Coars	eness Factor:	62	1	
45						<u> </u>	Work	ability Factor:	36	1	
	45, 44				JMF Zone		0.	Cumulative	%	Cumulative	
-		52, 41			JIVIF ZONE		Sieve	% Passing	Retained	% Retained	
40		52, 4	40	67, 40	_		2"	100.0	0.0	0.0	
(%			1	68, 38	75, 39 tion Gradation		1.5"	100.0	0.0	0.0	
					uon Gradation		1"	100.0	0.0	0.0	
<b>9</b>			■ 6 <b>()3</b> 18	s			3/4"	95.0	5.0	5.0	
ас <sub>35</sub> -		52, 34	1	i			1/2"	72.3	22.8	27.7	
	45, 33	52, 34					3/8"	60.4	11.8	39.6	
Workability Factor (%)		50	,32	<b>67, 32</b> 68, 31			#4	42.6	17.8	57.4	
		_		08, 31			#8	36.0	6.6	64.0	
1 2 1	Operating Zone				75, 28		#16	29.5	6.5	70.5	
IŽ IL	Boundary				13, 20		#30 #50	20.3 9.5	9.2 10.8	79.7 90.5	
25							#50	9.5	10.8	90.5	

75

80

#100

LBW

3.4

1.3

6.1

2.1

96.6

98.7

PREPARED BY: SM, LLC Technical Service

45

ActionLimits Boundary = - - - - -

50

55

 $\mathbf{Coarseness} \ \mathbf{Factor} \ \mathbf{(\%)}^{70}$ 

40

Approved By: Mart 1. Ball

PLANT		P-35		-			Contractor:				
Sample Date		5/13/24			Concrete Grade:	DIVI, 4500AP	MOOTN				
Dates Test R		5/14/2024	through	5/20/2024	Specific	%	MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Gravity	% Contribution					
6AA	58-003	Stoneco	1600	9.53	2.69	54.2					
26A	58-003	Stoneco	200	1.19	2.69	6.8					
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%			RIALS
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained			<b>Materials, LLC</b> 10 Mile Rd.
2"	1	00.0	100	0.0	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"		00.0	100		100.0	100.0	0.0	0.0			
3/4"		89.6	100	-	100.0	94.4	5.6	5.6			
1/2" 3/8"		51.7 28.4	99 89	-	100.0 100.0	73.8 60.5	20.6 13.3	26.2 39.5	*Movimum- 0/	Detained must be	above the 2/0" eleve
3/8 #4		<u>4.2</u>	10		99.2	41.6	13.3	39.5 58.4			above the 3/8" sieve. qual 10% except max.,
#4		1.9	2.		87.3	35.3	6.4	64.7		00 and #200 sieves	•
#16		1.7	2.		66.7	27.1	8.2	72.9	*% Retained must be at least 4% for each sieve except		
#30		1.6	2.		43.1	17.8	9.3	82.2	nom. max., #100 and #200 sieves.		
#50		1.5	1.	9	15.7	7.1	10.7	92.9	*% Retained	must be at least 4%	6 for the 3/4" sieve when
#100		1.5	1.	-	2.7	2.0	5.1	98.0	a 1.5" max. siz	e (nom. Max. 1.0")	aggregate is used.
LBW		1.3	1.	6	0.6	1.0	0.9	99.0			
Production G	Gradation	O Batch Plant Gra	adations 💿 Aggr	egate Supplier Gra	idations	Adjusted WF	Intial Production	on Sample (IPS	S)	_	
Coarsene	ess Factor:	61	Work	ability Factor:	35	37.8	Coars	eness Factor:	61		
45							Work	ability Factor:	36		
45	45, 44				JMF Zone		Sieve	Cumulative	%	Cumulative	
	-5,							% Passing	Retained	% Retained	
- 40		52, 41 <b>56.</b>	40	67.40			2"	100.0	0.0	0.0	
ເຊີ `		,		68, 38	75, 39		1.5" 1"	100.0 99.3	0.0	0.0	
			Proc	uction Gradation			1" 3/4"	99.3 89.1	0.7 10.2	0.7 10.9	
Factor (%)			■ 🖗 I 🖗	<b>!</b>			3/4 1/2"	70.5	18.6	29.5	
Ľa	$\rightarrow$	52, 34	i	<b>i</b>			3/8"	60.5	10.0	39.5	
	45, 33	02,04					#4	44.1	16.4	55.9	
	1	56,	31	<b>67, 88</b> , 31			#8	35.6	8.5	64.4	
<b>ق</b>	I Operating Zone						#16	27.7	7.9	72.3	
<b>-</b> -	Boundary				75, 28		#30	20.6	7.1	79.4	
2							#50	8.7	11.8	91.3	
Workability											
<b>8</b> 25 40	45	50 55	5 60	65 Factor (%)	75	80	#100 LBW	1.6 1.1	7.1 0.6	98.4 98.9	

Approved By:

PLANT #	#:	P-38					Contractor:				
Sample Date	:	5/13/24		C	Concrete Grade	DM, 4500HP					
Dates Test R	epresents:	5/14/2024	through	5/20/2024			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	58-003	Stoneco	1600	9.53	2.69	54.2					
26A	58-003	Stoneco	200	1.19	2.69	6.8					
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%		MATE	RIALS
Sieve	(	6AA	26	<b>A</b>	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<b>Superior</b> 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		Farmingto	n Hills, MI 48336
1"		00.0	100		100.0	100.0	0.0	0.0			
3/4"		89.6	100		100.0	94.4	5.6	5.6			
1/2"		51.7	99.		100.0	73.8	20.6	26.2			
3/8"		28.4	89		100.0	60.5	13.3	39.5			above the 3/8" sieve.
#4		4.2	10.	-	99.2	41.6	18.8	58.4			qual 10% except max.,
#8 #16		1.9 1.7	2.0		87.3 66.7	35.3	6.4	64.7		00 and #200 sieves	
#16 #30		1.7 1.6	2.1		43.1	27.1 17.8	8.2 9.3	72.9 82.2			6 for each sieve except
#30 #50		1.5	1.9		43.1 15.7	7.1	9.3	92.9		00 and #200 sieves	5. 6 for the 3/4" sieve whe
#100		1.5	1.		2.7	2.0	5.1	98.0		e (nom. Max. 1.0")	
LBW		1.3	1.0	-	0.6	1.0	0.9	99.0		o (nom: max: 1.0 )	aggrogato to acoa.
Production G	radation	O Batch Plant Gra	dations 💿 Agg	egate Supplier Gra	adations	Adjusted WF	Intial Production	on Sample (IPS	<b>3</b> )		
	ess Factor:	61	Work	ability Factor:	35	37.8		eness Factor:	61		
		-	-	,				ability Factor:	36		
45								Cumulative	%	Cumulative	
- 4	45, 44				JMF Zone		Sieve	% Passing	Retained	% Retained	
1		52, 41					2"	100.0	0.0	0.0	
		56,	40		75, 39		1.5"	100.0	0.0	0.0	
			Prod	68, 38 uction Gradation			1"	99.3	0.7	0.7	
گ <sup>40</sup>				uction Gradation						40.0	
(%) <b>1</b>			-	uction Gradation			3/4"	89.1	10.2	10.9	
actor (%)			- 1100 €				1/2"	70.5	18.6	29.5	
Factor (%)		52, 34	-	uction Gradation			1/2" 3/8"	70.5 60.5	18.6 10.0	29.5 39.5	
Factor (%)	45, 33		€§§I¢€				1/2" 3/8" #4	70.5 60.5 44.1	18.6 10.0 16.4	29.5 39.5 55.9	
Factor (%)	45, 33	52, 34 56,	€§§I¢€	67, 33, 31			1/2" 3/8" #4 #8	70.5 60.5 44.1 35.6	18.6 10.0 16.4 8.5	29.5 39.5 55.9 64.4	
<b>Factor (%)</b>	Operating Zone	56,	€§§I¢€				1/2" 3/8" #4 #8 #16	70.5 60.5 44.1 35.6 27.7	18.6 10.0 16.4 8.5 7.9	29.5 39.5 55.9 64.4 72.3	
Factor (%)		56,	€§§I¢€		75, 28		1/2" 3/8" #4 #8 #16 #30	70.5 60.5 44.1 35.6 27.7 20.6	18.6 10.0 16.4 8.5 7.9 7.1	29.5 39.5 55.9 64.4 72.3 79.4	
ility Factor (%)	Operating Zone	56,	€§§I¢€		75, 28		1/2" 3/8" #4 #8 #16	70.5 60.5 44.1 35.6 27.7	18.6 10.0 16.4 8.5 7.9	29.5 39.5 55.9 64.4 72.3	

Approved By:

PLANT	••••	P-02					Contractor:			-	
Sample Date	•	5/13/24			Concrete Grade	DM, 4500HP					
Dates Test F	(epresents:	5/14/2024	through	5/20/2024	Orresifie	0/	MDOT No.:			-	
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution					
6AA	71-47	Presque Isle	1450	8.87	2.62	49.9					
26A	71-47	Presque Isle	305	1.87	2.62	10.5					
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6				CLID	<b>ERIOR</b>
		Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%	-		ERIOR
Sieve	(	6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		<b>Superior</b> 30701 W. 1	<b>Materials, LLC</b> 10 Mile Rd.
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0		Suite 500	
1.5"		00.0	10		100.0	100.0	0.0	0.0		Farmingto	n Hills, MI 48336
1"		99.3	10		100.0	99.7	0.3	0.3	l		
3/4"		80.3	100		100.0	90.2	9.5	9.8			
1/2"		42.7	95		100.0	70.9	19.3	29.1			
3/8" #4		24.8	83	-	100.0 95.8	60.7	<u> </u>	39.3			above the 3/8" sieve.
#4 #8		4.1 1.9	16		95.8 81.4	41.7 33.5	8.1	58.3 66.5			qual 10% except max.,
#0 #16		1.6	3.		65.9	27.1	6.4	72.9		00 and #200 sieves	
#10		1.5	1.		50.0	20.7	6.4	79.3	*% Retained must be at least 4% for each sieve excep nom. max., #100 and #200 sieves.		
#50		1.4	1.		25.2	10.8	9.9	89.2	*% Retained must be at least 4% for the 3/4" sieve who		
#100		1.4	1.		4.4	2.6	8.2	97.4		e (nom. Max. 1.0")	
LBW		1.1	1.	.3	0.5	0.9	1.7	99.1		. ,	
Production G	Gradation	O Batch Plant Grad	dations 💿 Agg	regate SupplierGrad	lations	Adjusted WF	Intial Production	on Sample (IPS	- S)		
	ess Factor:	59	Worl	ability Factor:	34	36.0		eness Factor:	63	1	
				,				ability Factor:	35		
45								Cumulative	%	Cumulative	
- '	45, 44				JMF Zone		Sieve	% Passing	Retained	% Retained	
1		52, 41					2"	100.0	0.0	0.0	
्र <sup>40</sup>			58, 39	68, 39	75, 39		1.5"	100.0	0.0	0.0	
<u>ی</u>			i	68, 38	I		1"	100.0	0.0	0.0	
5 ]			📕 📕 🎽 🖬	n Gradation			3/4"	95.1	4.9	4.9	
		l		on Gradation IPS			1/2"	74.6	20.5	25.4	
<b>5</b> 35 -	$\rightarrow$	52, 34	— <u>i</u>	!			3/8"	59.3	15.3	40.7	
/ Fact				_ !			#4	42.1	17.2	57.9	
lity Fact	45, 33						#8	35.1	7.1	64.9	
ability Fact	45, 33	_	58, 31	6 <b>8</b> 8,331				00.0	<b>5 0</b>	70.0	
rkability Fact	Operating Zone	7	58, 31	6 <b>8</b> 8,331			#16	29.2	5.9	70.8	
Vorkabillity Fact		]	58, 31	6689.331	75, 28		#16 #30	21.9	7.3	78.1	
Workability Fa	Operating Zone	]	58, 31	688,331	75, 28		#16 #30 #50	21.9 9.6	7.3 12.4	78.1 90.4	
Morkability Fact	Operating Zone	50 55		668,331 668,331 5 Factor (%)	75, 28	80	#16 #30	21.9	7.3	78.1	

Approved By: Mary 1. Ball