

Aggregate Optimization Chart

Production Gradation Report

PLANT #: P-101

Sample Date: 9/30/24

Dates Test Represents: 10/1/2024 through 10/7/2024

Concrete Grade: P1M, 3500HP

Contractor: _____

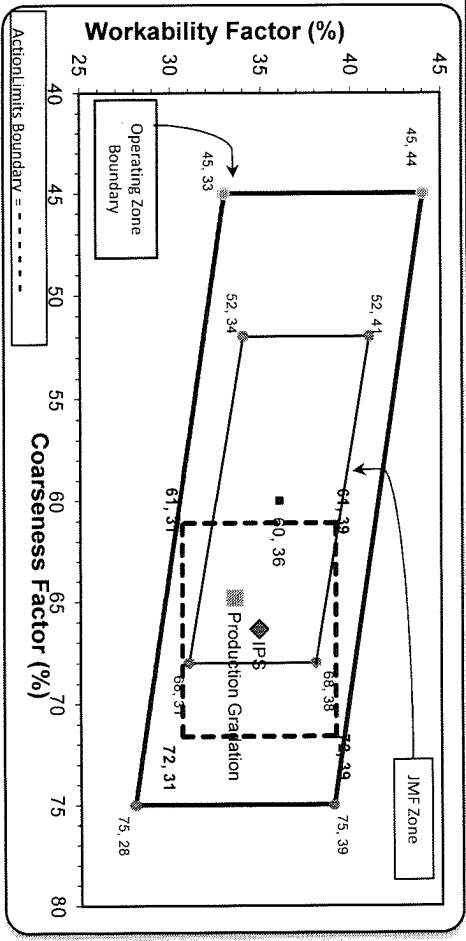
MDOT No.: _____

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	1070	6.54	2.62	34.9
2NS	75-051	Mid Michigan	1200	7.23	2.66	39.1
Total Wt:			3070	18.67		100.0

Verify this number is 100%

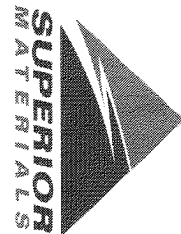
Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	99.5	100.0	100.0	99.9	0.1	0.1
1"	35.0	100.0	100.0	83.1	16.8	16.9
3/4"	10.6	96.9	100.0	75.6	7.4	24.4
1/2"	3.4	75.4	100.0	66.3	9.4	33.7
3/8"	3.0	48.9	100.0	56.9	9.3	43.1
#4	2.8	9.6	95.4	41.4	15.5	58.6
#8	2.7	4.9	79.6	33.5	7.8	66.5
#16	2.5	4.2	64.9	27.5	6.0	72.5
#30	2.4	3.9	50.3	21.6	5.8	78.4
#50	2.3	3.4	25.7	11.8	9.8	88.2
#100	2.1	2.5	6.5	4.0	7.9	96.0
LBW	1.8	1.9	0.7	1.4	2.6	98.6

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations
Coarseness Factor: 65 **Workability Factor:** 34



Sieve	Initial Production Sample (IPPS)	Coarseness Factor:	Workability Factor:
2"	100.0	66	35
1.5"	99.6		
1"	84.3		
3/4"	74.8		
1/2"	64.3		
3/8"	56.8		
#4	43.0		
#8	34.9		
#16	26.4		
#30	19.9		
#50	10.4		
#100	3.4		
LBW	1.2		

*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max.
 nom. max. #100 and #200 sieves.
 *% 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.



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PREPARED BY:
 SM, LLC Technical Service

Approved By: _____



Daily Summary Report

Date Thursday, October 3, 2024

Sample Id	Plant	Product	Specification	Sample Type	Time
-1097071187	S101 Superior Mount Clemens 7919	COARSE AGG P1M LS	Coarse Agg P1M LS Target	QA	14:16
-674989917	S101 Superior Mount Clemens 7920	INTERMED AGG P1M LS	Intermed Agg P1M LS Target	QA	14:18
-674954870	S101 Superior Mount Clemens 1022	2NS GR	2NS GR Spec	QA	14:21
2" (50mm)					100.0
1 1/2" (37.5mm)					99.5
1" (25mm)					35.0
3/4" (19mm)					10.6
1/2" (12.5mm)					3.4
3/8" (9.5mm)					3.0
#4 (4.75mm)					2.8
#8 (2.36mm)					2.7
#16 (1.18mm)					2.5
#30 (.6mm)					2.4
#50 (.3mm)					2.3
#100 (.15mm)					2.1
#200 (75µm)					1.9
Pan					0.0
FM					0.0
Wash Loss (#200/75µm)					1.8
Total Moisture					1.05
					100.0
					100.0
					100.0
					96.9
					75.4
					48.9
					9.6
					4.9
					4.2
					3.9
					3.4
					2.5
					2.0
					0.0
					2.78
					0.7
					3.59