

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-103**

Contractor: _____

Sample Date: 10/13/25

Concrete Grade: **P1M, 3500HP, 4000HP**

Dates Test Represents: 10/14/2025 through 10/20/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	Stoneco	1350	8.04	2.69	43.3
IA	58-003	Stoneco	570	3.40	2.69	18.3
2NS	63-114	Highland	1200	7.26	2.65	38.5
Total Wt			3120	18.70		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"	100.0	100.0	100.0	100.0	0.0	0.0
1"	47.9	100.0	100.0	77.5	22.5	22.5
3/4"	26.4	100.0	100.0	68.2	9.3	31.8
1/2"	8.4	81.5	100.0	57.0	11.2	43.0
3/8"	1.8	61.7	100.0	50.5	6.5	49.5
#4	1.7	10.8	98.9	40.7	9.8	59.3
#8	1.6	4.7	83.6	33.7	7.0	66.3
#16	1.5	3.4	67.4	27.2	6.5	72.8
#30	1.5	3.2	48.9	20.0	7.2	80.0
#50	1.5	2.5	23.4	10.1	9.9	89.9
#100	1.4	2.0	4.6	2.7	7.4	97.3
LBW	1.3	1.8	0.9	1.2	1.5	98.8

*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.

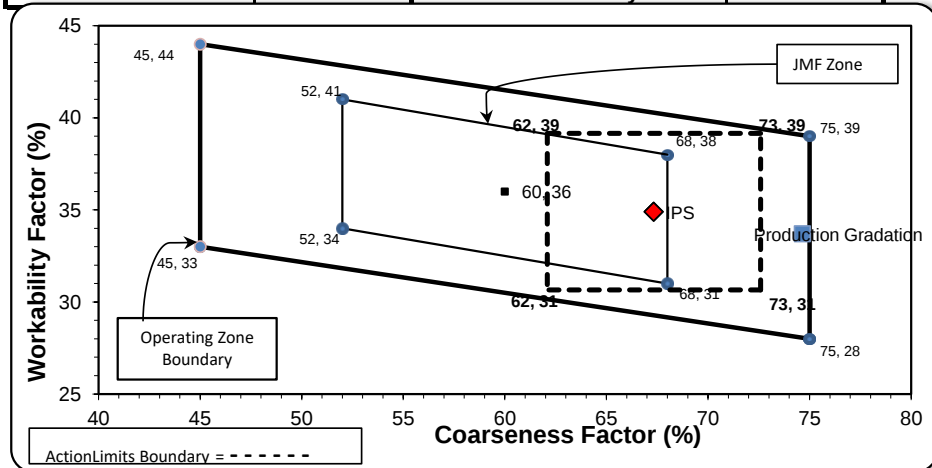


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Production Gradation ☒ Batch Plant Gradations ☐ Aggregate Supplier Gradations

Coarseness Factor:	75	Workability Factor:	34
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Initial Production Sample (IPS)

Coarseness Factor:		67	
Workability Factor:		35	
Sieve	Cumulative % Passing	% Retained	Cumulative % 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:



Daily Summary Report

Date Wednesday, October 15, 2025

Sample Id	-674903565	-1989629243	-674909673	-674947860	-674936465
Plant	S103 Superior Brighton	S103 Superior Brighton	S103 Superior Brighton	S103 Superior Brighton	S103 Superior Brighton
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS	7920 INTERMED AGG P1M LS	7919 COARSE AGG P1M LS
Specification	2NS GR Spec	6AA LS	26A Mod LS Spec	Intermed Agg P1M LS Target	Coarse Agg P1M LS Target
Sample Type	QA	QA	QA	QA	QA
2" (50mm)		100.0	100.0	100.0	100.0
1 1/2" (37.5mm)		100.0	100.0	100.0	100.0
1" (25mm)		100.0	100.0	100.0	47.9
3/4" (19mm)		82.8	100.0	100.0	26.4
1/2" (12.5mm)		45.6	98.0	81.5	8.4
3/8" (9.5mm)	100.0	26.1	81.8	61.7	1.8
#4 (4.75mm)	98.9	2.0	15.6	10.8	1.7
#8 (2.36mm)	83.6	1.2	3.2	4.7	1.6
#16 (1.18mm)	67.4	1.0	2.2	3.4	1.5
#30 (.6mm)	48.9	0.9	1.9	3.2	1.5
#50 (.3mm)	23.4	0.9	1.8	2.5	1.5
#100 (.15mm)	4.6	0.8	1.7	2.0	1.4
#200 (75µm)	1.1	0.82	1.7	1.9	1.3
Pan	0.0	0.00	0.0	0.0	0.0
FM	2.73				
Wash Loss (#200/75um)	0.9	0.8	1.7	1.8	1.3
Total Moisture	2.88	3.07	2.79	1.31	0.49