

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-102**

Sample Date: **8/19/24**

Dates Test Represents: **8/20/2024** through **8/26/2024**

Concrete Grade: **DM, 4500HP**

Contractor: _____

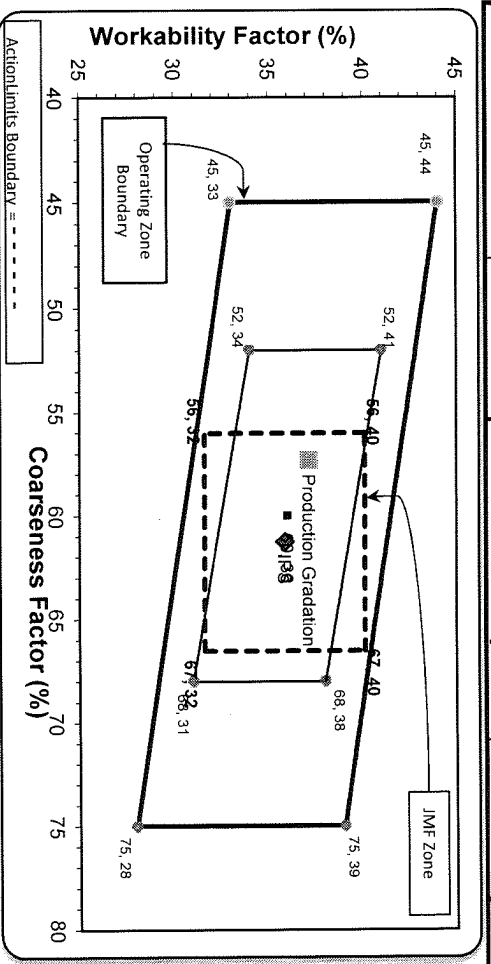
MDOT No.: _____

Agg. Class	Pit #	Source	Weight (ssd)	ft ³	Specific Gravity	Contribution %
6AA	58-003	Stonoco	1475	8.79	2.69	50.0
26A	58-003	Stonoco	325	1.94	2.69	11.0
2NS	63-114	Highland	1150	6.95	2.65	39.0
Total Wt			2950	17.68		100.0

Sieve	6AA	26A	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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	92.1	100.0	100.0	96.1	4.0	4.0
1/2"	54.2	99.8	100.0	77.1	19.0	22.9
3/8"	27.4	89.5	100.0	62.5	14.5	37.5
#4	5.6	13.0	99.0	42.8	19.7	57.2
#8	2.1	4.3	85.0	34.7	8.2	65.3
#16	1.7	3.0	68.2	27.8	6.9	72.2
#30	1.6	2.5	49.1	20.2	7.6	79.8
#50	1.6	2.4	19.3	8.6	11.6	91.4
#100	1.5	2.3	3.5	2.4	6.2	97.6
LBW	1.4	2.2	0.7	1.2	1.2	98.8

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

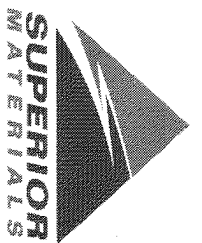
Coarseness Factor: **57** Workability Factor: **35** Adjusted WF: **37.2**



Sieve	Cumulative % Passing	% Retained	Cumulative % 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

Initial Production Sample (IPS)

Coarseness Factor: **61** Workability Factor: **36**

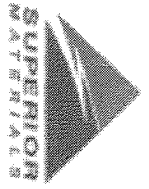


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*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max.
norm. max. #100 and #200 sieves.
*Retained must be at least 4% for each sieve except max.
norm. max. #100 and #200 sieves.
*Retained must be at least 4% for the 3/4" sieve when
a 1.5" max. size (nom. Max. 1.0") aggregate is used.

PREPARED BY:
SM, LLC Technical Service

Approved By: _____



Daily Summary Report

Date Monday, August 19, 2024

Sample Id	-674936062	-674896243	-904912856	-674972495	-674930146
Plant	S102 Superior Novi	S102 Superior Novi	S102 Superior Novi	S102 Superior Novi	S102 Superior Novi
Product	7920 INTERMED AGG P1M LS	7919 COARSE AGG P1M LS	1051 6AA LS	1067 26A Mod LS	1022 2NS GR
Specification	Intermed Agg P1M LS Target	Coarse Agg P1M LS Target	6AA LS	26A Mod LS Spec	2NS GR Spec
Sample Type	QA	QA	QA	QA	QA
Time	08:17	08:21	13:54	14:08	14:12
2" (50mm)	100.0	100.0	100.0	100.0	100.0
1 1/2" (37.5mm)	100.0	100.0	100.0	100.0	99.0
1" (25mm)	100.0	66.2	100.0	100.0	85.0
3/4" (19mm)	100.0	29.8	92.1	100.0	99.0
1/2" (12.5mm)	94.4	13.0	54.2	99.8	100.0
3/8" (9.5mm)	78.4	7.4	27.4	89.5	99.0
#4 (4.75mm)	20.7	2.5	5.6	13.0	85.0
#8 (2.36mm)	5.3	2.0	2.1	4.3	68.2
#16 (1.18mm)	2.6	1.9	1.7	3.0	49.1
#30 (.6mm)	2.0	1.8	1.6	2.5	19.3
#50 (.3mm)	1.8	1.6	1.6	2.4	3.5
#100 (.15mm)	1.7	1.5	1.5	2.3	0.8
#200 (75µm)	1.7	1.3	1.44	2.3	0.0
Pan	0.0	0.0	0.00	0.0	2.76
FM					0.7
Wash Loss (#200/75µm)	1.6	1.2	1.4	2.2	4.37
Total Moisture	2.40	1.69	3.42	3.95	