Aggregate Optimization Chart

PLANT #: P-103

Contractor:

MDOT No.:

Concrete Grade: P1M, 3500HP, 4000HP Sample Date: 5/26/25

Dates Test Represents:		5/27/2025	through	6/2/2025		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	Stoneco	1520	9.06	2.69	48.7
IA	58-003	Stoneco	400	2.38	2.69	12.8
2NS	63-114	Highland	1200	7.26	2.65	38.5
T - 4 - 1 34/4			400	1		4000



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	Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	L	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	100.0	10	0.0	100.0	100.0	0.0	0.0
1"	69.8	10	0.0	100.0	85.3	14.7	14.7
3/4"	44.0	10	0.0	100.0	72.7	12.6	27.3
1/2"	19.1	92	2.4	100.0	59.6	13.1	40.4
3/8"	12.5	78	3.2	100.0	54.6	5.0	45.4
#4	5.8	18	3.4	99.2	43.3	11.2	56.7
#8	3.1	4	.1	86.1	35.2	8.2	64.8
#16	2.5	1	.0	67.8	27.4	7.7	72.6
#30	2.2	0	.8	48.7	19.9	7.5	80.1
#50	2.1	0	.6	21.4	9.3	10.6	90.7
#100	1.9	0	6	3.3	2.3	7.1	97.7
LBW	1.7	0	.6	0.7	1.2	1.1	98.8

*Maximum % Retained must be above the 3/8" sieve.

*Any two adjacent sieves must equal 10% except max.,

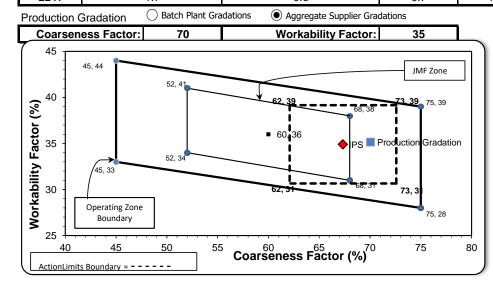
nom. max., #100 and #200 sieves.

*% 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.



Intial Production Sample (IPS)

Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
	% Passing	Retained	% 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: