Aggregate Optimization Chart

MIX ID'S: DDD0K7E7 and DDD0K7E9

Production Gradation Report

PLANT #: **P-38**

Contractor: _____

Sample Date: 1/2/17

Concrete Grade: **DM**

Dates Test Represents: 1/2/2017 to 1/9/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1350	8.04	2.69	45.2
26A	58-003	Stoneco	420	2.50	2.69	14.0
2NS	81-93	Burmeister	1220	7.41	2.64	40.8
		Total Wt	**2990**	**17.95**		100.0

<----- Verify this number is 100%

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"	86.8	100.0	100.0	94.0	6.0	6.0
1/2"	41.2	99.6	100.0	73.4	20.6	26.6
3/8"	17.6	88.4	100.0	61.2	12.2	38.8
#4	1.8	14.7	99.2	43.4	17.8	56.6
#8	0.9	4.4	87.6	36.8	6.6	63.2
#16	0.8	2.2	72.1	30.1	6.7	69.9
#30	0.6	1.7	53.0	22.1	8.0	77.9
#50	0.6	1.5	21.9	9.4	12.7	90.6
#100	0.6	1.4	4.5	2.3	7.1	97.7
LBW	0.4	1.2	1.7	1.0	1.3	99.0

*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 13% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 5% 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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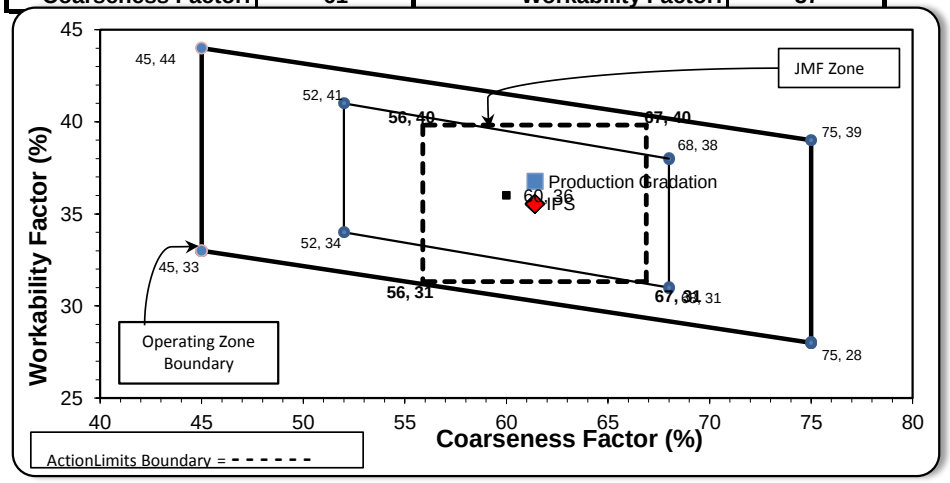
Production Gradation ○ Batch Plant Gradations ◉ Aggregate Supplier Gradations

Coarseness Factor:	61	Workability Factor:	37



Intial Production Sample (IPS)

Coarseness Factor:	61	
Workability Factor:	36	

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"	89.1	10.2	10.9
1/2"	70.5	18.6	29.5
3/8"	60.5	10.0	39.5
#4	44.1	16.4	55.9
#8	35.6	8.5	64.4
#16	27.7	7.9	72.3
#30	20.6	7.1	79.4
#50	8.7	11.8	91.3
#100	1.6	7.1	98.4
LBW	1.1	0.6	98.9

PREPARED BY:
SM, LLC Technical Service

Approved By: