

# Aggregate Optimization Chart

MIX ID'S: DDD0K7E7, DDD0K7E8 and DDD0K7E9

Production Gradation Report

**PLANT #:** **P-102**

Sample Date: 4/30/18

Concrete Grade: **DM**

Contractor: \_\_\_\_\_

Dates Test Represents: 5/1/2018 to 5/7/2018

MDOT No.: \_\_\_\_\_

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1450	8.64	2.69	48.4
26A	58-003	Stoneco	345	2.06	2.69	11.5
2NS	38-046	Chelsea	1200	7.26	2.65	40.1
<b>Total Wt</b>			<b>2995</b>	<b>17.95</b>		<b>100.0</b>

<----- 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"	99.6	100.0	100.0	99.8	0.2	0.2
3/4"	83.8	100.0	100.0	92.2	7.6	7.8
1/2"	45.4	99.5	100.0	73.5	18.6	26.5
3/8"	25.8	88.6	100.0	62.8	10.7	37.2
#4	4.1	29.2	100.0	45.4	17.3	54.6
#8	1.5	6.4	86.0	35.9	9.5	64.1
#16	1.2	2.6	64.0	26.5	9.4	73.5
#30	1.0	1.8	43.0	17.9	8.6	82.1
#50	0.9	1.6	20.0	8.6	9.3	91.4
#100	0.8	1.5	3.0	1.8	6.9	98.2
LBW	0.6	1.4	0.5	0.7	1.1	99.3

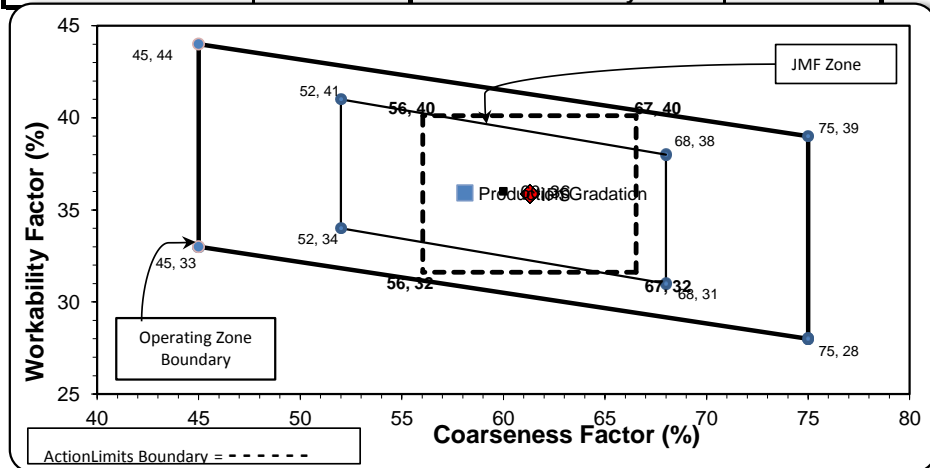


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\*Maximum % Retained must be above the 3/8" sieve.  
 \*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.

Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

<b>Coarseness Factor:</b>	<b>58</b>	<b>Workability Factor:</b>	<b>36</b>
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Initial Production Sample (IPS)

<b>Coarseness Factor:</b>	<b>61</b>		
<b>Workability Factor:</b>	<b>36</b>		
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

PREPARED BY:

Approved By: