

# Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

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

Sample Date: 2/26/18

Concrete Grade: **S2M**

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

Dates Test Represents: 2/26/2018 to 3/4/2018

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

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1700	10.13	2.69	53.8
26A	58-003	Stoneco	250	1.49	2.69	7.9
2NS	63-114	AA Highland	1210	7.32	2.65	38.3
<b>Total Wt</b>			<b>3160</b>	<b>18.93</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"	99.5	100.0	100.0	99.7	0.3	0.3
3/4"	83.9	100.0	100.0	91.3	8.4	8.7
1/2"	44.8	99.6	100.0	70.3	21.1	29.7
3/8"	26.7	89.0	100.0	59.7	10.6	40.3
#4	6.3	25.5	99.8	43.6	16.1	56.4
#8	2.3	7.2	86.8	35.0	8.6	65.0
#16	1.6	3.1	66.1	26.4	8.6	73.6
#30	1.4	2.2	43.9	17.7	8.7	82.3
#50	1.3	1.9	13.7	6.1	11.6	93.9
#100	1.2	1.8	2.1	1.6	4.5	98.4
LBW	1.0	1.6	0.3	0.8	0.8	99.2

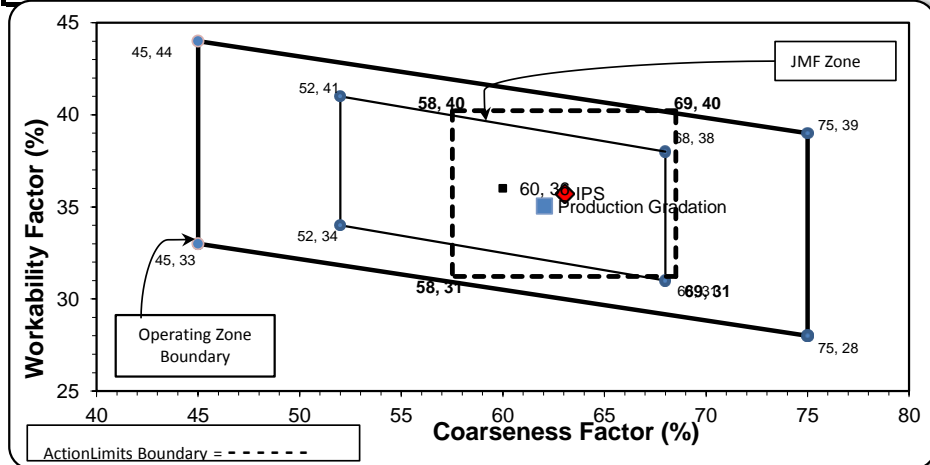
\*Maximum % Retained must be above the 3/8" sieve.  
 \*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 8% for the 1" sieve when a 2"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



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Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

**Coarseness Factor:** **62**      **Workability Factor:** **35**



Initial Production Sample (IPS)

**Coarseness Factor:** **63**  
**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"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

PREPARED BY:

Approved By: