

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-38**

Sample Date: 11/28/16

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 11/28/2016 to 12/4/2016

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1525	9.09	2.69	48.3
26A	58-003	Stoneco	310	1.85	2.69	9.8
2NS	81-93	Burmeister	1320	8.01	2.64	41.8
Total Wt			3155	18.94		100.0

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



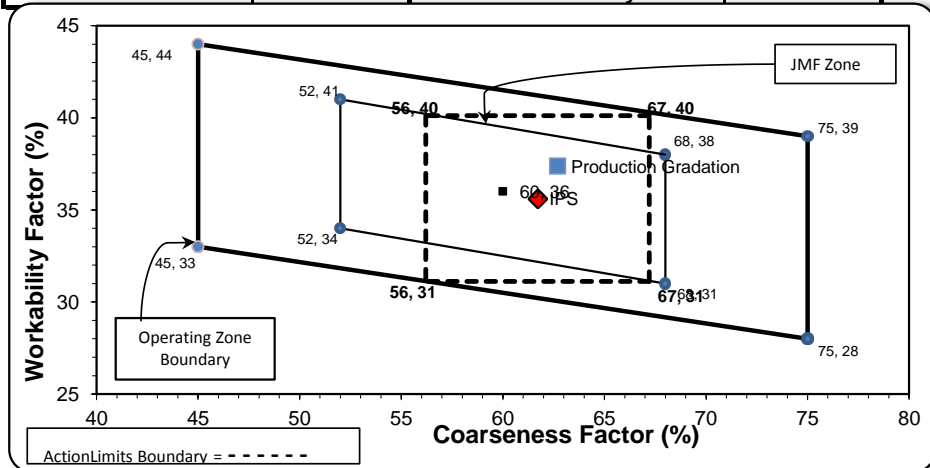
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Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	99.7	100.0	100.0	99.9	0.1	0.1
3/4"	85.1	100.0	100.0	92.8	7.1	7.2
1/2"	49.8	99.2	100.0	75.7	17.1	24.3
3/8"	21.7	85.6	100.0	60.7	14.9	39.3
#4	2.8	14.1	99.1	44.2	16.5	55.8
#8	1.2	2.8	87.3	37.4	6.8	62.6
#16	0.6	1.2	72.6	30.8	6.6	69.2
#30	0.5	0.9	53.5	22.7	8.1	77.3
#50	0.5	0.8	21.8	9.4	13.3	90.6
#100	0.5	0.8	4.5	2.2	7.2	97.8
LBW	0.7	0.5	2.0	1.2	1.0	98.8

*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.

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: **63** Workability Factor: **37**



Initial Production Sample (IPS)

Coarseness Factor: **62**
 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"	91.1	8.1	8.9
1/2"	72.0	19.1	28.0
3/8"	60.3	11.7	39.7
#4	43.4	16.9	56.6
#8	35.6	7.8	64.4
#16	28.4	7.2	71.6
#30	21.8	6.7	78.2
#50	9.1	12.6	90.9
#100	1.7	7.4	98.3
LBW	1.1	0.6	98.9

PREPARED BY:
 SM, LLC Technical Service

Approved By: