

Aggregate Optimization Chart

MIX ID'S: DDS257E7 and DDS257E8

Production Gradation Report

PLANT #: **P-32**

Sample Date: 11/13/17

Concrete Grade: **S2M**

Contractor: _____

Dates Test Represents: 11/13/2017 to 11/19/2017

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1330	8.14	2.62	42.8
26A	71-47	Presque Isle	505	3.09	2.62	16.2
2NS	95-13	Smelter Bay	1275	7.71	2.65	41.0
Total Wt			3110	18.93		100.0

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



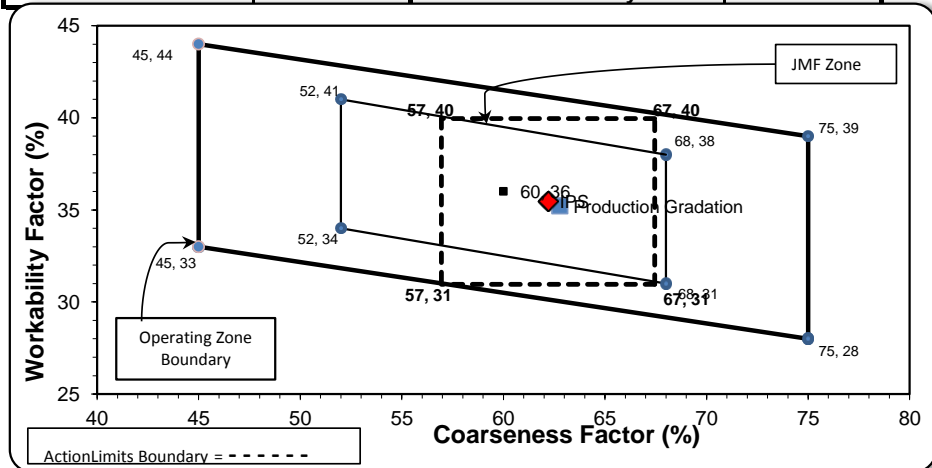
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Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	83.0	100.0	100.0	92.7	7.3	7.3
1/2"	27.3	97.5	100.0	68.5	24.2	31.5
3/8"	9.1	88.9	100.0	59.3	9.2	40.7
#4	1.1	22.8	96.6	43.8	15.5	56.2
#8	0.9	5.7	82.7	35.2	8.6	64.8
#16	0.9	2.6	66.5	28.1	7.1	71.9
#30	0.8	2.1	46.3	19.7	8.4	80.3
#50	0.8	1.9	20.5	9.1	10.6	90.9
#100	0.8	1.8	6.6	3.3	5.7	96.7
LBW	0.7	1.6	1.6	1.2	2.1	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.

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor:	63	Workability Factor:	35
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Initial Production Sample (IPS)

Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PREPARED BY:
 SM, LLC Technical Service

Approved By: