

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **p11**

Sample Date: **3/10/25**

Concrete Grade: **S2M, 3500HP**

Contractor: _____

Dates Test Represents: **3/11/2025** through **3/17/2025**

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1400	8.56	2.62	45.9
26A	71-47	Presque Isle	420	2.57	2.62	13.8
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3
Total Wt			3050	18.57		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"	96.6	100.0	100.0	98.4	1.6	1.6
3/4"	76.0	100.0	100.0	89.0	9.5	11.0
1/2"	23.4	93.1	100.0	63.9	25.1	36.1
3/8"	10.1	79.8	100.0	56.0	7.9	44.0
#4	1.3	12.5	99.0	42.2	13.7	57.8
#8	1.1	3.4	80.4	33.4	8.8	66.6
#16	1.1	2.4	64.7	26.9	6.5	73.1
#30	1.1	2.1	49.1	20.6	6.3	79.4
#50	1.1	2.0	25.4	11.0	9.6	89.0
#100	1.0	1.9	5.3	2.9	8.2	97.1
LBW	0.9	1.6	1.0	1.0	1.8	99.0

*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 4% for the 3/4" sieve when

a 1.5" max. size (nom. Max. 1.0") aggregate is used.



Superior Materials, LLC

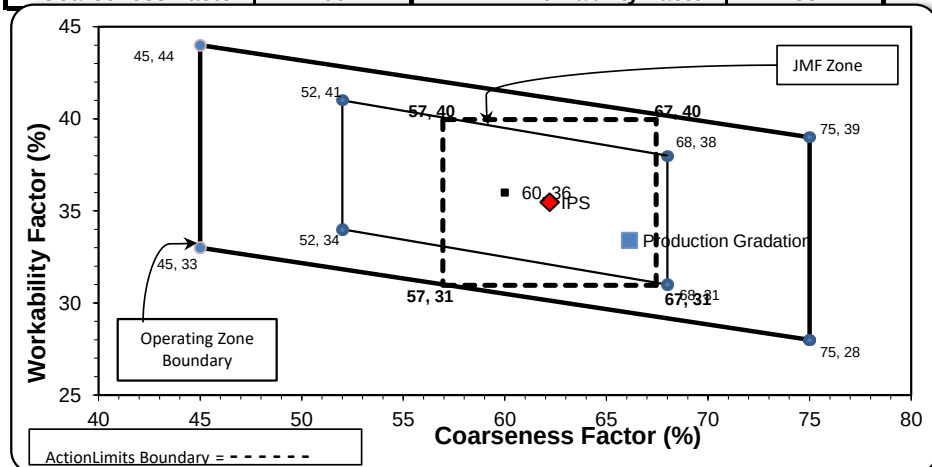
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Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Coarseness Factor:	66	Workability Factor:	33
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Initial Production Sample (IPS)

Coarseness Factor:		62	
Workability Factor:		35	
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: