

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **p11**

Sample Date: 7/7/25

Dates Test Represents: 7/8/2025 through 7/14/2025

Concrete Grade: **S2M, 3500HP**

Contractor: _____

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1520	9.30	2.62	49.8
26A	71-47	Presque Isle	300	1.83	2.62	9.8
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"	99.5	100.0	100.0	99.8	0.2	0.2
3/4"	80.4	100.0	100.0	90.2	9.5	9.8
1/2"	28.6	96.5	100.0	64.1	26.2	35.9
3/8"	19.8	82.5	100.0	58.3	5.8	41.7
#4	3.5	22.1	97.1	43.1	15.2	56.9
#8	2.0	8.7	81.1	34.6	8.5	65.4
#16	1.8	4.6	63.0	26.8	7.8	73.2
#30	1.7	3.6	46.0	19.8	7.0	80.2
#50	1.6	3.3	23.9	10.8	9.0	89.2
#100	1.6	3.1	5.5	3.3	7.4	96.7
LBW	1.4	2.6	0.7	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 4% for the 3/4" sieve when

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



Superior Materials, LLC

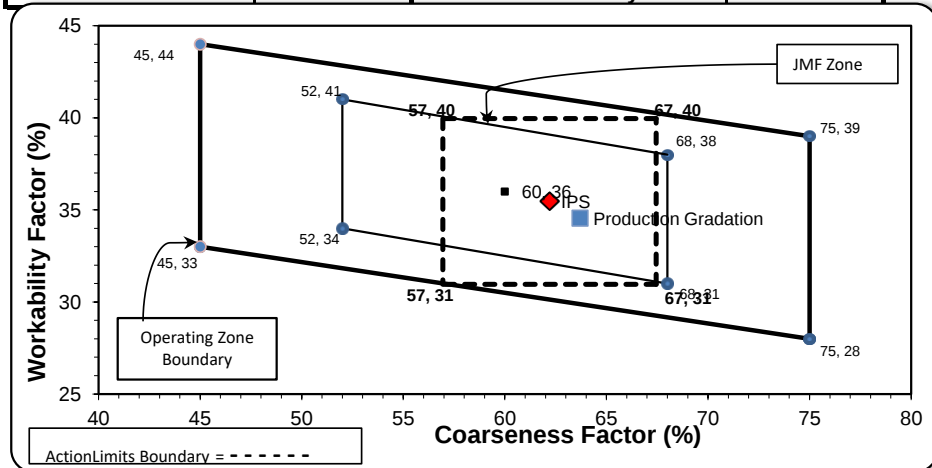
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Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Coarseness Factor:	64	Workability Factor:	35
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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:

[Signature]