

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-11**

Sample Date: 8/19/26

Concrete Grade: **P1-3500HP**

Contractor: _____

Dates Test Represents: 8/20/2026 through 8/26/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	920	5.74	2.57	30.0
IA	71-47	Presque Isle	950	5.92	2.57	30.9
2NS	63-115	Ray Rd	1200	7.20	2.67	39.1
Total Wt			3070	18.86		100.0

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

Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	97.6	100.0	100.0	99.3	0.7	0.7
1"	38.2	100.0	100.0	81.5	17.8	18.5
3/4"	11.0	100.0	100.0	73.3	8.2	26.7
1/2"	4.0	78.7	100.0	64.6	8.7	35.4
3/8"	3.4	54.0	100.0	56.8	7.8	43.2
#4	2.6	13.6	95.4	42.3	14.5	57.7
#8	2.3	4.9	82.3	34.4	7.9	65.6
#16	2.2	3.1	63.3	26.4	8.0	73.6
#30	2.0	2.8	48.0	20.2	6.1	79.8
#50	1.9	2.7	25.8	11.5	8.7	88.5
#100	1.7	2.5	6.9	4.0	7.5	96.0
LBW	1.4	2.2	1.0	1.5	2.5	98.5



Superior Materials, LLC

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*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.

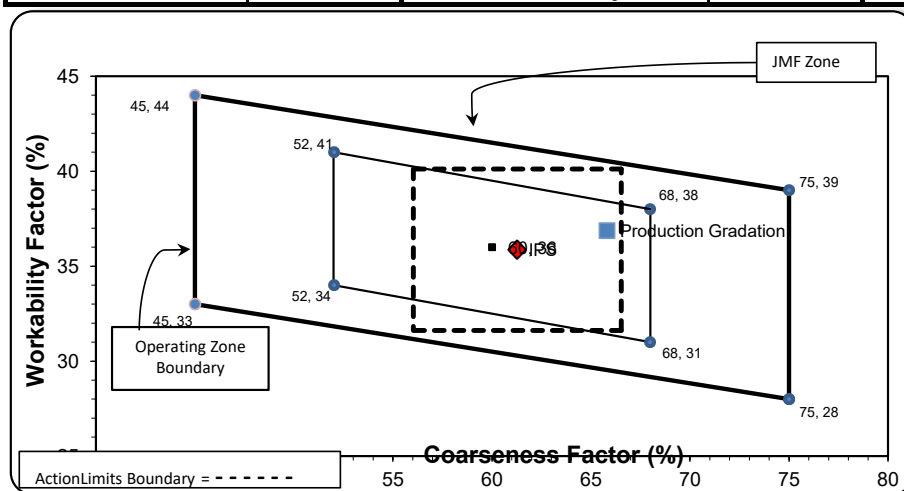
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	66	Workability Factor:	34	36.9
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Coarseness Factor:	61
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Workability Factor:	36
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Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:
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