

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-11**

Sample Date: 7/16/26

Concrete Grade: **P1M-3500HP**

Contractor: _____

Dates Test Represents: 7/17/2026 through 7/24/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
Coarse	71-47	Presque Isle	965	6.16	2.51	31.4
Intermediate	71-47	Presque Isle	930	5.94	2.51	30.2
2NS	63-115	Ray Rd	1180	7.08	2.67	38.4
Total Wt			3075	19.18		100.0

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



Superior Materials, LLC

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Suite 500

Farmington Hills, MI 48336

Sieve	Coarse	Intermediate	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	97.0	100.0	100.0	99.1	0.9	0.9
1"	43.2	100.0	100.0	82.2	16.9	17.8
3/4"	12.5	100.0	100.0	72.5	9.6	27.5
1/2"	3.7	84.6	100.0	65.1	7.4	34.9
3/8"	2.7	57.2	100.0	56.5	8.6	43.5
#4	1.7	7.5	96.4	39.8	16.7	60.2
#8	1.5	2.3	83.5	33.2	6.6	66.8
#16	1.5	1.6	64.0	25.5	7.7	74.5
#30	1.4	1.3	47.7	19.1	6.4	80.9
#50	1.3	1.2	24.9	10.3	8.8	89.7
#100	1.2	1.1	6.5	3.2	7.1	96.8
LBW	0.8	1.0	0.9	0.9	2.3	99.1

*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.

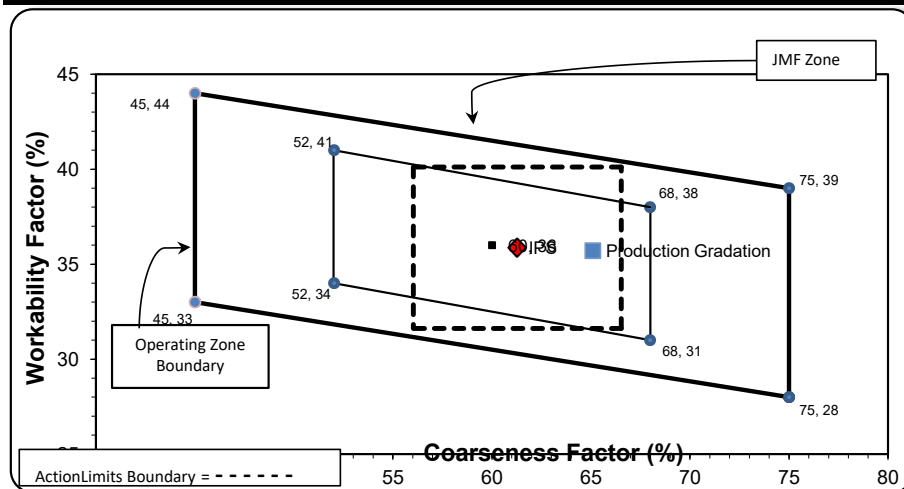
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	65	Workability Factor:	33	35.7
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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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