

Aggregate Optimization Chart

PLANT #: P-02

Sample Date: 12/11/25

Concrete Grade: S2M, 3500HP

Dates Test Represents: 12/12/2025 through 12/19/2025

Contractor: _____

MDOT No.: _____



Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1280	7.83	2.62	41.6
26A	71-47	Presque Isle	600	3.67	2.62	19.5
2NS	63-115	Ray Rd	1200	7.26	2.65	39.0
Total Wt			3080	18.76		100.0

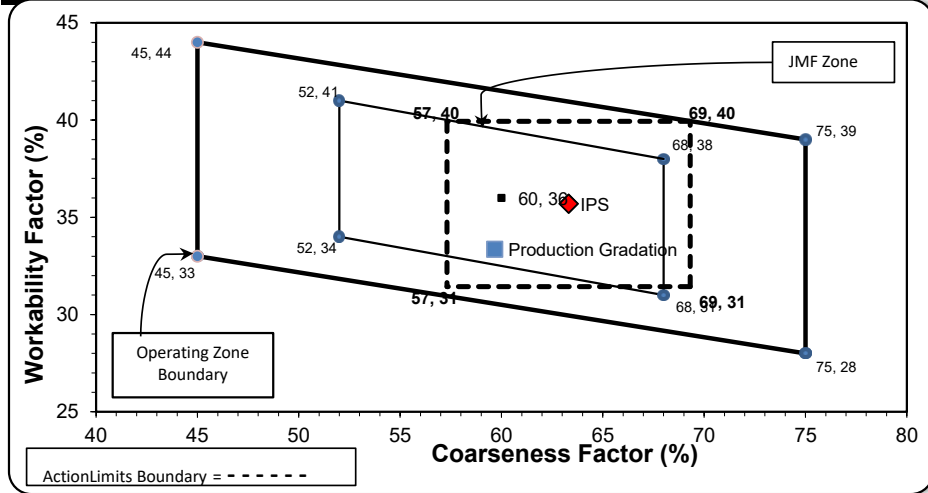
----- Verify this number is 100%

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"	98.5	100.0	100.0	99.4	0.6	0.6
3/4"	82.8	100.0	100.0	92.9	6.5	7.1
1/2"	34.6	96.7	100.0	72.2	20.7	27.8
3/8"	12.7	82.1	100.0	60.2	11.9	39.8
#4	1.9	15.7	97.9	42.0	18.2	58.0
#8	1.7	4.6	81.5	33.4	8.6	66.6
#16	1.7	3.0	65.3	26.7	6.6	73.3
#30	1.6	2.7	48.0	19.9	6.8	80.1
#50	1.5	2.4	22.6	9.9	10.0	90.1
#100	1.5	2.2	3.7	2.5	7.4	97.5
LBW	1.3	2.0	0.5	1.1	1.4	98.9

*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

Coarseness Factor:	60	Workability Factor:	33
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Initial Production Sample (IPS)

Coarseness Factor:	63		
Workability Factor:	36		
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"	95.6	4.4	4.4
1/2"	73.1	22.6	26.9
3/8"	59.3	13.8	40.7
#4	42.8	16.5	57.2
#8	35.7	7.1	64.3
#16	28.9	6.8	71.1
#30	20.7	8.2	79.3
#50	9.9	10.8	90.1
#100	2.1	7.8	97.9
LBW	0.9	1.2	99.1

PREPARED BY:
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Approved By:
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