

Aggregate Optimization Chart

PLANT #: **P-36**

Sample Date: 5/23/26

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 5/24/2026 through 5/31/2026

5" SLUMP

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1400	8.73	2.57	49.1
26A	71-47	Presque Isle	400	2.49	2.57	14.0
2NS	63-115	Ray Rd	1050	6.30	2.67	36.8
Total Wt			2850	17.53		100.0

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



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

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"	99.3	100.0	100.0	99.7	0.3	0.3
3/4"	88.2	100.0	100.0	94.2	5.5	5.8
1/2"	39.2	97.3	100.0	69.8	24.4	30.2
3/8"	18.6	83.5	100.0	57.7	12.1	42.3
#4	2.9	16.1	98.1	39.8	17.9	60.2
#8	1.9	5.1	87.2	33.8	6.1	66.2
#16	1.7	2.9	64.0	24.8	9.0	75.2
#30	1.6	2.3	43.6	17.2	7.6	82.8
#50	1.6	2.0	20.0	8.4	8.7	91.6
#100	1.5	1.9	3.9	2.4	6.0	97.6
LBW	1.4	1.7	0.8	1.2	1.2	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.

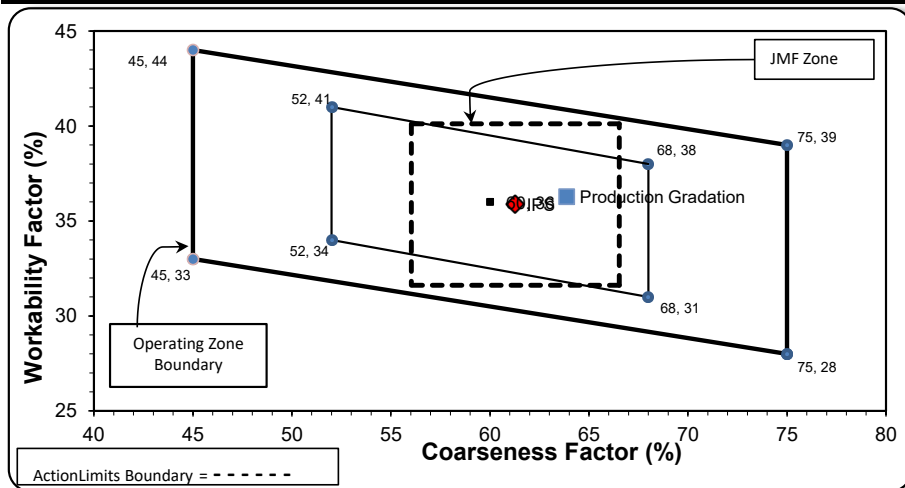
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	64	Workability Factor:	34	36.3
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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:
 SM, LLC Technical Service

Approved By:
 Nancy Donahue