

Aggregate Optimization Chart

Production Gradation Report

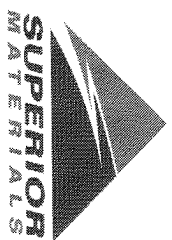
PLANT #: **p11**

Sample Date: 11/11/24

Dates Test Represents: 11/12/2024 through 11/18/2024

Concrete Grade: **S2M, 3500HP**

Contractor: _____
MIDOT 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	1820	11.13	2.62	59.7
26A	71-47	Presque Isle	0	0.00	2.62	0.0
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3
		Total Wt	3050	18.57		100.0

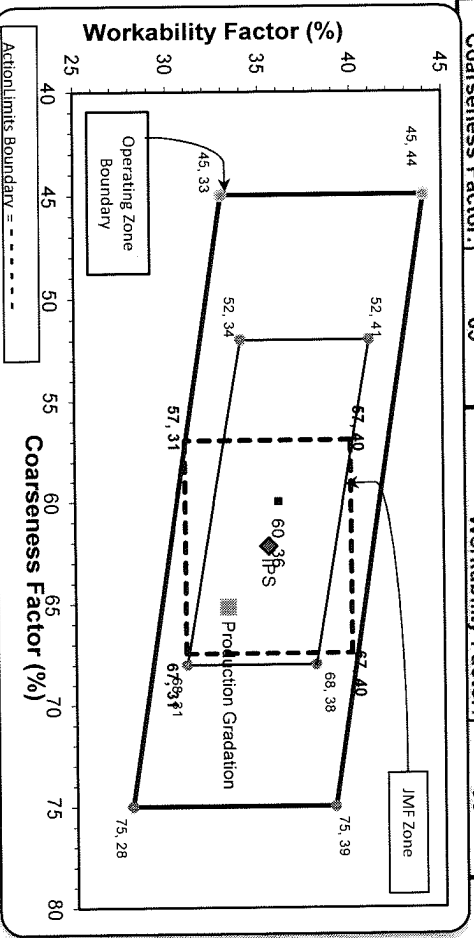
Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	97.2	100.0	100.0	98.3	1.7	1.7
3/4"	85.1	100.0	100.0	91.1	7.2	8.9
1/2"	47.8	96.3	100.0	68.9	22.3	31.1
3/8"	27.1	82.9	100.0	56.5	12.4	43.5
#4	4.6	19.6	95.3	41.2	15.3	58.8
#8	2.4	7.8	78.9	33.3	7.9	66.7
#16	2.3	4.8	64.1	27.2	6.0	72.8
#30	2.2	4.4	49.2	21.2	6.1	78.8
#50	2.1	4.0	25.4	11.5	9.7	88.5
#100	2.0	3.4	6.5	3.8	7.7	96.2
LBW	1.7	2.7	0.9	1.4	2.4	98.6

*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: **65** Workability Factor: **33**



Initial Production Sample (IPS)

Sieve	Coarseness Factor:	Workability Factor:	Cumulative % Passing	% Retained	Cumulative % Retained
2"	62	35	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: _____

