

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-02**

Sample Date: 1/20/25

Concrete Grade: **DM, 4500HP**

Contractor: _____

Dates Test Represents: 1/21/2025 through 1/27/2025

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1450	8.87	2.62	49.9
26A	71-47	Presque Isle	305	1.87	2.62	10.5
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6
Total Wt			2905	17.69		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"	96.4	100.0	100.0	98.2	1.8	1.8
3/4"	81.2	100.0	100.0	90.6	7.6	9.4
1/2"	38.6	94.1	100.0	68.7	21.9	31.3
3/8"	20.4	79.3	100.0	58.1	10.6	41.9
#4	3.5	15.5	99.6	42.8	15.3	57.2
#8	1.9	4.9	80.1	33.2	9.6	66.8
#16	1.8	2.9	63.9	26.5	6.7	73.5
#30	1.7	2.5	48.4	20.3	6.2	79.7
#50	1.6	2.4	25.8	11.3	9.0	88.7
#100	1.5	2.3	6.1	3.4	7.9	96.6
LBW	1.3	2.1	0.9	1.2	2.2	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.



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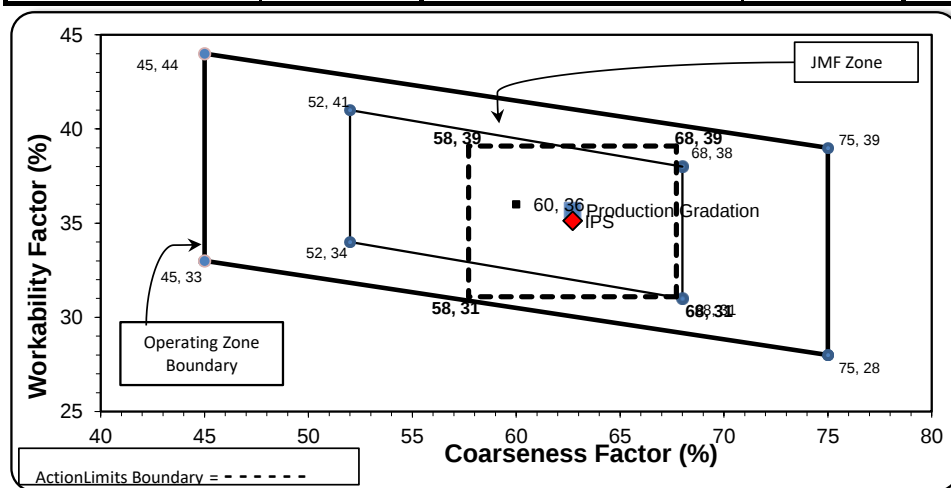
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	63	Workability Factor:	33	35.7
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Coarseness Factor:	63
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Workability Factor:	35
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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"	100.0	0.0	0.0
3/4"	95.1	4.9	4.9
1/2"	74.6	20.5	25.4
3/8"	59.3	15.3	40.7
#4	42.1	17.2	57.9
#8	35.1	7.1	64.9
#16	29.2	5.9	70.8
#30	21.9	7.3	78.1
#50	9.6	12.4	90.4
#100	2.4	7.2	97.6
LBW	0.9	1.5	99.1

PREPARED BY:
SM, LLC Technical Service

Approved By:

[Signature]