

Route: Cole Hill Road
 County/Town: Town of Berne
 Customer: Albany County Highway Dept.

Start: State Route 443
 End: CR 1
 Length: 25,400'

Prepared By:
 All States Emulsions, LLC
 6 Freemans Bridge Rd
 Scotia, NY

CORE #:	1	2	3	4	5	6	7	8	9	DESIGN #
MILE POINT:	1000' from Route 443	4000' from Route 443	11,500' from Route 443	17,000' from Route 443						4009
Core Location:	Wheel Path	Lane Center	Lane Center	Edge						
Sieve Size	PERCENT PASSING									AVERAGE
1 1/2"	100.0	100.0	100.0	100.0						100.0
1"	100.0	100.0	100.0	100.0						100.0
1/2"	90.3	91.2	90.3	94.8						91.7
1/4"	64.0	67.1	75.1	71.7						69.5
1/8"	38.3	44.1	52.2	44.9						44.9
#20	15.4	17.6	19.2	15.4						16.9
#40	8.8	10.3	11.9	9.4						10.1
#80	2.5	3.0	3.1	2.3						2.7
#200	0.7	1.0	0.9	0.6						0.8
AC	5.5	6.37	7.8	5.98						
Depth (in.)	8.0	8.0	5.5	6.0						6.41
Recycle Depth:	4"			Add Stone:	None		Cement: None			



Main: 518-462-5401
 Fax: 518-462-1296

Route: Cole Hill Road
County/Town: Town of Berne
Customer: Albany County Highway Dept.

Start: State Route 443
End: CR 1
Length: 25,400'

Prepared By:
All States Emulsions, LLC
6 Freemans Bridge Rd
Scotia, NY

Recommendations
Existing material had an in place density of 142.3. The wet material density was 130.1. Based on testing results 2.5% of HFMS-2T produced stabilities well above the NYS minimum.

Main: 518-462-5401
Fax: 518-462-1296

1/14/2025



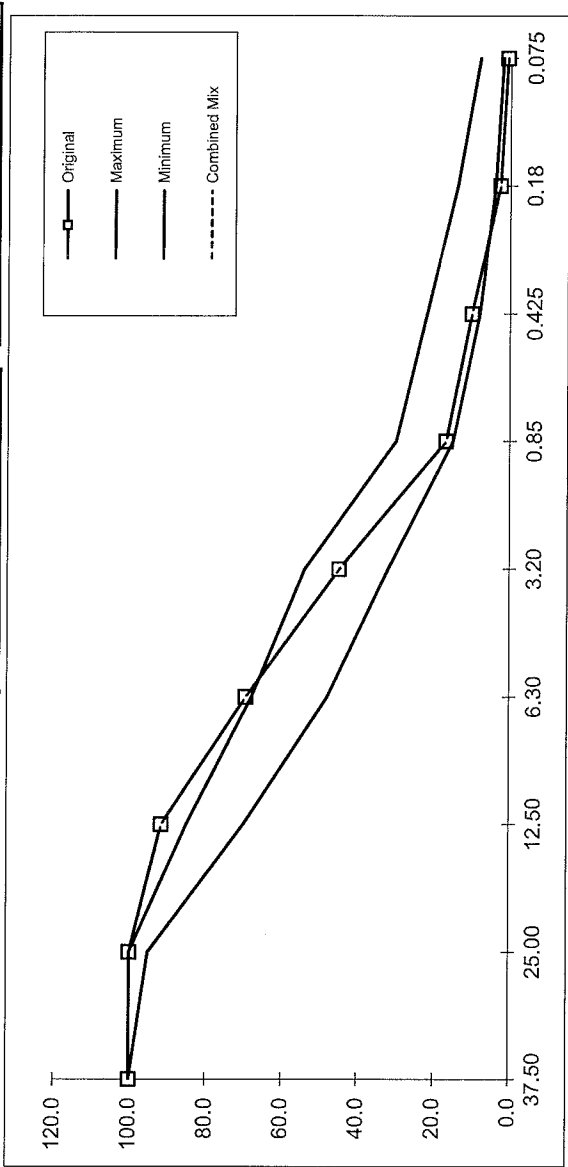
Mix Design

Location : Town of Berne
Mix Design # : 4009

SIEVE NUMBER	Original
37.50	100.0
25.00	100.0
12.50	91.7
6.30	69.5
3.20	44.9
0.85	16.9
0.425	10.1
0.18	2.7
0.075	0.8

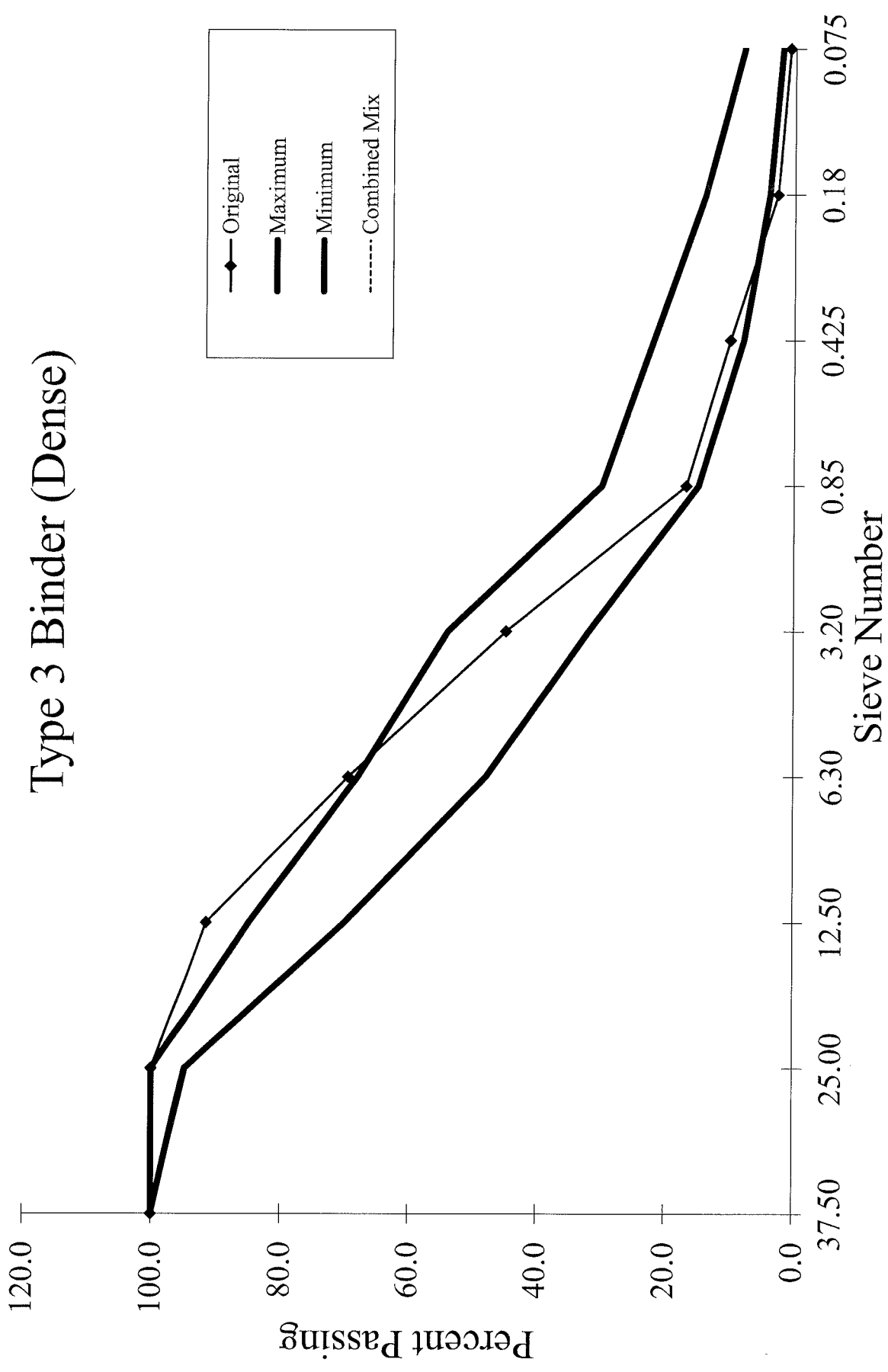
Road : Cole Hill Road	
Emulsion (gal/yd ³)	
1.27	
ADDSTONE	
2	
ADDSTONE TYPE	
2	
Percent Added	
0.0%	
Added Stone (lb/yd ³)	
0	
Percent original	
100.0%	
Maximum	Minimum
100	100
100	95
85	70
68	48
54	32
30	15
22	8
14	4
8	2

SIEVE SIZE	Combined Mix
37.50	100.0
25	100.0
12.5	91.7
6.3	69.5
3.2	44.9
0.85	16.9
0.425	10.1
0.18	2.7
0.075	0.8



Rap Density
Total Width

142.35 Emulsion % is a suggested starting point. May vary in the field.



Route: Cole Hill Road
County: Albany County Highway Dept.
Town: Town of Berne

Start: State Route 443
End: CR 1
Length: 25,400'

Prepared By:
All States Emulsions, LLC
6 Freemans Bridge Rd
Scotia, NY

Mix Design #:	4009
Emulsion Grade:	HFMS-2T

Dry Average	
Em. %	2.5
Stability	4278.1
Density	127.3
Sp. Gr.	2.040
Strength	272.36

Strength Type	Emulsion %	Stability	Density	Sp. Gr.
Dry	2.5	4019.2	129.16	2.07
		4373.1	125.22	2.007
		4442.1	127.4	2.042

12-18-24

ROAD DATA (Survey)

ROAD DATA (Survey)

Sample Location						Pavement Condition				
Sample #:	Mile Point:	Pavement Depth:	Subbase Depth:	Edge	Wheel Path	Lane Center	Road Center	Good	Rutted	Cracked
1	10.00' from Rt 443	8"		☐	☒	☐	☐	☒	☐	☐
2	14.00' from Rt 443	8"		☐	☐	☒	☐	☒	☐	☐
3	15.00' from Rt 443	12.5"		☐	☐	☐	☒	☐	☒	☒
4	16.00' from Rt 443	5.5"		☐	☐	☒	☐	☐	☒	☒
5	17.00' from Rt 443	6"		☒	☐	☐	☐	☐	☒	☒
6	21.00' from Rt 443	8.5"		☐	☐	☒	☐	☐	☒	☒
7	22.00' from Rt 443	8"		☒	☐	☐	☐	☐	☒	☒
8	24.50' from Rt 443	8"		☐	☐	☐	☒	☐	☒	☒
				☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐

Lab Comments:

Core Mill Road