



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 018 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 8/11/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 10959

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: AJAX

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Sunny

TEST PERFORMED ON:		X	WEARING COURSE (WC)			LEVELING COURSE (LC)			BASE COURSE (BC)			OTHER		
STRUCTURE:														
TEST			WET DENSITY		MOISTURE			DENSITY		TEST LOCATION				
ORIG.	RETEST	DEPTH	DENSITY COUNTS	WET DENSITY	MOIST. COUNTS	MOIST.	MOIST.	MAX DENSITY	COMPACT.	STATIONING/LOCATION	OFFSET OF CL (FT)		COURSE	
		INCH	DC	PCF	MC	PCF	%	PCF	%		LEFT	RIGHT		
1		BS	530	146	93	7.8	5.6	156.2	93.4	42.4047, - 83.0688	8		BT	
2		BS	541	144.6	92	7.7	5.6	156.2	92.6	42.4051, - 83.0676		4.00	BT	
3		BS	524	146.7	90	7.5	5.4	156.2	93.9	42.4054, - 83.0668	5		BT	
4		BS	542	144.5	92	7.7	5.6	156.2	92.5	42.4058, - 83.0659		6.00	BT	
5		BS	528	146.2	96	8.1	5.9	156.2	93.6	42.4069, - 83.0630	3		BT	
6		BS	518	147.5	85	7	5	156.2	94.4	42.4072, - 83.0621		3.00	BT	
7		BS	514	147.9	90	7.5	5.3	156.2	94.7	42.4075, - 83.0612	2		BT	
8		BS	538	145	94	7.9	5.8	156.2	92.8	42.4078, - 83.0603		5.00	BT	
9		BS	540	144.7	95	8	5.8	156.2	92.6	42.4083, - 83.0589	4		BT	
10		BS	539	144.9	89	7.4	5.4	156.2	92.7	42.4085, - 83.0585		3.00	BT	
11		BS	530	145.9	98	8.3	6	156.2	93.4	42.4086, - 83.0579	6		BT	
MAXIMUM DETERMINATION (LAB)										PRESCALE				
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$										16		16		
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$										DENSITY		MOISTURE		
MAXIMUM WET DENSITY BY:			MARSHALL/Gmb 95.0%			TMD/Gmm 92.0% - 96.0%					DENSITY		MOISTURE	
			TMD/Gmm 92.0% - 97.0%			x			TMD/Gmm 92.0% - 98.0%		READING 1		2135 589	
REMARKS:										READING 2		2144 594		
mix = 5E3 TMD156.2										READING 3		2132 593		
										READING 4		2132 601		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2144		592		
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 8/11/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/18/2020				

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