



Somat Engineering, Inc.

26445 Northline Rd, Taylor, MI 48180
Tel: 734-946-4966 Fax: 734-946-1147

ASTM D2950

REPORT NUMBER: 022 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 9/1/2020

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: Fair

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		
12		BS	510	148	94	7.9	5.6	156.6	94.5	42.4270, - 83.1608	12		BT	
13		BS	516	147.3	89	7.4	5.3	156.6	94	42.4348, - 83.1611	16		BT	
14		BS	495	149.9	90	7.5	5.3	156.6	95.7	42.4334, - 83.1610	13		BT	
15		BS	533	145.2	88	7.3	5.3	156.6	92.7	42.4318, - 83.1610	10		BT	
16		BS	508	148.2	103	8.8	6.3	156.6	94.6	42.4309, - 83.1609	9		BT	
17		BS	499	149.4	88	7.3	5.1	156.6	95.4	42.4296, - 83.1609	11		BT	
18		BS	498	149.5	92	7.7	5.4	156.6	95.5	42.4270, - 83.1608	14		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		2147 593			
REMARKS:										READING 2		2140 591		
Mix = 5E3										READING 3		2145 593		
										READING 4		2140 588		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2131		591		
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 9/1/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 9/4/2020				

*All results noted in this report relate only to items inspected or tested by Somat Engineering, Inc. and/or Somat Engineering of Ohio, Inc. (Somat). This report shall not be reproduced, except in full, without the prior written approval of Somat.