



Somat Engineering, Inc.

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

ASTM D2950

REPORT NUMBER: 006 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/23/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 15829

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: Ajax

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: fair

TEST PERFORMED ON:		WEARING COURSE (WC)	X	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	480	146.5	120	8.6	6.2	158.4	92.5	42.4038, - 83.0711		8.00	BL		
2		BS	469	148.2	106	7.4	5.2	158.4	93.5	42.4041, - 83.0702	4		BL		
3		BS	486	145.7	106	7.4	5.3	158.4	92	42.4045, - 83.0692		6.00	BL		
4		BS	448	151.4	113	8	5.6	158.4	95.6	42.4054, -83.0667	3		BL		
5		BS	469	148.2	119	8.5	6.1	158.4	93.5	42.4066, - 83.0633		10.00	BL		
6		BS	466	148.6	120	8.6	6.1	158.4	93.8	42.4072, - 83.0621	2		BL		
7		BS	469	148.1	120	8.6	6.1	158.4	93.5	42.4073, - 83.0615		5.00	BL		
8		BS	485	145.8	127	9.2	6.7	158.4	92	42.4076, - 83.0606	9		BL		
9		BS	465	148.7	124	8.9	6.4	158.4	93.9	42.4079, - 83.0598		2.00	BL		
10		BS	470	148	111	7.8	5.6	158.4	93.4	42.4083, - 83.0589	1		BL		
11		BS	468	148.3	131	9.5	6.9	158.4	93.6	42.4086, - 83.0579		9.00	BL		
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		701		
REMARKS:										READING 2		1845		701	
										READING 3		1838		700	
										READING 4		1836		699	
										OPERATING STANDARDS (READING 5)					
										DENSITY		MOISTURE			
										1849		702			
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 7/23/2020					
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 7/30/2020					

*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.