

**ASPHALT DENSITY
DETERMINATION REPORT**

DATE: 9/2/2020

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					
1		BS	528	146.6	100	8.5	6.1	156.6	93.6	42.4247, - 83.1607		12		BT				
2		BS	513	148.5	88	7.3	5.2	156.6	94.8	42.4241, - 83.1607		10		BT				
3		BS	528	146.6	106	9.1	6.6	156.6	93.6	42.4230, - 83.1606		8		BT				
4		BS	531	146.3	93	7.8	5.6	156.6	93.4	42.4217, - 83.1606		11		BT				
5		BS	500	150.1	108	9.3	6.6	156.6	95.8	42.4204, - 83.1605		9		BT				
6		BS	512	148.6	94	7.9	5.6	156.6	94.9	42.4193, - 83.1604		17		BT				
7		BS	501	150	94	7.9	5.6	156.6	95.8	42.4178, - 83.1604		13		BT				
8		BS	537	145.6	95	8	5.8	156.6	92.9	42.4247, - 83.1607			3.00	BT				
9		BS	514	148.4	85	7	4.9	156.6	94.8	42.4241, - 83.1607		5		BT				
10		BS	514	148.4	96	8.1	5.8	156.6	94.7	42.4230, - 83.1606			1.00	BT				
11		BS	513	148.5	91	7.6	5.4	156.6	94.8	42.4217, - 83.1606		4		BT				
MAXIMUM DETERMINATION (LAB)										PRESCALE								
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$										16								
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$										16								
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%									
REMARKS:										READING 1		2131		591				
MIX 5E3										READING 2		2177		593				
										READING 3		2139		598				
										READING 4		2169		588				
										OPERATING STANDARDS (READING 5)								
										DENSITY		MOISTURE						
										2160		592						
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE:		9/2/2020						
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.