



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 006 SHEET: 2 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)		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	476	147.1	110	7.7	5.5	158.4	92.9	42.4087, - 83.0580	6		BL
13		BS	477	147	122	8.8	6.3	158.4	92.8	42.4083, - 83.0589		1.00	BL
14		BS	465	148.8	114	8.1	5.7	158.4	93.9	42.4075, - 83.0612		5.00	BL
15		BS	479	146.7	114	8.1	5.8	158.4	92.6	42.4072, - 83.0621	4		BL
16		BS	464	148.9	116	8.3	5.9	158.4	94	42.4069, - 83.0630		8.00	BL
17		BS	467	148.4	125	9	6.5	158.4	93.7	42.4058, - 83.0659	4		BL
18		BS	452	150.8	106	7.4	5.1	158.4	95.2	42.4055, - 83.0668	10		BL
19		BS	476	147.1	117	8.3	6	158.4	92.9	42.4051, - 83.0676		9.00	BL
20		BS	453	150.6	123	8.9	6.2	158.4	95	42.4047, - 83.0688	5		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%			TMD/Gmm 92.0% - 98.0%			READING 1		701		
REMARKS:										READING 2		701	
										READING 3		700	
										READING 4		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	

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