



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 015 SHEET: 2 OF 3

ASPHALT DENSITY DETERMINATION REPORT

DATE: 8/6/2020

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:		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		
12		BS	489	151.8	86	7.2	4.9	158.4	95.8	42.3817, - 83.2169	6		BL	
13		BS	520	147.9	90	7.6	5.3	158.4	93.4	42.3836, - 83.2172		4.00	BL	
14		BS	503	150.1	84	7	4.8	158.4	94.7	42.3851, - 83.2172	4		BL	
15		BS	531	146.6	85	7.1	5	158.4	92.5	42.3866, - 83.2172		5.00	BL	
16		BS	516	148.4	89	7.5	5.2	158.4	93.7	42.3504, - 83.2308	1		BL	
17		BS	531	146.6	80	6.6	4.6	158.4	92.6	42.3505, - 83.2272		2.00	BL	
18		BS	538	145.8	86	7.2	5.1	158.4	92	42.3504, - 83.2246	9		BL	
19		BS	538	145.9	69	5.5	3.8	158.4	92.1	42.3505, - 83.2186		8.00	BL	
20		BS	490	151.7	85	7.1	4.8	158.4	95.8	42.3506, - 83.2174	3		BL	
21		BS	523	147.6	87	7.3	5.1	158.4	93.1	42.3506, - 83.2198		1.00	BL	
22		BS	506	149.6	112	9.7	6.9	158.4	94.4	42.3506, - 83.2222	7		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		2139 590	
REMARKS:										READING 2		2156 592		
										READING 3		2163 595		
										READING 4		2168 596		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2169		593		
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 8/6/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/12/2020				

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