



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 022 SHEET: 1 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			
1		BS	525	146.2	90	7.5	5.4	156.6	93.3	42.4348, - 83.1611		10.00	BT		
2		BS	503	148.9	101	8.6	6.1	156.6	95	42.4334, - 83.1610		15.00	BT		
3		BS	506	148.5	92	7.7	5.5	156.6	94.8	42.4318, - 83.1610		17.00	BT		
4		BS	539	144.4	105	9	6.7	156.6	92.2	42.4309, - 83.1609		12.00	BT		
5		BS	513	147.6	100	8.5	6.1	156.6	94.2	42.7296, - 83.1609		11.00	BT		
6		BS	510	148	93	7.8	5.6	156.6	94.5	42.4270, - 83.1608		13.00	BT		
7		BS	508	148.3	95	8	5.7	156.6	94.7	42.4348, - 83.1611		4.00	BT		
8		BS	520	146.8	95	8	5.8	156.6	93.7	42.4334, - 83.1610	3		BT		
9		BS	496	149.8	98	8.3	5.9	156.6	95.6	42.4318, - 83.1610		5.00	BT		
10		BS	499	149.4	104	8.9	6.3	156.6	95.4	42.4309, - 83.1609	2		BT		
11		BS	500	149.3	88	7.3	5.2	156.6	95.3	42.4296, - 83.1609		1.00	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:															
Mix = 5E3										READING 2		2140 591			
										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					

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