



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 009 SHEET: 2 OF 3

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/29/2020

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:		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			
12		BS	481	146.1	110	7.7	5.6	156.6	93.3	42.4409, - 83.1613	4		BT		
13		BS	471	147.6	109	7.6	5.5	156.6	94.3	42.4398, - 83.1613		5.00	BT		
14		BS	488	145.1	117	8.3	6.1	156.6	92.7	42.4389, - 83.1612	3		BT		
15		BS	492	144.5	112	7.9	5.8	156.6	92.3	42.4381, - 83.1612		2.00	BT		
16		BS	485	145.5	111	7.8	5.7	156.6	93	42.4364, - 83.1612	1		BT		
17		BS	480	146.2	119	8.5	6.2	156.6	93.4	42.4455, - 83.1615		8.00	BT		
18		BS	482	145.9	124	8.9	6.5	156.6	93.2	42.4444, - 83.1614		6.00	BT		
19		BS	462	148.9	116	8.2	5.9	156.6	95.1	42.4434, - 83.1614		4.00	BT		
20		BS	484	145.6	126	9	6.7	156.6	93	42.4409, - 83.1613		9.00	BT		
21		BS	469	147.9	111	7.8	5.6	156.6	94.5	42.4398, - 83.1613		7.00	BT		
22		BS	465	148.4	135	9.8	7.1	156.6	94.8	42.4389, - 83.1612		3.00	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%					1841		699		
REMARKS:										READING 1		1841		699	
										READING 2		1837		703	
										READING 3		1834		701	
										READING 4		1832		702	
										OPERATING STANDARDS (READING 5)					
										DENSITY		MOISTURE			
										1841		706			
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE:		7/29/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE:		7/30/2020			

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