



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 009 SHEET: 1 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			
1		BS	474	147.1	123	8.8	6.3	156.6	94	42.4455, - 83.1615	12		BT		
2		BS	491	144.7	111	7.8	5.7	156.6	92.4	42.4444, - 83.1614	8		BT		
3		BS	460	149.3	110	7.7	5.4	156.6	95.5	42.4434, - 83.1614	16		BT		
4		BS	482	146	95	6.4	4.6	156.6	93.3	42.4409, - 83.1613	10		BT		
5		BS	477	146.7	110	7.7	5.5	156.6	93.7	42.4398, -83.1613	9		BT		
6		BS	486	145.5	80	5.1	3.6	156.6	93.1	42.4389, - 83.1612	15		BT		
7		BS	474	147.1	122	8.7	6.3	156.6	94	42.4384, - 83.1612	8		BT		
8		BS	461	149.1	101	6.9	4.9	156.6	95.3	42.4364, - 83.1612	13		BT		
9		BS	461	149.1	109	7.6	5.4	156.6	95.4	42.4455, - 83.1615		4.00	BT		
10		BS	487	145.2	116	8.2	6	156.6	92.8	42.4444, - 83.1614	3		BT		
11		BS	486	145.4	114	8	5.8	156.6	92.9	42.4434, - 83.1614		2.00	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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