



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 011 SHEET: 2 OF 3

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/31/2020

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	491	144.2	116	8.2	6	156.2	92.3	42.4229, - 83.1606		3.00	BT	
13		BS	458	149.1	112	7.9	5.6	156.2	95.5	42.4232, - 83.1607	5		BT	
14		BS	482	145.5	116	8.2	6	156.2	93.1	42.4216, - 83.1606		6.00	BT	
15		BS	470	147.3	124	8.9	6.4	156.2	94.3	42.4205, - 83.1605	5		BT	
16		BS	454	149.7	122	8.8	6.2	156.2	95.8	42.4190, - 83.1604		4.00	BT	
17		BS	486	144.9	123	8.8	6.5	156.2	92.8	42.4177, - 83.1603	3		BT	
18		BS	471	147.1	115	8.2	5.9	156.2	94.2	42.4170, - 83.1603		2.00	BT	
19		BS	488	144.6	125	9	6.6	156.2	92.6	42.4242, - 83.1607		10.00	BT	
20		BS	478	146.1	109	7.6	5.5	156.2	93.5	42.4240, - 83.1607		8.00	BT	
21		BS	483	145.4	117	8.3	6.1	156.2	93.1	42.4229, - 83.1606		12.00	BT	
22		BS	452	150	120	8.6	6.1	156.2	96	42.4232, - 83.1607		14.00	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		701	
REMARKS:										READING 2		705		
										READING 3		705		
										READING 4		700		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										1830		703		
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 7/31/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/5/2020				

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