



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 021 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 8/31/2020

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					
12		BS	522	147	87	7.2	5.1	156.6	93.9	42.4386, - 83.1612			2.00	BT				
13		BS	533	145.7	80	6.5	4.7	156.6	93	42.4377, - 83.1612		1		BT				
14		BS	515	147.9	95	8	5.7	156.6	94.4	42.4359, - 83.1611			4.00	BT				
15		BS	523	146.9	89	7.4	5.3	156.6	93.8	42.4455, - 83.1615			20.00	BT				
16		BS	517	147.7	84	6.9	4.9	156.6	94.3	42.4440, - 83.1614			15.00	BT				
17		BS	498	150	87	7.2	5	156.6	95.8	42.4427, - 83.1614			18.00	BT				
18		BS	523	146.9	89	7.4	5.3	156.6	93.8	42.4408, - 83.1613			13.00	BT				
19		BS	500	149.7	96	8.1	5.7	156.6	95.6	42.4386, - 83.1612			17.00	BT				
20		BS	517	147.7	85	7	5	156.6	94.3	42.4377, - 83.1612			14.00	BT				
21		BS	499	149.9	90	7.5	5.3	156.6	95.7	42.4359, - 83.1611			12.00	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		2133					
REMARKS:										READING 2		2141		591				
Mix 5E3										READING 3		2141		592				
										READING 4		2139		590				
										OPERATING STANDARDS (READING 5)								
										DENSITY		MOISTURE						
										2147		593						
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 8/31/2020								
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 9/4/2020								

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