



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 001 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/7/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 2127

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: Ajax

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Sunny

TEST PERFORMED ON:			WEARING COURSE (WC)		LEVELING COURSE (LC)		X		BASE COURSE (BC)		OTHER		
STRUCTURE: Mainline													
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	740	146.3	54	6.8	4.8	158.1	92.5	42.4287, -83.0333	3		BC
13		BS	738	146.5	49	6	4.3	158.1	92.7	42.4275, -83.0332		6.00	BC
14		BS	739	146.4	50	6.2	4.4	158.1	92.6	42.4266, -83.0335	2		BC
15		BS	719	148.4	47	5.8	4	158.1	93.9	42.4337, -83.0340	12		BC
16		BS	706	149.8	48	5.9	4.1	158.1	94.7	42.4324, -83.0340	19		BC
17		BS	718	148.6	37	4.3	3	158.1	94	42.4312, -83.0339	17		BC
18		BS	728	147.5	42	5	3.5	158.1	93.3	42.4301, -83.0335	12		BC
19		BS	744	145.9	46	5.6	4	158.1	92.3	42.4287, -83.0333	9		BC
20		BS	747	145.6	42	5	3.6	158.1	92.1	42.4274, -83.0332	16		BC
21		BS	729	147.4	46	5.6	4	158.1	93.2	42.4266, -83.0335	10		BC
MAXIMUM DETERMINATION (LAB)										PRESCALE			
NOTE: Gmb to Marshall conversion is $Gmb \times 62.4 \text{ (PCF)} = \text{MARSHALL (PCF)}$										16		16	
NOTE: Gmm to TMD conversion is $Gmm \times 62.4 \text{ (PCF)} = \text{TMD (PCF)}$										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		417	
REMARKS:										READING 2		422	
										READING 3		423	
										READING 4		414	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2763		419	
SOMAT FIELD REPRESENTATIVE:					Ryan Castillo					DATE: 7/7/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 7/10/2020			

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